# Pipe Hangers & Supports

# Pipe Hangers & Supports Private Limited

## A Global Solution to Spring Hangers & Supports

We are a leading Global manufacturer of spring hangers, supports & accessories. Over the past 4decades we have supplied to major power plants, refineries, nuclear installations & process industries around the world.

We operate out of two locations in India, one at Chennai & the other at Thanjavur, Tamil Nadu (about 30 kms from BHEL - Trichy).

| | | |
|---|---|---|
| Products | : | Spring Hangers & Supports (Variable & Constant), Rigid Struts, Rigid Hangers, Hydraulic Snubbers & Sag Compensating Springs |
| T | : | +91 44 2496 7711 - 13 |
| E | : | sales@pipehangers.in |
| Certificates | : | ISO - 9001 : 2015, 14001 : 2015 & OHSAS - 45001 : 2015 |

# OUR PRODUCT PHOTOS AT SITE

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# VARIABLE EFFORT SUPPORTS

The current expanded range of variable effort supports are designed keeping in mind the space constraints imposed by modern industrial complexes generating power, refining petroleum products and off shore rigs. The design lends itself to application of high performance paints which are being increasingly specified by clients who are conscious of degradation & corrosion due to process and environmental conditions.

## APPLICATION

Pipe lines constructed of steel will expand along its axis by an amount equal to its co-eff of thermal expansion when carrying hot or cold fluids. The pipe lines when suspended from Variable effort supports will allow this thermal expansion or contraction relative to structure and at the same time support the weight of the pipe to prevent sagging.
The variable effort support is a simple devise such that a helical coil compression spring is pre-compressed (to reduce head room) in a casing. The spring will compress or expand by an amount equal to the thermal movement of pipe. Hence the load on the pipe will vary with movement and hence the name variable effort support as the supporting effort varies with movement.

## RANGE

Pipe Hanger & Supports offer a wide range of Variable effort supports right from 3.43 Kgs to 39120 Kgs spread across several travel, load & support configuration types

Available in the following variation

## WORKING RANGES

**VS1- 35mm**
**VS2-70mm**
**VS3-140mm**
**VS4-210mm**
**VS5-280mm**
With 29 spring sizes (Size 1 to Size 29) within each travel range. Newly introduced High load variable series to cater for large loads using multi –coil configuration:
**VS1- 35mm**
**VS2-70mm**
**VS3-140mm**
With 7 spring sizes ( Size H1 to H7) within each travel range.

## SUPPORT TYPES

| | |
|---|---|
| **A, B, C** | Top Supported |
| **D** | Top Adjustable |
| **E** | Extended Support |
| **F** | Base mounted |
| **G** | Trapeze type double |

## RELATED SPECIFICATIONS

The Pipe Hangers & Supports range of Variable Effort Supports are designed and manufactured to meet the requirements of the following Specifications:

BS3974
ANSI / ASME B31.3
ANSI / MSS SP69
ANSI / ASME B31.1
ANSI / MSS SP-58

## INSTALLATION AND ERECTION

Please refer the exhaustive Erection / Commissioning manual for details. This is supplied free of cost along with every dispatch. This manual is also available as a free download from our web site www.pipehangers.in.

## MAINTENANCE

The supports are engineered and designed to be maintenance free. Refrain from making any attempt whatsoever to open the canister to remove spring coil since the spring coil is pre-compressed and assembled in the can.

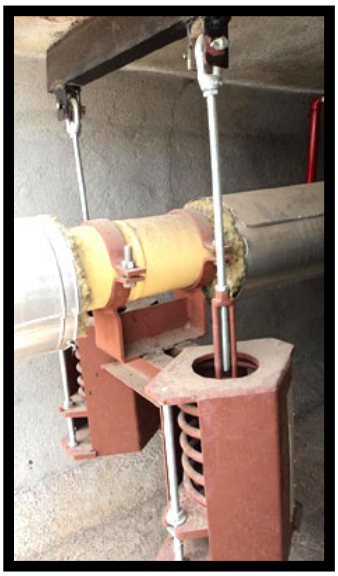
General guidelines for periodic inspection at site:

- Look for rusting on spring coil / locking rods as these are load carrying members.
- Check for visual damage which may impede free movement of spring coil.
- Inspect for fallen construction debris inside can which can cause the spring to deform during operation.
- Check whether the piston plate pointer is near about the “Hot” & “Cold” position marked on the name plate and that it is not at the extremities.
- If the hanger rod is loose or the pipe shoe has lifted, it means that the support is not taking load.
- If the spring is fully compressed to its home length or solid, it means excessive movement / load and needs the attention of Pipe line designer to sort out the issue.

**A more detailed erection and maintenance procedure is available upon request.**

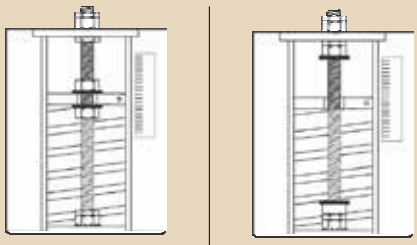
# VARIABLE EFFORT SUPPORTS

Type G



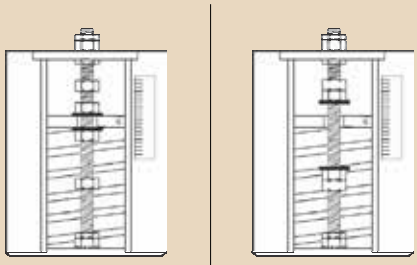
Type F

## STANDARD FEATURES




1. Occupies minimum head room, are compact with low installed heights.
2. Over travel provided at both ends of the travel range as follows:
   VS1=5mm
   VS2=10mm
   VS3=20mm
   VS4=30mm
   VS5=40mm
3. Supports fitted with Stainless / Aluminum name and scale plates punched / engraved with details pertaining to support like Loads, Tag No, Size, S/r Constant, unique serial number for co-relation to test certificate etc.
4. The supports are fitted with a Universal preset locking device using fully threaded rods and nuts such that the piston plate can be locked at any position of its travel range. During installation, the locking nuts are unwound to allow free movement of the piston plate. The locking device stays on the support as an integral part of the support. In order to carry out any maintenance activity on the pipe line during plant shut down / outages the nuts can be wound back to lock the piston plate in position.
5. The construction of the support ( bolted ) is of particular benefit when specialty high performance paints are used or the support is hot dip galvanized, after compressing the spring and locking it, the top plate is locked in position by nuts and there is no welding, hence the paint / HDG does not get damaged.

## OPTIONAL FEATURES




WITH LIMIT STOPS

1. Limit stops can be incorporated when thermal movement has to be limited beyond a certain point. This simply means providing additional nuts welded in place on the side preset locking bars such that the piston plate cannot move beyond that. (see Fig 2).
2. For foot mounted supports, the load flange can be equipped with PTFE slider or graphite pads to reduce friction when large axial / transverse movements are envisaged.
3. Special supports can be designed to suit special operating conditions, please consult our design department for details.

## SELECTION

Variable Effort Supports can be selected manually with the help of the catalogue as shown below or can be selected by using our propriety software that is available as a free issue from our sales department.

## SELECTION FROM THE CATALOGUE

Refer the load charts for variable effort supports, open out the table pertaining to the units i.e Newtons or Kilograms. Selection of VS1, VS2, VS3, VS4, VS5 will depend on the Thermal movement i.e. movement of pipe from cold position to hot position and the allowable load variation in percentage.

Since the pipe is slung or supported directly from the helical coil any vertical movement will represent a certain amount of compression or de-compression of spring coil, in turn manifesting itself as a change in supporting effort.

Thus when the pipe moves from the cold position to hot position the load will vary, the change in load or effort = movement x Spring Constant.

The change is normally expressed as a percentage of the operating load, provided the initial stress analysis is based on the hot load basis and client provide hot load and movement in their specification.

$$\text{Variation is Effort} = \frac{\text{Movement} \times \text{Spring Constant}}{\text{Operating Load}} \times 100\ \%$$

Most Standards like MSS-SP58 limit this percentage variation, also called Load Variation to 25%., though depending on the criticality of application lower or higher Load variations are allowed by pipe work designers.

For the sake of guidance or rule of thumb basis, for movements upto 10 mm use VS1, for 10 to 25 mm use VS2, for 25 to 55mm movement use VS3.

## SUPPORT SIZE

Selection of the support size is done by using the selection charts. Use procedure detailed below for selection.

## SELECTION PROCEDURE

1. Determine the operating load or hot load and the thermal movement i.e movement of pipe from installed (cold or preset position) to hot or operating load. If there are attachments to pipe like heavy clamps or trapeze beams, the weight of these may be added to operating load.
2. Based on guide line above arrive at travel range required.
3. Refer selection chart & select smallest spring size which has the operating load in the working range shown.
4. Ensure that the spring size selected can accommodate the travel within economic range (not in over travel). If the movement is up then go down the chart from operating load and if movement is down, go up the chart by an amount equal to travel from the operating load.
5. Make sure that both operating load and preset load are in the same selected size.
6. If the movement cannot be accommodated by the selected spring try a next higher size or the next travel range.
7. If the travel cannot be accommodated by a VS5 range then select a constant effort support.
8. Calculate the percentage load variation by using formula shown above.
9. If the percentage variation exceeds the limit set by client or 25% (in the absence of any limit set by client) select the spring constant of the next travel range.
10. If the variation is less than half of the max allowed variation then a smaller travel range may do the job i.e from a VS3, you may select a VS2.
11. If the Load variation exceeds 25 % or the limit set by client then select a constant.
12. The process of selection is an iterative one.

## TYPE

Determine the configuration and geometry of support or hanger required based on site conditions and available space and availability of steel work near the support location. The various types are A, B, C, D, E, F, E Once the Size, travel range etc. are selected, the support can be described as VS3-12-C.

## CALCULATION OF INSTALLED DIMENSIONS

The Rod Take Out Dimension or "R TO" as it is popularly called for type A, B, C, G and "J" Dimn for D, E & F type supports tabulated in the tables are at min working load i.e dimensions at minimum load.

a) Installed Load =
Operating Load + (Movement x Spring Rate)
for 'installed to operating' movement up.

b) Installed Load =
Operating Load - (Movement x Spring Rate)
for 'installed to operating' movement down.

Spring Displacement at Installed Load =
Installed Load - Minimum Load (mm)

Spring Rate

Installed Dimension =
R.T.O. + Spring Displacement at Installed Load
(A, B, C and G

units). Installed Dimension =
J - Spring Displacement at Installed Load
(D, E and F units).

## ORDERING

For information on ordering a support or hanger please refer to Page no - 210

# VARIABLE EFFORT SUPPORT LOAD SELECTION CHART kgf

| MOVEMENT mm | | | | | | SPRING SIZE | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VS 1 | VS 2 | VS 3 | VS 4 | VS 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| OVERTRAVEL | | | | | | 2.72 | 4.76 | 7.7 | 10.9 | 12.7 | 16.3 | 18.1 | 29.5 | 36.0 | 47.0 | 62.0 | 79.0 | 110 | 144 | 202 | 252 | 357 | 460 | 609 | 812 | 1082 | 1461 | 2040 | 2731 | 3603 | 4795 | 6350 | 8474 | 11333 |
| | | | | | | 2.86 | 4.94 | 7.91 | 11.2 | 13.1 | 16.8 | 18.7 | 30.2 | 37.0 | 48.3 | 63.7 | 81.3 | 113 | 148 | 207 | 259 | 366 | 472 | 625 | 834 | 1111 | 1500 | 2094 | 2802 | 3700 | 4922 | 6519 | 8704 | 11631 |
| | | | | | | 3.01 | 5.12 | 8.13 | 11.5 | 13.6 | 17.3 | 19.2 | 30.9 | 38.0 | 49.6 | 65.5 | 83.7 | 116 | 152 | 213 | 267 | 375 | 485 | 642 | 855 | 1140 | 1539 | 2147 | 2874 | 3796 | 5049 | 6689 | 8935 | 11930 |
| | | | | | | 3.15 | 5.30 | 8.34 | 11.8 | 14.0 | 17.8 | 19.8 | 31.6 | 39.0 | 50.8 | 67.2 | 86.0 | 119 | 156 | 218 | 274 | 385 | 497 | 658 | 877 | 1169 | 1578 | 2201 | 2945 | 3893 | 5176 | 6858 | 9165 | 12228 |
| | | | | | | 3.29 | 5.48 | 8.56 | 12.0 | 14.4 | 18.3 | 20.4 | 32.4 | 40.0 | 52.1 | 68.9 | 88.4 | 122 | 161 | 224 | 282 | 394 | 509 | 674 | 899 | 1197 | 1618 | 2255 | 3017 | 3989 | 5304 | 7028 | 9395 | 12526 |
| MIN | 0 | 0 | 0 | 0 | 0 | 3.43 | 5.66 | 8.77 | 12.3 | 14.8 | 18.8 | 21.0 | 33.1 | 41.0 | 53.4 | 70.7 | 90.7 | 125 | 165 | 229 | 289 | 403 | 521 | 690 | 921 | 1226 | 1657 | 2309 | 3088 | 4086 | 5431 | 7197 | 9626 | 12824 |
| | | | | | | 3.58 | 5.83 | 8.99 | 12.6 | 15.3 | 19.3 | 21.5 | 33.8 | 42.0 | 54.7 | 72.4 | 93.0 | 128 | 169 | 235 | 297 | 412 | 534 | 707 | 942 | 1255 | 1696 | 2362 | 3160 | 4183 | 5558 | 7367 | 9856 | 13123 |
| | | | | | | 3.72 | 6.01 | 9.20 | 12.9 | 15.7 | 19.8 | 22.1 | 34.5 | 43.0 | 56.0 | 74.1 | 95.4 | 131 | 173 | 240 | 304 | 422 | 546 | 723 | 964 | 1284 | 1735 | 2416 | 3231 | 4279 | 5685 | 7536 | 10086 | 13421 |
| W | | | | | | 3.86 | 6.19 | 9.42 | 13.2 | 16.1 | 20.3 | 22.7 | 35.2 | 44.0 | 57.3 | 75.9 | 97.7 | 134 | 177 | 246 | 312 | 431 | 558 | 739 | 986 | 1313 | 1774 | 2470 | 3303 | 4376 | 5812 | 7706 | 10317 | 13719 |
| | | | | | | 4.01 | 6.37 | 9.63 | 13.5 | 16.6 | 20.8 | 23.3 | 35.9 | 45.0 | 58.5 | 77.6 | 100 | 137 | 181 | 251 | 319 | 440 | 570 | 755 | 1008 | 1342 | 1813 | 2523 | 3374 | 4472 | 5939 | 7875 | 10547 | 14018 |
| | 5 | 10 | 20 | 30 | 40 | 4.15 | 6.55 | 9.85 | 13.8 | 17.0 | 21.3 | 23.8 | 36.6 | 46.0 | 59.8 | 79.3 | 102 | 140 | 185 | 256 | 326 | 449 | 583 | 772 | 1029 | 1371 | 1852 | 2577 | 3445 | 4569 | 6066 | 8044 | 10777 | 14316 |
| O | | | | | | 4.29 | 6.73 | 10.1 | 14.0 | 17.4 | 21.8 | 24.4 | 37.4 | 47.0 | 61.1 | 81.0 | 105 | 143 | 190 | 262 | 334 | 458 | 595 | 788 | 1051 | 1399 | 1892 | 2631 | 3517 | 4665 | 6194 | 8214 | 11008 | 14614 |
| | | | | | | 4.44 | 6.91 | 10.3 | 14.3 | 17.9 | 22.3 | 25.0 | 38.1 | 48.0 | 62.4 | 82.8 | 107 | 146 | 194 | 267 | 341 | 468 | 607 | 804 | 1073 | 1428 | 1931 | 2684 | 3588 | 4762 | 6321 | 8383 | 11238 | 14913 |
| R | | | | | | 4.58 | 7.09 | 10.5 | 14.6 | 18.3 | 22.8 | 25.6 | 38.8 | 49.0 | 63.7 | 84.5 | 109 | 149 | 198 | 273 | 349 | 477 | 619 | 820 | 1095 | 1457 | 1970 | 2738 | 3660 | 4859 | 6448 | 8553 | 11468 | 15211 |
| | | | | | | 4.72 | 7.27 | 10.7 | 14.9 | 18.7 | 23.3 | 26.1 | 39.5 | 50.0 | 65.0 | 86.2 | 112 | 152 | 202 | 278 | 356 | 486 | 632 | 837 | 1116 | 1486 | 2009 | 2792 | 3731 | 4955 | 6575 | 8722 | 11699 | 15509 |
| | 10 | 20 | 40 | 60 | 80 | 4.86 | 7.45 | 10.9 | 15.2 | 19.1 | 23.8 | 26.7 | 40.2 | 51.0 | 66.2 | 88.0 | 114 | 155 | 206 | 284 | 364 | 495 | 644 | 853 | 1138 | 1515 | 2048 | 2846 | 3803 | 5052 | 6702 | 8892 | 11929 | 15807 |
| K | | | | | | 5.01 | 7.62 | 11.1 | 15.5 | 19.6 | 24.3 | 27.3 | 40.9 | 52.0 | 67.5 | 89.7 | 116 | 158 | 210 | 289 | 371 | 505 | 656 | 869 | 1160 | 1544 | 2087 | 2899 | 3874 | 5148 | 6829 | 9061 | 12159 | 16106 |
| | | | | | | 5.15 | 7.80 | 11.3 | 15.8 | 20.0 | 24.8 | 27.8 | 41.6 | 53.0 | 68.8 | 91.4 | 119 | 161 | 214 | 294 | 378 | 514 | 669 | 886 | 1181 | 1573 | 2126 | 2953 | 3945 | 5245 | 6956 | 9230 | 12390 | 16404 |
| I | | | | | | 5.29 | 7.98 | 11.6 | 16.0 | 20.4 | 25.3 | 28.4 | 42.4 | 54.0 | 70.1 | 93.2 | 121 | 164 | 219 | 300 | 386 | 523 | 681 | 902 | 1203 | 1601 | 2166 | 3007 | 4017 | 5342 | 7084 | 9400 | 12620 | 16702 |
| | | | | | | 5.44 | 8.16 | 11.8 | 16.3 | 20.9 | 25.8 | 29.0 | 43.1 | 55.0 | 71.4 | 94.9 | 123 | 167 | 223 | 305 | 393 | 532 | 693 | 918 | 1225 | 1630 | 2205 | 3060 | 4088 | 5438 | 7211 | 9569 | 12850 | 17001 |
| N | 15 | 30 | 60 | 90 | 120 | 5.58 | 8.34 | 12.0 | 16.6 | 21.3 | 26.3 | 29.6 | 43.8 | 56.0 | 72.7 | 96.6 | 126 | 170 | 227 | 311 | 401 | 541 | 705 | 934 | 1247 | 1659 | 2244 | 3114 | 4160 | 5535 | 7338 | 9739 | 13081 | 17299 |
| | | | | | | 5.72 | 8.52 | 12.2 | 16.9 | 21.7 | 26.8 | 30.1 | 44.5 | 57.0 | 73.9 | 98.4 | 128 | 173 | 231 | 316 | 408 | 551 | 718 | 951 | 1268 | 1688 | 2283 | 3168 | 4231 | 5631 | 7465 | 9908 | 13311 | 17597 |
| | | | | | | 5.86 | 8.70 | 12.4 | 17.2 | 22.1 | 27.3 | 30.7 | 45.2 | 58.0 | 75.2 | 100 | 131 | 176 | 235 | 322 | 416 | 560 | 730 | 967 | 1290 | 1717 | 2322 | 3222 | 4303 | 5728 | 7592 | 10078 | 13542 | 17895 |
| G | | | | | | 6.01 | 8.88 | 12.6 | 17.5 | 22.6 | 27.8 | 31.3 | 45.9 | 59.0 | 76.5 | 102 | 133 | 179 | 239 | 327 | 423 | 569 | 742 | 983 | 1312 | 1746 | 2361 | 3275 | 4374 | 5824 | 7719 | 10247 | 13772 | 18194 |
| | | | | | | 6.15 | 9.06 | 12.9 | 17.7 | 23.0 | 28.3 | 31.9 | 46.7 | 60.0 | 77.8 | 104 | 135 | 182 | 244 | 333 | 431 | 578 | 754 | 999 | 1334 | 1774 | 2401 | 3329 | 4446 | 5921 | 7847 | 10417 | 14002 | 18492 |
| | 20 | 40 | 80 | 120 | 160 | 6.29 | 9.24 | 13.1 | 18.0 | 23.4 | 28.8 | 32.4 | 47.4 | 61.0 | 79.1 | 105 | 138 | 185 | 248 | 338 | 438 | 587 | 767 | 1016 | 1355 | 1803 | 2440 | 3383 | 4517 | 6018 | 7974 | 10586 | 14233 | 18790 |
| | | | | | | 6.44 | 9.41 | 13.3 | 18.3 | 23.9 | 29.3 | 33.0 | 48.1 | 62.0 | 80.4 | 107 | 140 | 188 | 252 | 343 | 445 | 597 | 779 | 1032 | 1377 | 1832 | 2479 | 3436 | 4588 | 6114 | 8101 | 10755 | 14463 | 19089 |
| | | | | | | 6.58 | 9.59 | 13.5 | 18.6 | 24.3 | 29.8 | 33.6 | 48.8 | 63.0 | 81.6 | 109 | 142 | 191 | 256 | 349 | 453 | 606 | 791 | 1048 | 1399 | 1861 | 2518 | 3490 | 4660 | 6211 | 8228 | 10925 | 14693 | 19387 |
| R | | | | | | 6.72 | 9.77 | 13.7 | 18.9 | 24.7 | 30.3 | 34.1 | 49.5 | 64.0 | 82.9 | 110 | 145 | 194 | 260 | 354 | 460 | 615 | 804 | 1065 | 1420 | 1890 | 2557 | 3544 | 4731 | 6307 | 8355 | 11094 | 14924 | 19685 |
| | | | | | | 6.86 | 9.95 | 13.9 | 19.2 | 25.1 | 30.8 | 34.7 | 50.2 | 65.0 | 84.2 | 112 | 147 | 197 | 264 | 360 | 468 | 624 | 816 | 1081 | 1442 | 1919 | 2596 | 3598 | 4803 | 6404 | 8482 | 11264 | 15154 | 19983 |
| A | 25 | 50 | 100 | 150 | 200 | 7.01 | 10.1 | 14.1 | 19.5 | 25.6 | 31.3 | 35.3 | 50.9 | 66.0 | 85.5 | 114 | 149 | 200 | 268 | 365 | 475 | 634 | 828 | 1097 | 1464 | 1948 | 2635 | 3651 | 4874 | 6501 | 8609 | 11433 | 15384 | 20282 |
| | | | | | | 7.15 | 10.3 | 14.4 | 19.7 | 26.0 | 31.8 | 35.9 | 51.7 | 67.0 | 86.8 | 116 | 152 | 203 | 273 | 371 | 483 | 643 | 840 | 1113 | 1486 | 1976 | 2675 | 3705 | 4946 | 6597 | 8737 | 11603 | 15615 | 20580 |
| | | | | | | 7.29 | 10.5 | 14.6 | 20.0 | 26.4 | 32.3 | 36.4 | 52.4 | 68.0 | 88.1 | 117 | 154 | 206 | 277 | 376 | 490 | 652 | 853 | 1130 | 1507 | 2005 | 2714 | 3759 | 5017 | 6694 | 8864 | 11772 | 15845 | 20878 |
| N | | | | | | 7.44 | 10.7 | 14.8 | 20.3 | 26.9 | 32.8 | 37.0 | 53.1 | 69.0 | 89.3 | 119 | 156 | 209 | 281 | 381 | 497 | 661 | 865 | 1146 | 1529 | 2034 | 2753 | 3812 | 5088 | 6790 | 8991 | 11941 | 16075 | 21177 |
| | | | | | | 7.58 | 10.8 | 15.0 | 20.6 | 27.3 | 33.3 | 37.6 | 53.8 | 70.0 | 90.6 | 121 | 159 | 212 | 285 | 387 | 505 | 670 | 877 | 1162 | 1551 | 2063 | 2792 | 3866 | 5160 | 6887 | 9118 | 12111 | 16306 | 21475 |
| G | 30 | 60 | 120 | 180 | 240 | 7.72 | 11.0 | 15.2 | 20.9 | 27.7 | 33.8 | 38.2 | 54.5 | 71.0 | 91.9 | 123 | 161 | 215 | 289 | 392 | 512 | 680 | 889 | 1178 | 1573 | 2092 | 2831 | 3920 | 5231 | 6983 | 9245 | 12280 | 16536 | 21773 |
| | | | | | | 7.87 | 11.2 | 15.4 | 21.2 | 28.2 | 34.3 | 38.7 | 55.2 | 72.0 | 93.2 | 124 | 163 | 218 | 293 | 398 | 520 | 689 | 902 | 1195 | 1594 | 2121 | 2870 | 3973 | 5303 | 7080 | 9372 | 12450 | 16766 | 22072 |
| E | | | | | | 8.01 | 11.4 | 15.6 | 21.5 | 28.6 | 34.8 | 39.3 | 55.9 | 73.0 | 94.5 | 126 | 166 | 221 | 297 | 403 | 527 | 698 | 914 | 1211 | 1616 | 2150 | 2909 | 4027 | 5374 | 7177 | 9499 | 12619 | 16997 | 22370 |
| | | | | | | 8.15 | 11.6 | 15.9 | 21.7 | 29.0 | 35.3 | 39.9 | 56.7 | 74.0 | 95.8 | 128 | 168 | 224 | 302 | 409 | 535 | 707 | 926 | 1227 | 1638 | 2178 | 2949 | 4081 | 5446 | 7273 | 9627 | 12789 | 17227 | 22668 |
| | | | | | | 8.29 | 11.7 | 16.1 | 22.0 | 29.4 | 35.8 | 40.5 | 57.4 | 75.0 | 97.0 | 130 | 170 | 227 | 306 | 414 | 542 | 717 | 938 | 1243 | 1660 | 2207 | 2988 | 4135 | 5517 | 7370 | 9754 | 12958 | 17457 | 22966 |
| MAX | 35 | 70 | 140 | 210 | 280 | 8.44 | 11.9 | 16.3 | 22.3 | 29.9 | 36.3 | 41.0 | 58.1 | 76.0 | 98.3 | 131 | 173 | 230 | 310 | 420 | 550 | 726 | 951 | 1260 | 1681 | 2236 | 3027 | 4188 | 5589 | 7466 | 9881 | 13128 | 17688 | 23265 |
| OVERTRAVEL | | | | | | 8.58 | 12.1 | 16.5 | 22.6 | 30.3 | 36.8 | 41.6 | 58.8 | 77.0 | 99.6 | 133 | 175 | 233 | 314 | 425 | 557 | 735 | 963 | 1276 | 1703 | 2265 | 3066 | 4242 | 5660 | 7563 | 10008 | 13297 | 17918 | 23563 |
| | | | | | | 8.72 | 12.3 | 16.7 | 22.9 | 30.7 | 37.3 | 42.2 | 59.5 | 78.0 | 101 | 135 | 177 | 236 | 318 | 430 | 564 | 744 | 975 | 1292 | 1725 | 2294 | 3105 | 4296 | 5731 | 7660 | 10135 | 13466 | 18148 | 23861 |
| | | | | | | 8.87 | 12.5 | 16.9 | 23.2 | 31.2 | 37.8 | 42.7 | 60.2 | 79.0 | 102 | 136 | 180 | 239 | 322 | 436 | 572 | 753 | 988 | 1309 | 1746 | 2323 | 3144 | 4349 | 5803 | 7756 | 10262 | 13636 | 18379 | 24160 |
| | | | | | | 9.01 | 12.6 | 17.1 | 23.5 | 31.6 | 38.3 | 43.3 | 60.9 | 80.0 | 103 | 138 | 182 | 242 | 326 | 441 | 579 | 763 | 1000 | 1325 | 1768 | 2352 | 3183 | 4403 | 5874 | 7853 | 10389 | 13805 | 18609 | 24458 |
| | 40 | 80 | 160 | 240 | 320 | 9.15 | 12.8 | 17.4 | 23.7 | 32.0 | 38.8 | 43.9 | 61.7 | 81.0 | 105 | 140 | 184 | 245 | 331 | 447 | 587 | 772 | 1012 | 1341 | 1790 | 2380 | 3223 | 4457 | 5946 | 7949 | 10517 | 13975 | 18839 | 24756 |

| SPRING RATE kgf/mm | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VS1 | 0.143 | 0.179 | 0.215 | 0.285 | 0.429 | 0.500 | 0.573 | 0.715 | 1.00 | 1.28 | 1.73 | 2.34 | 3.00 | 4.15 | 5.44 | 7.44 | 9.22 | 12.27 | 16.27 | 21.73 | 28.85 | 39.15 | 53.7 | 71.4 | 96.6 | 127 | 169 | 230 | 298 |
| | VS2 | 0.071 | 0.090 | 0.107 | 0.143 | 0.215 | 0.250 | 0.287 | 0.357 | 0.500 | 0.641 | 0.866 | 1.17 | 1.50 | 2.07 | 2.72 | 3.72 | 4.61 | 6.13 | 8.13 | 10.87 | 14.43 | 19.57 | 26.85 | 35.72 | 48.29 | 63.6 | 84.7 | 115 | 149 |
| | VS3 | 0.036 | 0.045 | 0.054 | 0.071 | 0.107 | 0.125 | 0.143 | 0.179 | 0.250 | 0.321 | 0.433 | 0.585 | 0.750 | 1.04 | 1.36 | 1.86 | 2.30 | 3.07 | 4.07 | 5.43 | 7.21 | 9.79 | 13.43 | 17.86 | 24.15 | 31.79 | 42.36 | 57.6 | 74.6 |
| | VS4 | 0.024 | 0.030 | 0.036 | 0.048 | 0.072 | 0.083 | 0.096 | 0.119 | 0.167 | 0.214 | 0.289 | 0.390 | 0.500 | 0.691 | 0.907 | 1.24 | 1.54 | 2.04 | 2.71 | 3.62 | 4.81 | 6.52 | 8.95 | 11.91 | 16.10 | 21.19 | 28.24 | 38.39 | 49.72 |
| | VS5 | 0.018 | 0.022 | 0.027 | 0.036 | 0.054 | 0.063 | 0.072 | 0.089 | 0.125 | 0.160 | 0.216 | 0.293 | 0.375 | 0.518 | 0.680 | 0.93 | 1.15 | 1.53 | 2.03 | 2.72 | 3.61 | 4.89 | 6.71 | 8.93 | 12.07 | 15.89 | 21.18 | 28.79 | 37.29 |

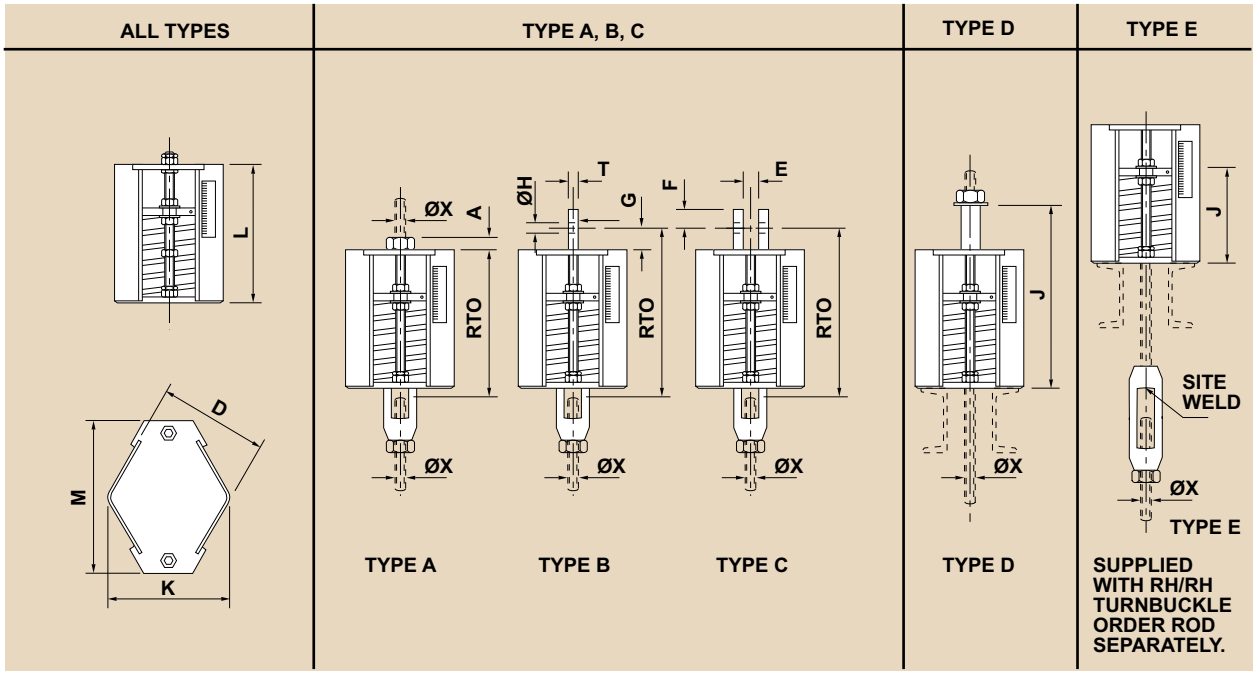
# VARIABLE EFFORT SUPPORT SELECTION CHART — Newtons

| MOVEMENT mm | | | | | | SPRING SIZE | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VS 1 | VS 2 | VS 3 | VS 4 | VS 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| OVERTRAVEL | | | | | | 26.7 | 46.7 | 75.5 | 107 | 125 | 160 | 178 | 289 | 353 | 461 | 608 | 775 | 1079 | 1412 | 1981 | 2471 | 3501 | 4511 | 5972 | 7963 | 10611 | 14328 | 20006 | 26782 | 35333 | 47023 | 62272 | 83102 | 111139 |
| | | | | | | 28.1 | 48.4 | 77.6 | 110 | 129 | 165 | 183 | 296 | 363 | 473 | 625 | 798 | 1108 | 1453 | 2034 | 2544 | 3591 | 4631 | 6132 | 8176 | 10894 | 14711 | 20532 | 27483 | 36281 | 48270 | 63934 | 85360 | 114064 |
| | | | | | | 29.5 | 50.2 | 79.7 | 112 | 133 | 170 | 189 | 303 | 373 | 486 | 642 | 821 | 1138 | 1493 | 2088 | 2617 | 3682 | 4752 | 6291 | 8389 | 11177 | 15095 | 21059 | 28183 | 37228 | 49517 | 65595 | 87619 | 116989 |
| | | | | | | 30.9 | 51.9 | 81.8 | 115 | 137 | 175 | 194 | 310 | 382 | 499 | 659 | 844 | 1167 | 1534 | 2141 | 2690 | 3772 | 4872 | 6451 | 8602 | 11460 | 15479 | 21586 | 28884 | 38175 | 50764 | 67257 | 89878 | 119915 |
| | | | | | | 32.3 | 53.7 | 83.9 | 118 | 141 | 179 | 200 | 317 | 392 | 511 | 676 | 867 | 1196 | 1575 | 2194 | 2763 | 3863 | 4992 | 6610 | 8815 | 11743 | 15863 | 22112 | 29584 | 39122 | 52010 | 68919 | 92137 | 122840 |
| MIN | 0 | 0 | 0 | 0 | 0 | 33.7 | 55.5 | 86.0 | 121 | 146 | 184 | 206 | 324 | 402 | 524 | 693 | 890 | 1226 | 1615 | 2248 | 2836 | 3953 | 5113 | 6770 | 9029 | 12026 | 16247 | 22639 | 30285 | 40069 | 53257 | 70580 | 94396 | 125765 |
| | | | | | | 35.1 | 57.2 | 88.1 | 124 | 150 | 189 | 211 | 331 | 412 | 536 | 710 | 912 | 1255 | 1656 | 2301 | 2909 | 4043 | 5233 | 6929 | 9242 | 12309 | 16631 | 23166 | 30985 | 41016 | 54504 | 72242 | 96655 | 128690 |
| | | | | | | 36.5 | 59.0 | 90.2 | 126 | 154 | 194 | 217 | 338 | 422 | 549 | 727 | 935 | 1285 | 1697 | 2354 | 2982 | 4134 | 5353 | 7089 | 9455 | 12591 | 17015 | 23692 | 31686 | 41964 | 55751 | 73904 | 98914 | 131616 |
| W | | | | | | 37.9 | 60.7 | 92.3 | 129 | 158 | 199 | 222 | 345 | 431 | 562 | 744 | 958 | 1314 | 1737 | 2408 | 3055 | 4224 | 5474 | 7249 | 9668 | 12874 | 17399 | 24219 | 32387 | 42911 | 56998 | 75565 | 101173 | 134541 |
| | | | | | | 39.3 | 62.5 | 94.5 | 132 | 162 | 204 | 228 | 352 | 441 | 574 | 761 | 981 | 1344 | 1778 | 2461 | 3128 | 4315 | 5594 | 7408 | 9881 | 13157 | 17783 | 24746 | 33087 | 43858 | 58245 | 77227 | 103431 | 137466 |
| | 5 | 10 | 20 | 30 | 40 | 40.7 | 64.2 | 96.6 | 135 | 167 | 209 | 234 | 359 | 451 | 587 | 778 | 1004 | 1373 | 1819 | 2514 | 3201 | 4405 | 5714 | 7568 | 10094 | 13440 | 18166 | 25272 | 33788 | 44805 | 59492 | 78889 | 105690 | 140391 |
| O | | | | | | 42.1 | 66.0 | 98.7 | 138 | 171 | 214 | 239 | 366 | 461 | 599 | 795 | 1027 | 1402 | 1859 | 2568 | 3274 | 4496 | 5834 | 7727 | 10307 | 13723 | 18550 | 25799 | 34488 | 45752 | 60739 | 80550 | 107949 | 143317 |
| | | | | | | 43.5 | 67.7 | 101 | 140 | 175 | 219 | 245 | 373 | 471 | 612 | 812 | 1050 | 1432 | 1900 | 2621 | 3347 | 4586 | 5955 | 7887 | 10520 | 14006 | 18934 | 26326 | 35189 | 46700 | 61985 | 82212 | 110208 | 146242 |
| R | | | | | | 44.9 | 69.5 | 103 | 143 | 179 | 224 | 251 | 380 | 481 | 624 | 829 | 1073 | 1461 | 1941 | 2674 | 3420 | 4676 | 6075 | 8046 | 10733 | 14289 | 19318 | 26853 | 35889 | 47647 | 63232 | 83873 | 112467 | 149167 |
| | | | | | | 46.3 | 71.3 | 105 | 146 | 183 | 228 | 256 | 387 | 490 | 637 | 846 | 1096 | 1491 | 1981 | 2728 | 3493 | 4767 | 6195 | 8206 | 10947 | 14572 | 19702 | 27379 | 36590 | 48594 | 64479 | 85535 | 114726 | 152092 |
| | 10 | 20 | 40 | 60 | 80 | 47.7 | 73.0 | 107 | 149 | 188 | 233 | 262 | 394 | 500 | 650 | 863 | 1119 | 1520 | 2022 | 2781 | 3566 | 4857 | 6316 | 8365 | 11160 | 14855 | 20086 | 27906 | 37291 | 49541 | 65726 | 87197 | 116985 | 155018 |
| K | | | | | | 49.1 | 74.8 | 109 | 152 | 192 | 238 | 267 | 401 | 510 | 662 | 880 | 1142 | 1549 | 2063 | 2834 | 3639 | 4948 | 6436 | 8525 | 11373 | 15138 | 20470 | 28433 | 37991 | 50488 | 66973 | 88858 | 119244 | 157943 |
| | | | | | | 50.5 | 76.5 | 111 | 154 | 196 | 243 | 273 | 408 | 520 | 675 | 897 | 1165 | 1579 | 2103 | 2888 | 3711 | 5038 | 6556 | 8684 | 11586 | 15421 | 20854 | 28959 | 38692 | 51435 | 68220 | 90520 | 121502 | 160868 |
| I | | | | | | 51.9 | 78.3 | 113 | 157 | 200 | 248 | 279 | 415 | 530 | 687 | 914 | 1188 | 1608 | 2144 | 2941 | 3784 | 5128 | 6677 | 8844 | 11799 | 15704 | 21238 | 29486 | 39392 | 52383 | 69467 | 92182 | 123761 | 163793 |
| | | | | | | 53.3 | 80.0 | 116 | 160 | 205 | 253 | 284 | 422 | 539 | 700 | 931 | 1211 | 1638 | 2185 | 2994 | 3857 | 5219 | 6797 | 9003 | 12012 | 15987 | 21622 | 30013 | 40093 | 53330 | 70714 | 93843 | 126020 | 166719 |
| | 15 | 30 | 60 | 90 | 120 | 54.7 | 81.8 | 118 | 163 | 209 | 258 | 290 | 429 | 549 | 713 | 948 | 1234 | 1667 | 2225 | 3048 | 3930 | 5309 | 6917 | 9163 | 12225 | 16270 | 22005 | 30539 | 40794 | 54277 | 71960 | 95505 | 128279 | 169644 |
| N | | | | | | 56.1 | 83.5 | 120 | 166 | 213 | 263 | 296 | 436 | 559 | 725 | 965 | 1257 | 1697 | 2266 | 3101 | 4003 | 5400 | 7038 | 9323 | 12438 | 16553 | 22389 | 31066 | 41494 | 55224 | 73207 | 97166 | 130538 | 172569 |
| | | | | | | 57.5 | 85.3 | 122 | 168 | 217 | 268 | 301 | 443 | 569 | 738 | 982 | 1280 | 1726 | 2307 | 3154 | 4076 | 5490 | 7158 | 9482 | 12652 | 16836 | 22773 | 31593 | 42195 | 56171 | 74454 | 98828 | 132797 | 175494 |
| G | | | | | | 58.9 | 87.1 | 124 | 171 | 221 | 273 | 307 | 450 | 579 | 750 | 999 | 1303 | 1755 | 2347 | 3208 | 4149 | 5580 | 7278 | 9642 | 12865 | 17119 | 23157 | 32119 | 42895 | 57118 | 75701 | 100490 | 135056 | 178420 |
| | | | | | | 60.3 | 88.8 | 126 | 174 | 226 | 278 | 312 | 457 | 588 | 763 | 1016 | 1326 | 1785 | 2388 | 3261 | 4222 | 5671 | 7399 | 9801 | 13078 | 17402 | 23541 | 32646 | 43596 | 58066 | 76948 | 102151 | 137315 | 181345 |
| | 20 | 40 | 80 | 120 | 160 | 61.7 | 90.6 | 128 | 177 | 230 | 282 | 318 | 465 | 598 | 775 | 1033 | 1349 | 1814 | 2429 | 3314 | 4295 | 5761 | 7519 | 9961 | 13291 | 17685 | 23925 | 33173 | 44296 | 59013 | 78195 | 103813 | 139574 | 184270 |
| | | | | | | 63.1 | 92.3 | 130 | 180 | 234 | 287 | 324 | 472 | 608 | 788 | 1050 | 1372 | 1844 | 2469 | 3368 | 4368 | 5852 | 7639 | 10120 | 13504 | 17968 | 24309 | 33699 | 44997 | 59960 | 79442 | 105475 | 141832 | 187195 |
| | | | | | | 64.5 | 94.1 | 132 | 182 | 238 | 292 | 329 | 479 | 618 | 801 | 1067 | 1395 | 1873 | 2510 | 3421 | 4441 | 5942 | 7759 | 10280 | 13717 | 18251 | 24693 | 34226 | 45698 | 60907 | 80689 | 107136 | 144091 | 190121 |
| R | | | | | | 65.9 | 95.8 | 134 | 185 | 242 | 297 | 335 | 486 | 628 | 813 | 1084 | 1418 | 1902 | 2551 | 3474 | 4514 | 6033 | 7880 | 10439 | 13930 | 18534 | 25077 | 34753 | 46398 | 61854 | 81936 | 108798 | 146350 | 193046 |
| | | | | | | 67.3 | 97.6 | 137 | 188 | 247 | 302 | 341 | 493 | 637 | 826 | 1100 | 1441 | 1932 | 2591 | 3528 | 4587 | 6123 | 8000 | 10599 | 14143 | 18817 | 25460 | 35280 | 47099 | 62802 | 83182 | 110459 | 148609 | 195971 |
| A | 25 | 50 | 100 | 150 | 200 | 68.7 | 99.3 | 139 | 191 | 251 | 307 | 346 | 500 | 647 | 838 | 1117 | 1464 | 1961 | 2632 | 3581 | 4660 | 6213 | 8120 | 10758 | 14356 | 19100 | 25844 | 35806 | 47799 | 63749 | 84429 | 112121 | 150868 | 198896 |
| | | | | | | 70.1 | 101 | 141 | 194 | 255 | 312 | 352 | 507 | 657 | 851 | 1134 | 1487 | 1991 | 2673 | 3634 | 4733 | 6304 | 8241 | 10918 | 14570 | 19382 | 26228 | 36333 | 48500 | 64696 | 85676 | 113783 | 153127 | 201822 |
| | | | | | | 71.5 | 103 | 143 | 196 | 259 | 317 | 357 | 514 | 667 | 864 | 1151 | 1510 | 2020 | 2713 | 3688 | 4806 | 6394 | 8361 | 11077 | 14783 | 19665 | 26612 | 36860 | 49200 | 65643 | 86923 | 115444 | 155386 | 204747 |
| N | | | | | | 72.9 | 105 | 145 | 199 | 263 | 322 | 363 | 521 | 677 | 876 | 1168 | 1532 | 2050 | 2754 | 3741 | 4879 | 6485 | 8481 | 11237 | 14996 | 19948 | 26996 | 37386 | 49901 | 66590 | 88170 | 117106 | 157645 | 207672 |
| | | | | | | 74.3 | 106 | 147 | 202 | 268 | 327 | 369 | 528 | 686 | 889 | 1185 | 1555 | 2079 | 2795 | 3794 | 4952 | 6575 | 8602 | 11397 | 15209 | 20231 | 27380 | 37913 | 50602 | 67537 | 89417 | 118768 | 159903 | 210597 |
| G | 30 | 60 | 120 | 180 | 240 | 75.7 | 108 | 149 | 205 | 272 | 331 | 374 | 535 | 696 | 901 | 1202 | 1578 | 2108 | 2835 | 3848 | 5025 | 6665 | 8722 | 11556 | 15422 | 20514 | 27764 | 38440 | 51302 | 68485 | 90664 | 120429 | 162162 | 213523 |
| | | | | | | 77.1 | 110 | 151 | 208 | 276 | 336 | 380 | 542 | 706 | 914 | 1219 | 1601 | 2138 | 2876 | 3901 | 5098 | 6756 | 8842 | 11716 | 15635 | 20797 | 28148 | 38966 | 52003 | 69432 | 91911 | 122091 | 164421 | 216448 |
| | | | | | | 78.5 | 112 | 153 | 210 | 280 | 341 | 385 | 549 | 716 | 926 | 1236 | 1624 | 2167 | 2917 | 3954 | 5170 | 6846 | 8963 | 11875 | 15848 | 21080 | 28532 | 39493 | 52703 | 70379 | 93157 | 123753 | 166680 | 219373 |
| E | | | | | | 79.9 | 113 | 155 | 213 | 285 | 346 | 391 | 556 | 726 | 939 | 1253 | 1647 | 2197 | 2957 | 4008 | 5243 | 6937 | 9083 | 12035 | 16061 | 21363 | 28916 | 40020 | 53404 | 71326 | 94404 | 125414 | 168939 | 222298 |
| | | | | | | 81.3 | 115 | 158 | 216 | 289 | 351 | 397 | 563 | 735 | 952 | 1270 | 1670 | 2226 | 2998 | 4061 | 5316 | 7027 | 9203 | 12194 | 16274 | 21646 | 29299 | 40546 | 54104 | 72273 | 95651 | 127076 | 171198 | 225224 |
| MAX | 35 | 70 | 140 | 210 | 280 | 82.7 | 117 | 160 | 219 | 293 | 356 | 402 | 570 | 745 | 964 | 1287 | 1693 | 2256 | 3039 | 4114 | 5389 | 7117 | 9323 | 12354 | 16488 | 21929 | 29683 | 41073 | 54805 | 73221 | 96898 | 128737 | 173457 | 228149 |
| OVERTRAVEL | | | | | | 84.1 | 119 | 162 | 222 | 297 | 361 | 408 | 577 | 755 | 977 | 1304 | 1716 | 2285 | 3079 | 4168 | 5462 | 7208 | 9444 | 12513 | 16701 | 22212 | 30067 | 41600 | 55506 | 74168 | 98145 | 130399 | 175716 | 231074 |
| | | | | | | 85.5 | 120 | 164 | 224 | 301 | 366 | 414 | 584 | 765 | 989 | 1321 | 1739 | 2314 | 3120 | 4221 | 5535 | 7298 | 9564 | 12673 | 16914 | 22495 | 30451 | 42126 | 56206 | 75115 | 99392 | 132061 | 177974 | 233999 |
| | | | | | | 86.9 | 122 | 166 | 227 | 306 | 371 | 419 | 591 | 775 | 1002 | 1338 | 1762 | 2344 | 3161 | 4275 | 5608 | 7389 | 9684 | 12832 | 17127 | 22778 | 30835 | 42653 | 56907 | 76062 | 100639 | 133722 | 180233 | 236925 |
| | | | | | | 88.3 | 124 | 168 | 230 | 310 | 376 | 425 | 598 | 785 | 1014 | 1355 | 1785 | 2373 | 3201 | 4328 | 5681 | 7479 | 9805 | 12992 | 17340 | 23061 | 31219 | 43180 | 57607 | 77009 | 101886 | 135384 | 182492 | 239850 |
| | 40 | 80 | 160 | 240 | 320 | 89.7 | 126 | 170 | 233 | 314 | 380 | 430 | 605 | 794 | 1027 | 1372 | 1808 | 2403 | 3242 | 4381 | 5754 | 7570 | 9925 | 13151 | 17553 | 23344 | 31603 | 43707 | 58308 | 77956 | 103132 | 137046 | 184751 | 242775 |

| SPRING RATE N/MM | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VS1 | 1.40 | 1.76 | 2.10 | 2.80 | 4.21 | 4.90 | 5.62 | 7.01 | 9.81 | 12.6 | 17.0 | 23.0 | 29.4 | 40.7 | 53.3 | 73.0 | 90.4 | 120 | 160 | 213 | 283 | 384 | 527 | 701 | 947 | 1247 | 1662 | 2259 | 2925 |
| | VS2 | 0.701 | 0.878 | 1.05 | 1.40 | 2.10 | 2.45 | 2.81 | 3.50 | 4.90 | 6.29 | 8.49 | 11.5 | 14.7 | 20.3 | 26.7 | 36.5 | 45.2 | 60.2 | 79.8 | 107 | 141 | 192 | 263 | 350 | 474 | 623 | 831 | 1129 | 1463 |
| | VS3 | 0.350 | 0.439 | 0.526 | 0.700 | 1.05 | 1.23 | 1.41 | 1.75 | 2.45 | 3.15 | 4.25 | 5.74 | 7.35 | 10.2 | 13.3 | 18.2 | 22.6 | 30.1 | 39.9 | 53.3 | 70.7 | 96.0 | 132 | 175 | 237 | 312 | 415 | 565 | 731 |
| | VS4 | 0.234 | 0.293 | 0.351 | 0.466 | 0.702 | 0.817 | 0.937 | 1.17 | 1.63 | 2.10 | 2.83 | 3.83 | 4.90 | 6.78 | 8.89 | 12.16 | 15.07 | 20.05 | 26.59 | 35.52 | 47.16 | 63.98 | 87.78 | 116.8 | 157.9 | 207.8 | 276.9 | 376.5 | 487.5 |
| | VS5 | 0.175 | 0.219 | 0.263 | 0.350 | 0.526 | 0.613 | 0.703 | 0.876 | 1.23 | 1.57 | 2.12 | 2.87 | 3.68 | 5.08 | 6.67 | 9.12 | 11.30 | 15.04 | 19.94 | 26.64 | 35.37 | 47.99 | 65.84 | 87.57 | 118.4 | 155.9 | 207.7 | 282.4 | 365.7 |

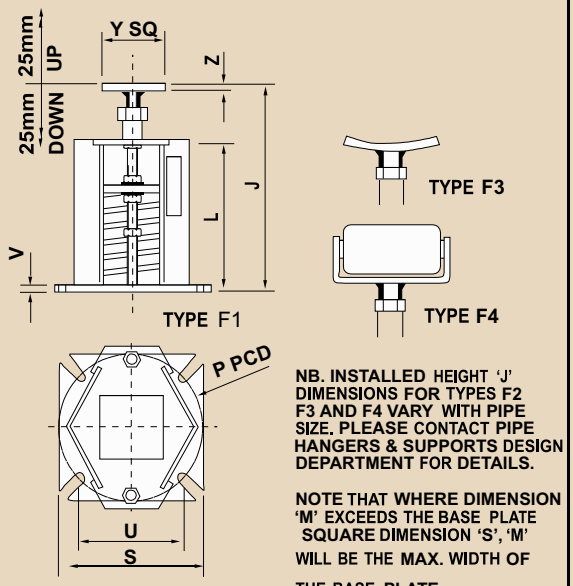
VS 4 - SIZES 1 - 15 AND VS 5 - SIZES 1 - 15 ARE RESTRICTED FROM SELECTION. AS AN ALTERNATIVE SUITABLE CONSTANT SUPPORT IS RECOMMENDED.

# RANGE VS1




| SUPPORT SIZE | ROD DIA | BODY DIMENSIONS | | | | RTO AT MIN LOAD (mm) | | | DEPTH OF THR'D | LUG DIMENSIONS TYPES B & C | | | | | WEIGHTS kgf | | | J AT MIN LOAD | WEIGHT | J AT MIN LOAD | WEIGHT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X mm | D mm | K mm | M mm | L mm (not F) | A | B | C | A mm | E mm | F mm | G mm | H mm | T mm | A | B | C | mm | kgf | mm | kgf |
| VS1-1 | M12 | 108 | 122 | 155 | 133 | 150 | 182 | 182 | 12 | 20 | 20 | 30 | 14 | 6 | 4.0 | 4.1 | 4.2 | 153 | 3.2 | 84 | 3.4 |
| VS1-2 | M12 | 108 | 122 | 155 | 117 | 150 | 182 | 182 | 12 | 20 | 20 | 30 | 14 | 6 | 4.1 | 4.2 | 4.3 | 157 | 3.2 | 88 | 3.5 |
| VS1-3 | M12 | 108 | 122 | 155 | 123 | 150 | 182 | 182 | 12 | 20 | 20 | 30 | 14 | 6 | 4.1 | 4.2 | 4.3 | 163 | 3.3 | 93 | 3.5 |
| VS1-4 | M12 | 108 | 122 | 155 | 124 | 150 | 182 | 182 | 12 | 20 | 20 | 30 | 14 | 6 | 4.2 | 4.3 | 4.4 | 164 | 3.3 | 94 | 3.6 |
| VS1-5 | M12 | 108 | 122 | 155 | 123 | 150 | 182 | 182 | 12 | 20 | 20 | 30 | 14 | 6 | 4.2 | 4.3 | 4.4 | 163 | 3.3 | 93 | 3.6 |
| VS1-6 | M12 | 108 | 122 | 155 | 126 | 150 | 182 | 182 | 12 | 20 | 20 | 30 | 14 | 6 | 4.2 | 4.3 | 4.4 | 166 | 3.3 | 96 | 3.6 |
| VS1-7 | M12 | 108 | 122 | 155 | 127 | 150 | 182 | 182 | 12 | 20 | 20 | 30 | 14 | 6 | 4.3 | 4.4 | 4.5 | 167 | 3.4 | 97 | 3.7 |
| VS1-8 | M12 | 108 | 122 | 155 | 133 | 150 | 182 | 182 | 12 | 20 | 20 | 30 | 14 | 6 | 4.4 | 4.5 | 4.6 | 173 | 3.5 | 103 | 3.8 |
| VS1-9 | M12 | 108 | 122 | 155 | 136 | 150 | 182 | 182 | 12 | 20 | 20 | 30 | 14 | 6 | 4.4 | 4.5 | 4.6 | 176 | 3.6 | 106 | 3.8 |
| VS1-10 | M12 | 108 | 122 | 155 | 134 | 150 | 182 | 182 | 12 | 20 | 20 | 30 | 14 | 6 | 4.5 | 4.6 | 4.7 | 174 | 3.6 | 105 | 3.9 |
| VS1-11 | M12 | 108 | 122 | 155 | 139 | 150 | 182 | 182 | 12 | 20 | 20 | 30 | 14 | 6 | 4.6 | 4.7 | 4.8 | 179 | 3.7 | 109 | 4.0 |
| VS1-12 | M12 | 108 | 122 | 155 | 139 | 150 | 182 | 182 | 12 | 20 | 20 | 30 | 14 | 6 | 4.7 | 4.8 | 4.9 | 179 | 3.8 | 110 | 4.1 |
| VS1-13 | M12 | 108 | 122 | 155 | 160 | 158 | 196 | 196 | 12 | 25 | 30 | 36 | 18 | 6 | 5.0 | 5.1 | 5.3 | 200 | 4.1 | 130 | 4.4 |
| VS1-14 | M12 | 108 | 122 | 155 | 173 | 171 | 209 | 209 | 12 | 25 | 30 | 36 | 18 | 6 | 5.4 | 5.6 | 5.7 | 213 | 4.6 | 143 | 4.8 |
| VS1-15 | M12 | 108 | 122 | 155 | 194 | 192 | 230 | 230 | 12 | 25 | 30 | 36 | 18 | 6 | 6.0 | 6.2 | 6.3 | 234 | 5.1 | 165 | 5.4 |
| VS1-16 | M16 | 145 | 164 | 200 | 210 | 207 | 260 | 260 | 16 | 30 | 35 | 50 | 22 | 10 | 12.3 | 12.6 | 13.0 | 250 | 10.4 | 172 | 10.8 |
| VS1-17 | M16 | 145 | 164 | 200 | 184 | 181 | 234 | 234 | 16 | 30 | 35 | 50 | 22 | 10 | 11.5 | 11.9 | 12.2 | 224 | 9.6 | 146 | 10.1 |
| VS1-18 | M16 | 145 | 164 | 200 | 197 | 194 | 247 | 247 | 16 | 30 | 35 | 50 | 22 | 10 | 12.2 | 12.5 | 12.9 | 237 | 10.3 | 159 | 10.7 |
| VS1-19 | M20 | 175 | 198 | 250 | 209 | 205 | 269 | 269 | 20 | 35 | 45 | 60 | 26 | 10 | 20.8 | 21.4 | 22.0 | 249 | 16.7 | 163 | 17.3 |
| VS1-20 | M24 | 175 | 198 | 250 | 231 | 226 | 301 | 301 | 24 | 40 | 55 | 70 | 33 | 12 | 23.0 | 24.0 | 25.1 | 271 | 18.3 | 181 | 19.3 |
| VS1-21 | M30 | 175 | 198 | 250 | 259 | 253 | 339 | 339 | 30 | 45 | 55 | 80 | 40 | 15 | 26.4 | 27.8 | 29.4 | 299 | 20.5 | 204 | 22.2 |
| VS1-22 | M30 | 220 | 250 | 330 | 268 | 262 | 348 | 348 | 30 | 45 | 55 | 80 | 40 | 15 | 45.3 | 46.6 | 48.2 | 308 | 35.8 | 208 | 37.5 |
| VS1-23 | M36 | 220 | 250 | 330 | 313 | 306 | 403 | 403 | 36 | 60 | 75 | 90 | 46 | 15 | 57.2 | 59.2 | 61.5 | 353 | 44.6 | 242 | 46.6 |
| VS1-24 | M42 | 220 | 250 | 330 | 360 | 352 | 465 | 465 | 42 | 70 | 85 | 105 | 52 | 20 | 72.1 | 75.6 | 79.8 | 400 | 55.4 | 277 | 58.3 |
| VS1-25 | M48 | 330 | 376 | 500 | 366 | 356 | 486 | 486 | 48 | 75 | 100 | 120 | 60 | 20 | 137 | 142 | 148 | 406 | 112 | 283 | 116 |
| VS1-26 | M56 | 330 | 376 | 500 | 398 | 387 | 538 | 538 | 56 | 80 | 115 | 140 | 68 | 20 | 161 | 167 | 175 | 438 | 132 | 307 | 139 |
| VS1-27 | M64 | 330 | 376 | 520 | 425 | 412 | 580 | 580 | 64 | 90 | 130 | 155 | 76 | 25 | 184 | 194 | 205 | 465 | 148 | 328 | 158 |
| VS1-28 | M72 | 330 | 376 | 530 | 488 | 474 | 643 | 643 | 72 | 90 | 130 | 155 | 76 | 25 | 233 | 241 | 253 | 528 | 185 | 378 | 198 |
| VS1-29 | M80 | 330 | 376 | 540 | 571 | 555 | 746 | 746 | 80 | 100 | 150 | 175 | 85 | 25 | 293 | 304 | 318 | 611 | 228 | 448 | 247 |

*TYPE F*

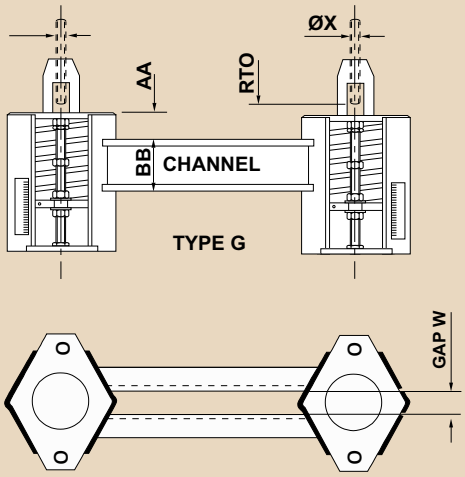



NB. INSTALLED HEIGHT 'J' DIMENSIONS FOR TYPES F2 F3 AND F4 VARY WITH PIPE SIZE. PLEASE CONTACT PIPE HANGERS & SUPPORTS DESIGN DEPARTMENT FOR DETAILS.

NOTE THAT WHERE DIMENSION 'M' EXCEEDS THE BASE PLATE SQUARE DIMENSION 'S', 'M' WILL BE THE MAX. WIDTH OF THE BASE PLATE.

ADDITIONAL PIPE STOOL WILL BE PROVIDED TO MATCH THE ELEVATION, WHEREVER REQUIRED

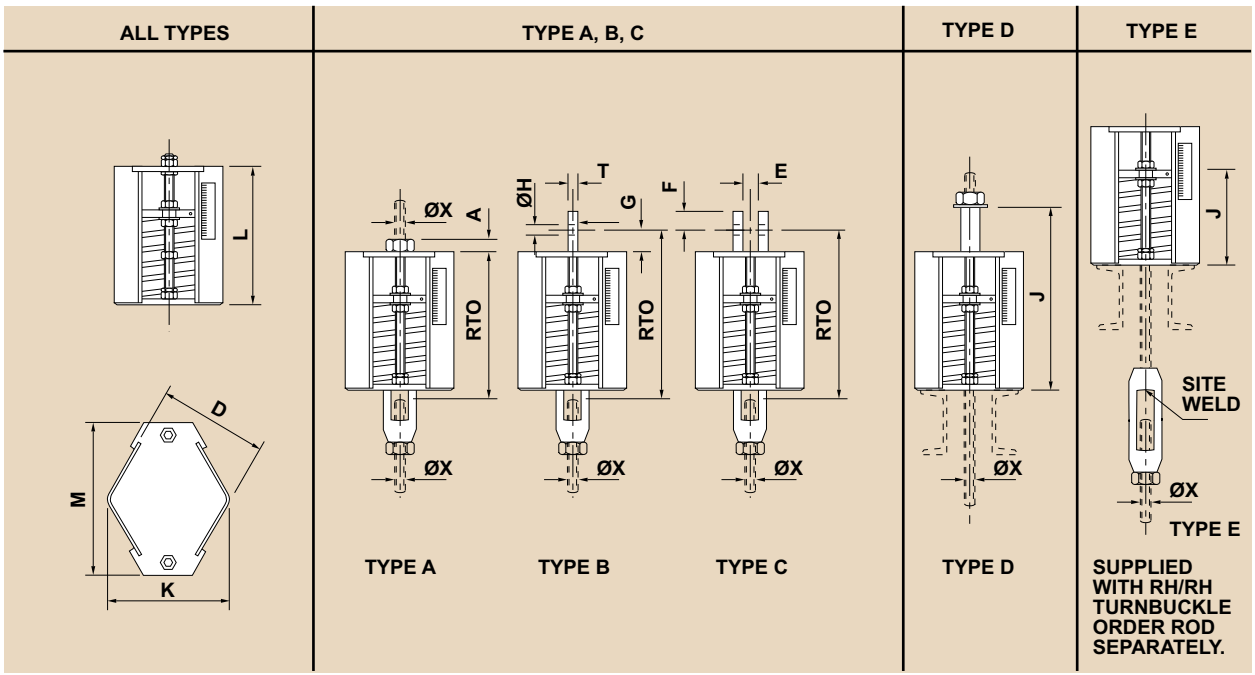
*TYPE G*




SUPPORTING EFFORT = TABULATED VALUE x 2
SPRING RATE = TABULATED VALUE x 2
ADD WEIGHT OF UNIT TO LOAD FROM PIPE.

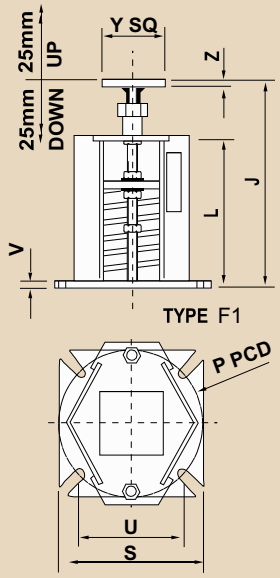
| SUPPORT SIZE | J AT MIN. LOAD TYPE F mm | BODY L'TH L mm | BASE PLATE SQ. S mm | BASE PLATE PCD P mm | BASE BOLT CRS. SQ. U mm | BASE BOLT SIZE | BASE PLATE THK V mm | LOAD PAD SQ. Y mm | LOAD PAD THK Z mm | WEIGHT kgf F | RTO AT MIN LOAD mm | DIM. AA mm | GAP W mm | BEAM DEPTH BB (mm) | | | WEIGHT kgf | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | 800 MAX CENTRES | 1200 MAX CENTRES | 1600 MAX CENTRES | @ 800 CRS | @ 1200 CRS | @ 1600 CRS |
| VS1-1 | 184 | 104 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 3.5 | 63 | 25 | 18 | 50 | 50 | 50 | 14 | 18 | 21 |
| VS1-2 | 188 | 108 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 3.5 | 59 | 25 | 18 | 50 | 50 | 50 | 14 | 18 | 21 |
| VS1-3 | 193 | 113 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 3.5 | 54 | 25 | 18 | 50 | 50 | 50 | 14 | 18 | 21 |
| VS1-4 | 194 | 114 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 3.6 | 53 | 25 | 18 | 50 | 50 | 50 | 15 | 18 | 22 |
| VS1-5 | 193 | 113 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 3.6 | 54 | 25 | 18 | 50 | 50 | 50 | 15 | 18 | 22 |
| VS1-6 | 196 | 116 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 3.6 | 51 | 25 | 18 | 50 | 50 | 50 | 15 | 18 | 22 |
| VS1-7 | 197 | 117 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 3.6 | 50 | 25 | 18 | 50 | 50 | 50 | 15 | 18 | 22 |
| VS1-8 | 203 | 123 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 3.7 | 44 | 25 | 18 | 50 | 50 | 50 | 15 | 18 | 22 |
| VS1-9 | 206 | 126 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 3.8 | 41 | 25 | 18 | 50 | 50 | 50 | 15 | 18 | 22 |
| VS1-10 | 210 | 127 | 185 | 177 | 125 | M20 | 8 | 75 | 6 | 5.4 | 42 | 25 | 22 | 75 | 75 | 75 | 19 | 24 | 30 |
| VS1-11 | 214 | 131 | 185 | 177 | 125 | M20 | 8 | 75 | 6 | 5.5 | 38 | 25 | 22 | 75 | 75 | 75 | 19 | 25 | 30 |
| VS1-12 | 215 | 132 | 185 | 177 | 125 | M20 | 8 | 75 | 6 | 5.6 | 37 | 25 | 22 | 75 | 75 | 75 | 19 | 25 | 31 |
| VS1-13 | 241 | 152 | 200 | 197 | 139 | M20 | 8 | 75 | 10 | 6.8 | 25 | 25 | 26 | 75 | 75 | 75 | 20 | 25 | 31 |
| VS1-14 | 254 | 165 | 200 | 197 | 139 | M20 | 8 | 75 | 10 | 7.2 | 25 | 25 | 26 | 75 | 75 | 75 | 21 | 26 | 32 |
| VS1-15 | 276 | 187 | 200 | 197 | 139 | M20 | 8 | 75 | 10 | 7.6 | 25 | 25 | 26 | 75 | 75 | 75 | 22 | 27 | 33 |
| VS1-16 | 292 | 204 | 270 | 240 | 170 | M20 | 10 | 100 | 12 | 15.1 | 25 | 25 | 33 | 100 | 100 | 125 | 38 | 46 | 64 |
| VS1-17 | 266 | 178 | 270 | 240 | 170 | M20 | 10 | 100 | 12 | 14.7 | 25 | 25 | 33 | 100 | 100 | 125 | 36 | 44 | 63 |
| VS1-18 | 279 | 191 | 270 | 240 | 170 | M20 | 10 | 100 | 12 | 15.2 | 25 | 25 | 33 | 100 | 100 | 125 | 37 | 45 | 64 |
| VS1-19 | 289 | 199 | 270 | 240 | 170 | M20 | 12 | 120 | 12 | 22.5 | 25 | 25 | 40 | 125 | 150 | 150 | 59 | 82 | 97 |
| VS1-20 | 307 | 217 | 270 | 240 | 170 | M20 | 12 | 120 | 12 | 23.6 | 25 | 25 | 40 | 125 | 150 | 150 | 63 | 86 | 102 |
| VS1-21 | 330 | 240 | 270 | 240 | 170 | M20 | 12 | 120 | 12 | 25.4 | 25 | 25 | 40 | 125 | 150 | 150 | 70 | 93 | 109 |
| VS1-22 | 337 | 246 | 270 | 268 | 190 | M20 | 12 | 150 | 15 | 38.6 | 25 | 25 | 52 | 200 | 200 | 250 | 119 | 138 | 158 |
| VS1-23 | 361 | 270 | 270 | 268 | 190 | M20 | 12 | 150 | 15 | 44 | 25 | 25 | 52 | 200 | 200 | 250 | 143 | 162 | 182 |
| VS1-24 | 401 | 308 | 270 | 268 | 190 | M20 | 20 | 150 | 15 | 57 | 25 | 25 | 52 | 200 | 200 | 250 | 172 | 192 | 212 |
| VS1-25 | 422 | 320 | 400 | 400 | 283 | M24 | 20 | 200 | 20 | 117 | 25 | 25 | 60 | 250 | 300 | 390 | 296 | 342 | 411 |
| VS1-26 | 446 | 339 | 400 | 400 | 283 | M24 | 20 | 200 | 20 | 132 | 25 | 25 | 70 | 250 | 300 | 390 | 345 | 391 | 459 |
| VS1-27 | 473 | 363 | 400 | 400 | 283 | M24 | 20 | 200 | 20 | 150 | 25 | 25 | 80 | 250 | 300 | 390 | 391 | 437 | 506 |
| VS1-28 | 536 | 416 | 400 | 400 | 283 | M24 | 25 | 200 | 25 | 189 | 25 | 25 | 80 | 390 | 390 | 430 | 517 | 560 | 629 |
| VS1-29 | 626 | 495 | 400 | 400 | 283 | M24 | 30 | 200 | 30 | 237 | 25 | 25 | 90 | 390 | 390 | 430 | 637 | 681 | 750 |

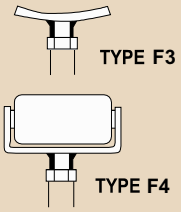
# RANGE VS2




| SUPPORT SIZE | ROD DIA | BODY DIMENSIONS | | | | RTO AT MIN LOAD (mm) | | | DEPTH OF THR'D | LUG DIMENSIONS TYPES B & C | | | | | WEIGHTS kgf | | | J AT MIN LOAD | WEIGHT | J AT MIN LOAD | WEIGHT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | D | K | M | L mm (not F) | A | B | C | A | E | F | G | H | T | A | B | C | mm | kgf | mm | kgf |
| | mm | mm | mm | mm | | | | | mm | mm | mm | mm | mm | mm | | | | | | | |
| VS2-1 | M12 | 108 | 122 | 155 | 169 | 167 | 199 | 199 | 12 | 20 | 20 | 30 | 14 | 6 | 4.4 | 4.5 | 4.6 | 249 | 3.6 | 133 | 3.8 |
| VS2-2 | M12 | 108 | 122 | 155 | 176 | 174 | 206 | 206 | 12 | 20 | 20 | 30 | 14 | 6 | 4.5 | 4.6 | 4.7 | 256 | 3.7 | 140 | 3.9 |
| VS2-3 | M12 | 108 | 122 | 155 | 185 | 183 | 215 | 215 | 12 | 20 | 20 | 30 | 14 | 6 | 4.7 | 4.8 | 4.9 | 265 | 3.8 | 148 | 4.1 |
| VS2-4 | M12 | 108 | 122 | 155 | 191 | 189 | 221 | 221 | 12 | 20 | 20 | 30 | 14 | 6 | 4.8 | 4.9 | 5.0 | 271 | 3.9 | 155 | 4.2 |
| VS2-5 | M12 | 108 | 122 | 155 | 187 | 185 | 217 | 217 | 12 | 20 | 20 | 30 | 14 | 6 | 4.7 | 4.8 | 4.9 | 267 | 3.9 | 151 | 4.1 |
| VS2-6 | M12 | 108 | 122 | 155 | 197 | 195 | 227 | 227 | 12 | 20 | 20 | 30 | 14 | 6 | 4.8 | 4.9 | 5.0 | 277 | 4.0 | 161 | 4.2 |
| VS2-7 | M12 | 108 | 122 | 155 | 190 | 188 | 220 | 220 | 12 | 20 | 20 | 30 | 14 | 6 | 4.8 | 4.9 | 5.0 | 270 | 4.0 | 154 | 4.2 |
| VS2-8 | M12 | 108 | 122 | 155 | 206 | 204 | 236 | 236 | 12 | 20 | 20 | 30 | 14 | 6 | 5.1 | 5.1 | 5.3 | 286 | 4.2 | 170 | 4.4 |
| VS2-9 | M12 | 108 | 122 | 155 | 208 | 206 | 238 | 238 | 12 | 20 | 20 | 30 | 14 | 6 | 5.0 | 5.1 | 5.2 | 288 | 4.2 | 171 | 4.4 |
| VS2-10 | M12 | 145 | 164 | 200 | 206 | 204 | 236 | 236 | 12 | 20 | 20 | 30 | 14 | 6 | 9.5 | 9.6 | 9.7 | 286 | 8.4 | 167 | 8.6 |
| VS2-11 | M12 | 145 | 164 | 200 | 209 | 207 | 239 | 239 | 12 | 20 | 20 | 30 | 14 | 6 | 9.7 | 9.8 | 9.9 | 289 | 8.6 | 171 | 8.8 |
| VS2-12 | M12 | 145 | 164 | 200 | 213 | 211 | 243 | 243 | 12 | 20 | 20 | 30 | 14 | 6 | 9.9 | 10.0 | 10.1 | 293 | 8.8 | 175 | 9.0 |
| VS2-13 | M12 | 145 | 164 | 200 | 222 | 220 | 258 | 258 | 12 | 25 | 30 | 36 | 18 | 6 | 10.2 | 10.3 | 10.5 | 302 | 9.1 | 183 | 9.3 |
| VS2-14 | M12 | 145 | 164 | 200 | 235 | 233 | 271 | 271 | 12 | 25 | 30 | 36 | 18 | 6 | 10.9 | 11.0 | 11.1 | 315 | 9.7 | 197 | 9.9 |
| VS2-15 | M12 | 145 | 164 | 200 | 261 | 259 | 297 | 297 | 12 | 25 | 30 | 36 | 18 | 6 | 12.2 | 12.4 | 12.5 | 341 | 11.1 | 223 | 11.3 |
| VS2-16 | M16 | 175 | 198 | 250 | 244 | 241 | 294 | 294 | 16 | 30 | 35 | 50 | 22 | 10 | 17.7 | 18.0 | 18.4 | 324 | 15.2 | 199 | 15.5 |
| VS2-17 | M16 | 175 | 198 | 250 | 264 | 261 | 314 | 314 | 16 | 30 | 35 | 50 | 22 | 10 | 18.8 | 19.2 | 19.6 | 344 | 16.3 | 219 | 16.7 |
| VS2-18 | M16 | 175 | 198 | 250 | 284 | 281 | 334 | 334 | 16 | 30 | 35 | 50 | 22 | 10 | 20.4 | 20.8 | 21.1 | 364 | 17.9 | 239 | 18.2 |
| VS2-19 | M20 | 220 | 250 | 320 | 285 | 281 | 345 | 345 | 20 | 35 | 45 | 60 | 26 | 10 | 34.0 | 34.6 | 35.2 | 365 | 28.5 | 232 | 29.0 |
| VS2-20 | M24 | 220 | 250 | 320 | 311 | 306 | 381 | 381 | 24 | 40 | 55 | 70 | 33 | 12 | 37.7 | 38.7 | 39.8 | 391 | 31.7 | 254 | 32.4 |
| VS2-21 | M30 | 220 | 250 | 320 | 348 | 342 | 428 | 428 | 30 | 45 | 55 | 80 | 40 | 15 | 45.5 | 46.9 | 48.5 | 428 | 36.1 | 281 | 37.5 |
| VS2-22 | M30 | 220 | 250 | 330 | 389 | 383 | 469 | 469 | 30 | 45 | 55 | 80 | 40 | 15 | 55.2 | 56.5 | 58.2 | 469 | 45.4 | 322 | 46.9 |
| VS2-23 | M36 | 220 | 250 | 330 | 454 | 447 | 544 | 544 | 36 | 60 | 75 | 90 | 46 | 15 | 71.2 | 73.1 | 75.5 | 534 | 58.3 | 376 | 59.6 |
| VS2-24 | M42 | 220 | 250 | 330 | 526 | 518 | 631 | 631 | 42 | 70 | 85 | 105 | 52 | 20 | 89.9 | 93.4 | 97.6 | 606 | 72.4 | 436 | 74.6 |
| VS2-25 | M48 | 330 | 376 | 500 | 467 | 457 | 587 | 587 | 48 | 75 | 100 | 120 | 60 | 20 | 165 | 170 | 176 | 547 | 139 | 377 | 143 |
| VS2-26 | M56 | 330 | 376 | 500 | 541 | 530 | 681 | 681 | 56 | 80 | 115 | 140 | 68 | 20 | 193 | 199 | 206 | 621 | 162 | 443 | 168 |
| VS2-27 | M64 | 330 | 376 | 520 | 611 | 598 | 766 | 766 | 64 | 90 | 130 | 155 | 76 | 25 | 234 | 243 | 255 | 691 | 195 | 507 | 204 |
| VS2-28 | M72 | 330 | 376 | 530 | 728 | 714 | 883 | 883 | 72 | 90 | 130 | 155 | 76 | 25 | 303 | 312 | 323 | 808 | 250 | 611 | 262 |
| VS2-29 | M80 | 330 | 376 | 540 | 845 | 829 | 1020 | 1020 | 80 | 100 | 150 | 175 | 85 | 25 | 382 | 393 | 407 | 925 | 309 | 715 | 328 |

*TYPE F*





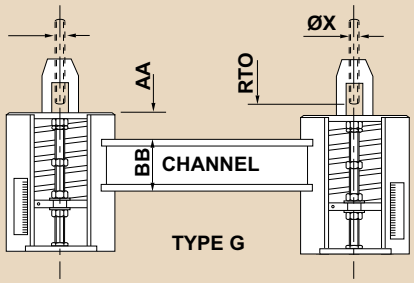


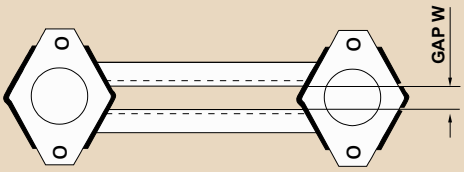
NB. INSTALLED HEIGHT 'J' DIMENSIONS FOR TYPES F2 F3 AND F4 VARY WITH PIPE SIZE. PLEASE CONTACT PIPE HANGERS & SUPPORTS DESIGN DEPARTMENT FOR DETAILS.

NOTE THAT WHERE DIMENSION 'M' EXCEEDS THE BASE PLATE SQUARE DIMENSION 'S', 'M' WILL BE THE MAX. WIDTH OF THE BASE PLATE.

ADDITIONAL PIPE STOOL WILL BE PROVIDED TO MATCH THE ELEVATION, WHEREVER REQUIRED

*TYPE G*

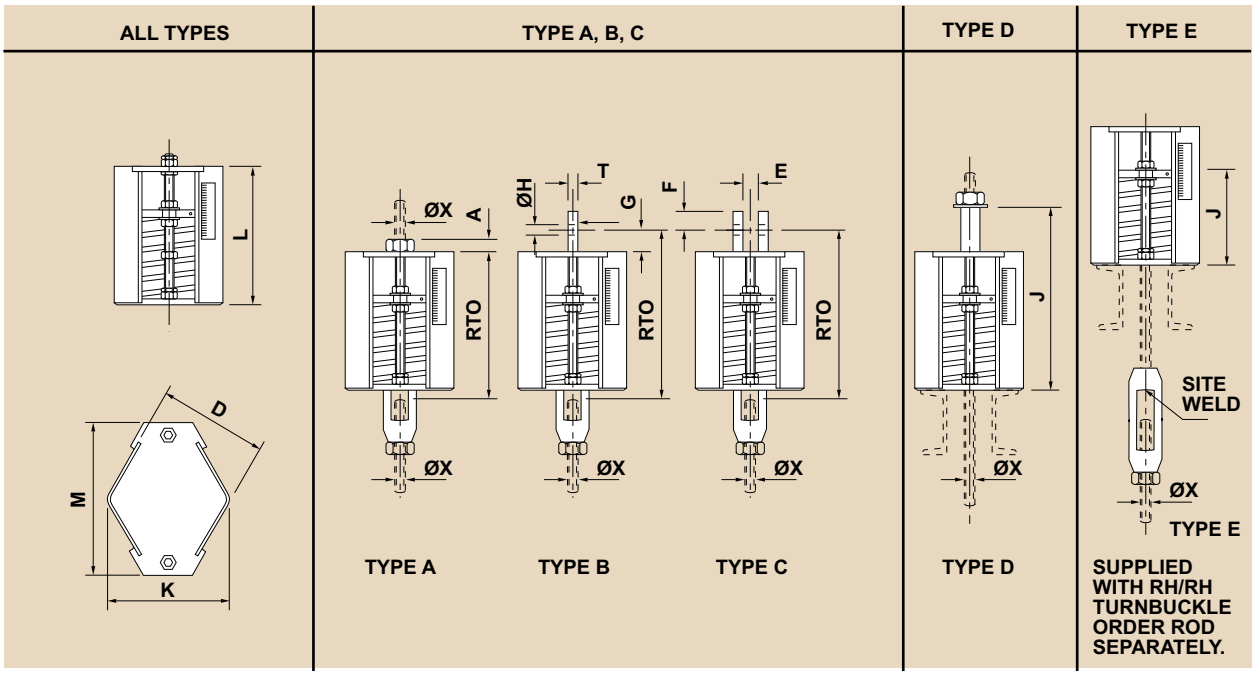



SUPPORTING EFFORT = TABULATED VALUE x 2
SPRING RATE = TABULATED VALUE x 2
ADD WEIGHT OF UNIT TO LOAD FROM PIPE.

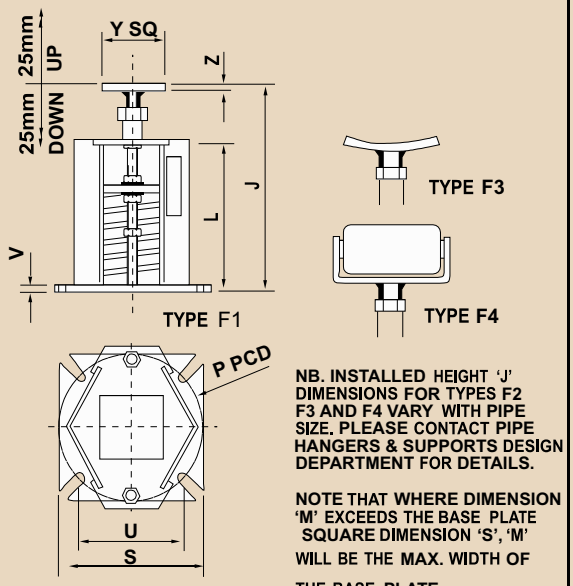
| SUPPORT SIZE | J AT MIN. LOAD TYPE F mm | BODY L'TH L mm | BASE PLATE SQ. S mm | BASE PLATE PCD P mm | BASE BOLT CRS. SQ. U mm | BASE BOLT SIZE | BASE PLATE THK V mm | LOAD PAD SQ. Y mm | LOAD PAD THK Z mm | WEIGHT kgf F | RTO AT MIN LOAD mm | DIM. AA mm | GAP W mm | BEAM DEPTH BB (mm) | | | WEIGHT kgf | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | 800 MAX CENTRES | 1200 MAX CENTRES | 1600 MAX CENTRES | @ 800 CRS | @ 1200 CRS | @ 1600 CRS |
| VS2-1 | 280 | 159 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 3.7 | 25 | 25 | 18 | 50 | 50 | 50 | 15 | 18 | 22 |
| VS2-2 | 287 | 166 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 3.7 | 25 | 25 | 18 | 50 | 50 | 50 | 15 | 19 | 22 |
| VS2-3 | 295 | 174 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 3.8 | 25 | 25 | 18 | 50 | 50 | 50 | 16 | 19 | 23 |
| VS2-4 | 302 | 181 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 3.9 | 25 | 25 | 18 | 50 | 50 | 50 | 16 | 19 | 23 |
| VS2-5 | 298 | 177 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 3.8 | 25 | 25 | 18 | 50 | 50 | 50 | 16 | 19 | 23 |
| VS2-6 | 308 | 187 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 3.9 | 25 | 25 | 18 | 50 | 50 | 50 | 16 | 19 | 23 |
| VS2-7 | 301 | 180 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 3.9 | 25 | 25 | 18 | 50 | 50 | 50 | 16 | 19 | 23 |
| VS2-8 | 317 | 196 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 4.1 | 25 | 25 | 18 | 50 | 50 | 50 | 16 | 20 | 23 |
| VS2-9 | 318 | 197 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 4.0 | 25 | 25 | 18 | 50 | 50 | 50 | 16 | 20 | 23 |
| VS2-10 | 325 | 205 | 200 | 197 | 139 | M20 | 10 | 75 | 6 | 9.6 | 25 | 25 | 22 | 75 | 75 | 75 | 28 | 34 | 40 |
| VS2-11 | 329 | 209 | 200 | 197 | 139 | M20 | 10 | 75 | 6 | 9.7 | 25 | 25 | 22 | 75 | 75 | 75 | 29 | 34 | 40 |
| VS2-12 | 333 | 213 | 200 | 197 | 139 | M20 | 10 | 75 | 6 | 9.9 | 25 | 25 | 22 | 75 | 75 | 75 | 29 | 35 | 40 |
| VS2-13 | 347 | 221 | 200 | 197 | 139 | M20 | 10 | 75 | 10 | 10.8 | 25 | 25 | 26 | 75 | 75 | 75 | 30 | 35 | 41 |
| VS2-14 | 361 | 235 | 200 | 197 | 139 | M20 | 10 | 75 | 10 | 11.3 | 25 | 25 | 26 | 75 | 75 | 75 | 31 | 37 | 42 |
| VS2-15 | 387 | 261 | 200 | 197 | 139 | M20 | 10 | 75 | 10 | 12.4 | 25 | 25 | 26 | 75 | 75 | 75 | 34 | 39 | 45 |
| VS2-16 | 368 | 239 | 270 | 240 | 170 | M20 | 12 | 100 | 12 | 20.0 | 25 | 25 | 33 | 100 | 100 | 125 | 48 | 56 | 74 |
| VS2-17 | 388 | 259 | 270 | 240 | 170 | M20 | 12 | 100 | 12 | 20.9 | 25 | 25 | 33 | 100 | 100 | 125 | 50 | 58 | 76 |
| VS2-18 | 408 | 279 | 270 | 240 | 170 | M20 | 12 | 100 | 12 | 22.2 | 25 | 25 | 33 | 100 | 100 | 125 | 53 | 61 | 80 |
| VS2-19 | 405 | 276 | 270 | 268 | 190 | M20 | 12 | 120 | 12 | 31.7 | 25 | 25 | 40 | 125 | 150 | 150 | 84 | 106 | 122 |
| VS2-20 | 427 | 298 | 270 | 268 | 190 | M20 | 12 | 120 | 12 | 34.2 | 25 | 25 | 40 | 125 | 150 | 150 | 91 | 113 | 129 |
| VS2-21 | 454 | 325 | 270 | 268 | 190 | M20 | 12 | 120 | 12 | 37.8 | 25 | 25 | 40 | 125 | 150 | 150 | 107 | 129 | 145 |
| VS2-22 | 498 | 366 | 270 | 268 | 190 | M20 | 12 | 150 | 15 | 46.8 | 25 | 25 | 52 | 200 | 200 | 250 | 139 | 158 | 178 |
| VS2-23 | 542 | 410 | 270 | 268 | 190 | M20 | 12 | 150 | 15 | 55.5 | 25 | 25 | 52 | 200 | 200 | 250 | 171 | 190 | 210 |
| VS2-24 | 607 | 473 | 270 | 268 | 190 | M20 | 20 | 150 | 15 | 71.4 | 25 | 25 | 52 | 200 | 200 | 250 | 208 | 228 | 247 |
| VS2-25 | 563 | 420 | 400 | 400 | 283 | M24 | 20 | 200 | 20 | 141 | 25 | 25 | 60 | 250 | 300 | 390 | 352 | 398 | 467 |
| VS2-26 | 629 | 481 | 400 | 400 | 283 | M24 | 20 | 200 | 20 | 158 | 25 | 25 | 70 | 250 | 300 | 390 | 409 | 455 | 523 |
| VS2-27 | 699 | 548 | 400 | 400 | 283 | M24 | 20 | 200 | 20 | 192 | 25 | 25 | 80 | 250 | 300 | 390 | 491 | 537 | 606 |
| VS2-28 | 816 | 655 | 400 | 400 | 283 | M24 | 25 | 200 | 25 | 248 | 25 | 25 | 80 | 390 | 390 | 430 | 657 | 700 | 769 |
| VS2-29 | 940 | 768 | 400 | 400 | 283 | M24 | 30 | 200 | 30 | 312 | 25 | 25 | 90 | 390 | 390 | 430 | 815 | 859 | 928 |

# RANGE VS3




| SUPPORT SIZE | ROD DIA | BODY DIMENSIONS | | | | RTO AT MIN LOAD (mm) | | | DEPTH OF THR'D | LUG DIMENSIONS TYPES B & C | | | | | WEIGHTS kgf | | | J AT MIN LOAD | WEIGHT | J AT MIN LOAD | WEIGHT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X mm | D mm | K mm | M mm | L mm (not F) | A | B | C | A mm | E mm | F mm | G mm | H mm | T mm | A | B | C | mm | kgf | mm | kgf |
| VS3-1 | M12 | 108 | 122 | 155 | 294 | 292 | 324 | 324 | 12 | 20 | 20 | 30 | 14 | 6 | 5.4 | 5.5 | 5.6 | 454 | 4.7 | 243 | 4.8 |
| VS3-2 | M12 | 108 | 122 | 155 | 315 | 313 | 345 | 345 | 12 | 20 | 20 | 30 | 14 | 6 | 5.8 | 5.8 | 6.0 | 475 | 5.0 | 264 | 5.1 |
| VS3-3 | M12 | 108 | 122 | 155 | 329 | 327 | 359 | 359 | 12 | 20 | 20 | 30 | 14 | 6 | 5.9 | 6.0 | 6.1 | 489 | 5.1 | 278 | 5.2 |
| VS3-4 | M12 | 108 | 122 | 155 | 330 | 328 | 360 | 360 | 12 | 20 | 20 | 30 | 14 | 6 | 6.0 | 6.1 | 6.2 | 490 | 5.2 | 279 | 5.3 |
| VS3-5 | M12 | 108 | 122 | 155 | 323 | 321 | 353 | 353 | 12 | 20 | 20 | 30 | 14 | 6 | 6.0 | 6.1 | 6.2 | 483 | 5.2 | 272 | 5.3 |
| VS3-6 | M12 | 108 | 122 | 155 | 328 | 326 | 358 | 358 | 12 | 20 | 20 | 30 | 14 | 6 | 6.0 | 6.1 | 6.2 | 488 | 5.2 | 277 | 5.3 |
| VS3-7 | M12 | 108 | 122 | 155 | 336 | 334 | 366 | 366 | 12 | 20 | 20 | 30 | 14 | 6 | 6.2 | 6.3 | 6.4 | 496 | 5.4 | 286 | 5.5 |
| VS3-8 | M12 | 108 | 122 | 155 | 356 | 354 | 386 | 386 | 12 | 20 | 20 | 30 | 14 | 6 | 6.6 | 6.7 | 6.8 | 516 | 5.7 | 306 | 5.9 |
| VS3-9 | M12 | 108 | 122 | 155 | 370 | 368 | 400 | 400 | 12 | 20 | 20 | 30 | 14 | 6 | 7.0 | 7.1 | 7.2 | 530 | 6.1 | 319 | 6.2 |
| VS3-10 | M12 | 145 | 164 | 200 | 351 | 349 | 381 | 381 | 12 | 20 | 20 | 30 | 14 | 6 | 12.0 | 12.0 | 12.2 | 511 | 10.9 | 299 | 11.0 |
| VS3-11 | M12 | 145 | 164 | 200 | 357 | 355 | 387 | 387 | 12 | 20 | 20 | 30 | 14 | 6 | 12.3 | 12.4 | 12.5 | 517 | 11.2 | 305 | 11.4 |
| VS3-12 | M12 | 145 | 164 | 200 | 364 | 362 | 394 | 394 | 12 | 20 | 20 | 30 | 14 | 6 | 12.7 | 12.8 | 12.9 | 524 | 11.6 | 312 | 11.7 |
| VS3-13 | M12 | 145 | 164 | 200 | 380 | 378 | 416 | 416 | 12 | 25 | 30 | 36 | 18 | 6 | 13.2 | 13.3 | 13.5 | 540 | 12.1 | 328 | 12.2 |
| VS3-14 | M12 | 145 | 164 | 200 | 406 | 404 | 442 | 442 | 12 | 25 | 30 | 36 | 18 | 6 | 14.4 | 14.5 | 14.7 | 566 | 13.3 | 353 | 13.4 |
| VS3-15 | M12 | 145 | 164 | 200 | 455 | 453 | 491 | 491 | 12 | 25 | 30 | 36 | 18 | 6 | 16.9 | 17.1 | 17.2 | 615 | 15.8 | 403 | 15.9 |
| VS3-16 | M16 | 220 | 250 | 320 | 374 | 371 | 424 | 424 | 16 | 30 | 35 | 50 | 22 | 10 | 30.0 | 30.3 | 30.7 | 534 | 27.0 | 315 | 27.2 |
| VS3-17 | M16 | 220 | 250 | 320 | 409 | 406 | 459 | 459 | 16 | 30 | 35 | 50 | 22 | 10 | 33.6 | 33.9 | 34.3 | 569 | 30.5 | 350 | 30.7 |
| VS3-18 | M16 | 220 | 250 | 320 | 430 | 427 | 480 | 480 | 16 | 30 | 35 | 50 | 22 | 10 | 36.0 | 36.4 | 36.7 | 590 | 32.9 | 371 | 33.1 |
| VS3-19 | M20 | 220 | 250 | 320 | 473 | 469 | 533 | 533 | 20 | 35 | 45 | 60 | 26 | 10 | 43.8 | 44.4 | 45.0 | 633 | 38.2 | 406 | 38.4 |
| VS3-20 | M24 | 220 | 250 | 320 | 519 | 514 | 589 | 589 | 24 | 40 | 55 | 70 | 33 | 12 | 50.0 | 51.0 | 52.1 | 679 | 43.8 | 448 | 44.2 |
| VS3-21 | M30 | 220 | 250 | 320 | 578 | 572 | 658 | 658 | 30 | 45 | 55 | 80 | 40 | 15 | 61.6 | 63.0 | 64.6 | 738 | 51.6 | 497 | 52.6 |
| VS3-22 | M30 | 220 | 250 | 330 | 649 | 643 | 729 | 729 | 30 | 45 | 55 | 80 | 40 | 15 | 76.1 | 77.5 | 79.1 | 809 | 65.7 | 568 | 66.7 |
| VS3-23 | M36 | 220 | 250 | 330 | 759 | 752 | 849 | 849 | 36 | 60 | 75 | 90 | 46 | 15 | 101 | 103 | 105 | 919 | 87.0 | 667 | 87.2 |
| VS3-24 | M42 | 220 | 250 | 330 | 929 | 921 | 1034 | 1034 | 42 | 70 | 85 | 105 | 52 | 20 | 136 | 140 | 144 | 1089 | 117 | 825 | 117 |
| VS3-25 | M48 | 330 | 376 | 500 | 806 | 796 | 926 | 926 | 48 | 75 | 100 | 120 | 60 | 20 | 235 | 240 | 246 | 966 | 207 | 702 | 209 |
| VS3-26 | M56 | 330 | 376 | 500 | 942 | 931 | 1082 | 1082 | 56 | 80 | 115 | 140 | 68 | 20 | 283 | 289 | 297 | 1102 | 248 | 830 | 251 |
| VS3-27 | M64 | 330 | 376 | 520 | 1074 | 1061 | 1229 | 1229 | 64 | 90 | 130 | 155 | 76 | 25 | 358 | 367 | 379 | 1234 | 311 | 956 | 318 |
| VS3-28 | M72 | 330 | 376 | 530 | 1285 | 1271 | 1440 | 1440 | 72 | 90 | 130 | 155 | 76 | 25 | 474 | 483 | 494 | 1445 | 408 | 1154 | 417 |
| VS3-29 | M80 | 330 | 376 | 540 | 1503 | 1487 | 1678 | 1678 | 80 | 100 | 150 | 175 | 85 | 25 | 609 | 620 | 635 | 1663 | 517 | 1359 | 532 |

*TYPE F*

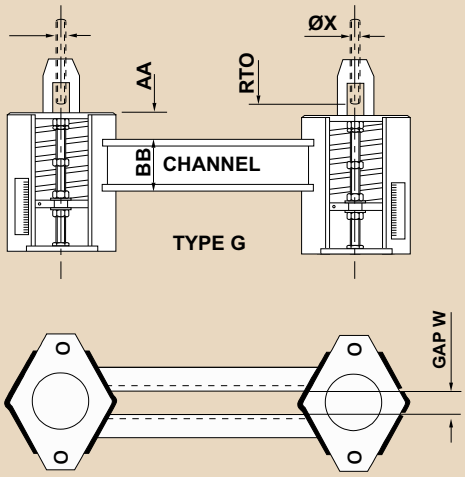



NB. INSTALLED HEIGHT 'J' DIMENSIONS FOR TYPES F2 F3 AND F4 VARY WITH PIPE SIZE. PLEASE CONTACT PIPE HANGERS & SUPPORTS DESIGN DEPARTMENT FOR DETAILS.

NOTE THAT WHERE DIMENSION 'M' EXCEEDS THE BASE PLATE SQUARE DIMENSION 'S', 'M' WILL BE THE MAX. WIDTH OF THE BASE PLATE.

ADDITIONAL PIPE STOOL WILL BE PROVIDED TO MATCH THE ELEVATION, WHEREVER REQUIRED

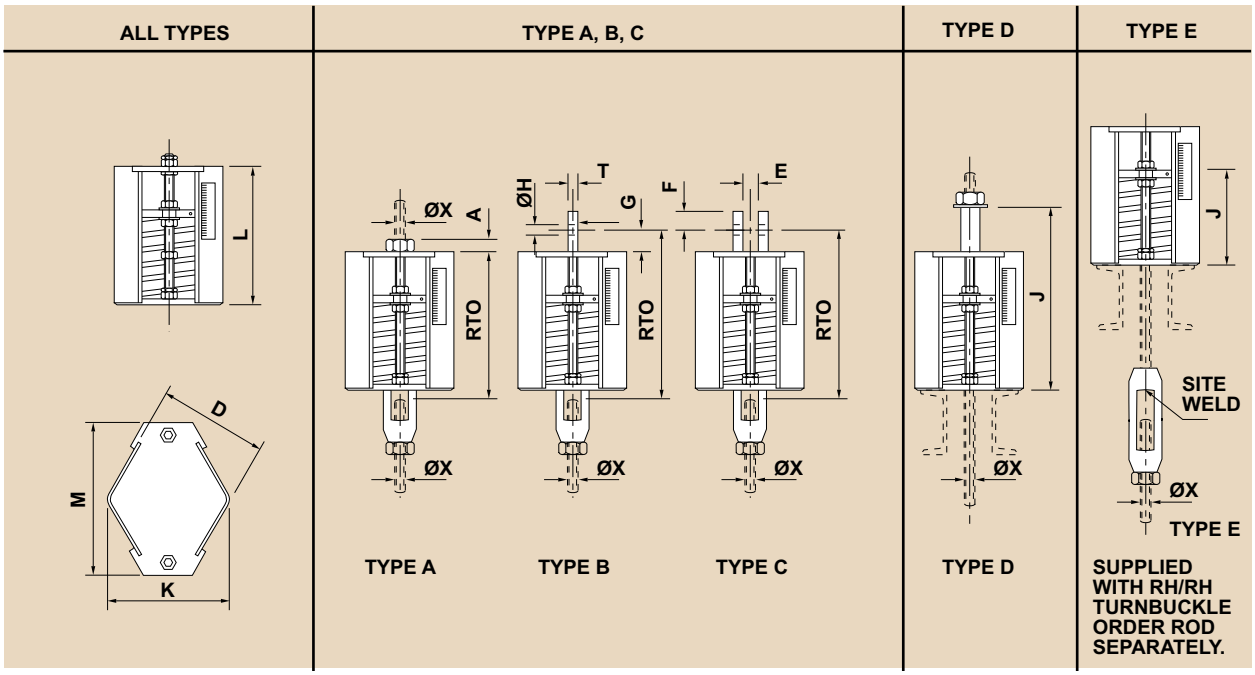
*TYPE G*




SUPPORTING EFFORT = TABULATED VALUE x 2
SPRING RATE = TABULATED VALUE x 2
ADD WEIGHT OF UNIT TO LOAD FROM PIPE.

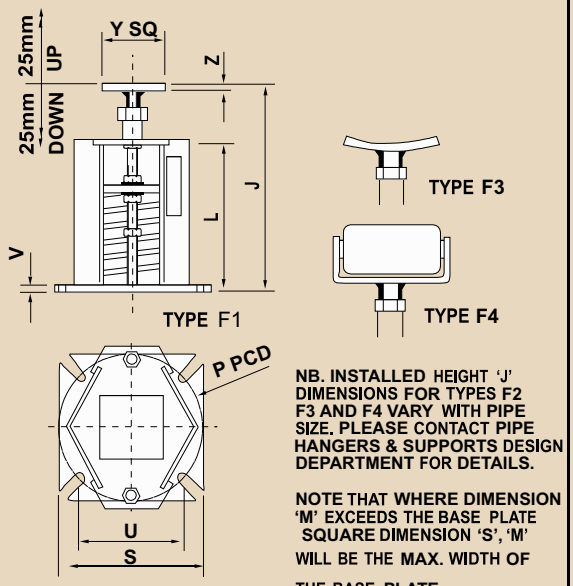
| SUPPORT SIZE | J AT MIN. LOAD TYPE F mm | BODY L'TH L mm | BASE PLATE SQ. S mm | BASE PLATE PCD P mm | BASE BOLT CRS. SQ. U mm | BASE BOLT SIZE | BASE PLATE THK V mm | LOAD PAD SQ. Y mm | LOAD PAD THK Z mm | WEIGHT kgf | RTO AT MIN LOAD mm | DIM. AA mm | GAP W mm | BEAM DEPTH BB (mm) | | | WEIGHT kgf | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | 800 MAX CENTRES | 1200 MAX CENTRES | 1600 MAX CENTRES | @ 800 CRS | @ 1200 CRS | @ 1600 CRS |
| VS3-1 | 484 | 281 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 4.1 | 25 | 25 | 18 | 50 | 50 | 50 | 17 | 20 | 24 |
| VS3-2 | 505 | 302 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 4.3 | 25 | 25 | 18 | 50 | 50 | 50 | 18 | 21 | 25 |
| VS3-3 | 519 | 316 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 4.4 | 25 | 25 | 18 | 50 | 50 | 50 | 18 | 21 | 25 |
| VS3-4 | 520 | 317 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 4.4 | 25 | 25 | 18 | 50 | 50 | 50 | 18 | 22 | 25 |
| VS3-5 | 513 | 310 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 4.5 | 25 | 25 | 18 | 50 | 50 | 50 | 18 | 22 | 25 |
| VS3-6 | 518 | 315 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 4.5 | 25 | 25 | 18 | 50 | 50 | 50 | 18 | 22 | 25 |
| VS3-7 | 527 | 324 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 4.7 | 25 | 25 | 18 | 50 | 50 | 50 | 19 | 22 | 26 |
| VS3-8 | 547 | 344 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 4.9 | 25 | 25 | 18 | 50 | 50 | 50 | 19 | 23 | 26 |
| VS3-9 | 560 | 357 | 150 | 160 | 113 | M16 | 6 | 75 | 6 | 5.2 | 25 | 25 | 18 | 50 | 50 | 50 | 20 | 24 | 27 |
| VS3-10 | 551 | 349 | 200 | 197 | 139 | M20 | 10 | 75 | 6 | 10.9 | 25 | 25 | 22 | 75 | 75 | 75 | 33 | 39 | 45 |
| VS3-11 | 557 | 355 | 200 | 197 | 139 | M20 | 10 | 75 | 6 | 11.2 | 25 | 25 | 22 | 75 | 75 | 75 | 34 | 39 | 45 |
| VS3-12 | 564 | 362 | 200 | 197 | 139 | M20 | 10 | 75 | 6 | 11.5 | 25 | 25 | 22 | 75 | 75 | 75 | 35 | 40 | 46 |
| VS3-13 | 586 | 378 | 200 | 197 | 139 | M20 | 10 | 75 | 10 | 12.6 | 25 | 25 | 26 | 75 | 75 | 75 | 36 | 41 | 47 |
| VS3-14 | 611 | 403 | 200 | 197 | 139 | M20 | 10 | 75 | 10 | 13.6 | 25 | 25 | 26 | 75 | 75 | 75 | 38 | 44 | 49 |
| VS3-15 | 661 | 453 | 200 | 197 | 139 | M20 | 10 | 75 | 10 | 15.6 | 25 | 25 | 26 | 75 | 75 | 75 | 43 | 49 | 54 |
| VS3-16 | 580 | 371 | 270 | 268 | 190 | M20 | 12 | 100 | 12 | 28.4 | 25 | 25 | 33 | 100 | 100 | 125 | 71 | 79 | 97 |
| VS3-17 | 615 | 406 | 270 | 268 | 190 | M20 | 12 | 100 | 12 | 31.4 | 25 | 25 | 33 | 100 | 100 | 125 | 79 | 87 | 105 |
| VS3-18 | 636 | 427 | 270 | 268 | 190 | M20 | 12 | 100 | 12 | 33.5 | 25 | 25 | 33 | 100 | 100 | 125 | 83 | 91 | 109 |
| VS3-19 | 673 | 462 | 270 | 268 | 190 | M20 | 12 | 120 | 12 | 39.5 | 25 | 25 | 40 | 125 | 150 | 150 | 103 | 126 | 141 |
| VS3-20 | 715 | 504 | 270 | 268 | 190 | M20 | 12 | 120 | 12 | 43.9 | 25 | 25 | 40 | 125 | 150 | 150 | 116 | 138 | 154 |
| VS3-21 | 764 | 553 | 270 | 268 | 190 | M20 | 12 | 120 | 12 | 50.6 | 25 | 25 | 40 | 125 | 150 | 150 | 139 | 161 | 177 |
| VS3-22 | 838 | 624 | 270 | 268 | 190 | M20 | 12 | 150 | 15 | 63.7 | 25 | 25 | 52 | 200 | 200 | 250 | 180 | 200 | 220 |
| VS3-23 | 927 | 713 | 270 | 268 | 190 | M20 | 12 | 150 | 15 | 79.5 | 25 | 25 | 52 | 200 | 200 | 250 | 230 | 250 | 269 |
| VS3-24 | 1090 | 874 | 270 | 268 | 190 | M20 | 20 | 150 | 15 | 109 | 25 | 25 | 52 | 200 | 200 | 250 | 300 | 320 | 339 |
| VS3-25 | 982 | 757 | 400 | 400 | 283 | M24 | 20 | 200 | 20 | 200 | 25 | 25 | 60 | 250 | 300 | 390 | 492 | 538 | 607 |
| VS3-26 | 1109 | 880 | 400 | 400 | 283 | M24 | 20 | 200 | 20 | 232 | 25 | 25 | 70 | 250 | 300 | 390 | 589 | 635 | 703 |
| VS3-27 | 1242 | 1009 | 400 | 400 | 283 | M24 | 20 | 200 | 20 | 295 | 25 | 25 | 80 | 250 | 300 | 390 | 739 | 785 | 854 |
| VS3-28 | 1453 | 1210 | 400 | 400 | 283 | M24 | 25 | 200 | 25 | 390 | 25 | 25 | 80 | 390 | 390 | 430 | 999 | 1042 | 1111 |
| VS3-29 | 1678 | 1424 | 400 | 400 | 283 | M24 | 30 | 200 | 30 | 501 | 25 | 25 | 90 | 390 | 390 | 430 | 1269 | 1313 | 1382 |

# RANGE VS4




| SUPPORT SIZE | ROD DIA | BODY DIMENSIONS | | | | RTO AT MIN LOAD (mm) | | | DEPTH OF THR'D | LUG DIMENSIONS TYPES B & C | | | | | WEIGHTS kgf | | | J AT MIN LOAD | WEIGHT | J AT MIN LOAD | WEIGHT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X mm | D mm | K mm | M mm | L mm (not F) | A | B | C | A mm | E mm | F mm | G mm | H mm | T mm | A | B | C | mm | kgf | mm | kgf |
| VS4-1 | M12 | 149.2 | 156.2 | 155 | 429 | 427 | 459 | 459 | 12 | 20 | 20 | 30 | 14 | 6 | 7.6 | 7.7 | 7.8 | 669 | 6.6 | 378 | 6.7 |
| VS4-2 | M12 | 149.2 | 156.2 | 155 | 457 | 455 | 487 | 487 | 12 | 20 | 20 | 30 | 14 | 6 | 8.1 | 8.1 | 8.4 | 697 | 7.0 | 406 | 7.1 |
| VS4-3 | M12 | 149.2 | 156.2 | 155 | 480 | 478 | 510 | 510 | 12 | 20 | 20 | 30 | 14 | 6 | 8.3 | 8.4 | 8.5 | 720 | 7.1 | 429 | 7.3 |
| VS4-4 | M12 | 149.2 | 156.2 | 155 | 487 | 485 | 517 | 517 | 12 | 20 | 20 | 30 | 14 | 6 | 8.4 | 8.5 | 8.7 | 727 | 7.3 | 436 | 7.4 |
| VS4-5 | M12 | 149.2 | 156.2 | 155 | 476 | 474 | 506 | 506 | 12 | 20 | 20 | 30 | 14 | 6 | 8.4 | 8.5 | 8.7 | 716 | 7.3 | 425 | 7.4 |
| VS4-6 | M12 | 149.2 | 156.2 | 155 | 486 | 484 | 516 | 516 | 12 | 20 | 20 | 30 | 14 | 6 | 8.4 | 8.5 | 8.7 | 726 | 7.3 | 435 | 7.4 |
| VS4-7 | M12 | 149.2 | 156.2 | 155 | 492 | 490 | 522 | 522 | 12 | 20 | 20 | 30 | 14 | 6 | 8.7 | 8.8 | 9.0 | 732 | 7.6 | 442 | 7.7 |
| VS4-8 | M12 | 149.2 | 156.2 | 155 | 528 | 526 | 558 | 558 | 12 | 20 | 20 | 30 | 14 | 6 | 9.2 | 9.4 | 9.5 | 768 | 8.0 | 478 | 8.3 |
| VS4-9 | M12 | 149.2 | 156.2 | 155 | 544 | 542 | 574 | 574 | 12 | 20 | 20 | 30 | 14 | 6 | 9.8 | 9.9 | 10.1 | 784 | 8.5 | 493 | 8.7 |
| VS4-10 | M12 | 177.6 | 188.9 | 200 | 523 | 521 | 553 | 553 | 12 | 20 | 20 | 30 | 14 | 6 | 16.8 | 16.8 | 17.1 | 763 | 15.3 | 471 | 15.4 |
| VS4-11 | M12 | 177.6 | 188.9 | 200 | 532 | 530 | 562 | 562 | 12 | 20 | 20 | 30 | 14 | 6 | 17.2 | 17.4 | 17.5 | 772 | 15.7 | 480 | 16.0 |
| VS4-12 | M12 | 177.6 | 188.9 | 200 | 543 | 541 | 573 | 573 | 12 | 20 | 20 | 30 | 14 | 6 | 17.8 | 17.9 | 18.1 | 783 | 16.2 | 491 | 16.4 |
| VS4-13 | M12 | 177.6 | 188.9 | 200 | 568 | 566 | 604 | 604 | 12 | 25 | 30 | 36 | 18 | 6 | 18.5 | 18.6 | 18.9 | 808 | 16.9 | 516 | 17.1 |
| VS4-14 | M12 | 177.6 | 188.9 | 200 | 607 | 605 | 643 | 643 | 12 | 25 | 30 | 36 | 18 | 6 | 20.2 | 20.3 | 20.6 | 847 | 18.6 | 554 | 18.8 |
| VS4-15 | M12 | 177.6 | 188.9 | 200 | 682 | 680 | 718 | 718 | 12 | 25 | 30 | 36 | 18 | 6 | 23.7 | 23.9 | 24.1 | 922 | 22.1 | 630 | 22.3 |
| VS4-16 | M16 | 246.2 | 263.5 | 320 | 578 | 575 | 628 | 628 | 16 | 30 | 35 | 50 | 22 | 10 | 42.0 | 42.4 | 43.0 | 818 | 37.8 | 517 | 38.1 |
| VS4-17 | M16 | 246.2 | 263.5 | 320 | 633 | 630 | 683 | 683 | 16 | 30 | 35 | 50 | 22 | 10 | 47.0 | 47.5 | 48.0 | 873 | 42.7 | 572 | 43.0 |
| VS4-18 | M16 | 246.2 | 263.5 | 320 | 675 | 672 | 725 | 725 | 16 | 30 | 35 | 50 | 22 | 10 | 50.4 | 51.0 | 51.4 | 915 | 46.1 | 614 | 46.3 |
| VS4-19 | M20 | 246.2 | 263.5 | 320 | 709 | 705 | 769 | 769 | 20 | 35 | 45 | 60 | 26 | 10 | 61.3 | 62.2 | 63.0 | 949 | 53.5 | 639 | 53.8 |
| VS4-20 | M24 | 246.2 | 263.5 | 320 | 778 | 773 | 848 | 848 | 24 | 40 | 55 | 70 | 33 | 12 | 70.0 | 71.4 | 72.9 | 1018 | 61.3 | 704 | 61.9 |
| VS4-21 | M30 | 246.2 | 263.5 | 320 | 863 | 857 | 943 | 943 | 30 | 45 | 55 | 80 | 40 | 15 | 86.2 | 88.2 | 90.4 | 1103 | 72.2 | 779 | 73.6 |
| VS4-22 | M30 | 248.2 | 263.5 | 330 | 970 | 964 | 1050 | 1050 | 30 | 45 | 55 | 80 | 40 | 15 | 107 | 109 | 111 | 1210 | 92.0 | 884 | 93.4 |
| VS4-23 | M36 | 248.2 | 263.5 | 330 | 1129 | 1122 | 1219 | 1219 | 36 | 60 | 75 | 90 | 46 | 15 | 141 | 144 | 147 | 1369 | 122 | 1032 | 122 |
| VS4-24 | M42 | 248.2 | 263.5 | 330 | 1343 | 1335 | 1448 | 1448 | 42 | 70 | 85 | 105 | 52 | 20 | 190 | 196 | 202 | 1583 | 164 | 1239 | 164 |
| VS4-25 | M48 | 375.8 | 408.5 | 500 | 1165 | 1155 | 1285 | 1285 | 48 | 75 | 100 | 120 | 60 | 20 | 329 | 336 | 344 | 1405 | 290 | 1056 | 293 |
| VS4-26 | M56 | 375.8 | 408.5 | 500 | 1367 | 1356 | 1507 | 1507 | 56 | 80 | 115 | 140 | 68 | 20 | 396 | 405 | 416 | 1607 | 347 | 1245 | 351 |
| VS4-27 | M64 | 379.2 | 412.5 | 520 | 1572 | 1559 | 1727 | 1727 | 64 | 90 | 130 | 155 | 76 | 25 | 501 | 514 | 531 | 1812 | 435 | 1434 | 445 |
| VS4-28 | M72 | 379.2 | 412.5 | 530 | 1882 | 1868 | 2037 | 2037 | 72 | 90 | 130 | 155 | 76 | 25 | 664 | 676 | 692 | 2122 | 571 | 1726 | 584 |
| VS4-29 | M80 | 379.2 | 412.5 | 540 | 2200 | 2184 | 2375 | 2375 | 80 | 100 | 150 | 175 | 85 | 25 | 853 | 868 | 889 | 2440 | 724 | 2031 | 745 |

*TYPE F*

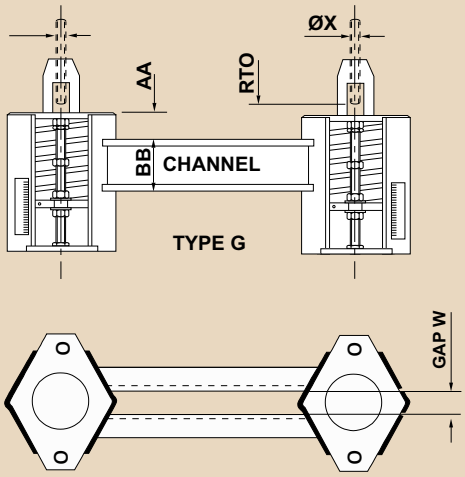



NB. INSTALLED HEIGHT 'J' DIMENSIONS FOR TYPES F2 F3 AND F4 VARY WITH PIPE SIZE. PLEASE CONTACT PIPE HANGERS & SUPPORTS DESIGN DEPARTMENT FOR DETAILS.

NOTE THAT WHERE DIMENSION 'M' EXCEEDS THE BASE PLATE SQUARE DIMENSION 'S', 'M' WILL BE THE MAX. WIDTH OF THE BASE PLATE.

ADDITIONAL PIPE STOOL WILL BE PROVIDED TO MATCH THE ELEVATION, WHEREVER REQUIRED

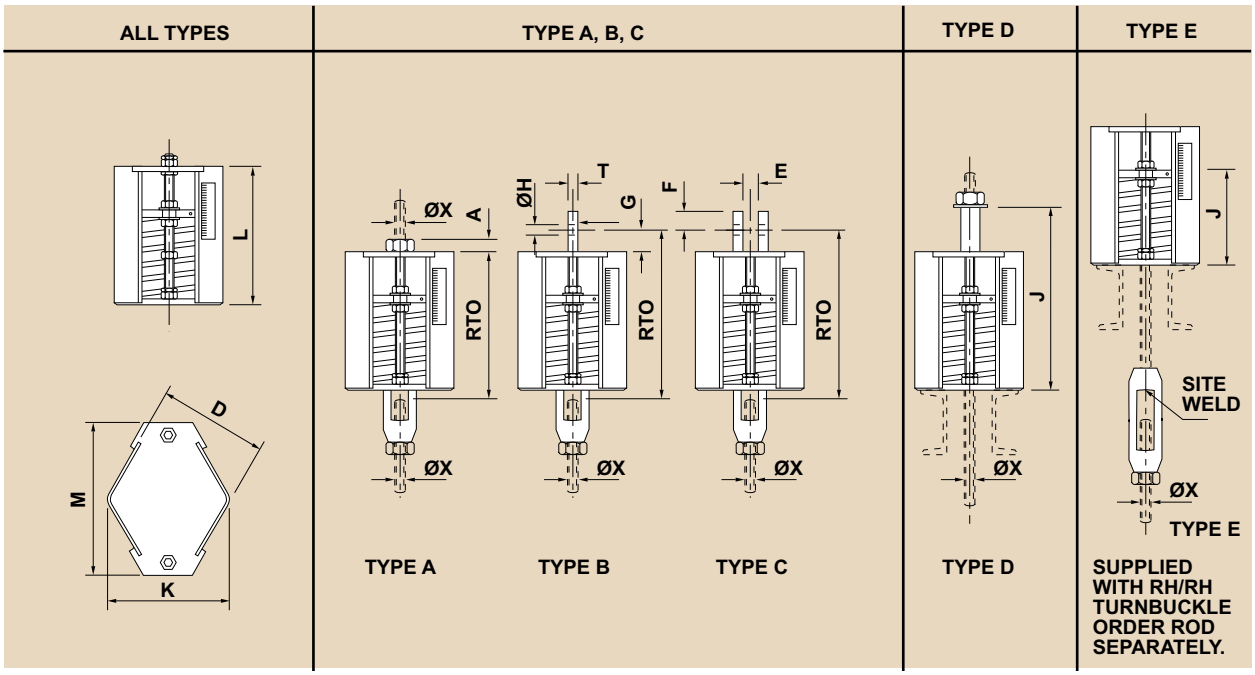
*TYPE G*




SUPPORTING EFFORT = TABULATED VALUE x 2
SPRING RATE = TABULATED VALUE x 2
ADD WEIGHT OF UNIT TO LOAD FROM PIPE.

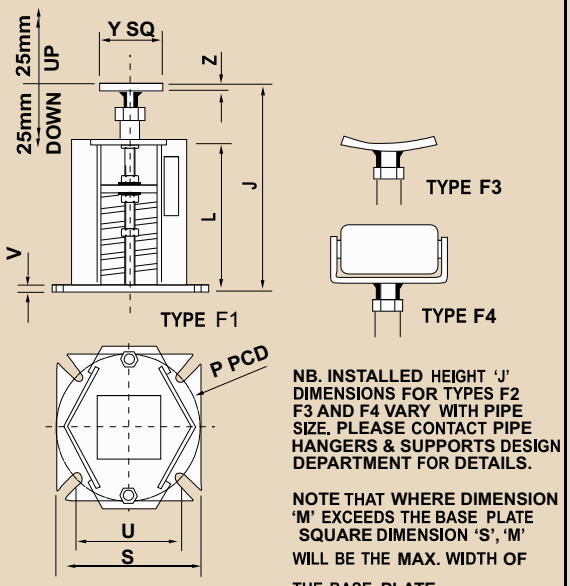
| SUPPORT SIZE | J AT MIN. LOAD TYPE F mm | BODY L'TH L mm | BASE PLATE E SQ. S mm | BASE PLATE E PCD P mm | BASE BOLT CRS. SQ. U mm | BASE BOLT SIZE | BASE PLATE E V mm | LOAD PAD SQ. Y mm | LOAD PAD THK Z mm | WEIGHT TYPE F kgf | RTO AT MIN LOAD mm | DIM. M mm | GAP W mm | RSC SIZE | | | WEIGHT kgf | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | 900 MAX CENTRES | 1300 MAX CENTRES | 1800 MAX CENTRES | @ 900 CRS | @ 1300 CRS | @ 1800 CRS |
| VS4-1 | 701 | 416 | 156 | 170 | 120 | M16 | 6 | 75 | 6 | 5.7 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 20.6 | 23.3 | 26.7 |
| VS4-2 | 729 | 444 | 156 | 170 | 120 | M16 | 6 | 75 | 6 | 6.0 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 21.5 | 24.2 | 27.7 |
| VS4-3 | 752 | 467 | 156 | 170 | 120 | M16 | 6 | 75 | 6 | 6.2 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 21.9 | 24.7 | 28.1 |
| VS4-4 | 759 | 474 | 156 | 170 | 120 | M16 | 6 | 75 | 6 | 6.2 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 22.1 | 24.9 | 28.3 |
| VS4-5 | 748 | 463 | 156 | 170 | 120 | M16 | 6 | 75 | 6 | 6.3 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 22.1 | 24.8 | 28.3 |
| VS4-6 | 758 | 473 | 156 | 170 | 120 | M16 | 6 | 75 | 6 | 6.3 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 22.3 | 25.0 | 28.4 |
| VS4-7 | 765 | 480 | 156 | 170 | 120 | M16 | 6 | 75 | 6 | 6.6 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 22.8 | 25.6 | 29.0 |
| VS4-8 | 801 | 516 | 156 | 170 | 120 | M16 | 6 | 75 | 6 | 6.9 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 23.8 | 26.6 | 30.0 |
| VS4-9 | 816 | 531 | 156 | 170 | 120 | M16 | 6 | 75 | 6 | 7.3 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 24.9 | 27.7 | 31.1 |
| VS4-10 | 805 | 521 | 200 | 205 | 145 | M20 | 10 | 75 | 6 | 15.3 | 25 | 25 | 22 | 76 x 38 | 76 x 38 | 76 x 38 | 43.4 | 48.8 | 55.5 |
| VS4-11 | 814 | 530 | 200 | 205 | 145 | M20 | 10 | 75 | 6 | 15.7 | 25 | 25 | 22 | 76 x 38 | 76 x 38 | 76 x 38 | 44.4 | 49.8 | 56.5 |
| VS4-12 | 825 | 541 | 200 | 205 | 145 | M20 | 10 | 75 | 6 | 16.1 | 25 | 25 | 22 | 76 x 38 | 76 x 38 | 76 x 38 | 45.5 | 50.9 | 57.6 |
| VS4-13 | 856 | 566 | 200 | 205 | 145 | M20 | 10 | 75 | 10 | 17.6 | 25 | 25 | 26 | 76 x 38 | 76 x 38 | 76 x 38 | 47.0 | 52.3 | 59.0 |
| VS4-14 | 894 | 604 | 200 | 205 | 145 | M20 | 10 | 75 | 10 | 19.0 | 25 | 25 | 26 | 76 x 38 | 76 x 38 | 76 x 38 | 50.3 | 55.6 | 62.3 |
| VS4-15 | 970 | 680 | 200 | 205 | 145 | M20 | 10 | 75 | 10 | 21.8 | 25 | 25 | 26 | 76 x 38 | 76 x 38 | 76 x 38 | 57.4 | 62.7 | 69.4 |
| VS4-16 | 864 | 573 | 270 | 280 | 198 | M20 | 12 | 100 | 12 | 39.8 | 25 | 25 | 33 | 76 x 38 | 102 x 51 | 102 x 51 | 92.8 | 106 | 117 |
| VS4-17 | 919 | 628 | 270 | 280 | 198 | M20 | 12 | 100 | 12 | 44.0 | 25 | 25 | 33 | 76 x 38 | 102 x 51 | 102 x 51 | 103 | 116 | 127 |
| VS4-18 | 961 | 670 | 270 | 280 | 198 | M20 | 12 | 100 | 12 | 46.9 | 25 | 25 | 33 | 76 x 38 | 102 x 51 | 102 x 51 | 110 | 123 | 134 |
| VS4-19 | 988 | 695 | 270 | 287 | 203 | M20 | 12 | 120 | 12 | 55.3 | 25 | 25 | 40 | 102 x 51 | 127 x 64 | 127 x 64 | 136 | 154 | 169 |
| VS4-20 | 1053 | 760 | 270 | 287 | 203 | M20 | 12 | 120 | 12 | 61.5 | 25 | 25 | 40 | 102 x 51 | 127 x 64 | 127 x 64 | 154 | 172 | 187 |
| VS4-21 | 1128 | 835 | 270 | 287 | 203 | M20 | 12 | 120 | 12 | 70.8 | 25 | 25 | 40 | 102 x 51 | 127 x 64 | 127 x 64 | 186 | 204 | 218 |
| VS4-22 | 1236 | 940 | 276 | 294 | 208 | M20 | 12 | 150 | 15 | 89.2 | 25 | 25 | 52 | 152 x 76 | 203 x 76 | 203 x 76 | 237 | 264 | 288 |
| VS4-23 | 1377 | 1081 | 300 | 308 | 218 | M20 | 12 | 150 | 15 | 111.3 | 25 | 25 | 52 | 152 x 76 | 203 x 76 | 203 x 76 | 306 | 333 | 357 |
| VS4-24 | 1586 | 1288 | 300 | 308 | 218 | M20 | 20 | 150 | 15 | 152.6 | 25 | 25 | 52 | 152 x 76 | 203 x 76 | 203 x 76 | 405 | 431 | 455 |
| VS4-25 | 1418 | 1111 | 430 | 453 | 320 | M24 | 20 | 200 | 20 | 280.0 | 25 | 25 | 60 | 203 x 89 | 254 x 89 | 305 x 89 | 689 | 724 | 777 |
| VS4-26 | 1606 | 1295 | 430 | 453 | 320 | M24 | 20 | 200 | 20 | 324.8 | 25 | 25 | 70 | 203 x 89 | 254 x 89 | 305 x 89 | 823 | 858 | 911 |
| VS4-27 | 1802 | 1487 | 440 | 467 | 330 | M24 | 20 | 200 | 20 | 413.0 | 25 | 25 | 80 | 203 x 89 | 254 x 89 | 305 x 89 | 1031 | 1067 | 1120 |
| VS4-28 | 2107 | 1782 | 460 | 481 | 340 | M24 | 25 | 200 | 25 | 546.0 | 25 | 25 | 80 | 305 x 89 | 305 x 102 | 381 x 102 | 1369 | 1411 | 1483 |
| VS4-29 | 2432 | 2096 | 480 | 495 | 350 | M24 | 30 | 200 | 30 | 701.4 | 25 | 25 | 90 | 305 x 89 | 305 x 102 | 381 x 102 | 1746 | 1788 | 1861 |

# RANGE VS5




| SUPPORT SIZE | ROD DIA | BODY DIMENSIONS | | | | RTO AT MIN LOAD (mm) | | | DEPTH OF THR'D | LUG DIMENSIONS TYPES B & C | | | | | WEIGHTS kgf | | | J AT MIN LOAD | WEIGHT | J AT MIN LOAD | WEIGHT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X mm | D mm | K mm | M mm | L mm (not F) | A | B | C | A mm | E mm | F mm | G mm | H mm | T mm | A | B | C | mm | kgf | mm | kgf |
| VS5-1 | M12 | 149.2 | 156.2 | 155 | 556 | 554 | 586 | 586 | 12 | 20 | 20 | 30 | 14 | 6 | 9.2 | 9.4 | 9.5 | 876 | 8.0 | 505 | 8.2 |
| VS5-2 | M12 | 149.2 | 156.2 | 155 | 598 | 596 | 628 | 628 | 12 | 20 | 20 | 30 | 14 | 6 | 9.9 | 9.9 | 10.2 | 918 | 8.5 | 547 | 8.7 |
| VS5-3 | M12 | 149.2 | 156.2 | 155 | 626 | 624 | 656 | 656 | 12 | 20 | 20 | 30 | 14 | 6 | 10.0 | 10.2 | 10.4 | 946 | 8.7 | 575 | 8.8 |
| VS5-4 | M12 | 149.2 | 156.2 | 155 | 628 | 626 | 658 | 658 | 12 | 20 | 20 | 30 | 14 | 6 | 10.2 | 10.4 | 10.5 | 948 | 8.8 | 577 | 9.0 |
| VS5-5 | M12 | 149.2 | 156.2 | 155 | 614 | 612 | 644 | 644 | 12 | 20 | 20 | 30 | 14 | 6 | 10.2 | 10.4 | 10.5 | 934 | 8.8 | 563 | 9.0 |
| VS5-6 | M12 | 149.2 | 156.2 | 155 | 624 | 622 | 654 | 654 | 12 | 20 | 20 | 30 | 14 | 6 | 10.2 | 10.4 | 10.5 | 944 | 8.8 | 573 | 9.0 |
| VS5-7 | M12 | 149.2 | 156.2 | 155 | 640 | 638 | 670 | 670 | 12 | 20 | 20 | 30 | 14 | 6 | 10.5 | 10.7 | 10.9 | 960 | 9.2 | 590 | 9.4 |
| VS5-8 | M12 | 149.2 | 156.2 | 155 | 680 | 678 | 710 | 710 | 12 | 20 | 20 | 30 | 14 | 6 | 11.2 | 11.4 | 11.6 | 1000 | 9.7 | 630 | 10.0 |
| VS5-9 | M12 | 149.2 | 156.2 | 155 | 708 | 706 | 738 | 738 | 12 | 20 | 20 | 30 | 14 | 6 | 11.9 | 12.1 | 12.2 | 1028 | 10.4 | 657 | 10.5 |
| VS5-10 | M12 | 177.6 | 188.9 | 200 | 670 | 668 | 700 | 700 | 12 | 20 | 20 | 30 | 14 | 6 | 20.4 | 20.4 | 20.7 | 990 | 18.5 | 618 | 18.7 |
| VS5-11 | M12 | 177.6 | 188.9 | 200 | 682 | 680 | 712 | 712 | 12 | 20 | 20 | 30 | 14 | 6 | 20.9 | 21.1 | 21.3 | 1002 | 19.0 | 630 | 19.4 |
| VS5-12 | M12 | 177.6 | 188.9 | 200 | 696 | 694 | 726 | 726 | 12 | 20 | 20 | 30 | 14 | 6 | 21.6 | 21.8 | 21.9 | 1016 | 19.7 | 644 | 19.9 |
| VS5-13 | M12 | 177.6 | 188.9 | 200 | 728 | 726 | 764 | 764 | 12 | 25 | 30 | 36 | 18 | 6 | 22.4 | 22.6 | 23.0 | 1048 | 20.6 | 676 | 20.7 |
| VS5-14 | M12 | 177.6 | 188.9 | 200 | 780 | 778 | 816 | 816 | 12 | 25 | 30 | 36 | 18 | 6 | 24.5 | 24.7 | 25.0 | 1100 | 22.6 | 727 | 22.8 |
| VS5-15 | M12 | 177.6 | 188.9 | 200 | 878 | 876 | 914 | 914 | 12 | 25 | 30 | 36 | 18 | 6 | 28.7 | 29.1 | 29.2 | 1198 | 26.9 | 826 | 27.0 |
| VS5-16 | M16 | 246.2 | 263.5 | 320 | 714 | 711 | 764 | 764 | 16 | 30 | 35 | 50 | 22 | 10 | 51.0 | 51.5 | 52.2 | 1034 | 45.9 | 653 | 46.2 |
| VS5-17 | M16 | 246.2 | 263.5 | 320 | 781 | 778 | 831 | 831 | 16 | 30 | 35 | 50 | 22 | 10 | 57.1 | 57.6 | 58.3 | 1101 | 51.9 | 720 | 52.2 |
| VS5-18 | M16 | 246.2 | 263.5 | 320 | 822 | 819 | 872 | 872 | 16 | 30 | 35 | 50 | 22 | 10 | 61.2 | 61.9 | 62.4 | 1142 | 55.9 | 761 | 56.3 |
| VS5-19 | M20 | 246.2 | 263.5 | 320 | 899 | 895 | 959 | 959 | 20 | 35 | 45 | 60 | 26 | 10 | 74.5 | 75.5 | 76.5 | 1219 | 64.9 | 829 | 65.3 |
| VS5-20 | M24 | 246.2 | 263.5 | 320 | 987 | 982 | 1057 | 1057 | 24 | 40 | 55 | 70 | 33 | 12 | 85.0 | 86.7 | 88.6 | 1307 | 74.5 | 913 | 75.1 |
| VS5-21 | M30 | 246.2 | 263.5 | 320 | 1095 | 1089 | 1175 | 1175 | 30 | 45 | 55 | 80 | 40 | 15 | 105 | 107 | 110 | 1415 | 87.7 | 1011 | 89.4 |
| VS5-22 | M30 | 248.2 | 263.5 | 330 | 1231 | 1225 | 1311 | 1311 | 30 | 45 | 55 | 80 | 40 | 15 | 129 | 132 | 134 | 1551 | 111.7 | 1145 | 113.4 |
| VS5-23 | M36 | 248.2 | 263.5 | 330 | 1436 | 1429 | 1526 | 1526 | 36 | 60 | 75 | 90 | 46 | 15 | 172 | 175 | 179 | 1756 | 147.9 | 1339 | 148.2 |
| VS5-24 | M42 | 248.2 | 263.5 | 330 | 1704 | 1696 | 1809 | 1809 | 42 | 70 | 85 | 105 | 52 | 20 | 231 | 238 | 245 | 2024 | 198.9 | 1600 | 198.9 |
| VS5-25 | M48 | 375.8 | 408.5 | 500 | 1449 | 1439 | 1569 | 1569 | 48 | 75 | 100 | 120 | 60 | 20 | 400 | 408 | 418 | 1769 | 351.9 | 1340 | 355.3 |
| VS5-26 | M56 | 375.8 | 408.5 | 500 | 1708 | 1697 | 1848 | 1848 | 56 | 80 | 115 | 140 | 68 | 20 | 481 | 491 | 505 | 2028 | 421.6 | 1586 | 426.7 |
| VS5-27 | M64 | 379.2 | 412.5 | 520 | 1970 | 1957 | 2125 | 2125 | 64 | 90 | 130 | 155 | 76 | 25 | 609 | 624 | 644 | 2290 | 528.7 | 1832 | 540.6 |
| VS5-28 | M72 | 379.2 | 412.5 | 530 | 2367 | 2353 | 2522 | 2522 | 72 | 90 | 130 | 155 | 76 | 25 | 806 | 821 | 840 | 2687 | 693.6 | 2211 | 708.9 |
| VS5-29 | M80 | 379.2 | 412.5 | 540 | 2778 | 2762 | 2953 | 2953 | 80 | 100 | 150 | 175 | 85 | 25 | 1035 | 1054 | 1080 | 3098 | 879 | 2609 | 904 |

*TYPE F*

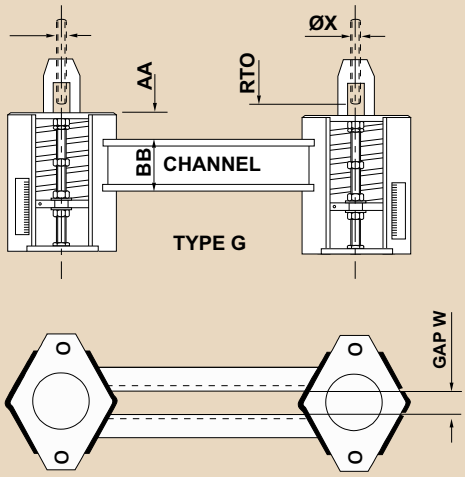



NB. INSTALLED HEIGHT 'J' DIMENSIONS FOR TYPES F2 F3 AND F4 VARY WITH PIPE SIZE. PLEASE CONTACT PIPE HANGERS & SUPPORTS DESIGN DEPARTMENT FOR DETAILS.

NOTE THAT WHERE DIMENSION 'M' EXCEEDS THE BASE PLATE SQUARE DIMENSION 'S', 'M' WILL BE THE MAX. WIDTH OF THE BASE PLATE.

ADDITIONAL PIPE STOOL WILL BE PROVIDED TO MATCH THE ELEVATION, WHEREVER REQUIRED

*TYPE G*




SUPPORTING EFFORT = TABULATED VALUE x 2
SPRING RATE = TABULATED VALUE x 2
ADD WEIGHT OF UNIT TO LOAD FROM PIPE.

| SUPPORT SIZE | J AT MIN. LOAD TYPE F mm | BODY L'TH L mm | BASE PLATE SQ. S mm | BASE PLATE PCD P mm | BASE BOLT CRS. SQ. U mm | BASE BOLT SIZE | BASE PLATE THK V mm | LOAD PAD SQ. Y mm | LOAD PAD THK Z mm | WEIGHT TYPE F kgf | RTO AT MIN LOAD mm | DIM. M mm | GAP W mm | RSC SIZE | | | WEIGHT kgf | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | 900 MAX CENTRES | 1300 MAX CENTRES | 1800 MAX CENTRES | @ 900 CRS | @ 1300 CRS | @ 1800 CRS |
| VS5-1 | 910 | 543 | 156 | 169.7 | 120 | M16 | 6 | 75 | 6 | 7.0 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 23.9 | 26.7 | 30.2 |
| VS5-2 | 952 | 585 | 156 | 169.7 | 120 | M16 | 6 | 75 | 6 | 7.3 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 25.0 | 27.7 | 31.5 |
| VS5-3 | 980 | 613 | 156 | 169.7 | 120 | M16 | 6 | 75 | 6 | 7.5 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 25.5 | 28.4 | 31.9 |
| VS5-4 | 982 | 615 | 156 | 169.7 | 120 | M16 | 6 | 75 | 6 | 7.5 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 25.7 | 28.6 | 32.2 |
| VS5-5 | 968 | 601 | 156 | 169.7 | 120 | M16 | 6 | 75 | 6 | 7.7 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 25.7 | 28.5 | 32.2 |
| VS5-6 | 978 | 611 | 156 | 169.7 | 120 | M16 | 6 | 75 | 6 | 7.7 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 25.9 | 28.7 | 32.3 |
| VS5-7 | 995 | 628 | 156 | 169.7 | 120 | M16 | 6 | 75 | 6 | 8.0 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 26.5 | 29.4 | 33.0 |
| VS5-8 | 1035 | 668 | 156 | 169.7 | 120 | M16 | 6 | 75 | 6 | 8.3 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 27.7 | 30.7 | 34.2 |
| VS5-9 | 1062 | 695 | 156 | 169.7 | 120 | M16 | 6 | 75 | 6 | 8.8 | 25 | 25 | 18 | 51 x 25 | 51 x 25 | 51 x 25 | 29.1 | 32.0 | 35.6 |
| VS5-10 | 1034 | 668 | 200 | 205.1 | 145 | M20 | 10 | 75 | 6 | 18.5 | 25 | 25 | 22 | 76 x 38 | 76 x 38 | 76 x 38 | 50.6 | 56.0 | 63.0 |
| VS5-11 | 1046 | 680 | 200 | 205.1 | 145 | M20 | 10 | 75 | 6 | 19.0 | 25 | 25 | 22 | 76 x 38 | 76 x 38 | 76 x 38 | 51.8 | 57.4 | 64.2 |
| VS5-12 | 1060 | 694 | 200 | 205.1 | 145 | M20 | 10 | 75 | 6 | 19.6 | 25 | 25 | 22 | 76 x 38 | 76 x 38 | 76 x 38 | 53.1 | 58.6 | 65.5 |
| VS5-13 | 1098 | 726 | 200 | 205.1 | 145 | M20 | 10 | 75 | 10 | 21.4 | 25 | 25 | 26 | 76 x 38 | 76 x 38 | 76 x 38 | 54.9 | 60.3 | 67.3 |
| VS5-14 | 1149 | 777 | 200 | 205.1 | 145 | M20 | 10 | 75 | 10 | 23.1 | 25 | 25 | 26 | 76 x 38 | 76 x 38 | 76 x 38 | 59.0 | 64.4 | 71.4 |
| VS5-15 | 1248 | 876 | 200 | 205.1 | 145 | M20 | 10 | 75 | 10 | 26.5 | 25 | 25 | 26 | 76 x 38 | 76 x 38 | 76 x 38 | 67.6 | 73.1 | 80.0 |
| VS5-16 | 1082 | 709 | 270 | 280 | 198 | M20 | 12 | 100 | 12 | 48.3 | 25 | 25 | 33 | 76 x 38 | 102 x 51 | 102 x 51 | 110.8 | 124.5 | 135.5 |
| VS5-17 | 1149 | 776 | 270 | 280 | 198 | M20 | 12 | 100 | 12 | 53.4 | 25 | 25 | 33 | 76 x 38 | 102 x 51 | 102 x 51 | 122.9 | 136.7 | 147.7 |
| VS5-18 | 1190 | 817 | 270 | 280 | 198 | M20 | 12 | 100 | 12 | 57.0 | 25 | 25 | 33 | 76 x 38 | 102 x 51 | 102 x 51 | 131.3 | 145.2 | 156.4 |
| VS5-19 | 1260 | 885 | 270 | 287.1 | 203 | M20 | 12 | 120 | 12 | 67.2 | 25 | 25 | 40 | 102 x 51 | 127 x 64 | 127 x 64 | 162.3 | 181.2 | 197.0 |
| VS5-20 | 1344 | 969 | 270 | 287.1 | 203 | M20 | 12 | 120 | 12 | 74.6 | 25 | 25 | 40 | 102 x 51 | 127 x 64 | 127 x 64 | 184.0 | 203.4 | 219.9 |
| VS5-21 | 1442 | 1067 | 270 | 287.1 | 203 | M20 | 12 | 120 | 12 | 86.0 | 25 | 25 | 40 | 102 x 51 | 127 x 64 | 127 x 64 | 223.2 | 243.2 | 259.4 |
| VS5-22 | 1579 | 1201 | 276 | 294.2 | 208 | M20 | 12 | 150 | 15 | 108.3 | 25 | 25 | 52 | 152 x 76 | 203 x 76 | 203 x 76 | 282.5 | 311.5 | 337.7 |
| VS5-23 | 1766 | 1388 | 300 | 308.3 | 218 | M20 | 12 | 150 | 15 | 135.2 | 25 | 25 | 52 | 152 x 76 | 203 x 76 | 203 x 76 | 366.4 | 396.2 | 423.0 |
| VS5-24 | 2029 | 1649 | 300 | 308.3 | 218 | M20 | 20 | 150 | 15 | 185.3 | 25 | 25 | 52 | 152 x 76 | 203 x 76 | 203 x 76 | 486.4 | 518.0 | 547.6 |
| VS5-25 | 1784 | 1395 | 430 | 452.5 | 320 | M24 | 20 | 200 | 20 | 340.0 | 25 | 25 | 60 | 203 x 89 | 254 x 89 | 305 x 89 | 830 | 872 | 933 |
| VS5-26 | 2029 | 1636 | 430 | 452.5 | 320 | M24 | 20 | 200 | 20 | 394.4 | 25 | 25 | 70 | 203 x 89 | 254 x 89 | 305 x 89 | 993 | 1037 | 1101 |
| VS5-27 | 2282 | 1885 | 440 | 466.7 | 330 | M24 | 20 | 200 | 20 | 501.5 | 25 | 25 | 80 | 203 x 89 | 254 x 89 | 305 x 89 | 1246 | 1295 | 1365 |
| VS5-28 | 2674 | 2267 | 460 | 480.8 | 340 | M24 | 25 | 200 | 25 | 663.0 | 25 | 25 | 80 | 305 x 89 | 305 x 102 | 381 x 102 | 1654 | 1708 | 1796 |
| VS5-29 | 3092 | 2674 | 480 | 495 | 350 | M24 | 30 | 200 | 30 | 851.7 | 25 | 25 | 90 | 305 x 89 | 305 x 102 | 381 x 102 | 2112 | 2169 | 2263 |

## SELECTION CHART FOR HIGH LOAD VARIABLE EFFORT SUPPORTS LOADS IN Newtons

| MOVEMENT mm | | | | SPRING SIZE | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | VS 1 | VS 2 | VS 3 | H1 | H2 | H3 | H4 | H5 | H6 | H7 |
| | | | | 55741 | 74276 | 100293 | 120033 | 140039 | 160692 | 187474 |
| | | | | 57233 | 76256 | 102980 | 123194 | 143726 | 164895 | 192378 |
| | | | | 58725 | 78237 | 105667 | 126354 | 147413 | 169099 | 197282 |
| | | | | 60216 | 80218 | 108354 | 129514 | 151099 | 173302 | 202186 |
| | | | | 61708 | 82198 | 111042 | 132674 | 154786 | 177506 | 207090 |
| **MIN** | **0** | **0** | **0** | 63200 | 84179 | 113729 | 135834 | 158473 | 181709 | 211994 |
| | | | | 64692 | 86160 | 116416 | 138994 | 162160 | 185913 | 216898 |
| | | | | 66184 | 88140 | 119103 | 142154 | 165847 | 190116 | 221802 |
| | | | | 67675 | 90121 | 121791 | 145314 | 169534 | 194319 | 226706 |
| | | | | 69167 | 92102 | 124478 | 148475 | 173220 | 198523 | 231610 |
| W | **5** | **10** | **20** | 70659 | 94083 | 127165 | 151635 | 176907 | 202726 | 236514 |
| O | | | | 72151 | 96063 | 129852 | 154795 | 180594 | 206930 | 241418 |
| | | | | 73643 | 98044 | 132540 | 157955 | 184281 | 211133 | 246322 |
| R | | | | 75134 | 100025 | 135227 | 161115 | 187968 | 215337 | 251226 |
| | | | | 76626 | 102005 | 137914 | 164275 | 191654 | 219540 | 256130 |
| | **10** | **20** | **40** | 78118 | 103986 | 140602 | 167435 | 195341 | 223744 | 261034 |
| K | | | | 79610 | 105967 | 143289 | 170596 | 199028 | 227947 | 265938 |
| | | | | 81102 | 107948 | 145976 | 173756 | 202715 | 232151 | 270842 |
| I | | | | 82594 | 109928 | 148663 | 176916 | 206402 | 236354 | 275746 |
| | | | | 84085 | 111909 | 151351 | 180076 | 210089 | 240558 | 280651 |
| | **15** | **30** | **60** | 85577 | 113890 | 154038 | 183236 | 213775 | 244761 | 285555 |
| N | | | | 87069 | 115870 | 156725 | 186396 | 217462 | 248965 | 290459 |
| | | | | 88561 | 117851 | 159412 | 189556 | 221149 | 253168 | 295363 |
| G | | | | 90053 | 119832 | 162100 | 192716 | 224836 | 257371 | 300267 |
| | | | | 91544 | 121812 | 164787 | 195877 | 228523 | 261575 | 305171 |
| | **20** | **40** | **80** | 93036 | 123793 | 167474 | 199037 | 232210 | 265778 | 310075 |
| | | | | 94528 | 125774 | 170161 | 202197 | 235896 | 269982 | 314979 |
| R | | | | 96020 | 127755 | 172849 | 205357 | 239583 | 274185 | 319883 |
| | | | | 97512 | 129735 | 175536 | 208517 | 243270 | 278389 | 324787 |
| | | | | 99003 | 131716 | 178223 | 211677 | 246957 | 282592 | 329691 |
| A | **25** | **50** | **100** | 100495 | 133697 | 180910 | 214837 | 250644 | 286796 | 334595 |
| | | | | 101987 | 135677 | 183598 | 217998 | 254330 | 290999 | 339499 |
| N | | | | 103479 | 137658 | 186285 | 221158 | 258017 | 295203 | 344403 |
| | | | | 104971 | 139639 | 188972 | 224318 | 261704 | 299406 | 349307 |
| G | | | | 106462 | 141620 | 191659 | 227478 | 265391 | 303610 | 354211 |
| | **30** | **60** | **120** | 107954 | 143600 | 194347 | 230638 | 269078 | 307813 | 359115 |
| E | | | | 109446 | 145581 | 197034 | 233798 | 272765 | 312017 | 364019 |
| | | | | 110938 | 147562 | 199721 | 236958 | 276451 | 316220 | 368923 |
| | | | | 112430 | 149542 | 202409 | 240118 | 280138 | 320423 | 373827 |
| | | | | 113921 | 151523 | 205096 | 243279 | 283825 | 324627 | 378731 |
| **MAX** | **35** | **70** | **140** | 115413 | 153504 | 207783 | 246439 | 287512 | 328830 | 383635 |
| | | | | 116905 | 155484 | 210470 | 249599 | 291199 | 333034 | 388539 |
| | | | | 118397 | 157465 | 213158 | 252759 | 294885 | 337237 | 393444 |
| | | | | 119889 | 159446 | 215845 | 255919 | 298572 | 341441 | 398348 |
| | | | | 121380 | 161427 | 218532 | 259079 | 302259 | 345644 | 403252 |
| | **40** | **80** | **160** | 122872 | 163407 | 221219 | 262239 | 305946 | 349848 | 408156 |

| | | H1 | H2 | H3 | H4 | H5 | H6 | H7 |
|---|---|---|---|---|---|---|---|---|
| **SPRING** | VS1 | 1492 | 1981 | 2802 | 3160 | 3687 | 4203 | 4904 |
| **RATE** | VS2 | 745.9 | 990 | 1401 | 1580 | 1843 | 2102 | 2452 |
| **N/mm** | VS3 | 373 | 495.2 | 700.6 | 790 | 922 | 1051 | 1226 |

## SELECTION CHART FOR HIGH LOAD VARIABLE EFFORT SUPPORTS LOADS IN kgf

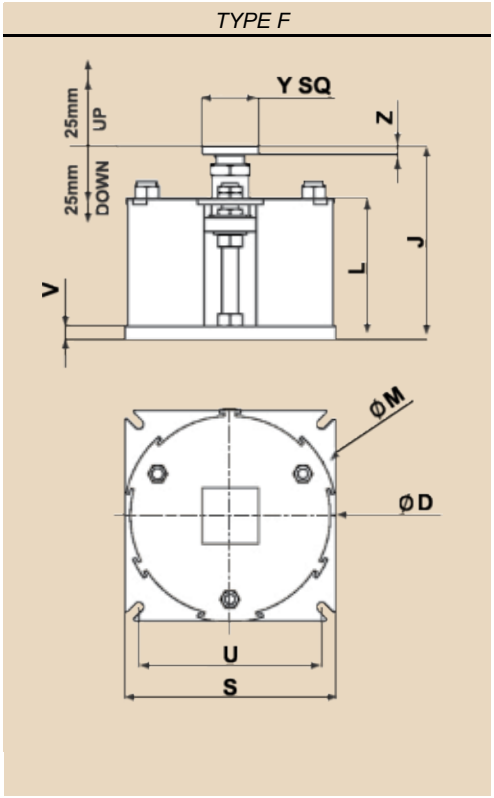
| MOVEMENT mm | | | | SPRING SIZE | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | VS 1 | VS 2 | VS 3 | H1 | H2 | H3 | H4 | H5 | H6 | H7 |
| | | | | 5684 | 7574 | 10227 | 12240 | 14280 | 16386 | 19117 |
| | | | | 5836 | 7776 | 10501 | 12562 | 14656 | 16815 | 19617 |
| | | | | 5988 | 7978 | 10775 | 12884 | 15032 | 17243 | 20117 |
| | | | | 6140 | 8180 | 11049 | 13207 | 15408 | 17672 | 20617 |
| | | | | 6292 | 8382 | 11323 | 13529 | 15784 | 18101 | 21117 |
| **MIN** | **0** | **0** | **0** | 6445 | 8584 | 11597 | 13851 | 16160 | 18529 | 21617 |
| | | | | 6597 | 8786 | 11871 | 14173 | 16536 | 18958 | 22117 |
| | | | | 6749 | 8988 | 12145 | 14496 | 16912 | 19386 | 22618 |
| | | | | 6901 | 9190 | 12419 | 14818 | 17288 | 19815 | 23118 |
| | | | | 7053 | 9392 | 12693 | 15140 | 17664 | 20244 | 23618 |
| W | **5** | **10** | **20** | 7205 | 9594 | 12967 | 15462 | 18040 | 20672 | 24118 |
| O | | | | 7357 | 9796 | 13241 | 15785 | 18415 | 21101 | 24618 |
| | | | | 7509 | 9998 | 13515 | 16107 | 18791 | 21530 | 25118 |
| R | | | | 7662 | 10200 | 13789 | 16429 | 19167 | 21958 | 25618 |
| | | | | 7814 | 10402 | 14063 | 16751 | 19543 | 22387 | 26118 |
| | **10** | **20** | **40** | 7966 | 10604 | 14337 | 17074 | 19919 | 22816 | 26618 |
| K | | | | 8118 | 10806 | 14611 | 17396 | 20295 | 23244 | 27118 |
| | | | | 8270 | 11008 | 14885 | 17718 | 20671 | 23673 | 27618 |
| I | | | | 8422 | 11210 | 15159 | 18040 | 21047 | 24101 | 28118 |
| | | | | 8574 | 11412 | 15433 | 18363 | 21423 | 24530 | 28618 |
| | **15** | **30** | **60** | 8726 | 11614 | 15707 | 18685 | 21799 | 24959 | 29118 |
| N | | | | 8879 | 11815 | 15982 | 19007 | 22175 | 25387 | 29619 |
| | | | | 9031 | 12017 | 16256 | 19329 | 22551 | 25816 | 30119 |
| G | | | | 9183 | 12219 | 16530 | 19652 | 22927 | 26245 | 30619 |
| | | | | 9335 | 12421 | 16804 | 19974 | 23303 | 26673 | 31119 |
| | **20** | **40** | **80** | 9487 | 12623 | 17078 | 20296 | 23679 | 27102 | 31619 |
| | | | | 9639 | 12825 | 17352 | 20618 | 24055 | 27530 | 32119 |
| R | | | | 9791 | 13027 | 17626 | 20941 | 24431 | 27959 | 32619 |
| | | | | 9943 | 13229 | 17900 | 21263 | 24807 | 28388 | 33119 |
| | | | | 10096 | 13431 | 18174 | 21585 | 25183 | 28816 | 33619 |
| A | **25** | **50** | **100** | 10248 | 13633 | 18448 | 21907 | 25559 | 29245 | 34119 |
| | | | | 10400 | 13835 | 18722 | 22230 | 25934 | 29674 | 34619 |
| N | | | | 10552 | 14037 | 18996 | 22552 | 26310 | 30102 | 35119 |
| | | | | 10704 | 14239 | 19270 | 22874 | 26686 | 30531 | 35619 |
| G | | | | 10856 | 14441 | 19544 | 23196 | 27062 | 30960 | 36119 |
| | **30** | **60** | **120** | 11008 | 14643 | 19818 | 23519 | 27438 | 31388 | 36620 |
| E | | | | 11160 | 14845 | 20092 | 23841 | 27814 | 31817 | 37120 |
| | | | | 11313 | 15047 | 20366 | 24163 | 28190 | 32245 | 37620 |
| | | | | 11465 | 15249 | 20640 | 24485 | 28566 | 32674 | 38120 |
| | | | | 11617 | 15451 | 20914 | 24808 | 28942 | 33103 | 38620 |
| **MAX** | **35** | **70** | **140** | 11769 | 15653 | 21188 | 25130 | 29318 | 33531 | 39120 |
| | | | | 11921 | 15855 | 21462 | 25452 | 29694 | 33960 | 39620 |
| | | | | 12073 | 16057 | 21736 | 25774 | 30070 | 34389 | 40120 |
| | | | | 12225 | 16259 | 22010 | 26096 | 30446 | 34817 | 40620 |
| | | | | 12377 | 16461 | 22284 | 26419 | 30822 | 35246 | 41120 |
| | **40** | **80** | **160** | 12529 | 16663 | 22558 | 26741 | 31198 | 35675 | 41620 |

| | | H1 | H2 | H3 | H4 | H5 | H6 | H7 |
|---|---|---|---|---|---|---|---|---|
| **SPRING** | VS1 | 152 | 202 | 286 | 322 | 376 | 429 | 500 |
| **RATE** | VS2 | 76.1 | 101 | 143 | 161 | 188 | 214 | 250 |
| **KGF/MM** | VS3 | 38.0 | 50.5 | 71.4 | 80.6 | 94 | 107 | 125 |

TURNOUT THIS PAGE FOR VS5 TYPE F AND TYPE G DIMENSIONS AND SELECTION TABLE IN KGS

# HIGH LOAD VARIABLES

*TYPE F*

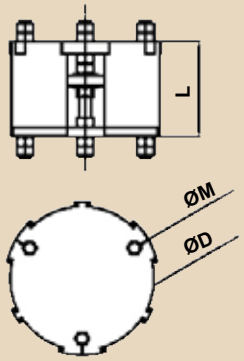



High load variable with multi coil design

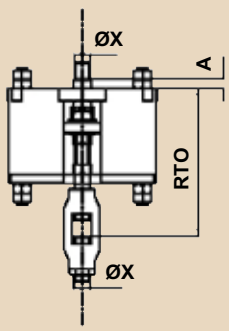
| All TYPES | | | TYPE F | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SUPPORT SIZE | BODY DIMENSIONS | | J AT MIN. LOAD TYPE F mm | BODY L'TH L mm | BASE PLATE SQ. S mm | BASE BOLT CRS. SQ. U mm | BASE BOLT SIZE | BASE PLATE THK V mm | LOAD PAD SQ. Y mm | LOAD PAD THK Z mm | WEIGHT TYPE F kgf |
| | ØD mm | ØM mm | | | | | | | | | |
| VS1-H1 | 630 | 657 | 408 | 276 | 650 | 550 | M24 | 35 | 200 | 25 | 326.0 |
| VS1-H2 | 630 | 657 | 449 | 313 | 650 | 550 | M24 | 40 | 200 | 25 | 383.3 |
| VS1-H3 | 730 | 757 | 460 | 313 | 750 | 650 | M24 | 40 | 200 | 30 | 519.0 |
| VS1-H4 | 730 | 757 | 508 | 361 | 750 | 650 | M30 | 50 | 200 | 30 | 600.8 |
| VS1-H5 | 730 | 757 | 558 | 371 | 750 | 650 | M30 | 50 | 200 | 30 | 646.8 |
| VS1-H6 | 730 | 757 | 595 | 396 | 750 | 650 | M30 | 50 | 200 | 40 | 672.0 |
| VS1-H7 | 780 | 807 | 608 | 409 | 800 | 700 | M30 | 60 | 200 | 40 | 818.1 |
| VS2-H1 | 730 | 757 | 526 | 354 | 750 | 650 | M24 | 35 | 200 | 25 | 458.9 |
| VS2-H2 | 730 | 757 | 574 | 398 | 750 | 650 | M24 | 40 | 200 | 25 | 545.8 |
| VS2-H3 | 730 | 757 | 622 | 435 | 750 | 650 | M24 | 40 | 200 | 30 | 586.9 |
| VS2-H4 | 730 | 757 | 690 | 503 | 750 | 650 | M30 | 50 | 200 | 30 | 681.9 |
| VS2-H5 | 730 | 757 | 740 | 513 | 750 | 650 | M30 | 50 | 200 | 30 | 737.5 |
| VS2-H6 | 730 | 757 | 802 | 563 | 750 | 650 | M30 | 50 | 200 | 40 | 772.9 |
| VS2-H7 | 780 | 807 | 815 | 576 | 800 | 700 | M30 | 60 | 200 | 40 | 933.6 |
| VS3-H1 | 730 | 757 | 809 | 557 | 750 | 650 | M24 | 35 | 200 | 25 | 543.6 |
| VS3-H2 | 730 | 757 | 886 | 630 | 750 | 650 | M24 | 40 | 200 | 25 | 658.1 |
| VS3-H3 | 730 | 757 | 964 | 697 | 750 | 650 | M24 | 40 | 200 | 30 | 729.9 |
| VS3-H4 | 730 | 757 | 1077 | 810 | 750 | 650 | M30 | 50 | 200 | 30 | 853.4 |
| VS3-H5 | 730 | 757 | 1127 | 820 | 750 | 650 | M30 | 50 | 200 | 30 | 929.0 |
| VS3-H6 | 730 | 757 | 1242 | 923 | 750 | 650 | M30 | 50 | 200 | 40 | 996.7 |
| VS3-H7 | 780 | 807 | 1255 | 936 | 800 | 700 | M30 | 60 | 200 | 40 | 1190.2 |

# HIGH LOAD VARIABLES

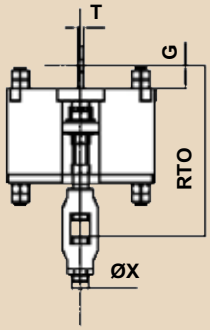
*ALL TYPES*



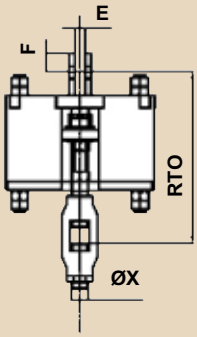

*TYPE A, B, C*




TYPE A




TYPE B




TYPE C

| SUPPORT SIZE | ROD DIA | BODY DIMENSIONS | | | RTO AT MIN LOAD (mm) | | | DEPTH OF THR'D | LUG DIMENSIONS TYPES B & C | | | | | WEIGHTS kgf | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X mm | ØD mm | ØM mm | L mm (not F) | A | B | C | A mm | E mm | F mm | G mm | H mm | T mm | A | B | C |
| VS1-H1 | M56 | 630 | 657 | 353 | 539 | 690 | 690 | 56 | 80 | 115 | 140 | 68 | 20 | 386 | 393 | 400 |
| VS1-H2 | M64 | 630 | 657 | 400 | 584 | 752 | 752 | 64 | 90 | 130 | 155 | 76 | 25 | 472 | 482 | 493 |
| VS1-H3 | M72 | 730 | 757 | 406 | 577 | 766 | 766 | 72 | 100 | 150 | 175 | 85 | 25 | 633 | 645 | 659 |
| VS1-H4 | M80 | 730 | 757 | 469 | 638 | 854 | 854 | 80 | 100 | 160 | 200 | 95 | 40 | 732 | 755 | 781 |
| VS1-H5 | M90 | 730 | 757 | 479 | 666 | 884 | 884 | 90 | 100 | 160 | 200 | 95 | 40 | 814 | 834 | 860 |
| VS1-H6 | M90 | 730 | 757 | 514 | 701 | 919 | 919 | 90 | 100 | 160 | 200 | 95 | 40 | 872 | 892 | 918 |
| VS1-H7 | M100 | 780 | 807 | 537 | 722 | 957 | 957 | 100 | 110 | 170 | 215 | 105 | 40 | 1044 | 1066 | 1096 |
| VS2-H1 | M56 | 730 | 757 | 431 | 622 | 773 | 773 | 56 | 80 | 115 | 140 | 68 | 20 | 532 | 538 | 546 |
| VS2-H2 | M64 | 730 | 757 | 485 | 674 | 842 | 842 | 64 | 90 | 130 | 155 | 76 | 25 | 654 | 664 | 675 |
| VS2-H3 | M72 | 730 | 757 | 528 | 704 | 893 | 893 | 72 | 100 | 150 | 175 | 85 | 25 | 702 | 714 | 728 |
| VS2-H4 | M80 | 730 | 757 | 611 | 785 | 1001 | 1001 | 80 | 100 | 160 | 200 | 95 | 40 | 816 | 839 | 865 |
| VS2-H5 | M90 | 730 | 757 | 621 | 813 | 1031 | 1031 | 90 | 100 | 160 | 200 | 95 | 40 | 909 | 929 | 955 |
| VS2-H6 | M90 | 730 | 757 | 681 | 873 | 1091 | 1091 | 90 | 100 | 160 | 200 | 95 | 40 | 978 | 998 | 1024 |
| VS2-H7 | M100 | 780 | 807 | 704 | 894 | 1129 | 1129 | 100 | 110 | 170 | 215 | 105 | 40 | 1167 | 1189 | 1219 |
| VS3-H1 | M56 | 730 | 757 | 634 | 835 | 986 | 986 | 56 | 80 | 115 | 140 | 68 | 20 | 619 | 625 | 633 |
| VS3-H2 | M64 | 730 | 757 | 717 | 916 | 1084 | 1084 | 64 | 90 | 130 | 155 | 76 | 25 | 767 | 777 | 788 |
| VS3-H3 | M72 | 730 | 757 | 790 | 976 | 1165 | 1165 | 72 | 100 | 150 | 175 | 85 | 25 | 848 | 860 | 875 |
| VS3-H4 | M80 | 730 | 757 | 918 | 1102 | 1318 | 1318 | 80 | 100 | 160 | 200 | 95 | 40 | 994 | 1018 | 1044 |
| VS3-H5 | M90 | 730 | 757 | 928 | 1130 | 1348 | 1348 | 90 | 100 | 160 | 200 | 95 | 40 | 1111 | 1131 | 1157 |
| VS3-H6 | M90 | 730 | 757 | 1041 | 1243 | 1461 | 1461 | 90 | 100 | 160 | 200 | 95 | 40 | 1215 | 1235 | 1261 |
| VS3-H7 | M100 | 780 | 807 | 1064 | 1264 | 1499 | 1499 | 100 | 110 | 170 | 215 | 105 | 40 | 1441 | 1463 | 1493 |

# CONSTANT EFFORT SUPPORTS

The design of the current range of constant effort supports is the result of experience and know how accrued over several decades.

The present form and function of the Constant Effort Supports are based on the geometry derived from this know how such that the theoretical deviation of supporting effort as the pipe moves from cold to hot or vice versa is kept to a minimum. By reducing the number of rotating joints and providing maintenance free PTFE based bearings on rotating joints, friction is reduced to an extent where in there is little deviation between theory & practice.

Helical coil compression springs play a major role in the performance of supports and engineers at Pipe Hangers & Supports have made great efforts to design a compact range of springs capable of delivering the performance demanded of them. They are also designed keeping in mind present trends in plant design with increasing space limitations with smaller head rooms and form factor typical to Power Plants, Process plants, Off shore rigs & marine applications.

Other important considerations during design stage are:

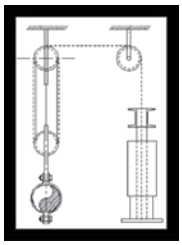
- Effect of spring ageing or fatigue
- The ambient environment that the supports function in.
- The needs of the pipe work company to “balance” lines during erection.
- The need to revise pre-set loads on hangers due to changes in routing or otherwise that may occur on-site after completion of supplies.
- Quick and easy locking and un-locking of hangers during operation for undertaking maintenance activities like routine gasket changes, valve replacements etc
- Such above operations to be carried out with out any special tools and tackles and make do with std tools and tackles already available at site.
- Structurally rigid to withstand handling prior to erection.
- Large well readable travel scales and pointers to show actual travel position during operation, visible from a distance.

## APPLICATION

Constant effort supports are complex mechanical leverage systems designed to provide a constant supporting effort as the pipe moves from cold position to hot position or vice-versa. Constant effort supports are normally used for large vertical movements typically more than 50mm to 60mm or when the travel provided by variable effort supports are insufficient. There are certain typical situations where the movements are small but the stress engineer does not want any differential loading to be transferred from pipe to other attached equipment and the result is the use of a constant effort support.

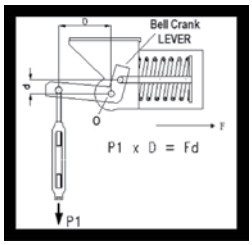
The Pipe Hanger and Supports range of Constant effort supports are based on the “Bell Crank Lever” mechanism.

To very simply illustrate the working idea of a constant effort support consider the sketch below :



A pipe is suspended from a wire rope connected to a dead weight by using a pulley mechanism. As the pipe moves up the dead weight moves down and moves up when the pipe moves down. The weight of the pipe is perfectly counterbalanced by the dead weight such that the pipe can be said to be floating, the supporting force remains constant irrespective of movement.

The modern Constant effort support using the Bell crank lever mechanism and its geometry and mathematics is illustrated below.




The Bell crank lever rotates around the Fulcrum point ‘O’. One end of the Bell crank lever is connected to the pipe ‘P1’, the other end is connected to the spring by the tie rod. Thus when the pipe moves down from cold to hot condition, the point P1 moves down, and as it moves down the Bell crank lever will rotate in the anti clock wise direction & tie rod connected to the spring will be pulled in, by which the spring gets further compressed.

When the pipe moves up the bell crank lever will rotate (in the clock wise direction) & the tie rod connected to spring will be pushed out thus allowing the spring to expand or relax. By computing moments around the fulcrum point ‘O’, we will arrive at the formula:

$$P1 \times D = F \times d$$

$$P1 = \frac{F \times d}{D}$$

Our purpose is to keep P1 constant i.e the reaction experienced by the pipe as a constant. As the bell crank rotates around the Fulcrum point ‘O’, the values of ‘F’ (the load due to the spring reaction) ‘d’ & ‘D’ will change in such a predetermined manner so as to keep value of ‘P1’ constant. Theoretically & mathematically the value of P1 will remain constant but due to friction at rotating points, spring hysteresis, manufacturing tolerances, MSS-SP 58 allows a deviation of ± 6 % on the preset load and BS3974 allows ± 5%.

The formula for calculating the permitted deviation is :-

$$\text{Deviation from Specified Load} = \frac{\text{Max. Reading moving down} - \text{Min Reading Moving up}}{\text{Max. Reading moving down} + \text{Min Reading Moving up}}$$

## RANGE

Our Standard range of Constant effort support units cater to movements upto 750mm and loads upto 50 tons.

## FRAME SIZE AND SPRING SIZE

The support designation gives the support frame size and spring size:

CE-17

*FRAME SIZE* CE *SPRING SIZE* 17

Many dimensions are common for a given frame size.

## SUPPORT TYPES

We offer eleven standard support types:

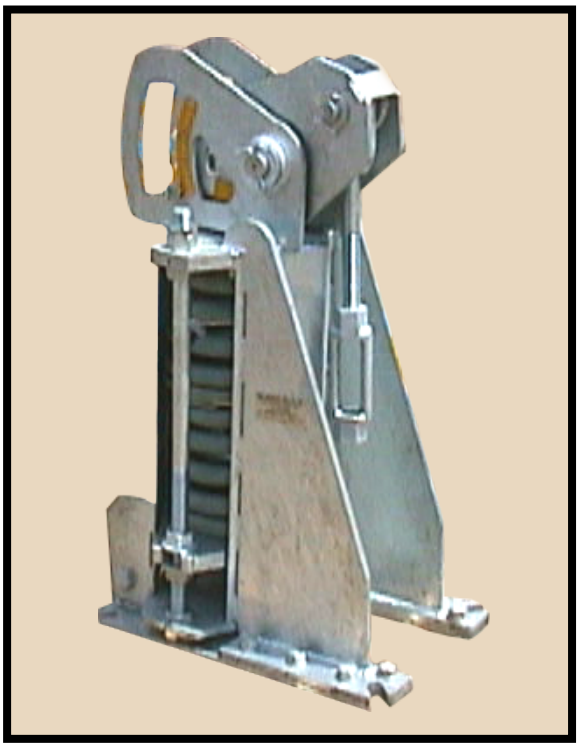
**H1** Horizontal type – single point suspension
**H2** Horizontal type – double point suspension
**V1** Vertical type – single point suspension
**V2** Vertical type – double point suspension
**VU1** Vertical inverted type – single point suspension
**VU2** Vertical inverted type – double point suspension
**HFMH** Horizontal base mounted
**HFMT** Horizontal base mounted compression seat
**VFM** Vertical base mounted
**VFMT** Vertical base mounted compression seat
**VUB** Vertical inverted base mounted

Details of Vertical inverted tandem type (type **VIT**) are available on request.

## SUSPENSION STYLES

For the suspended types, five styles of top suspension are available, namely **S1, S2, S3 , S4** and **S5 .**

Constant Effort Supports Type HFMT



Type VFM

## STANDARD FEATURES

1. Units are compact with minimum head room requirements, installed heights and over all foot print.

2. Travel indicator with travel scale as illustrated in Fig 1 below enables monitoring of pipe work movement & visible from a distance. The “Hot” & “Cold” set positions are marked on the travel scale by means of a red & blue coloured washer riveted on the travel scale enabling visual confirmation of any system irregularities like excess movement etc.

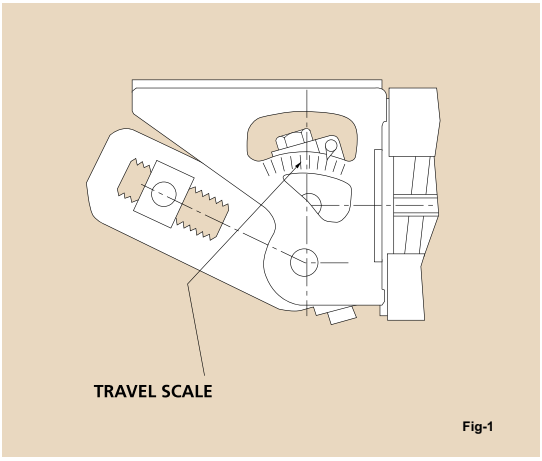



Fig-1

3. The lever rotation indicator (see Fig 2 below) provides a visual indication of position of lever and whether the hanger is loaded correctly. If the indicator is at the back of the window then the spring is under loaded and if at the front then the support is overloaded. If the indicator is not at the extremities then support is taking the load correctly. When the indicator is at the extremities then support load / travel adjustment may be required.

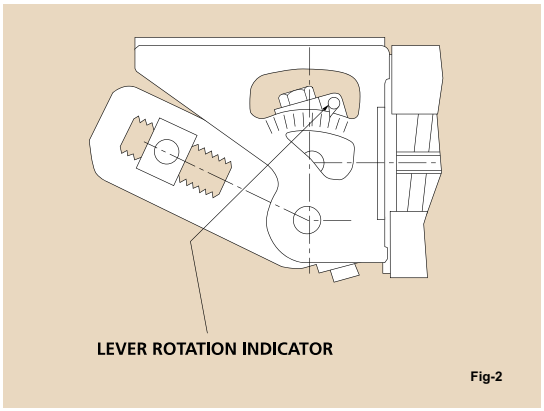



Fig-2

4. A load adjustment facility of ± 20% (of the set preset cold load of the support) is available on the support units. This adjustment can be carried out on site with out any special tools or tackles and with out compromising the travel provided. The adjustment can be carried out by rotating the Load adjuster as shown in Fig 3 below and read out the amount of adjustment from the load adjustment scale attached to lever as shown.

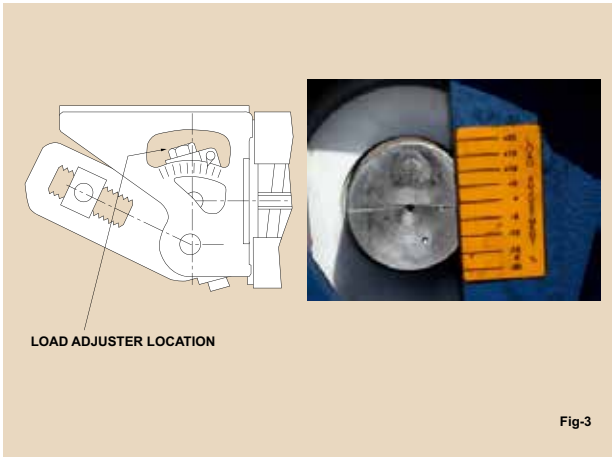



Fig-3

5. Ultimate Stop. The geometry of the frame, lever and its attachments are designed in such a way that in case of over load / travel the lever will be arrested prior to the spring becoming solid, thus protecting the helical coil from excessive stresses.

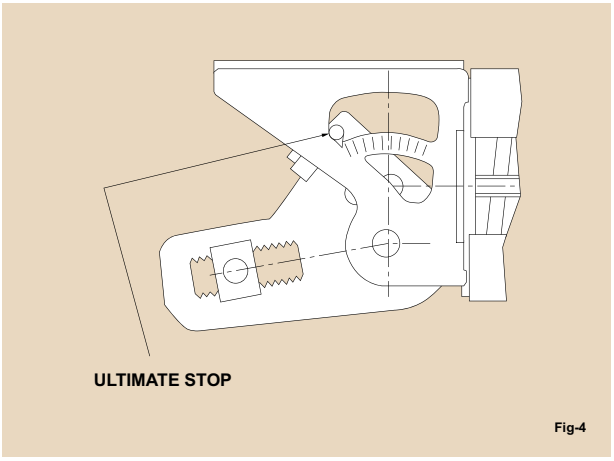



Fig-4

6. The Pipe Hangers & Supports Constant Effort Support Units are shipped to site in the Preset locked position as indicated in the contract drawings. The Infinitely Variable Locking / Balancing device used for preset locking consists of 2 threaded rods which run the full length of the spring can. The locking at preset position is achieved by locking the piston plate above the spring as shown in Fig 5. The support then becomes a rigid member. Thus the locking device is permanently attached to the support and can be used any number of times and since it is fully threaded, the support can be locked anywhere in its travel range i.e infinitely variable number of positions.

## STANDARD FEATURES

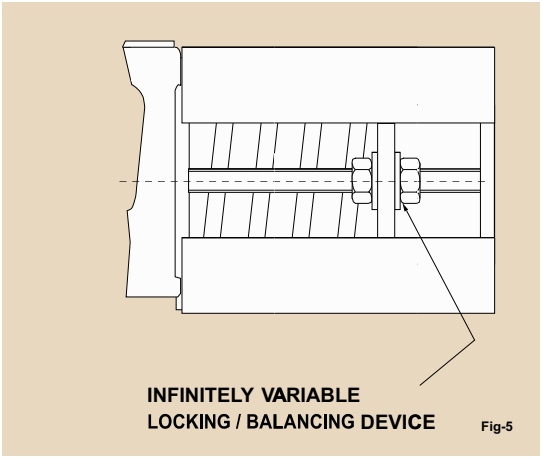


Fig-5

7. Variable Position Load Pin Carrier as shown in Fig 6 below is fitted on supports whose total travel is greater than following values

CA-1: 120 mm, CB: 120 mm, CC: 120 mm, CD: 160 mm, CE: 100 mm, CF: 130 mm, CG: 180 mm.

Once the carrier is repositioned, there is still the +/–20% load adjustment available.

By moving the load pin carrier closer to the fulcrum travel is reduced, load is increased by moving it away, the travel is increased and load is decreased, thus allowing maximum flexibility in situations where changes are required to loads and travels. This adjustment and flexibility is provided with out sacrificing the ± 20% load adjustment facility.

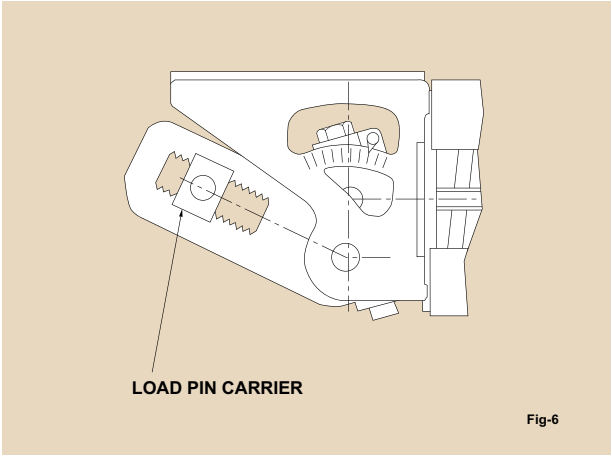
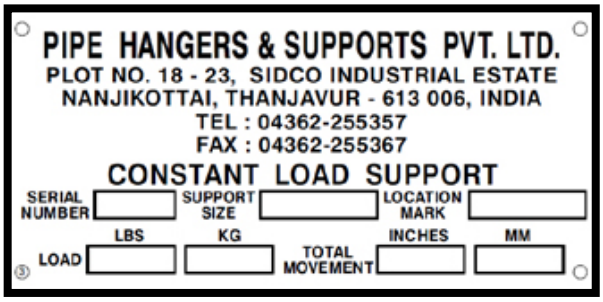


Fig-6

8. The Serial nos of each support is unique allowing traceability of support details, MOC & spring test certificate of spring manufacturer.
The name plate of constant effort support shown below provided all details required for identification of support, load / travel details, size of support etc.




9. Every Constant Effort Support Unit is tested on our test rig and calibrated to contractual load & travel requirements. The deviation in supporting forces as the lever is actuated from top to bottom position is recorded and compared to allowed deviations as stipulated in MSS –SP 58 before declaring it fit for service. A test certificate in produced giving all the observed load & travel values as part of final documentation.

10. Our standard finish is to thoroughly clean and apply a metal primer followed by a finish top coat designed for the protection of fabricated steel articles. Other project specific specialty & high performance coatings to suit varying site / ambient requirements can be provided on request.

## SELECTION

Constant effort support sizes can be selected based on input parameters manually by looking at the selection chart or by using a software issued by us.

### SELECTION BY USING CATALOGUE

Determine the Hot load or working load of the Unit (Remember that in a constant effort unit the hot load = cold load or preset load = operating load).

Add over travel to actual travel to arrive at required travel. Recommended to add 10% as over travel or 25 mm whichever is maximum.

Decide on the model, type and suspension style of the support that is intended for use.

Having decided type of hanger, load, travel required refer the load selection chart and proceed as follows.

a) Locate total travel required at side of chart.

b) Move horizontally across until load equal to or just greater than the load to be supported is located. Never select less than the actual load.

c) Read off vertically support size.

d) Return to load and move down remaining in same vertical column until nearest figure to design load is found.

e) Returning horizontally across this column will give total travel provided for this support.

### DETERMINATION OF SUPPORT DIMENSIONS

Having selected the appropriate support size, model, type, total movement provided, proceed to work out the dimensions.

1. Refer Page 115 & 138 to show the appropriate type.
2. Open out correct page for referring dimensions of appropriate frame selected ex CA, CB, CC etc
3. Dimensions can be read from tables as shown:

   Dimensions are in one of four categories:

   a) Dependent on Movement Provided

   Dimensions dependent on movement provided, these dimensions are provided on the right hand page and in the table headed single point suspension.

   b) Travel Range Dependent

   The dimensions are prefixed with a “T” or a “U” and given on left hand table on the left hand page. Note, the spring dependent dimensions for the top suspension details like AA, BB are shown in this table.

   c) Spring Size Dependent

   These dimensions start with the prefix “S” and provided in the mid centre table on left hand page.

   d) Fixed

   These dimensions start with prefix “F” of “X” and can be read off top centre table on left hand page.

4. Rod take out dimensions A1, A2, A3, J4, J5, J6, J7 & J8 and pivot to load pin dimensions D & E are given at zero rotation of lever. In this connection it is noteworthy to mention that the total rotation of the lever is 45 Deg from top position to bottom position. Hence these dimensions refer to lever at top most position. To work out the take out dimension at preset load Subtract actual travel from total travel and divide by 2. This figure must be added to A1, A2, A3 or subtracted from J4, J5, J6, J7 or J8.

## ORDERING INFORMATION

For ordering information refer to page 221

Constant effort support model HFMH & Variable effort support type D, under calibration test in our hydro mechanical test rig with load measurement by load cells and digital displays.

## INSTALLATION AND ERECTION

Refer the Erection installation manual for detailed instructions or download a copy from our website www.pipehangers.in.

## MAINTENANCE

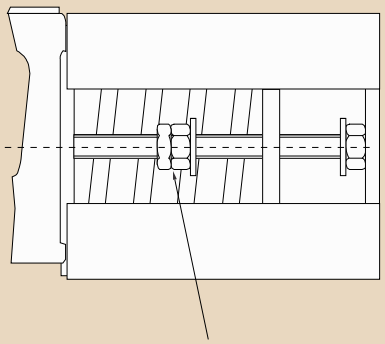
It is recommended that the supports are visually inspected once in 6 months by conducting a “walk down” along the pipe work.

Look for foreign objects left over from erection or maintenance activities like tools or construction debris which can impair operation of the support by obstruction.

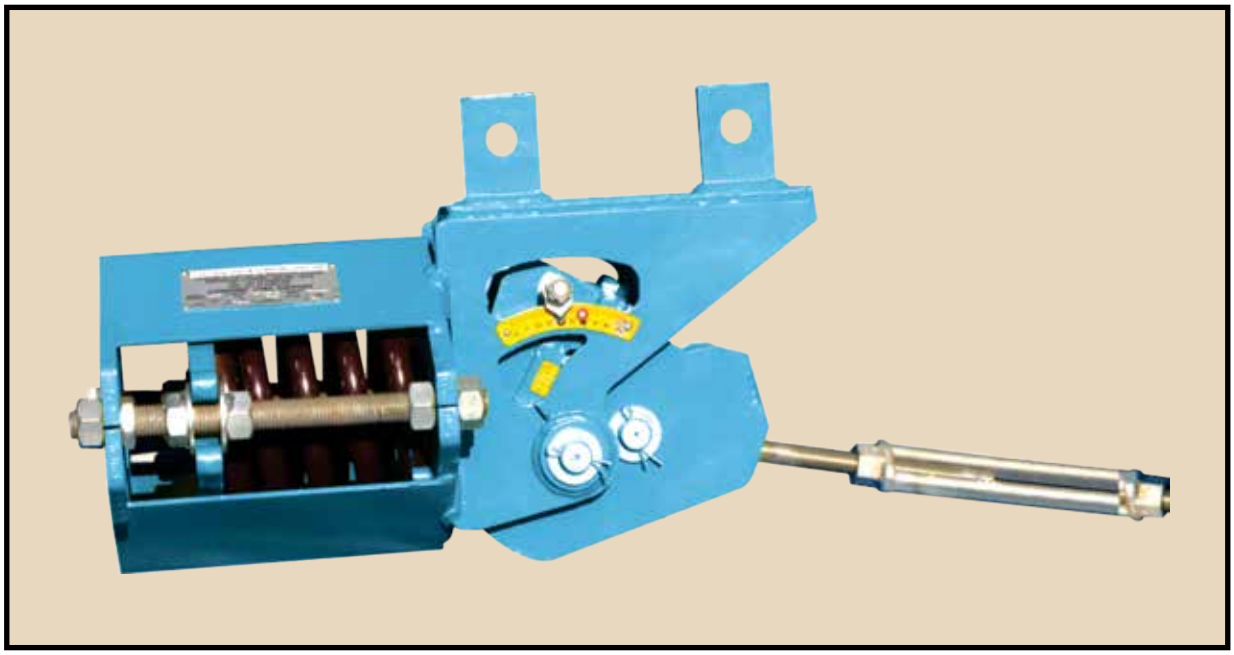
The position of the travel indicator is not at the extremities and that it is close to the intended HOT or COLD marking on the travel scale.

## OPTIONAL FEATURES

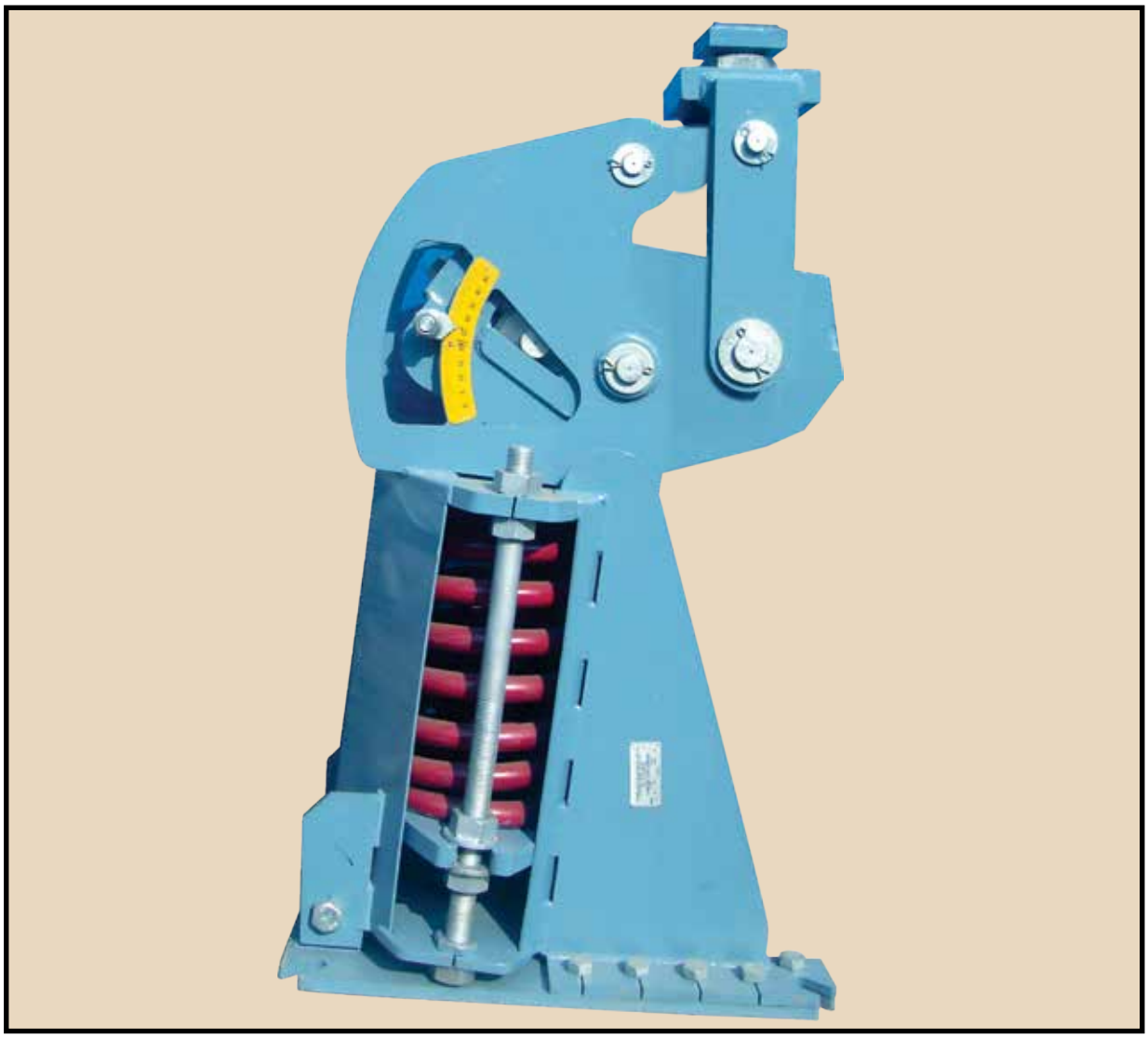
1. Limit Stops : Sometimes the piping engineer may want to restrict the movement of pipe beyond a certain predetermined level. The infinitely locking / balancing mechanism lends itself to such provisions with ease. By simply adding an additional nut in place the travel gets restricted and will act as a limit stop. (See Fig below for details)




2. The supports can be supplied with plastic coated coils for superior corrosion resistant properties. The partnering spring can and attachments need to be Hot dip Galvanized. Since the support is of a bolted construction no welding activity takes place after galvanizing
3. Where extreme corrosive conditions exist, extra thick body parts can be supplied.
4. For supports operating in sub zero temperatures the MOC is different, please ask for details.
5. For Foot mounted supports HFMT & VFMT where large axial or transverse movements are envisaged or the loadings in that direction exceed 25% of vertical loads, the load flange can be supplied with low friction sliding pads.



Type H2 – S2

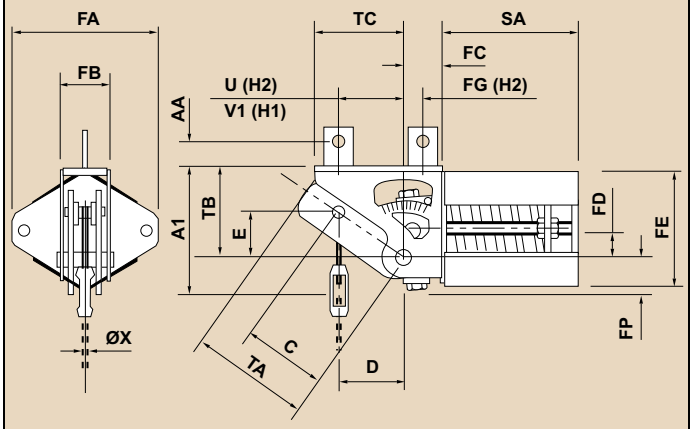


Type VFMT

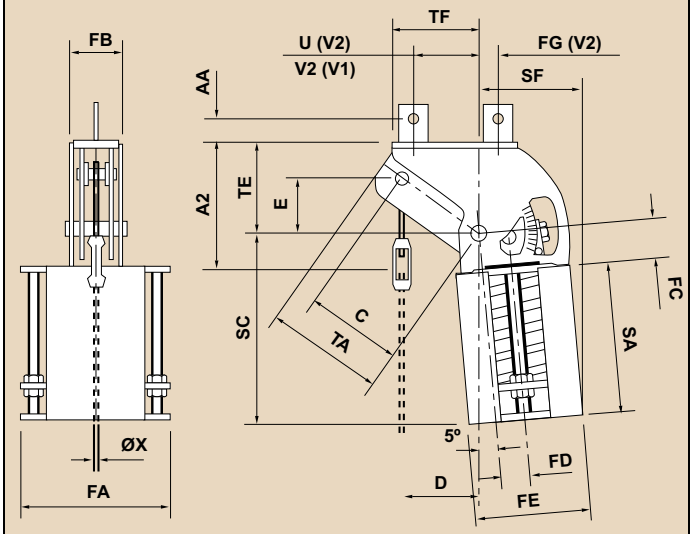


TURN OUT THIS PAGE FOR DIAGRAMS OF
**CONSTANT EFFORT SUPPORTS: SUSPENDED TYPES**

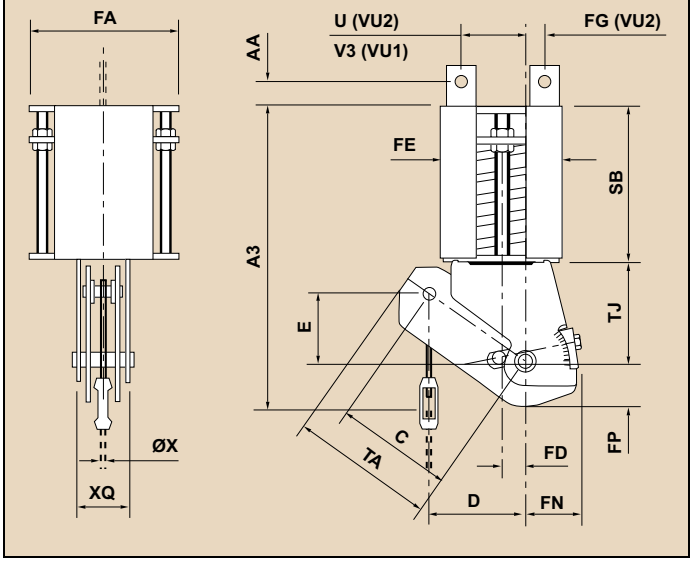
## TYPES H2 & H1




## TYPES V2 & V1

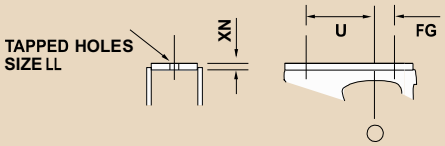



## TYPES VU2 & VU1



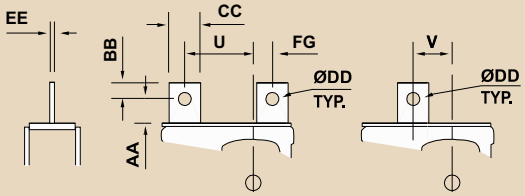

## ALTERNATIVE TOP SUSPENSION STYLES

### STYLE S1 (TYPES H2 & V2)



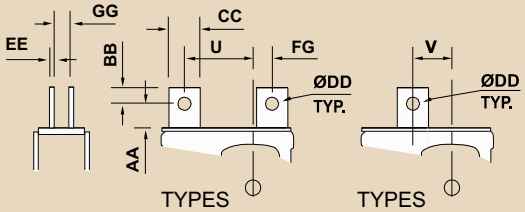

TYPES H2 & V2

### STYLE S2 (ALL TYPES)



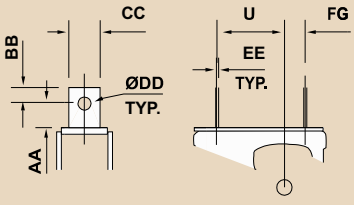

TYPES H2, V2 & VU2 | TYPES H1, V1 & VU1

### STYLE S3 (ALL TYPES)



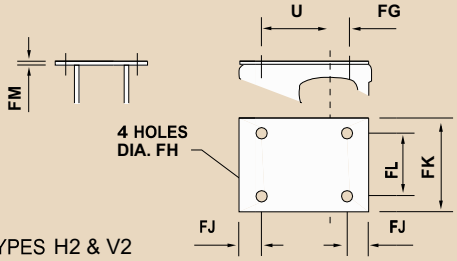

TYPES H2, V2 & VU2 | TYPES H1, V1 & VU1

### STYLE S4 (TYPES H2, V2 & VU2)




TYPES H2, V2 & VU2

### STYLE S5 (TYPES H2 & V2)




TYPES H2 & V2

# CONSTANT SUPPORT SELECTION CHART (LOADS IN NEWTONS)

| SIZE / TRAVEL | CA-1 | CA-2 | CA-3 | CA-4 | CB-5 | CB-6 | CB-7 | CC-8 | CC-9 | CC-10 | CD-11 | CD-12 | CD-13 | CD-14 | CD-15 | CE-16 | CE-17 | CE-18 | CE-19 | TRAVEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40** | 724 | 1001 | 1316 | 1837 | 2307 | 3242 | 4182 | 4615 | 6484 | 8364 | 11074 | 14767 | 19674 | | | | | | | **40** |
| **50** | 579 | 801 | 1052 | 1470 | 1846 | 2593 | 3346 | 3692 | 5187 | 6691 | 8859 | 11813 | 15739 | 21256 | 29658 | | | | | **50** |
| **60** | 482 | 667 | 877 | 1225 | 1538 | 2161 | 2788 | 3076 | 4322 | 5576 | 7383 | 9844 | 13116 | 17714 | 24715 | 33506 | 42495 | | | **60** |
| **70** | 413 | 572 | 752 | 1050 | 1318 | 1852 | 2390 | 2637 | 3705 | 4779 | 6328 | 8438 | 11242 | 15183 | 21184 | 28719 | 36425 | 44830 | 56038 | **70** |
| **80** | 362 | 501 | 658 | 919 | 1154 | 1621 | 2091 | 2307 | 3242 | 4182 | 5537 | 7383 | 9837 | 13285 | 18536 | 25130 | 31872 | 39227 | 49033 | **80** |
| **90** | 322 | 445 | 585 | 817 | 1025 | 1441 | 1859 | 2051 | 2882 | 3717 | 4922 | 6563 | 8744 | 11809 | 16477 | 22337 | 28330 | 34868 | 43585 | **90** |
| **100** | 289 | 400 | 526 | 735 | 923 | 1297 | 1673 | 1846 | 2593 | 3346 | 4430 | 5907 | 7869 | 10628 | 14829 | 20104 | 25497 | 31381 | 39227 | **100** |
| **110** | 263 | 364 | 478 | 668 | 839 | 1179 | 1521 | 1678 | 2358 | 3041 | 4027 | 5370 | 7154 | 9662 | 13481 | 18276 | 23179 | 28528 | 35661 | **110** |
| **120** | 241 | 334 | 439 | 612 | 769 | 1081 | 1394 | 1538 | 2161 | 2788 | 3691 | 4922 | 6558 | 8857 | 12358 | 16753 | 21248 | 26151 | 32689 | **120** |
| **130** | 223 | 308 | 405 | 565 | 710 | 997 | 1287 | 1420 | 1995 | 2574 | 3407 | 4544 | 6053 | 8176 | 11407 | 15464 | 19613 | 24139 | 30174 | **130** |
| **140** | 207 | 286 | 376 | 525 | 659 | 926 | 1195 | 1318 | 1852 | 2390 | 3164 | 4219 | 5621 | 7592 | 10592 | 14360 | 18212 | 22415 | 28019 | **140** |
| **150** | 193 | 267 | 351 | 490 | 615 | 864 | 1115 | 1231 | 1729 | 2230 | 2953 | 3938 | 5246 | 7085 | 9886 | 13402 | 16998 | 20921 | 26151 | **150** |
| **160** | 181 | 250 | 329 | 459 | 577 | 810 | 1046 | 1154 | 1621 | 2091 | 2769 | 3692 | 4918 | 6643 | 9268 | 12565 | 15936 | 19613 | 24517 | **160** |
| **170** | 170 | 236 | 310 | 432 | 543 | 763 | 984 | 1086 | 1526 | 1968 | 2606 | 3475 | 4629 | 6252 | 8723 | 11826 | 14998 | 18460 | 23074 | **170** |
| **180** | 161 | 222 | 292 | 408 | 513 | 720 | 929 | 1025 | 1441 | 1859 | 2461 | 3281 | 4372 | 5905 | 8238 | 11169 | 14165 | 17434 | 21793 | **180** |
| **190** | 152 | 211 | 277 | 387 | 486 | 682 | 880 | 972 | 1365 | 1761 | 2331 | 3109 | 4142 | 5594 | 7805 | 10581 | 13420 | 16516 | 20646 | **190** |
| **200** | 145 | 200 | 263 | 367 | 461 | 648 | 836 | 923 | 1297 | 1673 | 2215 | 2953 | 3935 | 5314 | 7415 | 10052 | 12749 | 15691 | 19613 | **200** |
| **210** | 138 | 191 | 251 | 350 | 439 | 617 | 797 | 879 | 1235 | 1593 | 2109 | 2813 | 3747 | 5061 | 7061 | 9573 | 12142 | 14943 | 18679 | **210** |
| **220** | 132 | 182 | 239 | 334 | 420 | 589 | 760 | 839 | 1179 | 1521 | 2013 | 2685 | 3577 | 4831 | 6741 | 9138 | 11590 | 14264 | 17830 | **220** |
| **230** | 126 | 174 | 229 | 320 | 401 | 564 | 727 | 803 | 1128 | 1455 | 1926 | 2568 | 3421 | 4621 | 6447 | 8741 | 11086 | 13644 | 17055 | **230** |
| **240** | 121 | 167 | 219 | 306 | 385 | 540 | 697 | 769 | 1081 | 1394 | 1846 | 2461 | 3279 | 4428 | 6179 | 8377 | 10624 | 13076 | 16344 | **240** |
| **250** | 116 | 160 | 210 | 294 | 369 | 519 | 669 | 738 | 1037 | 1338 | 1772 | 2363 | 3148 | 4251 | 5932 | 8041 | 10199 | 12553 | 15691 | **250** |
| **260** | 111 | 154 | 202 | 283 | 355 | 499 | 643 | 710 | 997 | 1287 | 1704 | 2272 | 3027 | 4088 | 5704 | 7732 | 9807 | 12070 | 15087 | **260** |
| **270** | 107 | 148 | 195 | 272 | 342 | 480 | 620 | 684 | 961 | 1239 | 1641 | 2188 | 2915 | 3936 | 5492 | 7446 | 9443 | 11623 | 14528 | **270** |
| **280** | 103 | 143 | 188 | 262 | 330 | 463 | 597 | 659 | 926 | 1195 | 1582 | 2110 | 2811 | 3796 | 5296 | 7180 | 9106 | 11208 | 14009 | **280** |
| **290** | 100 | 138 | 181 | 253 | 318 | 447 | 577 | 637 | 894 | 1154 | 1527 | 2037 | 2714 | 3665 | 5113 | 6932 | 8792 | 10821 | 13526 | **290** |
| **300** | 96 | 133 | 175 | 245 | 308 | 432 | 558 | 615 | 864 | 1115 | 1477 | 1969 | 2623 | 3543 | 4943 | 6701 | 8499 | 10460 | 13076 | **300** |
| **310** | | | | | 298 | 418 | 540 | 595 | 837 | 1079 | 1429 | 1905 | 2539 | 3428 | 4784 | 6485 | 8225 | 10123 | 12654 | **310** |
| **320** | | | | | 288 | 405 | 523 | 577 | 810 | 1046 | 1384 | 1846 | 2459 | 3321 | 4634 | 6282 | 7968 | 9807 | 12258 | **320** |
| **330** | | | | | 280 | 393 | 507 | 559 | 786 | 1014 | 1342 | 1790 | 2385 | 3221 | 4494 | 6092 | 7726 | 9509 | 11887 | **330** |
| **340** | | | | | 271 | 381 | 492 | 543 | 763 | 984 | 1303 | 1737 | 2315 | 3126 | 4362 | 5913 | 7499 | 9230 | 11537 | **340** |
| **350** | | | | | 264 | 370 | 478 | 527 | 741 | 956 | 1266 | 1688 | 2248 | 3037 | 4237 | 5744 | 7285 | 8966 | 11208 | **350** |
| **360** | | | | | 256 | 360 | 465 | 513 | 720 | 929 | 1230 | 1641 | 2186 | 2952 | 4119 | 5584 | 7083 | 8717 | 10896 | **360** |
| **370** | | | | | 249 | 350 | 452 | 499 | 701 | 904 | 1197 | 1596 | 2127 | 2872 | 4008 | 5433 | 6891 | 8481 | 10602 | **370** |
| **380** | | | | | 243 | 341 | 440 | 486 | 682 | 880 | 1166 | 1554 | 2071 | 2797 | 3902 | 5290 | 6710 | 8258 | 10323 | **380** |
| **390** | | | | | 237 | 332 | 429 | 473 | 665 | 858 | 1136 | 1515 | 2018 | 2725 | 3802 | 5155 | 6538 | 8046 | 10058 | **390** |
| **400** | | | | | 231 | 324 | 418 | 461 | 648 | 836 | 1107 | 1477 | 1967 | 2657 | 3707 | 5026 | 6374 | 7845 | 9807 | **400** |
| **410** | | | | | | | | 450 | 633 | 816 | 1080 | 1441 | 1919 | 2592 | 3617 | 4903 | 6219 | 7654 | 9567 | **410** |
| **420** | | | | | | | | 439 | 617 | 797 | 1055 | 1406 | 1874 | 2531 | 3531 | 4787 | 6071 | 7472 | 9340 | **420** |
| **430** | | | | | | | | 429 | 603 | 778 | 1030 | 1374 | 1830 | 2472 | 3449 | 4675 | 5930 | 7298 | 9122 | **430** |
| **440** | | | | | | | | 420 | 589 | 760 | 1007 | 1342 | 1789 | 2416 | 3370 | 4569 | 5795 | 7132 | 8915 | **440** |
| **450** | | | | | | | | 410 | 576 | 743 | 984 | 1313 | 1749 | 2362 | 3295 | 4467 | 5666 | 6974 | 8717 | **450** |
| **460** | | | | | | | | 401 | 564 | 727 | 963 | 1284 | 1711 | 2310 | 3224 | 4370 | 5543 | 6822 | 8528 | **460** |
| **470** | | | | | | | | 393 | 552 | 712 | 942 | 1257 | 1674 | 2261 | 3155 | 4277 | 5425 | 6677 | 8346 | **470** |
| **480** | | | | | | | | 385 | 540 | 697 | 923 | 1231 | 1639 | 2214 | 3089 | 4188 | 5312 | 6538 | 8172 | **480** |
| **490** | | | | | | | | 377 | 529 | 683 | 904 | 1205 | 1606 | 2169 | 3026 | 4103 | 5204 | 6404 | 8005 | **490** |
| **500** | | | | | | | | 369 | 519 | 669 | 886 | 1181 | 1574 | 2126 | 2966 | 4021 | 5099 | 6276 | 7845 | **500** |
| **510** | | | | | | | | | | | 869 | 1158 | 1543 | 2084 | 2908 | 3942 | 4999 | 6153 | 7691 | **510** |
| **520** | | | | | | | | | | | 852 | 1136 | 1513 | 2044 | 2852 | 3866 | 4903 | 6035 | 7544 | **520** |
| **530** | | | | | | | | | | | 836 | 1114 | 1485 | 2005 | 2798 | 3793 | 4811 | 5921 | 7401 | **530** |
| **540** | | | | | | | | | | | 820 | 1094 | 1457 | 1968 | 2746 | 3723 | 4722 | 5811 | 7264 | **540** |
| **550** | | | | | | | | | | | 805 | 1074 | 1431 | 1932 | 2696 | 3655 | 4636 | 5706 | 7132 | **550** |
| **560** | | | | | | | | | | | 791 | 1055 | 1405 | 1898 | 2648 | 3590 | 4553 | 5604 | 7005 | **560** |
| **570** | | | | | | | | | | | 777 | 1036 | 1381 | 1865 | 2602 | 3527 | 4473 | 5505 | 6882 | **570** |
| **580** | | | | | | | | | | | 764 | 1018 | 1357 | 1832 | 2557 | 3466 | 4396 | 5411 | 6763 | **580** |
| **590** | | | | | | | | | | | 751 | 1001 | 1334 | 1801 | 2513 | 3407 | 4322 | 5319 | 6649 | **590** |
| **600** | | | | | | | | | | | 738 | 984 | 1312 | 1771 | 2472 | 3351 | 4250 | 5230 | 6538 | **600** |
| **610** | | | | | | | | | | | | | | | | 3296 | 4180 | 5144 | 6431 | **610** |
| **620** | | | | | | | | | | | | | | | | 3243 | 4112 | 5061 | 6327 | **620** |
| **630** | | | | | | | | | | | | | | | | 3191 | 4047 | 4981 | 6226 | **630** |
| **640** | | | | | | | | | | | | | | | | 3141 | 3984 | 4903 | 6129 | **640** |
| **650** | | | | | | | | | | | | | | | | 3093 | 3923 | 4828 | 6035 | **650** |
| **660** | | | | | | | | | | | | | | | | 3046 | 3863 | 4755 | 5943 | **660** |
| **670** | | | | | | | | | | | | | | | | 3001 | 3806 | 4684 | 5855 | **670** |
| **680** | | | | | | | | | | | | | | | | 2956 | 3750 | 4615 | 5769 | **680** |
| **690** | | | | | | | | | | | | | | | | 2914 | 3695 | 4548 | 5685 | **690** |
| **700** | | | | | | | | | | | | | | | | 2872 | 3642 | 4483 | 5604 | **700** |
| **710** | | | | | | | | | | | | | | | | 2831 | 3591 | 4420 | 5525 | **710** |
| **720** | | | | | | | | | | | | | | | | 2792 | 3541 | 4359 | 5448 | **720** |
| **730** | | | | | | | | | | | | | | | | 2754 | 3493 | 4299 | 5374 | **730** |
| **740** | | | | | | | | | | | | | | | | 2717 | 3446 | 4241 | 5301 | **740** |
| **750** | | | | | | | | | | | | | | | | 2680 | 3400 | 4184 | 5230 | **750** |


| SIZE | CA-1 | CA-2 | CA-3 | CA-4 | CB-5 | CB-6 | CB-7 | CC-8 | CC-9 | CC-10 | CD-11 | CD-12 | CD-13 | CD-14 | CD-15 | CE-16 | CE-17 | CE-18 | CE-19 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|




DO NOT SELECT TYPES V1, V2 OR VFM ABOVE THE BLACK LINE.
DO NOT SELECT TYPES H1 OR VU1 BELOW THE RED LINE.
DO NOT SELECT H1 OR VU1 FOR SIZES CH - 30 & ABOVE.
REMEMBER TO ADD OVERTRAVEL ALLOWANCE TO PIPE MOVEMENT BEFORE SELECTING SUPPORT SIZE.

# CONSTANT SUPPORT SELECTION CHART (LOADS IN NEWTONS)

| SIZE / TRAVEL | CF-20 | CF-21 | CF-22 | CF-23 | CG-24 | CG-25 | CG-26 | CG-27 | CG-28 | CG-29 | CH-30 | CH-31 | CH-32 | CI-33 | CI-34 | TRAVEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | | | | | | | | | | | | | | | | 40 |
| 50 | | | | | | | | | | | | | | | | 50 |
| 60 | | | | | | | | | | | | | | | | 60 |
| 70 | | | | | | | | | | | | | | | | 70 |
| 80 | 63743 | 79679 | | | | | | | | | | | | | | 80 |
| 90 | 56661 | 70826 | 87170 | 108963 | 122583 | 163444 | | | | | | | | | | 90 |
| 100 | 50995 | 63743 | 78453 | 98066 | 110325 | 147100 | | | | | | | | | | 100 |
| 110 | 46359 | 57948 | 71321 | 89151 | 100295 | 133727 | 167159 | | | | | | | | | 110 |
| 120 | 42495 | 53119 | 65378 | 81722 | 91937 | 122583 | 153229 | 183875 | 224736 | | | | | | | 120 |
| 130 | 39227 | 49033 | 60349 | 75436 | 84865 | 113154 | 141442 | 169730 | 207448 | 248938 | | | | | | 130 |
| 140 | 36425 | 45531 | 56038 | 70048 | 78803 | 105071 | 131339 | 157607 | 192631 | 231157 | | | | | | 140 |
| 150 | 33996 | 42495 | 52302 | 65378 | 73550 | 98066 | 122583 | 147100 | 179789 | 215746 | 294200 | | | | | 150 |
| 160 | 31872 | 39840 | 49033 | 61292 | 68953 | 91937 | 114922 | 137906 | 168552 | 202262 | 275812 | 344765 | | | | 160 |
| 170 | 29997 | 37496 | 46149 | 57686 | 64897 | 86529 | 108162 | 129794 | 158637 | 190364 | 259588 | 324485 | 389382 | 432646 | 519176 | 170 |
| 180 | 28330 | 35413 | 43585 | 54481 | 61292 | 81722 | 102153 | 122583 | 149824 | 179789 | 245166 | 306458 | 367749 | 408610 | 490332 | 180 |
| 190 | 26839 | 33549 | 41291 | 51614 | 58066 | 77421 | 96776 | 116131 | 141938 | 170326 | 232263 | 290328 | 348394 | 387105 | 464526 | 190 |
| 200 | 25497 | 31872 | 39227 | 49033 | 55162 | 73550 | 91937 | 110325 | 134841 | 161810 | 220650 | 275812 | 330974 | 367749 | 441299 | 200 |
| 210 | 24283 | 30354 | 37359 | 46698 | 52536 | 70048 | 87559 | 105071 | 128420 | 154104 | 210142 | 262678 | 315214 | 350238 | 420285 | 210 |
| 220 | 23179 | 28974 | 35661 | 44576 | 50148 | 66864 | 83579 | 100295 | 122583 | 147100 | 200591 | 250738 | 300886 | 334318 | 401181 | 220 |
| 230 | 22172 | 27714 | 34110 | 42638 | 47967 | 63956 | 79946 | 95935 | 117253 | 140704 | 191869 | 239837 | 287804 | 319782 | 383738 | 230 |
| 240 | 21248 | 26560 | 32689 | 40861 | 45969 | 61292 | 76614 | 91937 | 112368 | 134841 | 183875 | 229843 | 275812 | 306458 | 367749 | 240 |
| 250 | 20398 | 25497 | 31381 | 39227 | 44130 | 58840 | 73550 | 88260 | 107873 | 129448 | 176520 | 220650 | 264780 | 294200 | 353039 | 250 |
| 260 | 19613 | 24517 | 30174 | 37718 | 42433 | 56577 | 70721 | 84865 | 103724 | 124469 | 169730 | 212163 | 254596 | 282884 | 339461 | 260 |
| 270 | 18887 | 23609 | 29057 | 36321 | 40861 | 54481 | 68102 | 81722 | 99883 | 119859 | 163444 | 204305 | 245166 | 272407 | 326888 | 270 |
| 280 | 18212 | 22765 | 28019 | 35024 | 39402 | 52536 | 65670 | 78803 | 96315 | 115578 | 157607 | 197009 | 236410 | 262678 | 315214 | 280 |
| 290 | 17584 | 21980 | 27053 | 33816 | 38043 | 50724 | 63405 | 76086 | 92994 | 111593 | 152172 | 190215 | 228258 | 253620 | 304344 | 290 |
| 300 | 16998 | 21248 | 26151 | 32689 | 36775 | 49033 | 61292 | 73550 | 89894 | 107873 | 147100 | 183875 | 220650 | 245166 | 294200 | 300 |
| 310 | 16450 | 20562 | 25307 | 31634 | 35589 | 47452 | 59314 | 71177 | 86994 | 104393 | 142355 | 177943 | 213532 | 237258 | 284709 | 310 |
| 320 | 15936 | 19920 | 24517 | 30646 | 34477 | 45969 | 57461 | 68953 | 84276 | 101131 | 137906 | 172383 | 206859 | 229843 | 275812 | 320 |
| 330 | 15453 | 19316 | 23774 | 29717 | 33432 | 44576 | 55720 | 66864 | 81722 | 98066 | 133727 | 167159 | 200591 | 222878 | 267454 | 330 |
| 340 | 14998 | 18748 | 23074 | 28843 | 32448 | 43265 | 54081 | 64897 | 79318 | 95182 | 129794 | 162242 | 194691 | 216323 | 259588 | 340 |
| 350 | 14570 | 18212 | 22415 | 28019 | 31521 | 42029 | 52536 | 63043 | 77052 | 92463 | 126086 | 157607 | 189128 | 210142 | 252171 | 350 |
| 360 | 14165 | 17706 | 21793 | 27241 | 30646 | 40861 | 51076 | 61292 | 74912 | 89894 | 122583 | 153229 | 183875 | 204305 | 245166 | 360 |
| 370 | 13782 | 17228 | 21204 | 26504 | 29818 | 39757 | 49696 | 59635 | 72887 | 87465 | 119270 | 149088 | 178905 | 198783 | 238540 | 370 |
| 380 | 13420 | 16775 | 20646 | 25807 | 29033 | 38710 | 48388 | 58066 | 70969 | 85163 | 116131 | 145164 | 174197 | 193552 | 232263 | 380 |
| 390 | 13076 | 16344 | 20116 | 25145 | 28288 | 37718 | 47147 | 56577 | 69149 | 82979 | 113154 | 141442 | 169730 | 188589 | 226307 | 390 |
| 400 | 12749 | 15936 | 19613 | 24517 | 27581 | 36775 | 45969 | 55162 | 67421 | 80905 | 110325 | 137906 | 165487 | 183875 | 220650 | 400 |
| 410 | 12438 | 15547 | 19135 | 23919 | 26908 | 35878 | 44847 | 53817 | 65776 | 78932 | 107634 | 134542 | 161451 | 179390 | 215268 | 410 |
| 420 | 12142 | 15177 | 18679 | 23349 | 26268 | 35024 | 43780 | 52536 | 64210 | 77052 | 105071 | 131339 | 157607 | 175119 | 210142 | 420 |
| 430 | 11859 | 14824 | 18245 | 22806 | 25657 | 34209 | 42762 | 51314 | 62717 | 75260 | 102628 | 128285 | 153942 | 171046 | 205255 | 430 |
| 440 | 11590 | 14487 | 17830 | 22288 | 25074 | 33432 | 41790 | 50148 | 61292 | 73550 | 100295 | 125369 | 150443 | 167159 | 200591 | 440 |
| 450 | 11332 | 14165 | 17434 | 21793 | 24517 | 32689 | 40861 | 49033 | 59930 | 71915 | 98066 | 122583 | 147100 | 163444 | 196133 | 450 |
| 460 | 11086 | 13857 | 17055 | 21319 | 23984 | 31978 | 39973 | 47967 | 58627 | 70352 | 95935 | 119918 | 143902 | 159891 | 191869 | 460 |
| 470 | 10850 | 13562 | 16692 | 20865 | 23473 | 31298 | 39122 | 46947 | 57379 | 68855 | 93893 | 117367 | 140840 | 156489 | 187787 | 470 |
| 480 | 10624 | 13280 | 16344 | 20431 | 22984 | 30646 | 38307 | 45969 | 56184 | 67421 | 91937 | 114922 | 137906 | 153229 | 183875 | 480 |
| 490 | 10407 | 13009 | 16011 | 20014 | 22515 | 30020 | 37525 | 45031 | 55037 | 66045 | 90061 | 112576 | 135092 | 150102 | 180122 | 490 |
| 500 | 10199 | 12749 | 15691 | 19613 | 22065 | 29420 | 36775 | 44130 | 53937 | 64724 | 88260 | 110325 | 132390 | 147100 | 176520 | 500 |
| 510 | 9999 | 12499 | 15383 | 19229 | 21632 | 28843 | 36054 | 43265 | 52879 | 63455 | 86529 | 108162 | 129794 | 144215 | 173059 | 510 |
| 520 | 9807 | 12258 | 15087 | 18859 | 21216 | 28288 | 35361 | 42433 | 51862 | 62235 | 84865 | 106082 | 127298 | 141442 | 169730 | 520 |
| 530 | 9622 | 12027 | 14802 | 18503 | 20816 | 27755 | 34693 | 41632 | 50884 | 61060 | 83264 | 104080 | 124896 | 138773 | 166528 | 530 |
| 540 | 9443 | 11804 | 14528 | 18160 | 20431 | 27241 | 34051 | 40861 | 49941 | 59930 | 81722 | 102153 | 122583 | 136203 | 163444 | 540 |
| 550 | 9272 | 11590 | 14264 | 17830 | 20059 | 26745 | 33432 | 40118 | 49033 | 58840 | 80236 | 100295 | 120354 | 133727 | 160472 | 550 |
| 560 | 9106 | 11383 | 14009 | 17512 | 19701 | 26268 | 32835 | 39402 | 48158 | 57789 | 78803 | 98504 | 118205 | 131339 | 157607 | 560 |
| 570 | 8946 | 11183 | 13764 | 17205 | 19355 | 25807 | 32259 | 38710 | 47313 | 56775 | 77421 | 96776 | 116131 | 129035 | 154842 | 570 |
| 580 | 8792 | 10990 | 13526 | 16908 | 19022 | 25362 | 31703 | 38043 | 46497 | 55796 | 76086 | 95108 | 114129 | 126810 | 152172 | 580 |
| 590 | 8643 | 10804 | 13297 | 16621 | 18699 | 24932 | 31165 | 37398 | 45709 | 54851 | 74796 | 93496 | 112195 | 124661 | 149593 | 590 |
| 600 | 8499 | 10624 | 13076 | 16344 | 18387 | 24517 | 30646 | 36775 | 44947 | 53937 | 73550 | 91937 | 110325 | 122583 | 147100 | 600 |
| 610 | 8360 | 10450 | 12861 | 16076 | 18086 | 24115 | 30143 | 36172 | 44210 | 53052 | 72344 | 90430 | 108516 | 120574 | 144688 | 610 |
| 620 | 8225 | 10281 | 12654 | 15817 | 17794 | 23726 | 29657 | 35589 | 43497 | 52197 | 71177 | 88972 | 106766 | 118629 | 142355 | 620 |
| 630 | 8094 | 10118 | 12453 | 15566 | 17512 | 23349 | 29186 | 35024 | 42807 | 51368 | 70048 | 87559 | 105071 | 116746 | 140095 | 630 |
| 640 | 7968 | 9960 | 12258 | 15323 | 17238 | 22984 | 28730 | 34477 | 42138 | 50566 | 68953 | 86191 | 103430 | 114922 | 137906 | 640 |
| 650 | 7845 | 9807 | 12070 | 15087 | 16973 | 22631 | 28288 | 33946 | 41490 | 49788 | 67892 | 84865 | 101838 | 113154 | 135784 | 650 |
| 660 | 7726 | 9658 | 11887 | 14859 | 16716 | 22288 | 27860 | 33432 | 40861 | 49033 | 66864 | 83579 | 100295 | 111439 | 133727 | 660 |
| 670 | 7611 | 9514 | 11709 | 14637 | 16466 | 21955 | 27444 | 32933 | 40251 | 48301 | 65866 | 82332 | 98798 | 109776 | 131731 | 670 |
| 680 | 7499 | 9374 | 11537 | 14422 | 16224 | 21632 | 27040 | 32448 | 39659 | 47591 | 64897 | 81121 | 97345 | 108162 | 129794 | 680 |
| 690 | 7391 | 9238 | 11370 | 14213 | 15989 | 21319 | 26649 | 31978 | 39084 | 46901 | 63956 | 79946 | 95935 | 106594 | 127913 | 690 |
| 700 | 7285 | 9106 | 11208 | 14009 | 15761 | 21014 | 26268 | 31521 | 38526 | 46231 | 63043 | 78803 | 94564 | 105071 | 126086 | 700 |
| 710 | 7182 | 8978 | 11050 | 13812 | 15539 | 20718 | 25898 | 31077 | 37984 | 45580 | 62155 | 77694 | 93232 | 103591 | 124310 | 710 |
| 720 | 7083 | 8853 | 10896 | 13620 | 15323 | 20431 | 25538 | 30646 | 37456 | 44947 | 61292 | 76614 | 91937 | 102153 | 122583 | 720 |
| 730 | 6986 | 8732 | 10747 | 13434 | 15113 | 20151 | 25188 | 30226 | 36943 | 44331 | 60452 | 75565 | 90678 | 100753 | 120904 | 730 |
| 740 | 6891 | 8614 | 10602 | 13252 | 14909 | 19878 | 24848 | 29818 | 36444 | 43732 | 59635 | 74544 | 89453 | 99392 | 119270 | 740 |
| 750 | 6799 | 8499 | 10460 | 13076 | 14710 | 19613 | 24517 | 29420 | 35958 | 43149 | 58840 | 73550 | 88260 | 98066 | 117680 | 750 |

| SIZE | CF-20 | CF-21 | CF-22 | CF-23 | CG-24 | CG-25 | CG-26 | CG-27 | CG-28 | CG-29 | CC-30 | CC-31 | CC-32 | CI-33 | CI-34 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

DO NOT SELECT TYPES V1, V2 OR VFM ABOVE THE BLACK LINE.
DO NOT SELECT TYPES H1 OR VU1 BELOW THE RED LINE.
DO NOT SELECT H1 OR VU1 FOR SIZES CH - 30 & ABOVE.
REMEMBER TO ADD OVERTRAVEL ALLOWANCE TO PIPE MOVEMENT BEFORE SELECTING SUPPORT SIZE.

# CONSTANT SUPPORT SELECTION CHART (LOADS IN kgf)

| SIZE / TRAVEL | CA-1 | CA-2 | CA-3 | CA-4 | CB-5 | CB-6 | CB-7 | CC-8 | CC-9 | CC-10 | CD-11 | CD-12 | CD-13 | CD-14 | CD-15 | CE-16 | CE-17 | CE-18 | CE-19 | TRAVEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **40** | 74 | 102 | 134 | 187 | 235 | 331 | 426 | 471 | 661 | 853 | 1129 | 1506 | 2006 | | | | | | | **40** |
| **50** | 59 | 82 | 107 | 150 | 188 | 264 | 341 | 376 | 529 | 682 | 903 | 1205 | 1605 | 2168 | 3024 | | | | | **50** |
| **60** | 49 | 68 | 89 | 125 | 157 | 220 | 284 | 314 | 441 | 569 | 753 | 1004 | 1337 | 1806 | 2520 | 3417 | 4333 | | | **60** |
| **70** | 42 | 58 | 77 | 107 | 134 | 189 | 244 | 269 | 378 | 487 | 645 | 860 | 1146 | 1548 | 2160 | 2929 | 3714 | 4571 | 5714 | **70** |
| **80** | 37 | 51 | 67 | 94 | 118 | 165 | 213 | 235 | 331 | 426 | 565 | 753 | 1003 | 1355 | 1890 | 2563 | 3250 | 4000 | 5000 | **80** |
| **90** | 33 | 45 | 60 | 83 | 105 | 147 | 190 | 209 | 294 | 379 | 502 | 669 | 892 | 1204 | 1680 | 2278 | 2889 | 3556 | 4444 | **90** |
| **100** | 30 | 41 | 54 | 75 | 94 | 132 | 171 | 188 | 264 | 341 | 452 | 602 | 802 | 1084 | 1512 | 2050 | 2600 | 3200 | 4000 | **100** |
| **110** | 27 | 37 | 49 | 68 | 86 | 120 | 155 | 171 | 240 | 310 | 411 | 548 | 730 | 985 | 1375 | 1864 | 2364 | 2909 | 3636 | **110** |
| **120** | 25 | 34 | 45 | 62 | 78 | 110 | 142 | 157 | 220 | 284 | 376 | 502 | 669 | 903 | 1260 | 1708 | 2167 | 2667 | 3333 | **120** |
| **130** | 23 | 31 | 41 | 58 | 72 | 102 | 131 | 145 | 203 | 262 | 347 | 463 | 617 | 834 | 1163 | 1577 | 2000 | 2462 | 3077 | **130** |
| **140** | 21 | 29 | 38 | 54 | 67 | 94 | 122 | 134 | 189 | 244 | 323 | 430 | 573 | 774 | 1080 | 1464 | 1857 | 2286 | 2857 | **140** |
| **150** | 20 | 27 | 36 | 50 | 63 | 88 | 114 | 125 | 176 | 227 | 301 | 402 | 535 | 723 | 1008 | 1367 | 1733 | 2133 | 2667 | **150** |
| **160** | 18 | 26 | 34 | 47 | 59 | 83 | 107 | 118 | 165 | 213 | 282 | 376 | 502 | 677 | 945 | 1281 | 1625 | 2000 | 2500 | **160** |
| **170** | 17 | 24 | 32 | 44 | 55 | 78 | 100 | 111 | 156 | 201 | 266 | 354 | 472 | 638 | 890 | 1206 | 1529 | 1882 | 2353 | **170** |
| **180** | 16 | 23 | 30 | 42 | 52 | 73 | 95 | 105 | 147 | 190 | 251 | 335 | 446 | 602 | 840 | 1139 | 1444 | 1778 | 2222 | **180** |
| **190** | 16 | 21 | 28 | 39 | 50 | 70 | 90 | 99 | 139 | 180 | 238 | 317 | 422 | 570 | 796 | 1079 | 1368 | 1684 | 2105 | **190** |
| **200** | 15 | 20 | 27 | 37 | 47 | 66 | 85 | 94 | 132 | 171 | 226 | 301 | 401 | 542 | 756 | 1025 | 1300 | 1600 | 2000 | **200** |
| **210** | 14 | 19 | 26 | 36 | 45 | 63 | 81 | 90 | 126 | 162 | 215 | 287 | 382 | 516 | 720 | 976 | 1238 | 1524 | 1905 | **210** |
| **220** | 13 | 19 | 24 | 34 | 43 | 60 | 78 | 86 | 120 | 155 | 205 | 274 | 365 | 493 | 687 | 932 | 1182 | 1455 | 1818 | **220** |
| **230** | 13 | 18 | 23 | 33 | 41 | 57 | 74 | 82 | 115 | 148 | 196 | 262 | 349 | 471 | 657 | 891 | 1130 | 1391 | 1739 | **230** |
| **240** | 12 | 17 | 22 | 31 | 39 | 55 | 71 | 78 | 110 | 142 | 188 | 251 | 334 | 452 | 630 | 854 | 1083 | 1333 | 1667 | **240** |
| **250** | 12 | 16 | 21 | 30 | 38 | 53 | 68 | 75 | 106 | 136 | 181 | 241 | 321 | 434 | 605 | 820 | 1040 | 1280 | 1600 | **250** |
| **260** | 11 | 16 | 21 | 29 | 36 | 51 | 66 | 72 | 102 | 131 | 174 | 232 | 309 | 417 | 582 | 788 | 1000 | 1231 | 1538 | **260** |
| **270** | 11 | 15 | 20 | 28 | 35 | 49 | 63 | 70 | 98 | 126 | 167 | 223 | 297 | 401 | 560 | 759 | 963 | 1185 | 1481 | **270** |
| **280** | 11 | 15 | 19 | 27 | 34 | 47 | 61 | 67 | 94 | 122 | 161 | 215 | 287 | 387 | 540 | 732 | 929 | 1143 | 1429 | **280** |
| **290** | 10 | 14 | 19 | 26 | 32 | 46 | 59 | 65 | 91 | 118 | 156 | 208 | 277 | 374 | 521 | 707 | 897 | 1103 | 1379 | **290** |
| **300** | 10 | 14 | 18 | 25 | 31 | 44 | 57 | 63 | 88 | 114 | 151 | 201 | 267 | 361 | 504 | 683 | 867 | 1067 | 1333 | **300** |
| **310** | | | | | 30 | 43 | 55 | 61 | 85 | 110 | 146 | 194 | 259 | 350 | 488 | 661 | 839 | 1032 | 1290 | **310** |
| **320** | | | | | 29 | 41 | 53 | 59 | 83 | 107 | 141 | 188 | 251 | 339 | 473 | 641 | 813 | 1000 | 1250 | **320** |
| **330** | | | | | 29 | 40 | 52 | 57 | 80 | 103 | 137 | 183 | 243 | 328 | 458 | 621 | 788 | 970 | 1212 | **330** |
| **340** | | | | | 28 | 39 | 50 | 55 | 78 | 100 | 133 | 177 | 236 | 319 | 445 | 603 | 765 | 941 | 1176 | **340** |
| **350** | | | | | 27 | 38 | 49 | 54 | 76 | 97 | 129 | 172 | 229 | 310 | 432 | 586 | 743 | 914 | 1143 | **350** |
| **360** | | | | | 26 | 37 | 47 | 52 | 73 | 95 | 125 | 167 | 223 | 301 | 420 | 569 | 722 | 889 | 1111 | **360** |
| **370** | | | | | 25 | 36 | 46 | 51 | 71 | 92 | 122 | 163 | 217 | 293 | 409 | 554 | 703 | 865 | 1081 | **370** |
| **380** | | | | | 25 | 35 | 45 | 50 | 70 | 90 | 119 | 159 | 211 | 285 | 398 | 539 | 684 | 842 | 1053 | **380** |
| **390** | | | | | 24 | 34 | 44 | 48 | 68 | 87 | 116 | 154 | 206 | 278 | 388 | 526 | 667 | 821 | 1026 | **390** |
| **400** | | | | | 24 | 33 | 43 | 47 | 66 | 85 | 113 | 151 | 201 | 271 | 378 | 513 | 650 | 800 | 1000 | **400** |
| **410** | | | | | | | | 46 | 65 | 83 | 110 | 147 | 196 | 264 | 369 | 500 | 634 | 780 | 976 | **410** |
| **420** | | | | | | | | 45 | 63 | 81 | 108 | 143 | 191 | 258 | 360 | 488 | 619 | 762 | 952 | **420** |
| **430** | | | | | | | | 44 | 62 | 79 | 105 | 140 | 187 | 252 | 352 | 477 | 605 | 744 | 930 | **430** |
| **440** | | | | | | | | 43 | 60 | 78 | 103 | 137 | 182 | 246 | 344 | 466 | 591 | 727 | 909 | **440** |
| **450** | | | | | | | | 42 | 59 | 76 | 100 | 134 | 178 | 241 | 336 | 456 | 578 | 711 | 889 | **450** |
| **460** | | | | | | | | 41 | 57 | 74 | 98 | 131 | 174 | 236 | 329 | 446 | 565 | 696 | 870 | **460** |
| **470** | | | | | | | | 40 | 56 | 73 | 96 | 128 | 171 | 231 | 322 | 436 | 553 | 681 | 851 | **470** |
| **480** | | | | | | | | 39 | 55 | 71 | 94 | 125 | 167 | 226 | 315 | 427 | 542 | 667 | 833 | **480** |
| **490** | | | | | | | | 38 | 54 | 70 | 92 | 123 | 164 | 221 | 309 | 418 | 531 | 653 | 816 | **490** |
| **500** | | | | | | | | 38 | 53 | 68 | 90 | 120 | 160 | 217 | 302 | 410 | 520 | 640 | 800 | **500** |
| **510** | | | | | | | | | | | 89 | 118 | 157 | 213 | 297 | 402 | 510 | 627 | 784 | **510** |
| **520** | | | | | | | | | | | 87 | 116 | 154 | 208 | 291 | 394 | 500 | 615 | 769 | **520** |
| **530** | | | | | | | | | | | 85 | 114 | 151 | 204 | 285 | 387 | 491 | 604 | 755 | **530** |
| **540** | | | | | | | | | | | 84 | 112 | 149 | 201 | 280 | 380 | 481 | 593 | 741 | **540** |
| **550** | | | | | | | | | | | 82 | 110 | 146 | 197 | 275 | 373 | 473 | 582 | 727 | **550** |
| **560** | | | | | | | | | | | 81 | 108 | 143 | 194 | 270 | 366 | 464 | 571 | 714 | **560** |
| **570** | | | | | | | | | | | 79 | 106 | 141 | 190 | 265 | 360 | 456 | 561 | 702 | **570** |
| **580** | | | | | | | | | | | 78 | 104 | 138 | 187 | 261 | 353 | 448 | 552 | 690 | **580** |
| **590** | | | | | | | | | | | 77 | 102 | 136 | 184 | 256 | 347 | 441 | 542 | 678 | **590** |
| **600** | | | | | | | | | | | 75 | 100 | 134 | 181 | 252 | 342 | 433 | 533 | 667 | **600** |
| **610** | | | | | | | | | | | | | | | | 336 | 426 | 525 | 656 | **610** |
| **620** | | | | | | | | | | | | | | | | 331 | 419 | 516 | 645 | **620** |
| **630** | | | | | | | | | | | | | | | | 325 | 413 | 508 | 635 | **630** |
| **640** | | | | | | | | | | | | | | | | 320 | 406 | 500 | 625 | **640** |
| **650** | | | | | | | | | | | | | | | | 315 | 400 | 492 | 615 | **650** |
| **660** | | | | | | | | | | | | | | | | 311 | 394 | 485 | 606 | **660** |
| **670** | | | | | | | | | | | | | | | | 306 | 388 | 478 | 597 | **670** |
| **680** | | | | | | | | | | | | | | | | 301 | 382 | 471 | 588 | **680** |
| **690** | | | | | | | | | | | | | | | | 297 | 377 | 464 | 580 | **690** |
| **700** | | | | | | | | | | | | | | | | 293 | 371 | 457 | 571 | **700** |
| **710** | | | | | | | | | | | | | | | | 289 | 366 | 451 | 563 | **710** |
| **720** | | | | | | | | | | | | | | | | 285 | 361 | 444 | 556 | **720** |
| **730** | | | | | | | | | | | | | | | | 281 | 356 | 438 | 548 | **730** |
| **740** | | | | | | | | | | | | | | | | 277 | 351 | 432 | 541 | **740** |
| **750** | | | | | | | | | | | | | | | | 273 | 347 | 427 | 533 | **750** |


| SIZE | CA-1 | CA-2 | CA-3 | CA-4 | CB-5 | CB-6 | CB-7 | CC-8 | CC-9 | CC-10 | CD-11 | CD-12 | CD-13 | CD-14 | CD-15 | CE-16 | CE-17 | CE-18 | CE-19 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|




DO NOT SELECT TYPES V1, V2 OR VFM ABOVE THE BLACK LINE.
DO NOT SELECT TYPES H1 OR VU1 BELOW THE RED LINE.
DO NOT SELECT H1 OR VU1 FOR SIZES CH - 30 & ABOVE.
REMEMBER TO ADD OVERTRAVEL ALLOWANCE TO PIPE MOVEMENT BEFORE SELECTING SUPPORT SIZE.

# CONSTANT SUPPORT SELECTION CHART (LOADS IN kgf)

| SIZE / TRAVEL | CF-20 | CF-21 | CF-22 | CF-23 | CG-24 | CG-25 | CG-26 | CG-27 | CG-28 | CG-29 | CH-30 | CH-31 | CH-32 | CI-33 | CI-34 | TRAVEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | | | | | | | | | | | | | | | | 40 |
| 50 | | | | | | | | | | | | | | | | 50 |
| 60 | | | | | | | | | | | | | | | | 60 |
| 70 | | | | | | | | | | | | | | | | 70 |
| 80 | 6500 | 8125 | | | | | | | | | | | | | | 80 |
| 90 | 5778 | 7222 | 8889 | 11111 | 12500 | 16667 | | | | | | | | | | 90 |
| 100 | 5200 | 6500 | 8000 | 10000 | 11250 | 15000 | | | | | | | | | | 100 |
| 110 | 4727 | 5909 | 7273 | 9091 | 10227 | 13636 | 17045 | | | | | | | | | 110 |
| 120 | 4333 | 5417 | 6667 | 8333 | 9375 | 12500 | 15625 | 18750 | 22917 | | | | | | | 120 |
| 130 | 4000 | 5000 | 6154 | 7692 | 8654 | 11538 | 14423 | 17308 | 21154 | 25385 | | | | | | 130 |
| 140 | 3714 | 4643 | 5714 | 7143 | 8036 | 10714 | 13393 | 16071 | 19643 | 23571 | | | | | | 140 |
| 150 | 3467 | 4333 | 5333 | 6667 | 7500 | 10000 | 12500 | 15000 | 18333 | 22000 | 30000 | | | | | 150 |
| 160 | 3250 | 4063 | 5000 | 6250 | 7031 | 9375 | 11719 | 14063 | 17188 | 20625 | 28125 | 35156 | | | | 160 |
| 170 | 3059 | 3824 | 4706 | 5882 | 6618 | 8824 | 11029 | 13235 | 16176 | 19412 | 26471 | 33088 | 39706 | 44118 | 52941 | 170 |
| 180 | 2889 | 3611 | 4444 | 5556 | 6250 | 8333 | 10417 | 12500 | 15278 | 18333 | 25000 | 31250 | 37500 | 41667 | 50000 | 180 |
| 190 | 2737 | 3421 | 4211 | 5263 | 5921 | 7895 | 9868 | 11842 | 14474 | 17368 | 23684 | 29605 | 35526 | 39474 | 47368 | 190 |
| 200 | 2600 | 3250 | 4000 | 5000 | 5625 | 7500 | 9375 | 11250 | 13750 | 16500 | 22500 | 28125 | 33750 | 37500 | 45000 | 200 |
| 210 | 2476 | 3095 | 3810 | 4762 | 5357 | 7143 | 8929 | 10714 | 13095 | 15714 | 21429 | 26786 | 32143 | 35714 | 42857 | 210 |
| 220 | 2364 | 2955 | 3636 | 4545 | 5114 | 6818 | 8523 | 10227 | 12500 | 15000 | 20455 | 25568 | 30682 | 34091 | 40909 | 220 |
| 230 | 2261 | 2826 | 3478 | 4348 | 4891 | 6522 | 8152 | 9783 | 11957 | 14348 | 19565 | 24457 | 29348 | 32609 | 39130 | 230 |
| 240 | 2167 | 2708 | 3333 | 4167 | 4688 | 6250 | 7813 | 9375 | 11458 | 13750 | 18750 | 23438 | 28125 | 31250 | 37500 | 240 |
| 250 | 2080 | 2600 | 3200 | 4000 | 4500 | 6000 | 7500 | 9000 | 11000 | 13200 | 18000 | 22500 | 27000 | 30000 | 36000 | 250 |
| 260 | 2000 | 2500 | 3077 | 3846 | 4327 | 5769 | 7212 | 8654 | 10577 | 12692 | 17308 | 21635 | 25962 | 28846 | 34615 | 260 |
| 270 | 1926 | 2407 | 2963 | 3704 | 4167 | 5556 | 6944 | 8333 | 10185 | 12222 | 16667 | 20833 | 25000 | 27778 | 33333 | 270 |
| 280 | 1857 | 2321 | 2857 | 3571 | 4018 | 5357 | 6696 | 8036 | 9821 | 11786 | 16071 | 20089 | 24107 | 26786 | 32143 | 280 |
| 290 | 1793 | 2241 | 2759 | 3448 | 3879 | 5172 | 6466 | 7759 | 9483 | 11379 | 15517 | 19397 | 23276 | 25862 | 31034 | 290 |
| 300 | 1733 | 2167 | 2667 | 3333 | 3750 | 5000 | 6250 | 7500 | 9167 | 11000 | 15000 | 18750 | 22500 | 25000 | 30000 | 300 |
| 310 | 1677 | 2097 | 2581 | 3226 | 3629 | 4839 | 6048 | 7258 | 8871 | 10645 | 14516 | 18145 | 21774 | 24194 | 29032 | 310 |
| 320 | 1625 | 2031 | 2500 | 3125 | 3516 | 4688 | 5859 | 7031 | 8594 | 10313 | 14063 | 17578 | 21094 | 23438 | 28125 | 320 |
| 330 | 1576 | 1970 | 2424 | 3030 | 3409 | 4545 | 5682 | 6818 | 8333 | 10000 | 13636 | 17045 | 20455 | 22727 | 27273 | 330 |
| 340 | 1529 | 1912 | 2353 | 2941 | 3309 | 4412 | 5515 | 6618 | 8088 | 9706 | 13235 | 16544 | 19853 | 22059 | 26471 | 340 |
| 350 | 1486 | 1857 | 2286 | 2857 | 3214 | 4286 | 5357 | 6429 | 7857 | 9429 | 12857 | 16071 | 19286 | 21429 | 25714 | 350 |
| 360 | 1444 | 1806 | 2222 | 2778 | 3125 | 4167 | 5208 | 6250 | 7639 | 9167 | 12500 | 15625 | 18750 | 20833 | 25000 | 360 |
| 370 | 1405 | 1757 | 2162 | 2703 | 3041 | 4054 | 5068 | 6081 | 7432 | 8919 | 12162 | 15203 | 18243 | 20270 | 24324 | 370 |
| 380 | 1368 | 1711 | 2105 | 2632 | 2961 | 3947 | 4934 | 5921 | 7237 | 8684 | 11842 | 14803 | 17763 | 19737 | 23684 | 380 |
| 390 | 1333 | 1667 | 2051 | 2564 | 2885 | 3846 | 4808 | 5769 | 7051 | 8462 | 11538 | 14423 | 17308 | 19231 | 23077 | 390 |
| 400 | 1300 | 1625 | 2000 | 2500 | 2813 | 3750 | 4688 | 5625 | 6875 | 8250 | 11250 | 14063 | 16875 | 18750 | 22500 | 400 |
| 410 | 1268 | 1585 | 1951 | 2439 | 2744 | 3659 | 4573 | 5488 | 6707 | 8049 | 10976 | 13720 | 16463 | 18293 | 21951 | 410 |
| 420 | 1238 | 1548 | 1905 | 2381 | 2679 | 3571 | 4464 | 5357 | 6548 | 7857 | 10714 | 13393 | 16071 | 17857 | 21429 | 420 |
| 430 | 1209 | 1512 | 1860 | 2326 | 2616 | 3488 | 4360 | 5233 | 6395 | 7674 | 10465 | 13081 | 15698 | 17442 | 20930 | 430 |
| 440 | 1182 | 1477 | 1818 | 2273 | 2557 | 3409 | 4261 | 5114 | 6250 | 7500 | 10227 | 12784 | 15341 | 17045 | 20455 | 440 |
| 450 | 1156 | 1444 | 1778 | 2222 | 2500 | 3333 | 4167 | 5000 | 6111 | 7333 | 10000 | 12500 | 15000 | 16667 | 20000 | 450 |
| 460 | 1130 | 1413 | 1739 | 2174 | 2446 | 3261 | 4076 | 4891 | 5978 | 7174 | 9783 | 12228 | 14674 | 16304 | 19565 | 460 |
| 470 | 1106 | 1383 | 1702 | 2128 | 2394 | 3191 | 3989 | 4787 | 5851 | 7021 | 9574 | 11968 | 14362 | 15957 | 19149 | 470 |
| 480 | 1083 | 1354 | 1667 | 2083 | 2344 | 3125 | 3906 | 4688 | 5729 | 6875 | 9375 | 11719 | 14063 | 15625 | 18750 | 480 |
| 490 | 1061 | 1327 | 1633 | 2041 | 2296 | 3061 | 3827 | 4592 | 5612 | 6735 | 9184 | 11480 | 13776 | 15306 | 18367 | 490 |
| 500 | 1040 | 1300 | 1600 | 2000 | 2250 | 3000 | 3750 | 4500 | 5500 | 6600 | 9000 | 11250 | 13500 | 15000 | 18000 | 500 |
| 510 | 1020 | 1275 | 1569 | 1961 | 2206 | 2941 | 3676 | 4412 | 5392 | 6471 | 8824 | 11029 | 13235 | 14706 | 17647 | 510 |
| 520 | 1000 | 1250 | 1538 | 1923 | 2163 | 2885 | 3606 | 4327 | 5288 | 6346 | 8654 | 10817 | 12981 | 14423 | 17308 | 520 |
| 530 | 981 | 1226 | 1509 | 1887 | 2123 | 2830 | 3538 | 4245 | 5189 | 6226 | 8491 | 10613 | 12736 | 14151 | 16981 | 530 |
| 540 | 963 | 1204 | 1481 | 1852 | 2083 | 2778 | 3472 | 4167 | 5093 | 6111 | 8333 | 10417 | 12500 | 13889 | 16667 | 540 |
| 550 | 945 | 1182 | 1455 | 1818 | 2045 | 2727 | 3409 | 4091 | 5000 | 6000 | 8182 | 10227 | 12273 | 13636 | 16364 | 550 |
| 560 | 929 | 1161 | 1429 | 1786 | 2009 | 2679 | 3348 | 4018 | 4911 | 5893 | 8036 | 10045 | 12054 | 13393 | 16071 | 560 |
| 570 | 912 | 1140 | 1404 | 1754 | 1974 | 2632 | 3289 | 3947 | 4825 | 5789 | 7895 | 9868 | 11842 | 13158 | 15789 | 570 |
| 580 | 897 | 1121 | 1379 | 1724 | 1940 | 2586 | 3233 | 3879 | 4741 | 5690 | 7759 | 9698 | 11638 | 12931 | 15517 | 580 |
| 590 | 881 | 1102 | 1356 | 1695 | 1907 | 2542 | 3178 | 3814 | 4661 | 5593 | 7627 | 9534 | 11441 | 12712 | 15254 | 590 |
| 600 | 867 | 1083 | 1333 | 1667 | 1875 | 2500 | 3125 | 3750 | 4583 | 5500 | 7500 | 9375 | 11250 | 12500 | 15000 | 600 |
| 610 | 852 | 1066 | 1311 | 1639 | 1844 | 2459 | 3074 | 3689 | 4508 | 5410 | 7377 | 9221 | 11066 | 12295 | 14754 | 610 |
| 620 | 839 | 1048 | 1290 | 1613 | 1815 | 2419 | 3024 | 3629 | 4435 | 5323 | 7258 | 9073 | 10887 | 12097 | 14516 | 620 |
| 630 | 825 | 1032 | 1270 | 1587 | 1786 | 2381 | 2976 | 3571 | 4365 | 5238 | 7143 | 8929 | 10714 | 11905 | 14286 | 630 |
| 640 | 813 | 1016 | 1250 | 1563 | 1758 | 2344 | 2930 | 3516 | 4297 | 5156 | 7031 | 8789 | 10547 | 11719 | 14063 | 640 |
| 650 | 800 | 1000 | 1231 | 1538 | 1731 | 2308 | 2885 | 3462 | 4231 | 5077 | 6923 | 8654 | 10385 | 11538 | 13846 | 650 |
| 660 | 788 | 985 | 1212 | 1515 | 1705 | 2273 | 2841 | 3409 | 4167 | 5000 | 6818 | 8523 | 10227 | 11364 | 13636 | 660 |
| 670 | 776 | 970 | 1194 | 1493 | 1679 | 2239 | 2799 | 3358 | 4104 | 4925 | 6716 | 8396 | 10075 | 11194 | 13433 | 670 |
| 680 | 765 | 956 | 1176 | 1471 | 1654 | 2206 | 2757 | 3309 | 4044 | 4853 | 6618 | 8272 | 9926 | 11029 | 13235 | 680 |
| 690 | 754 | 942 | 1159 | 1449 | 1630 | 2174 | 2717 | 3261 | 3986 | 4783 | 6522 | 8152 | 9783 | 10870 | 13043 | 690 |
| 700 | 743 | 929 | 1143 | 1429 | 1607 | 2143 | 2679 | 3214 | 3929 | 4714 | 6429 | 8036 | 9643 | 10714 | 12857 | 700 |
| 710 | 732 | 915 | 1127 | 1408 | 1585 | 2113 | 2641 | 3169 | 3873 | 4648 | 6338 | 7923 | 9507 | 10563 | 12676 | 710 |
| 720 | 722 | 903 | 1111 | 1389 | 1563 | 2083 | 2604 | 3125 | 3819 | 4583 | 6250 | 7813 | 9375 | 10417 | 12500 | 720 |
| 730 | 712 | 890 | 1096 | 1370 | 1541 | 2055 | 2568 | 3082 | 3767 | 4521 | 6164 | 7705 | 9247 | 10274 | 12329 | 730 |
| 740 | 703 | 878 | 1081 | 1351 | 1520 | 2027 | 2534 | 3041 | 3716 | 4459 | 6081 | 7601 | 9122 | 10135 | 12162 | 740 |
| 750 | 693 | 867 | 1067 | 1333 | 1500 | 2000 | 2500 | 3000 | 3667 | 4400 | 6000 | 7500 | 9000 | 10000 | 12000 | 750 |

| SIZE | CF-20 | CF-21 | CF-22 | CF-23 | CG-24 | CG-25 | CG-26 | CG-27 | CG-28 | CG-29 | CC-30 | CC-31 | CC-32 | CI-33 | CI-34 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

DO NOT SELECT TYPES V1, V2 OR VFM ABOVE THE BLACK LINE.
DO NOT SELECT TYPES H1 OR VU1 BELOW THE RED LINE.
DO NOT SELECT H1 OR VU1 FOR SIZES CH - 30 & ABOVE.
REMEMBER TO ADD OVERTRAVEL ALLOWANCE TO PIPE MOVEMENT BEFORE SELECTING SUPPORT SIZE.

# CA: DIMENSIONS FOR SIZES CA-1 TO CA-4

## MOVEMENT DEPENDENT DIMENSIONS

| | MOVEMENT PROVIDED mm | 40–120 | 130–210 | 220–300 |
|---|---|---|---|---|
| TRAVEL RANGE DEPENDENT DIMENSIONS | U | 105 | 105 | 205 |
| | TA | 205 | 325 | 446 |
| | TB | 135 | 200 | 270 |
| | TC | 130 | 130 | 230 |
| | TD | 60 | 80 | 100 |
| | TE | 135 | 205 | 270 |
| | TF | 150 | 215 | 275 |
| | TG | 65 | 90 | 110 |
| | TH | 65 | 90 | 110 |
| | TJ | 100 | 100 | 128 |

## TOP SUSPENSION DETAILS

| | |
|---|---|
| DD | 14 |
| AA | 30 |
| BB | 20 |
| CC | 50 |
| EE | 6 |
| GG | 20 |
| LL | M12 |

## FIXED DIMENSIONS

| | | | | | |
|---|---|---|---|---|---|
| FA | 155 | FQ | 75 | XE | 14 |
| FB | 85 | FR | 180 | XF | 190 |
| FC | 45 | FS | 180 | XG | 105 |
| FD | 25 | FT | 105 | XH | 55 |
| FE | 122 | FU | 35 | XJ | 150 |
| FF | 6 | FV | 140 | XK | 200 |
| FG | 35 | FW | 14 | XL | 14 |
| FH | 14 | FX | 60 | XM | 75 |
| FJ | 20 | FY | 80 | XN | 10 |
| FK | 180 | FZ | 180 | XP | 100 |
| FL | 140 | XA | 245 | XQ | 104 |
| FM | 6 | XB | 105 | XR | 100 |
| FN | 75 | XC | 100 | | |
| FP | 40 | XD | 140 | | |

## SPRING SIZE DEPENDENT DIMENSIONS

| | CA–1 | CA–2 | CA–3 | CA–4 |
|---|---|---|---|---|
| SA | 132 | 150 | 162 | 184 |
| SB | 142 | 160 | 172 | 194 |
| SC | 180 | 200 | 210 | 235 |
| SD | 195 | 215 | 225 | 250 |
| SE | 195 | 215 | 225 | 250 |
| SF | 105 | 105 | 105 | 110 |

## WEIGHTS (kgf)

| | CA–1 | CA–2 | CA–3 | CA–4 |
|---|---|---|---|---|
| H1/H2 | 9 | 10 | 10 | 11 |
| V1/V2 | 11 | 11 | 12 | 12 |
| VU1/VU2 | 11 | 11 | 11 | 12 |
| HFMT | 11 | 11 | 12 | 12 |
| HFMH | 9 | 9 | 10 | 10 |
| VFM | 10 | 10 | 10 | 11 |
| VFMT | 13 | 13 | 13 | 14 |
| VUB | 10 | 10 | 11 | 11 |

## SINGLE POINT SUSPENSION DIMENSION 'V'

| MOVEMENT PROVIDED mm | ALL SIZES | | CA–1 | CA–2 | CA–3 | CA–4 |
|---|---|---|---|---|---|---|
| | V1 | V3 | V2 | V2 | V2 | V2 |
| 40 | 41 | 45 | | | | |
| 50 | 50 | 55 | | | | |
| 60 | 59 | 65 | 58 | 61 | 63 | 65 |
| 70 | 68 | 74 | 66 | 70 | 73 | 75 |
| 80 | 76 | 82 | 74 | 78 | 82 | 85 |
| 90 | 83 | 91 | 81 | 86 | 90 | 94 |
| 100 | 91 | 99 | 88 | 94 | 99 | 103 |
| 110 | 98 | 107 | 94 | 102 | 107 | 112 |
| 120 | 106 | 114 | 100 | 109 | 115 | 121 |
| 130 | TYPES H1 AND VU1 ARE NOT USED ABOVE 120mm TRAVEL | | 106 | 116 | 122 | 129 |
| 140 | | | 112 | 122 | 130 | 138 |
| 150 | | | 117 | 129 | 137 | 146 |
| 160 | | | 123 | 135 | 144 | 153 |
| 170 | | | 128 | 141 | 151 | 161 |
| 180 | | | 132 | 147 | 157 | 169 |
| 190 | | | 137 | 153 | 164 | 176 |
| 200 | | | 142 | 158 | 170 | 183 |
| 210 | | | 146 | 164 | 176 | 190 |
| 220 | | | 150 | 169 | 182 | 197 |
| 230 | | | 154 | 174 | 188 | 204 |
| 240 | | | 158 | 179 | 194 | 210 |
| 250 | | | 162 | 183 | 199 | 217 |
| 260 | | | 166 | 188 | 205 | 223 |
| 270 | | | 170 | 193 | 210 | 229 |
| 280 | | | 173 | 197 | 215 | 235 |
| 290 | | | 177 | 201 | 220 | 241 |
| 300 | | | 180 | 206 | 225 | 247 |

INSTALLED HEIGHT DIMENSIONS J4 AND J7 ALLOW ±25mm ADJUSTMENT.

TAKE-OUT DIMENSIONS A1, A2, A3, J5, J6 AND J8 ALLOW ±75mm ADJUSTMENT.

WHERE SEVERE HEADROOM LIMITATIONS EXIST, DIMENSIONS A1, A2 AND A3 CAN BE REDUCED AND DIMENSIONS J5, J6 AND J8 INCREASED AS FOLLOWS BY USE OF A SHORTENED EYEBOLT:

| ØX | M12 |
|---|---|
| CHANGE mm | 160 |

NOTE DIA. X IS THREADED ISO METRIC COARSE RIGHT HAND AS STANDARD. NOTE THAT DIMENSIONS A1, A2, A3, J4, J5, J6, J7 AND J8 ARE GIVEN AT ZERO ROTATION, THAT IS WITH THE LEVER IN THE UPPERMOST POSITION.

N.B. DIMENSION TA IS THE MINIMUM FORWARD CLEARANCE REQUIRED.

# CA: DIMENSIONS FOR SIZES CA-1 TO CA-4

| MOVEMENT PROVIDED mm | ALL SIZES | | | | | | | | CA-1 | | | | CA-2 | | | | CA-3 | | | | CA-4 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ALL | | | H1 H2 | V1 V2 | HFMT | HFMH | VUB | | VU1 VU2 | VFM | VFMT | | VU1 VU2 | VFM | VFMT | | VU1 VU2 | VFM | VFMT | | VU1 VU2 | VFM | VFMT |
| | C mm | D mm | E mm | A1 mm | A2 mm | J4 mm | J5 mm | J8 mm | ØX mm | A3 mm | J6 mm | J7 mm | ØX mm | A3 mm | J6 mm | J7 mm | ØX mm | A3 mm | J6 mm | J7 mm | ØX mm | A3 mm | J6 mm | J7 mm |
| | | AT ZERO ROTATION | | | | | | | | AT 0° ROTATION | | | | AT 0° ROTATION | | | | AT 0° ROTATION | | | | AT 0° ROTATION | | |
| 40 | 54 | 44 | 31 | 479 | | 307 | -279 | -279 | M12 | 586 | | 422 | M12 | 604 | | 442 | M12 | 616 | | 452 | M12 | 638 | | 477 |
| 50 | 67 | 55 | 38 | 472 | | 314 | -272 | -272 | M12 | 579 | | 429 | M12 | 597 | | 449 | M12 | 609 | | 459 | M12 | 631 | | 484 |
| 60 | 80 | 66 | 46 | 464 | 464 | 322 | -264 | -264 | M12 | 571 | -134 | 437 | M12 | 589 | -114 | 457 | M12 | 601 | -104 | 467 | M12 | 623 | -79 | 492 |
| 70 | 94 | 77 | 54 | 456 | 456 | 330 | -256 | -256 | M12 | 563 | -126 | 445 | M12 | 581 | -106 | 465 | M12 | 593 | -96 | 475 | M12 | 615 | -71 | 500 |
| 80 | 107 | 88 | 61 | 449 | 449 | 337 | -249 | -249 | M12 | 556 | -119 | 452 | M12 | 574 | -99 | 472 | M12 | 586 | -89 | 482 | M12 | 608 | -64 | 507 |
| 90 | 120 | 99 | 69 | 441 | 441 | 345 | -241 | -241 | M12 | 548 | -111 | 460 | M12 | 566 | -91 | 480 | M12 | 578 | -81 | 490 | M12 | 600 | -56 | 515 |
| 100 | 134 | 110 | 77 | 433 | 433 | 353 | -233 | -233 | M12 | 540 | -103 | 468 | M12 | 558 | -83 | 488 | M12 | 570 | -73 | 498 | M12 | 592 | -48 | 523 |
| 110 | 147 | 121 | 84 | 426 | 426 | 360 | -226 | -226 | M12 | 533 | -96 | 475 | M12 | 551 | -76 | 495 | M12 | 563 | -66 | 505 | M12 | 585 | -41 | 530 |
| 120 | 161 | 132 | 92 | 418 | 418 | 368 | -218 | -218 | M12 | 525 | -88 | 483 | M12 | 543 | -68 | 503 | M12 | 555 | -58 | 513 | M12 | 577 | -33 | 538 |
| 130 | 174 | 143 | 100 | 475 | 480 | 396 | -185 | -185 | M12 | 517 | -80 | 491 | M12 | 535 | -60 | 511 | M12 | 547 | -50 | 521 | M12 | 569 | -25 | 546 |
| 140 | 187 | 153 | 107 | 468 | 473 | 403 | -178 | -178 | M12 | 510 | -73 | 498 | M12 | 528 | -53 | 518 | M12 | 540 | -43 | 528 | M12 | 562 | -18 | 553 |
| 150 | 201 | 164 | 115 | 460 | 465 | 411 | -170 | -170 | M12 | 502 | -65 | 506 | M12 | 520 | -45 | 526 | M12 | 532 | -35 | 536 | M12 | 554 | -10 | 561 |
| 160 | 214 | 175 | 123 | 452 | 457 | 419 | -162 | -162 | M12 | 494 | -57 | 514 | M12 | 512 | -37 | 534 | M12 | 524 | -27 | 544 | M12 | 546 | -2 | 569 |
| 170 | 228 | 186 | 130 | 445 | 450 | 426 | -155 | -155 | M12 | 487 | -50 | 521 | M12 | 505 | -30 | 541 | M12 | 517 | -20 | 551 | M12 | 539 | 5 | 576 |
| 180 | 241 | 197 | 138 | 437 | 442 | 434 | -147 | -147 | M12 | 479 | -42 | 529 | M12 | 497 | -22 | 549 | M12 | 509 | -12 | 559 | M12 | 531 | 13 | 584 |
| 190 | 254 | 208 | 146 | 429 | 434 | 442 | -139 | -139 | M12 | 471 | -34 | 537 | M12 | 489 | -14 | 557 | M12 | 501 | -4 | 567 | M12 | 523 | 21 | 592 |
| 200 | 268 | 219 | 154 | 421 | 426 | 450 | -131 | -131 | M12 | 463 | -26 | 545 | M12 | 481 | -6 | 565 | M12 | 493 | 4 | 575 | M12 | 515 | 29 | 600 |
| 210 | 281 | 230 | 161 | 414 | 419 | 457 | -124 | -124 | M12 | 456 | -19 | 552 | M12 | 474 | 1 | 572 | M12 | 486 | 11 | 582 | M12 | 508 | 36 | 607 |
| 220 | 294 | 241 | 169 | 476 | 476 | 485 | -96 | -96 | M12 | 476 | -11 | 560 | M12 | 494 | 9 | 580 | M12 | 506 | 19 | 590 | M12 | 528 | 44 | 615 |
| 230 | 308 | 252 | 177 | 468 | 468 | 493 | -88 | -88 | M12 | 468 | -3 | 568 | M12 | 486 | 17 | 588 | M12 | 498 | 27 | 598 | M12 | 520 | 52 | 623 |
| 240 | 321 | 263 | 184 | 461 | 461 | 500 | -81 | -81 | M12 | 461 | 4 | 575 | M12 | 479 | 24 | 595 | M12 | 491 | 34 | 605 | M12 | 513 | 59 | 630 |
| 250 | 335 | 274 | 192 | 453 | 453 | 508 | -73 | -73 | M12 | 453 | 12 | 583 | M12 | 471 | 32 | 603 | M12 | 483 | 42 | 613 | M12 | 505 | 67 | 638 |
| 260 | 348 | 285 | 200 | 445 | 445 | 516 | -65 | -65 | M12 | 445 | 20 | 591 | M12 | 463 | 40 | 611 | M12 | 475 | 50 | 621 | M12 | 497 | 75 | 646 |
| 270 | 361 | 296 | 207 | 438 | 438 | 523 | -58 | -58 | M12 | 438 | 27 | 598 | M12 | 456 | 47 | 618 | M12 | 468 | 57 | 628 | M12 | 490 | 82 | 653 |
| 280 | 375 | 307 | 215 | 430 | 430 | 531 | -50 | -50 | M12 | 430 | 35 | 606 | M12 | 448 | 55 | 626 | M12 | 460 | 65 | 636 | M12 | 482 | 90 | 661 |
| 290 | 388 | 318 | 223 | 422 | 422 | 539 | -42 | -42 | M12 | 422 | 43 | 614 | M12 | 440 | 63 | 634 | M12 | 452 | 73 | 644 | M12 | 474 | 98 | 669 |
| 300 | 401 | 329 | 230 | 415 | 415 | 546 | -35 | -35 | M12 | 415 | 50 | 621 | M12 | 433 | 70 | 641 | M12 | 445 | 80 | 651 | M12 | 467 | 105 | 676 |

# CB: DIMENSIONS FOR SIZES CB-5 TO CB-7

## MOVEMENT DEPENDENT DIMENSIONS

| MOVEMENT PROVIDED mm | | 40–120 | 130–210 | 220–300 | 310–400 |
|---|---|---|---|---|---|
| TRAVEL RANGE DEPENDENT DIMENSIONS | U | 105 | 105 | 270 | 270 |
| | TA | 209 | 329 | 450 | 583 |
| | TB | 140 | 205 | 275 | 350 |
| | TC | 130 | 130 | 295 | 295 |
| | TD | 70 | 85 | 105 | 120 |
| | TE | 140 | 215 | 275 | 350 |
| | TF | 155 | 235 | 305 | 370 |
| | TG | 80 | 95 | 115 | 135 |
| | TH | 80 | 95 | 115 | 135 |
| | TJ | 120 | 120 | 120 | 168 |

## TOP SUSPENSION DETAILS

| | |
|---|---|
| DD | 14 |
| AA | 30 |
| BB | 20 |
| CC | 50 |
| EE | 6 |
| GG | 20 |
| LL | M12 |

## FIXED DIMENSIONS

| | | | | | |
|---|---|---|---|---|---|
| FA | 200 | FQ | 75 | XE | 14 |
| FB | 85 | FR | 180 | XF | 190 |
| FC | 55 | FS | 180 | XG | 105 |
| FD | 25 | FT | 105 | XH | 55 |
| FE | 164 | FU | 35 | XJ | 150 |
| FF | 6 | FV | 140 | XK | 200 |
| FG | 35 | FW | 14 | XL | 14 |
| FH | 14 | FX | 70 | XM | 80 |
| FJ | 20 | FY | 90 | XN | 10 |
| FK | 180 | FZ | 180 | XP | 110 |
| FL | 140 | XA | 265 | XQ | 104 |
| FM | 6 | XB | 105 | XR | 120 |
| FN | 80 | XC | 120 | | |
| FP | 50 | XD | 140 | | |

## SPRING SIZE DEPENDENT DIMENSIONS

| | | | |
|---|---|---|---|
| SA | 197 | 172 | 184 |
| SB | 207 | 182 | 194 |
| SC | 260 | 235 | 245 |
| SD | 275 | 250 | 260 |
| SE | 275 | 250 | 260 |
| SF | 130 | 130 | 130 |

## WEIGHTS (kgf)

| | CB –5 | CB –6 | CB –7 |
|---|---|---|---|
| H1/H2 | 16 | 16 | 16 |
| V1/V2 | 18 | 18 | 18 |
| VU1/VU2 | 19 | 19 | 19 |
| HFMT | 18 | 18 | 18 |
| HFMH | 16 | 16 | 16 |
| VFM | 17 | 17 | 17 |
| VFMT | 20 | 20 | 20 |
| VUB | 19 | 19 | 19 |

## SINGLE POINT SUSPENSION DIMENSION 'V'

| MOVEMENT PROVIDED mm | ALL SIZES | | CB –5 | CB –6 | CB –7 |
|---|---|---|---|---|---|
| | V1 | V3 | V2 | V2 | V2 |
| 40 | 42 | 47 | | | |
| 50 | 52 | 58 | | | |
| 60 | 61 | 69 | | | |
| 70 | 71 | 78 | | | |
| 80 | 79 | 88 | 82 | 87 | 88 |
| 90 | 88 | 98 | 91 | 96 | 99 |
| 100 | 97 | 107 | 100 | 106 | 109 |
| 110 | 106 | 116 | 108 | 115 | 118 |
| 120 | 114 | 125 | 116 | 124 | 128 |
| 130 | TYPES H1 AND VU1 ARE NOT USED ABOVE 120mm TRAVEL | | 124 | 133 | 138 |
| 140 | | | 131 | 142 | 147 |
| 150 | | | 139 | 151 | 156 |
| 160 | | | 146 | 159 | 165 |
| 170 | | | 153 | 167 | 174 |
| 180 | | | 160 | 175 | 182 |
| 190 | | | 167 | 183 | 191 |
| 200 | | | 173 | 191 | 199 |
| 210 | | | 180 | 199 | 208 |
| 220 | | | 186 | 206 | 216 |
| 230 | | | 192 | 214 | 224 |
| 240 | | | 198 | 221 | 232 |
| 250 | | | 203 | 228 | 240 |
| 260 | | | 209 | 235 | 247 |
| 270 | | | 215 | 242 | 255 |
| 280 | | | 220 | 249 | 262 |
| 290 | | | 225 | 255 | 270 |
| 300 | | | 230 | 262 | 277 |
| 310 | | | 235 | 268 | 284 |
| 320 | | | 240 | 274 | 291 |
| 330 | | | 245 | 281 | 298 |
| 340 | | | 250 | 287 | 305 |
| 350 | | | 255 | 293 | 311 |
| 360 | | | 259 | 298 | 318 |
| 370 | | | 264 | 304 | 324 |
| 380 | | | 268 | 310 | 331 |
| 390 | | | 272 | 316 | 337 |
| 400 | | | 277 | 321 | 343 |

INSTALLED HEIGHT DIMENSIONS J4 AND J7 ALLOW ±25mm ADJUSTMENT.

TAKE-OUT DIMENSIONS A1, A2, A3, J5, J6 AND J8 ALLOW ±75mm ADJUSTMENT.

WHERE SEVERE HEADROOM LIMITATIONS EXIST, DIMENSIONS A1, A2 AND A3 CAN BE REDUCED AND DIMENSIONS J5, J6 AND J8 INCREASED AS FOLLOWS BY USE OF A SHORTENED EYEBOLT:

| ØX | M12 |
|---|---|
| CHANGE mm | 160 |

NOTE DIA. X IS THREADED ISO METRIC COARSE RIGHT HAND AS STANDARD. NOTE THAT DIMENSIONS A1, A2, A3, J4, J5, J6, J7 AND J8 ARE GIVEN AT ZERO ROTATION, THAT IS WITH THE LEVER IN THE UPPERMOST POSITION.

N.B. DIMENSION TA IS THE MINIMUM FORWARD CLEARANCE REQUIRED.

# CB: DIMENSIONS FOR SIZES CB-5 TO CB-7

| MOVEMENT PROVIDED mm | ALL SIZES | | | | | | | | CB–5 | | | | CB–6 | | | | CB–7 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ALL | | | H1 H2 | V1 V2 | HFMT | HFMH | VUB | | VU1 VU2 | VFM | VFMT | | VU1 VU2 | VFM | VFMT | | VU1 VU2 | VFM | VFMT |
| | C mm | D mm | E mm | A1 mm | A2 mm | J4 mm | J5 mm | J8 mm | ØX mm | A3 mm | J6 mm | J7 mm | ØX mm | A3 mm | J6 mm | J7 mm | ØX mm | A3 mm | J6 mm | J7 mm |
| | AT ZERO ROTATION | | | | | | | | AT 0° ROTATION | | | | AT 0° ROTATION | | | | AT 0° ROTATION | | | |
| 40 | 54 | 44 | 31 | 484 | | 333 | -264 | -264 | M12 | 671 | | 518 | M12 | 646 | | 493 | M12 | 658 | | 503 |
| 50 | 67 | 55 | 38 | 477 | | 340 | -257 | -257 | M12 | 664 | | 525 | M12 | 639 | | 500 | M12 | 651 | | 510 |
| 60 | 80 | 66 | 46 | 469 | | 348 | -249 | -249 | M12 | 656 | | 533 | M12 | 631 | | 508 | M12 | 643 | | 518 |
| 70 | 94 | 77 | 54 | 461 | | 356 | -241 | -241 | M12 | 648 | | 541 | M12 | 623 | | 516 | M12 | 635 | | 526 |
| 80 | 107 | 88 | 61 | 454 | 454 | 363 | -234 | -234 | M12 | 641 | -39 | 548 | M12 | 616 | -64 | 523 | M12 | 628 | -54 | 533 |
| 90 | 120 | 99 | 69 | 446 | 446 | 371 | -226 | -226 | M12 | 633 | -31 | 556 | M12 | 608 | -56 | 531 | M12 | 620 | -46 | 541 |
| 100 | 134 | 110 | 77 | 438 | 438 | 379 | -218 | -218 | M12 | 625 | -23 | 564 | M12 | 600 | -48 | 539 | M12 | 612 | -38 | 549 |
| 110 | 147 | 121 | 84 | 431 | 431 | 386 | -211 | -211 | M12 | 618 | -16 | 571 | M12 | 593 | -41 | 546 | M12 | 605 | -31 | 556 |
| 120 | 161 | 132 | 92 | 423 | 423 | 394 | -203 | -203 | M12 | 610 | -8 | 579 | M12 | 585 | -33 | 554 | M12 | 597 | -23 | 564 |
| 130 | 174 | 143 | 100 | 480 | 490 | 411 | -180 | -180 | M12 | 602 | 0 | 581 | M12 | 577 | -25 | 556 | M12 | 589 | -15 | 566 |
| 140 | 187 | 153 | 107 | 473 | 483 | 418 | -173 | -173 | M12 | 595 | 7 | 588 | M12 | 570 | -18 | 563 | M12 | 582 | -8 | 573 |
| 150 | 201 | 164 | 115 | 465 | 475 | 426 | -165 | -165 | M12 | 587 | 15 | 596 | M12 | 562 | -10 | 571 | M12 | 574 | 0 | 581 |
| 160 | 214 | 175 | 123 | 457 | 467 | 434 | -157 | -157 | M12 | 579 | 23 | 604 | M12 | 554 | -2 | 579 | M12 | 566 | 8 | 589 |
| 170 | 228 | 186 | 130 | 450 | 460 | 441 | -150 | -150 | M12 | 572 | 30 | 611 | M12 | 547 | 5 | 586 | M12 | 559 | 15 | 596 |
| 180 | 241 | 197 | 138 | 442 | 452 | 449 | -142 | -142 | M12 | 564 | 38 | 619 | M12 | 539 | 13 | 594 | M12 | 551 | 23 | 604 |
| 190 | 254 | 208 | 146 | 434 | 444 | 457 | -134 | -134 | M12 | 556 | 46 | 627 | M12 | 531 | 21 | 602 | M12 | 543 | 31 | 612 |
| 200 | 268 | 219 | 154 | 426 | 436 | 465 | -126 | -126 | M12 | 548 | 54 | 635 | M12 | 523 | 29 | 610 | M12 | 535 | 39 | 620 |
| 210 | 281 | 230 | 161 | 419 | 429 | 472 | -119 | -119 | M12 | 541 | 61 | 642 | M12 | 516 | 36 | 617 | M12 | 528 | 46 | 627 |
| 220 | 294 | 241 | 169 | 481 | 481 | 500 | -91 | -91 | M12 | 533 | 69 | 650 | M12 | 508 | 44 | 625 | M12 | 520 | 54 | 635 |
| 230 | 308 | 252 | 177 | 473 | 473 | 508 | -83 | -83 | M12 | 525 | 77 | 658 | M12 | 500 | 52 | 633 | M12 | 512 | 62 | 643 |
| 240 | 321 | 263 | 184 | 466 | 466 | 515 | -76 | -76 | M12 | 518 | 84 | 665 | M12 | 493 | 59 | 640 | M12 | 505 | 69 | 650 |
| 250 | 335 | 274 | 192 | 458 | 458 | 523 | -68 | -68 | M12 | 510 | 92 | 673 | M12 | 485 | 67 | 648 | M12 | 497 | 77 | 658 |
| 260 | 348 | 285 | 200 | 450 | 450 | 531 | -60 | -60 | M12 | 502 | 100 | 681 | M12 | 477 | 75 | 656 | M12 | 489 | 85 | 666 |
| 270 | 361 | 296 | 207 | 443 | 443 | 538 | -53 | -53 | M12 | 495 | 107 | 688 | M12 | 470 | 82 | 663 | M12 | 482 | 92 | 673 |
| 280 | 375 | 307 | 215 | 435 | 435 | 546 | -45 | -45 | M12 | 487 | 115 | 696 | M12 | 462 | 90 | 671 | M12 | 474 | 100 | 681 |
| 290 | 388 | 318 | 223 | 427 | 427 | 554 | -37 | -37 | M12 | 479 | 123 | 704 | M12 | 454 | 98 | 679 | M12 | 466 | 108 | 689 |
| 300 | 401 | 329 | 230 | 420 | 420 | 561 | -30 | -30 | M12 | 472 | 130 | 711 | M12 | 447 | 105 | 686 | M12 | 459 | 115 | 696 |
| 310 | 415 | 340 | 238 | 487 | 487 | 584 | -2 | -2 | M12 | 512 | 138 | 719 | M12 | 487 | 113 | 694 | M12 | 499 | 123 | 704 |
| 320 | 428 | 351 | 246 | 479 | 479 | 592 | 6 | 6 | M12 | 504 | 146 | 727 | M12 | 479 | 121 | 702 | M12 | 491 | 131 | 712 |
| 330 | 442 | 362 | 253 | 472 | 472 | 599 | 13 | 13 | M12 | 497 | 153 | 734 | M12 | 472 | 128 | 709 | M12 | 484 | 138 | 719 |
| 340 | 455 | 373 | 261 | 464 | 464 | 607 | 21 | 21 | M12 | 489 | 161 | 742 | M12 | 464 | 136 | 717 | M12 | 476 | 146 | 727 |
| 350 | 468 | 384 | 269 | 456 | 456 | 615 | 29 | 29 | M12 | 481 | 169 | 750 | M12 | 456 | 144 | 725 | M12 | 468 | 154 | 735 |
| 360 | 482 | 395 | 276 | 449 | 449 | 622 | 36 | 36 | M12 | 474 | 176 | 757 | M12 | 449 | 151 | 732 | M12 | 461 | 161 | 742 |
| 370 | 495 | 406 | 284 | 441 | 441 | 630 | 44 | 44 | M12 | 466 | 184 | 765 | M12 | 441 | 159 | 740 | M12 | 453 | 169 | 750 |
| 380 | 509 | 417 | 292 | 433 | 433 | 638 | 52 | 52 | M12 | 458 | 192 | 773 | M12 | 433 | 167 | 748 | M12 | 445 | 177 | 758 |
| 390 | 522 | 428 | 299 | 426 | 426 | 645 | 59 | 59 | M12 | 451 | 199 | 780 | M12 | 426 | 174 | 755 | M12 | 438 | 184 | 765 |
| 400 | 535 | 439 | 307 | 418 | 418 | 653 | 67 | 67 | M12 | 443 | 207 | 788 | M12 | 418 | 182 | 763 | M12 | 430 | 192 | 773 |

# CC: DIMENSIONS FOR SIZES CC-8 TO CC-10

## MOVEMENT DEPENDENT DIMENSIONS

| | | MOVEMENT PROVIDED mm | 40–120 | 130–210 | 220–300 | 310–400 | 410–500 |
|---|---|---|---|---|---|---|---|
| TRAVEL RANGE DEPENDENT DIMENSIONS | | U | 120 | 120 | 270 | 270 | 270 |
| | | TA | 213 | 306 | 454 | 587 | 721 |
| | | TB | 155 | 195 | 280 | 355 | 430 |
| | | TC | 145 | 145 | 295 | 295 | 295 |
| | | TD | 80 | 90 | 110 | 125 | 145 |
| | | TE | 155 | 195 | 280 | 355 | 430 |
| | | TF | 155 | 225 | 315 | 390 | 455 |
| | | TG | 90 | 100 | 120 | 140 | 165 |
| | | TH | 90 | 100 | 120 | 140 | 165 |
| | | TJ | 155 | 155 | 155 | 155 | 207 |
| TOP SUSPENSION DETAILS | CC–8 | DD | 14 | 14 | 14 | 14 | 14 |
| | | AA | 30 | 30 | 30 | 30 | 30 |
| | | BB | 20 | 20 | 20 | 20 | 20 |
| | | CC | 50 | 50 | 50 | 50 | 50 |
| | | EE | 6 | 6 | 6 | 6 | 6 |
| | | GG | 20 | 20 | 20 | 20 | 20 |
| | | LL | M12 | M12 | M12 | M12 | M12 |
| | CC–9 | DD | 18 | 14 | 14 | 14 | 14 |
| | | AA | 36 | 30 | 30 | 30 | 30 |
| | | BB | 30 | 20 | 20 | 20 | 20 |
| | | CC | 50 | 50 | 50 | 50 | 50 |
| | | EE | 6 | 6 | 6 | 6 | 6 |
| | | GG | 25 | 20 | 20 | 20 | 20 |
| | | LL | M16 | M12 | M12 | M12 | M12 |
| | CC–10 | DD | 18 | 14 | 14 | 14 | 14 |
| | | AA | 36 | 30 | 30 | 30 | 30 |
| | | BB | 30 | 20 | 20 | 20 | 20 |
| | | CC | 50 | 50 | 50 | 50 | 50 |
| | | EE | 6 | 6 | 6 | 6 | 6 |
| | | GG | 25 | 20 | 20 | 20 | 20 |
| | | LL | M16 | M12 | M12 | M12 | M12 |

## FIXED DIMENSIONS

| | | | | | |
|---|---|---|---|---|---|
| FA | 250 | FQ | 75 | XE | 14 |
| FB | 89 | FR | 180 | XF | 220 |
| FC | 65 | FS | 195 | XG | 120 |
| FD | 50 | FT | 120 | XH | 90 |
| FE | 198 | FU | 35 | XJ | 180 |
| FF | 8 | FV | 140 | XK | 250 |
| FG | 35 | FW | 14 | XL | 14 |
| FH | 14 | FX | 85 | XM | 115 |
| FJ | 20 | FY | 120 | XN | 12 |
| FK | 180 | FZ | 220 | XP | 145 |
| FL | 140 | XA | 330 | XQ | 118 |
| FM | 8 | XB | 120 | XR | 155 |
| FN | 115 | XC | 170 | | |
| FP | 60 | XD | 180 | | |

## SPRING SIZE DEPENDENT DIMENSIONS

| | CC–8 | CC–9 | CC–10 |
|---|---|---|---|
| SA | 211 | 233 | 253 |
| SB | 223 | 245 | 265 |
| SC | 280 | 305 | 325 |
| SD | 300 | 325 | 345 |
| SE | 300 | 325 | 345 |
| SF | 175 | 175 | 180 |

## WEIGHTS (kgf)

| | CC–8 | CC–9 | CC–10 |
|---|---|---|---|
| H1/H2 | 24 | 25 | 26 |
| V1/V2 | 25 | 27 | 28 |
| VU1/VU2 | 27 | 28 | 30 |
| HFMT | 27 | 28 | 30 |
| HFMH | 23 | 24 | 26 |
| VFM | 24 | 25 | 27 |
| VFMT | 29 | 30 | 32 |
| VUB | 28 | 29 | 31 |

## SINGLE POINT SUSPENSION DIMENSION 'V'

| MOVEMENT PROVIDED mm | ALL SIZES | | CC–8 | CC–9 | CC–10 |
|---|---|---|---|---|---|
| | V1 | V3 | V2 | V2 | V2 |
| 40 | 43 | 48 | | | |
| 50 | 53 | 60 | | | |
| 60 | 63 | 71 | | | |
| 70 | 73 | 81 | 75 | 77 | 78 |
| 80 | 83 | 92 | 85 | 87 | 89 |
| 90 | 92 | 102 | 94 | 98 | 99 |
| 100 | 101 | 112 | 103 | 107 | 110 |
| 110 | 110 | 123 | 112 | 117 | 120 |
| 120 | 119 | 132 | 121 | 127 | 130 |
| 130 | TYPES H1 AND VU1 ARE NOT USED ABOVE 120mm TRAVEL | | 130 | 136 | 139 |
| 140 | | | 139 | 145 | 149 |
| 150 | | | 147 | 155 | 159 |
| 160 | | | 155 | 163 | 168 |
| 170 | | | 163 | 172 | 177 |
| 180 | | | 171 | 181 | 187 |
| 190 | | | 179 | 190 | 196 |
| 200 | | | 186 | 198 | 204 |
| 210 | | | 193 | 206 | 213 |
| 220 | | | 201 | 214 | 222 |
| 230 | | | 208 | 222 | 231 |
| 240 | | | 215 | 230 | 239 |
| 250 | | | 222 | 238 | 247 |
| 260 | | | 228 | 246 | 256 |
| 270 | | | 235 | 253 | 264 |
| 280 | | | 242 | 261 | 272 |
| 290 | | | 248 | 268 | 280 |
| 300 | | | 254 | 275 | 287 |
| 310 | | | 260 | 282 | 295 |
| 320 | | | 266 | 290 | 303 |
| 330 | | | 272 | 296 | 310 |
| 340 | | | 278 | 303 | 318 |
| 350 | | | 284 | 310 | 325 |
| 360 | | | 290 | 317 | 333 |
| 370 | | | 295 | 323 | 340 |
| 380 | | | 301 | 330 | 347 |
| 390 | | | 306 | 336 | 354 |
| 400 | | | 311 | 343 | 361 |
| 410 | | | 317 | 349 | 368 |
| 420 | | | 322 | 355 | 375 |
| 430 | | | 327 | 361 | 381 |
| 440 | | | 332 | 367 | 388 |
| 450 | | | 337 | 373 | 395 |
| 460 | | | 342 | 379 | 401 |
| 470 | | | 346 | 385 | 407 |
| 480 | | | 351 | 390 | 414 |
| 490 | | | 356 | 396 | 420 |
| 500 | | | 360 | 401 | 426 |

INSTALLED HEIGHT DIMENSIONS J4 AND J7 ALLOW ±25mm ADJUSTMENT.

TAKE-OUT DIMENSIONS A1, A2, A3, J5, J6 AND J8 ALLOW ±75mm ADJUSTMENT.

WHERE SEVERE HEADROOM LIMITATIONS EXIST, DIMENSIONS A1, A2 AND A3 CAN BE REDUCED AND DIMENSIONS J5, J6 AND J8 INCREASED AS FOLLOWS BY USE OF A SHORTENED EYEBOLT:

| ØX | M12 |
|---|---|
| CHANGE mm | 160 |

NOTE DIA. X IS THREADED ISO METRIC COARSE RIGHT HAND AS STANDARD. NOTE THAT DIMENSIONS A1, A2, A3, J4, J5, J6, J7 AND J8 ARE GIVEN AT ZERO ROTATION, THAT IS WITH THE LEVER IN THE UPPERMOST POSITION.

N.B. DIMENSION TA IS THE MINIMUM FORWARD CLEARANCE REQUIRED.

# CC: DIMENSIONS FOR SIZES CC-8 TO CC-10

| MOVEMENT PROVIDED mm | ALL SIZES | | | | | | | | CC–8 | | | | CC–9 | | | | CC–10 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ALL | | | H1 H2 | V1 V2 | HFMT | HFMH | VIBM | | VU1 VU2 | VFM | VFMT | | VU1 VU2 | VFM | VFMT | | VU1 VU2 | VFM | VFMT |
| | C mm | D mm | E mm | A1 mm | A2 mm | J4 mm | J5 mm | J8 mm | ØX mm | A3 mm | J6 mm | J7 mm | ØX mm | A3 mm | J6 mm | J7 mm | ØX mm | A3 mm | J6 mm | J7 mm |
| | AT ZERO ROTATION | | | | | | | | AT 0° ROTATION | | | | AT 0° ROTATION | | | | AT 0° ROTATION | | | |
| 40 | 54 | 44 | 31 | 499 | | 387 | -254 | -254 | M12 | 722 | | 582 | M16 | 744 | | 607 | M16 | 764 | | 627 |
| 50 | 67 | 55 | 38 | 492 | | 394 | -247 | -247 | M12 | 715 | | 589 | M12 | 737 | | 614 | M16 | 757 | | 634 |
| 60 | 80 | 66 | 46 | 484 | | 402 | -239 | -239 | M12 | 707 | | 597 | M12 | 729 | | 622 | M16 | 749 | | 642 |
| 70 | 94 | 77 | 54 | 476 | 476 | 410 | -231 | -231 | M12 | 699 | -21 | 605 | M12 | 721 | 4 | 630 | M12 | 741 | 24 | 650 |
| 80 | 107 | 88 | 61 | 469 | 469 | 417 | -224 | -224 | M12 | 692 | -14 | 612 | M12 | 714 | 11 | 637 | M12 | 734 | 31 | 657 |
| 90 | 120 | 99 | 69 | 461 | 461 | 425 | -216 | -216 | M12 | 684 | -6 | 620 | M12 | 706 | 19 | 645 | M12 | 726 | 39 | 665 |
| 100 | 134 | 110 | 77 | 453 | 453 | 433 | -208 | -208 | M12 | 676 | 2 | 628 | M12 | 698 | 27 | 653 | M12 | 718 | 47 | 673 |
| 110 | 147 | 121 | 84 | 446 | 446 | 440 | -201 | -201 | M12 | 669 | 9 | 635 | M12 | 691 | 34 | 660 | M12 | 711 | 54 | 680 |
| 120 | 161 | 132 | 92 | 438 | 438 | 448 | -193 | -193 | M12 | 661 | 17 | 643 | M12 | 683 | 42 | 668 | M12 | 703 | 62 | 688 |
| 130 | 174 | 143 | 100 | 470 | 470 | 462 | -175 | -175 | M12 | 653 | 25 | 647 | M12 | 675 | 50 | 672 | M12 | 695 | 70 | 692 |
| 140 | 187 | 153 | 107 | 463 | 463 | 469 | -168 | -168 | M12 | 646 | 32 | 654 | M12 | 668 | 57 | 679 | M12 | 688 | 77 | 699 |
| 150 | 201 | 164 | 115 | 455 | 455 | 477 | -160 | -160 | M12 | 638 | 40 | 662 | M12 | 660 | 65 | 687 | M12 | 680 | 85 | 707 |
| 160 | 214 | 175 | 123 | 447 | 447 | 485 | -152 | -152 | M12 | 630 | 48 | 670 | M12 | 652 | 73 | 695 | M12 | 672 | 93 | 715 |
| 170 | 228 | 186 | 130 | 440 | 440 | 492 | -145 | -145 | M12 | 623 | 55 | 677 | M12 | 645 | 80 | 702 | M12 | 665 | 100 | 722 |
| 180 | 241 | 197 | 138 | 432 | 432 | 500 | -137 | -137 | M12 | 615 | 63 | 685 | M12 | 637 | 88 | 710 | M12 | 657 | 108 | 730 |
| 190 | 254 | 208 | 146 | 424 | 424 | 508 | -129 | -129 | M12 | 607 | 71 | 693 | M12 | 629 | 96 | 718 | M12 | 649 | 116 | 738 |
| 200 | 268 | 219 | 154 | 501 | 501 | 530 | -101 | -101 | M12 | 599 | 79 | 695 | M12 | 621 | 104 | 720 | M12 | 641 | 124 | 740 |
| 210 | 281 | 230 | 161 | 494 | 494 | 537 | -94 | -94 | M12 | 592 | 86 | 702 | M12 | 614 | 111 | 727 | M12 | 634 | 131 | 747 |
| 220 | 294 | 241 | 169 | 486 | 486 | 545 | -86 | -86 | M12 | 584 | 94 | 710 | M12 | 606 | 119 | 735 | M12 | 626 | 139 | 755 |
| 230 | 308 | 252 | 177 | 478 | 478 | 553 | -78 | -78 | M12 | 576 | 102 | 718 | M12 | 598 | 127 | 743 | M12 | 618 | 147 | 763 |
| 240 | 321 | 263 | 184 | 471 | 471 | 560 | -71 | -71 | M12 | 569 | 109 | 725 | M12 | 591 | 134 | 750 | M12 | 611 | 154 | 770 |
| 250 | 335 | 274 | 192 | 463 | 463 | 568 | -63 | -63 | M12 | 561 | 117 | 733 | M12 | 583 | 142 | 758 | M12 | 603 | 162 | 778 |
| 260 | 348 | 285 | 200 | 455 | 455 | 576 | -55 | -55 | M12 | 553 | 125 | 741 | M12 | 575 | 150 | 766 | M12 | 595 | 170 | 786 |
| 270 | 361 | 296 | 207 | 448 | 448 | 583 | -48 | -48 | M12 | 546 | 132 | 748 | M12 | 568 | 157 | 773 | M12 | 588 | 177 | 793 |
| 280 | 375 | 307 | 215 | 440 | 440 | 591 | -40 | -40 | M12 | 538 | 140 | 756 | M12 | 560 | 165 | 781 | M12 | 580 | 185 | 801 |
| 290 | 388 | 318 | 223 | 432 | 432 | 599 | -32 | -32 | M12 | 530 | 148 | 764 | M12 | 552 | 173 | 789 | M12 | 572 | 193 | 809 |
| 300 | 401 | 329 | 230 | 425 | 425 | 606 | -25 | -25 | M12 | 523 | 155 | 771 | M12 | 545 | 180 | 796 | M12 | 565 | 200 | 816 |
| 310 | 415 | 340 | 238 | 492 | 492 | 629 | 3 | 3 | M12 | 515 | 163 | 779 | M12 | 537 | 188 | 804 | M12 | 557 | 208 | 824 |
| 320 | 428 | 351 | 246 | 484 | 484 | 637 | 11 | 11 | M12 | 507 | 171 | 787 | M12 | 529 | 196 | 812 | M12 | 549 | 216 | 832 |
| 330 | 442 | 362 | 253 | 477 | 477 | 644 | 18 | 18 | M12 | 500 | 178 | 794 | M12 | 522 | 203 | 819 | M12 | 542 | 223 | 839 |
| 340 | 455 | 373 | 261 | 469 | 469 | 652 | 26 | 26 | M12 | 492 | 186 | 802 | M12 | 514 | 211 | 827 | M12 | 534 | 231 | 847 |
| 350 | 468 | 384 | 269 | 461 | 461 | 660 | 34 | 34 | M12 | 484 | 194 | 810 | M12 | 506 | 219 | 835 | M12 | 526 | 239 | 855 |
| 360 | 482 | 395 | 276 | 454 | 454 | 667 | 41 | 41 | M12 | 477 | 201 | 817 | M12 | 499 | 226 | 842 | M12 | 519 | 246 | 862 |
| 370 | 495 | 406 | 284 | 446 | 446 | 675 | 49 | 49 | M12 | 469 | 209 | 825 | M12 | 491 | 234 | 850 | M12 | 511 | 254 | 870 |
| 380 | 509 | 417 | 292 | 438 | 438 | 683 | 57 | 57 | M12 | 461 | 217 | 833 | M12 | 483 | 242 | 858 | M12 | 503 | 262 | 878 |
| 390 | 522 | 428 | 299 | 431 | 431 | 690 | 64 | 64 | M12 | 454 | 224 | 840 | M12 | 476 | 249 | 865 | M12 | 496 | 269 | 885 |
| 400 | 535 | 439 | 307 | 423 | 423 | 698 | 72 | 72 | M12 | 446 | 232 | 848 | M12 | 468 | 257 | 873 | M12 | 488 | 277 | 893 |
| 410 | 549 | 449 | 315 | 490 | 490 | 726 | 105 | 105 | M12 | 490 | 240 | 856 | M12 | 512 | 265 | 881 | M12 | 532 | 285 | 901 |
| 420 | 562 | 460 | 322 | 483 | 483 | 733 | 112 | 112 | M12 | 483 | 247 | 863 | M12 | 505 | 272 | 888 | M12 | 525 | 292 | 908 |
| 430 | 575 | 471 | 330 | 475 | 475 | 741 | 120 | 120 | M12 | 475 | 255 | 871 | M12 | 497 | 280 | 896 | M12 | 517 | 300 | 916 |
| 440 | 589 | 482 | 338 | 467 | 467 | 749 | 128 | 128 | M12 | 467 | 263 | 879 | M12 | 489 | 288 | 904 | M12 | 509 | 308 | 924 |
| 450 | 602 | 493 | 345 | 460 | 460 | 756 | 135 | 135 | M12 | 460 | 270 | 886 | M12 | 482 | 295 | 911 | M12 | 502 | 315 | 931 |
| 460 | 616 | 504 | 353 | 452 | 452 | 764 | 143 | 143 | M12 | 452 | 278 | 894 | M12 | 474 | 303 | 919 | M12 | 494 | 323 | 939 |
| 470 | 629 | 515 | 361 | 444 | 444 | 772 | 151 | 151 | M12 | 444 | 286 | 902 | M12 | 466 | 311 | 927 | M12 | 486 | 331 | 947 |
| 480 | 642 | 526 | 368 | 437 | 437 | 779 | 158 | 158 | M12 | 437 | 293 | 909 | M12 | 459 | 318 | 934 | M12 | 479 | 338 | 954 |
| 490 | 656 | 537 | 376 | 429 | 429 | 787 | 166 | 166 | M12 | 429 | 301 | 917 | M12 | 451 | 326 | 942 | M12 | 471 | 346 | 962 |
| 500 | 669 | 548 | 384 | 421 | 421 | 795 | 174 | 174 | M12 | 421 | 309 | 925 | M12 | 443 | 334 | 950 | M12 | 463 | 354 | 970 |

# CD: DIMENSIONS FOR SIZES CD-11 TO CD-15

## MOVEMENT DEPENDENT DIMENSIONS

| | | MOVEMENT PROVIDED mm | 40–80 | 90–160 | 170–220 | 230–300 | 310–400 | 410–500 | 510–600 |
|---|---|---|---|---|---|---|---|---|---|
| TRAVEL RANGE DEPENDENT DIMENSIONS | | U | 155 | 155 | 155 | 155 | 345 | 345 | 345 |
| | | TA | 188 | 291 | 368 | 470 | 599 | 727 | 855 |
| | | TB | 200 | 200 | 235 | 295 | 365 | 435 | 510 |
| | | TC | 205 | 205 | 205 | 205 | 370 | 370 | 370 |
| | | TD | 115 | 115 | 115 | 130 | 145 | 165 | 180 |
| | | TE | | 200 | 255 | 315 | 375 | 435 | 510 |
| | | TF | | 230 | 280 | 345 | 425 | 505 | 580 |
| | | TG | 130 | 130 | 130 | 145 | 160 | 180 | 195 |
| | | TH | 130 | 130 | 130 | 145 | 160 | 180 | 195 |
| | | TJ | 195 | 195 | 195 | 195 | 195 | 195 | 226 |
| TOP SUSPENSION DETAILS | CD–11 | DD | 22 | 14 | 14 | 14 | 14 | 14 | 14 |
| | | AA | 50 | 30 | 30 | 30 | 30 | 30 | 30 |
| | | BB | 35 | 20 | 20 | 20 | 20 | 20 | 20 |
| | | CC | 60 | 50 | 50 | 50 | 50 | 50 | 50 |
| | | EE | 10 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | GG | 30 | 20 | 20 | 20 | 20 | 20 | 20 |
| | | LL | M20 | M12 | M12 | M12 | M12 | M12 | M12 |
| | CD–12 | DD | 22 | 18 | 14 | 14 | 14 | 14 | 14 |
| | | AA | 50 | 36 | 30 | 30 | 30 | 30 | 30 |
| | | BB | 35 | 30 | 20 | 20 | 20 | 20 | 20 |
| | | CC | 60 | 50 | 50 | 50 | 50 | 50 | 50 |
| | | EE | 10 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | GG | 30 | 25 | 20 | 20 | 20 | 20 | 20 |
| | | LL | M20 | M16 | M12 | M12 | M12 | M12 | M12 |
| | CD–13 | DD | 26 | 18 | 18 | 18 | 14 | 14 | 14 |
| | | AA | 60 | 36 | 36 | 36 | 30 | 30 | 30 |
| | | BB | 45 | 30 | 30 | 30 | 20 | 20 | 20 |
| | | CC | 80 | 50 | 50 | 50 | 50 | 50 | 50 |
| | | EE | 10 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | GG | 35 | 25 | 25 | 25 | 20 | 20 | 20 |
| | | LL | M24 | M16 | M16 | M16 | M12 | M12 | M12 |
| | CD–14 | DD | 26 | 22 | 18 | 18 | 14 | 14 | 14 |
| | | AA | 60 | 50 | 36 | 36 | 30 | 30 | 30 |
| | | BB | 45 | 35 | 30 | 30 | 20 | 20 | 20 |
| | | CC | 80 | 60 | 50 | 50 | 50 | 50 | 50 |
| | | EE | 10 | 10 | 6 | 6 | 6 | 6 | 6 |
| | | GG | 35 | 30 | 25 | 25 | 20 | 20 | 20 |
| | | LL | M24 | M20 | M16 | M16 | M12 | M12 | M12 |
| | CD–15 | DD | 33 | 26 | 22 | 22 | 18 | 18 | 18 |
| | | AA | 70 | 60 | 50 | 50 | 36 | 36 | 36 |
| | | BB | 55 | 45 | 35 | 35 | 30 | 30 | 30 |
| | | CC | 100 | 80 | 60 | 60 | 50 | 50 | 50 |
| | | EE | 12 | 10 | 10 | 10 | 6 | 6 | 6 |
| | | GG | 40 | 35 | 30 | 30 | 25 | 25 | 25 |
| | | LL | M30 | M24 | M20 | M20 | M16 | M16 | M16 |

## FIXED DIMENSIONS

| | | | | | |
|---|---|---|---|---|---|
| FA | 330 | FQ | 100 | XE | 18 |
| FB | 115 | FR | 225 | XF | 270 |
| FC | 95 | FS | 240 | XG | 155 |
| FD | 51 | FT | 155 | XH | 110 |
| FE | 250 | FU | 35 | XJ | 220 |
| FF | 10 | FV | 175 | XK | 315 |
| FG | 35 | FW | 18 | XL | 18 |
| FH | 18 | FX | 105 | XM | 155 |
| FJ | 25 | FY | 160 | XN | 20 |
| FK | 225 | FZ | 300 | XP | 190 |
| FL | 175 | XA | 415 | XQ | 148 |
| FM | 10 | XB | 155 | XR | 195 |
| FN | 155 | XC | 210 | | |
| FP | 90 | XD | 250 | | |

## SPRING SIZE DEPENDENT DIMENSIONS

| | CD–11 | CD–12 | CD–13 | CD–14 | CD–15 |
|---|---|---|---|---|---|
| SA | 264 | 286 | 312 | 351 | 400 |
| SB | 284 | 306 | 332 | 371 | 420 |
| SC | 365 | 390 | 415 | 455 | 505 |
| SD | 385 | 410 | 435 | 475 | 525 |
| SE | 385 | 410 | 435 | 475 | 525 |
| SF | 210 | 210 | 215 | 215 | 220 |

## WEIGHTS (kgf)

| | CD–11 | CD–12 | CD–13 | CD–14 | CD–15 |
|---|---|---|---|---|---|
| H1/H2 | 55 | 55 | 60 | 65 | 75 |
| V1/V2 | 60 | 60 | 65 | 70 | 80 |
| VU1/VU2 | 60 | 65 | 70 | 75 | 80 |
| HFMT | 60 | 65 | 70 | 75 | 80 |
| HFMH | 50 | 55 | 60 | 65 | 70 |
| VFM | 55 | 55 | 60 | 65 | 75 |
| VFMT | 65 | 70 | 75 | 80 | 85 |
| VUB | 60 | 65 | 70 | 75 | 80 |

## SINGLE POINT SUSPENSION DIMENSION 'V'

| MOVEMENT PROVIDED mm | ALL SIZES | | CD–11 | CD–12 | CD–13 | CD–14 | CD–15 |
|---|---|---|---|---|---|---|---|
| | V1 | V3 | V2 | V2 | V2 | V2 | V2 |
| 40 | 43 | 48 | | | | | |
| 50 | 53 | 60 | | | | | |
| 60 | 63 | 71 | | | | | |
| 70 | 73 | 82 | | | | | |
| 80 | 82 | 93 | | | | | |
| 90 | 92 | 104 | 95 | | | | |
| 100 | 101 | 114 | 104 | 107 | 110 | 112 | 113 |
| 110 | 111 | 124 | 113 | 117 | 120 | 122 | 124 |
| 120 | 120 | 135 | 122 | 126 | 130 | 133 | 135 |
| 130 | 129 | 145 | 131 | 136 | 139 | 143 | 145 |
| 140 | 138 | 155 | 140 | 145 | 149 | 153 | 156 |
| 150 | 147 | 165 | 148 | 154 | 159 | 163 | 166 |
| 160 | 155 | 174 | 156 | 163 | 168 | 173 | 176 |
| 170 | TYPES H1 AND VU1 ARE NOT USED ABOVE 160mm TRAVEL | | 164 | 172 | 177 | 182 | 187 |
| 180 | | | 172 | 180 | 187 | 192 | 197 |
| 190 | | | 180 | 189 | 196 | 202 | 207 |
| 200 | | | 188 | 197 | 205 | 211 | 217 |
| 210 | | | 195 | 206 | 213 | 221 | 226 |
| 220 | | | 203 | 214 | 222 | 230 | 236 |
| 230 | | | 210 | 222 | 231 | 239 | 246 |
| 240 | | | 217 | 230 | 239 | 248 | 255 |
| 250 | | | 224 | 237 | 248 | 257 | 265 |
| 260 | | | 231 | 245 | 256 | 266 | 274 |
| 270 | | | 238 | 252 | 264 | 275 | 284 |
| 280 | | | 245 | 260 | 272 | 283 | 293 |
| 290 | | | 251 | 267 | 280 | 292 | 302 |
| 300 | | | 258 | 274 | 288 | 300 | 311 |
| 310 | | | 264 | 282 | 296 | 309 | 320 |
| 320 | | | 270 | 289 | 304 | 317 | 329 |
| 330 | | | 276 | 295 | 311 | 325 | 338 |
| 340 | | | 282 | 302 | 319 | 334 | 347 |
| 350 | | | 288 | 309 | 326 | 342 | 355 |
| 360 | | | 294 | 316 | 333 | 350 | 364 |
| 370 | | | 300 | 322 | 341 | 358 | 373 |
| 380 | | | 305 | 329 | 348 | 366 | 381 |
| 390 | | | 311 | 335 | 355 | 373 | 389 |
| 400 | | | 316 | 341 | 362 | 381 | 398 |
| 410 | | | 322 | 348 | 369 | 389 | 406 |
| 420 | | | 327 | 354 | 376 | 396 | 414 |
| 430 | | | 332 | 360 | 382 | 404 | 422 |
| 440 | | | 337 | 366 | 389 | 411 | 431 |
| 450 | | | 343 | 372 | 396 | 418 | 439 |
| 460 | | | 348 | 377 | 402 | 426 | 447 |
| 470 | | | 353 | 383 | 409 | 433 | 454 |
| 480 | | | 357 | 389 | 415 | 440 | 462 |
| 490 | | | 362 | 394 | 422 | 447 | 470 |
| 500 | | | 367 | 400 | 428 | 454 | 478 |
| 510 | | | 372 | 406 | 434 | 461 | 485 |
| 520 | | | 376 | 411 | 440 | 468 | 493 |
| 530 | | | 381 | 416 | 446 | 475 | 501 |
| 540 | | | 385 | 422 | 452 | 482 | 508 |
| 550 | | | 390 | 427 | 458 | 488 | 516 |
| 560 | | | 394 | 432 | 464 | 495 | 523 |
| 570 | | | 399 | 437 | 470 | 502 | 530 |
| 580 | | | 403 | 442 | 476 | 508 | 537 |
| 590 | | | 407 | 447 | 482 | 515 | 545 |
| 600 | | | 411 | 452 | 487 | 521 | 552 |

INSTALLED HEIGHT DIMENSIONS J4 AND J7 ALLOW ±25mm ADJUSTMENT.

TAKE-OUT DIMENSIONS A1, A2, A3, J5, J6 AND J8 ALLOW ±75mm ADJUSTMENT.

WHERE SEVERE HEADROOM LIMITATIONS EXIST, DIMENSIONS A1, A2 AND A3 CAN BE REDUCED AND DIMENSIONS J5, J6 AND J8 INCREASED AS FOLLOWS BY USE OF A SHORTENED EYEBOLT:

| ØX | M12 | M16 | M20 | M24 | M30 |
|---|---|---|---|---|---|
| CHANGE mm | 160 | 160 | 140 | 140 | 120 |

NOTE DIA. X IS THREADED ISO METRIC COARSE RIGHT HAND AS STANDARD. NOTE THAT DIMENSIONS A1, A2, A3, J4, J5, J6, J7 AND J8 ARE GIVEN AT ZERO ROTATION, THAT IS WITH THE LEVER IN THE UPPERMOST POSITION.

N.B. DIMENSION TA IS THE MINIMUM FORWARD CLEARANCE REQUIRED.

# CD: DIMENSIONS FOR SIZES CD-11 TO CD-15

| MOVEMENT PROVIDED mm | ALL SIZES | | | | | | | | CD–11 | | | | CD–12 | | | | CD–13 | | | | CD–14 | | | | CD–15 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ALL | | | H1 H2 | V1 V2 | HFMT | HFMH | VFM | | VU1 VU2 | VFM | VFMT | | VU1 VU2 | VFM | VFMT | | VU1 VU2 | VFM | VFMT | | VU1 VU2 | VFM | VFMT | | VU1 VU2 | VFM | VFMT |
| | C mm | D mm | E mm | A1 mm | A2 mm | J4 mm | J5 mm | J8 mm | ØX mm | A3 mm | J6 mm | J7 mm | ØX mm | A3 mm | J6 mm | J7 mm | ØX mm | A3 mm | J6 mm | J7 mm | ØX mm | A3 mm | J6 mm | J7 mm | ØX mm | A3 mm | J6 mm | J7 mm |
| | | AT ZERO ROTATION | | | | | | | | AT 0° ROTATION | | | | AT 0° ROTATION | | | | AT 0° ROTATION | | | | AT 0° ROTATION | | | | AT 0° ROTATION | | |
| 40 | 54 | 44 | 31 | 544 | | 495 | -214 | -214 | M20 | 823 | | 735 | M20 | 845 | | 760 | M24 | 871 | | 785 | | | | | | | | |
| 50 | 67 | 55 | 38 | 537 | | 502 | -207 | -207 | M16 | 816 | | 742 | M20 | 838 | | 767 | M24 | 864 | | 792 | M24 | 903 | | 832 | M30 | 952 | | 882 |
| 60 | 80 | 66 | 46 | 529 | | 510 | -199 | -199 | M16 | 808 | | 750 | M16 | 830 | | 775 | M20 | 856 | | 800 | M24 | 895 | | 840 | M30 | 944 | | 890 |
| 70 | 94 | 77 | 54 | 521 | | 518 | -191 | -191 | M16 | 800 | | 758 | M16 | 822 | | 783 | M20 | 848 | | 808 | M20 | 887 | | 848 | M24 | 936 | | 898 |
| 80 | 107 | 88 | 61 | 514 | | 525 | -184 | -184 | M16 | 793 | | 765 | M16 | 815 | | 790 | M16 | 841 | | 815 | M20 | 880 | | 855 | M24 | 929 | | 905 |
| 90 | 120 | 99 | 69 | 506 | 506 | 526 | -176 | -176 | M12 | 785 | 79 | 766 | M16 | 807 | | 791 | M16 | 833 | | 816 | M20 | 872 | | 856 | M24 | 921 | | 906 |
| 100 | 134 | 110 | 77 | 498 | 498 | 534 | -168 | -168 | M12 | 777 | 87 | 774 | M16 | 799 | 112 | 799 | M16 | 825 | 137 | 824 | M20 | 864 | 177 | 864 | M20 | 913 | 227 | 914 |
| 110 | 147 | 121 | 84 | 491 | 491 | 541 | -161 | -161 | M12 | 770 | 94 | 781 | M16 | 792 | 119 | 806 | M16 | 818 | 144 | 831 | M16 | 857 | 184 | 871 | M20 | 906 | 234 | 921 |
| 120 | 161 | 132 | 92 | 483 | 483 | 549 | -153 | -153 | M12 | 762 | 102 | 789 | M12 | 784 | 127 | 814 | M16 | 810 | 152 | 839 | M16 | 849 | 192 | 879 | M20 | 898 | 242 | 929 |
| 130 | 174 | 143 | 100 | 475 | 475 | 557 | -145 | -145 | M12 | 754 | 110 | 797 | M12 | 776 | 135 | 822 | M16 | 802 | 160 | 847 | M16 | 841 | 200 | 887 | M20 | 890 | 250 | 937 |
| 140 | 187 | 153 | 107 | 468 | 468 | 564 | -138 | -138 | M12 | 747 | 117 | 804 | M12 | 769 | 142 | 829 | M16 | 795 | 167 | 854 | M16 | 834 | 207 | 894 | M20 | 883 | 257 | 944 |
| 150 | 201 | 164 | 115 | 460 | 460 | 572 | -130 | -130 | M12 | 739 | 125 | 812 | M12 | 761 | 150 | 837 | M16 | 787 | 175 | 862 | M16 | 826 | 215 | 902 | M16 | 875 | 265 | 952 |
| 160 | 214 | 175 | 123 | 452 | 452 | 580 | -122 | -122 | M12 | 731 | 133 | 820 | M12 | 753 | 158 | 845 | M12 | 779 | 183 | 870 | M16 | 818 | 223 | 910 | M16 | 867 | 273 | 960 |
| 170 | 228 | 186 | 130 | 480 | 500 | 580 | -115 | -115 | M12 | 724 | 140 | 820 | M12 | 746 | 165 | 845 | M12 | 772 | 190 | 870 | M16 | 811 | 230 | 910 | M16 | 860 | 280 | 960 |
| 180 | 241 | 197 | 138 | 472 | 492 | 588 | -107 | -107 | M12 | 716 | 148 | 828 | M12 | 738 | 173 | 853 | M12 | 764 | 198 | 878 | M16 | 803 | 238 | 918 | M16 | 852 | 288 | 968 |
| 190 | 254 | 208 | 146 | 464 | 484 | 596 | -99 | -99 | M12 | 708 | 156 | 836 | M12 | 730 | 181 | 861 | M12 | 756 | 206 | 886 | M16 | 795 | 246 | 926 | M16 | 844 | 296 | 976 |
| 200 | 268 | 219 | 154 | 456 | 476 | 604 | -91 | -91 | M12 | 700 | 164 | 844 | M12 | 722 | 189 | 869 | M12 | 748 | 214 | 894 | M16 | 787 | 254 | 934 | M16 | 836 | 304 | 984 |
| 210 | 281 | 230 | 161 | 449 | 469 | 611 | -84 | -84 | M12 | 693 | 171 | 851 | M12 | 715 | 196 | 876 | M12 | 741 | 221 | 901 | M12 | 780 | 261 | 941 | M16 | 829 | 311 | 991 |
| 220 | 294 | 241 | 169 | 441 | 461 | 619 | -76 | -76 | M12 | 685 | 179 | 859 | M12 | 707 | 204 | 884 | M12 | 733 | 229 | 909 | M12 | 772 | 269 | 949 | M16 | 821 | 319 | 999 |
| 230 | 308 | 252 | 177 | 493 | 513 | 642 | -53 | -53 | M12 | 677 | 187 | 867 | M12 | 699 | 212 | 892 | M12 | 725 | 237 | 917 | M12 | 764 | 277 | 957 | M16 | 813 | 327 | 1007 |
| 240 | 321 | 263 | 184 | 486 | 506 | 649 | -46 | -46 | M12 | 670 | 194 | 874 | M12 | 692 | 219 | 899 | M12 | 718 | 244 | 924 | M12 | 757 | 284 | 964 | M16 | 806 | 334 | 1014 |
| 250 | 335 | 274 | 192 | 478 | 498 | 657 | -38 | -38 | M12 | 662 | 202 | 882 | M12 | 684 | 227 | 907 | M12 | 710 | 252 | 932 | M12 | 749 | 292 | 972 | M16 | 798 | 342 | 1022 |
| 260 | 348 | 285 | 200 | 470 | 490 | 665 | -30 | -30 | M12 | 654 | 210 | 890 | M12 | 676 | 235 | 915 | M12 | 702 | 260 | 940 | M12 | 741 | 300 | 980 | M16 | 790 | 350 | 1030 |
| 270 | 361 | 296 | 207 | 463 | 483 | 672 | -23 | -23 | M12 | 647 | 217 | 897 | M12 | 669 | 242 | 922 | M12 | 695 | 267 | 947 | M12 | 734 | 307 | 987 | M16 | 783 | 357 | 1037 |
| 280 | 375 | 307 | 215 | 455 | 475 | 680 | -15 | -15 | M12 | 639 | 225 | 905 | M12 | 661 | 250 | 930 | M12 | 687 | 275 | 955 | M12 | 726 | 315 | 995 | M16 | 775 | 365 | 1045 |
| 290 | 388 | 318 | 223 | 447 | 467 | 688 | -7 | -7 | M12 | 631 | 233 | 913 | M12 | 653 | 258 | 938 | M12 | 679 | 283 | 963 | M12 | 718 | 323 | 1003 | M12 | 767 | 373 | 1053 |
| 300 | 401 | 329 | 230 | 440 | 460 | 695 | 0 | 0 | M12 | 624 | 240 | 920 | M12 | 646 | 265 | 945 | M12 | 672 | 290 | 970 | M12 | 711 | 330 | 1010 | M12 | 760 | 380 | 1060 |
| 310 | 415 | 340 | 238 | 502 | 512 | 718 | 23 | 23 | M12 | 616 | 248 | 928 | M12 | 638 | 273 | 953 | M12 | 664 | 298 | 978 | M12 | 703 | 338 | 1018 | M12 | 752 | 388 | 1068 |
| 320 | 428 | 351 | 246 | 494 | 504 | 726 | 31 | 31 | M12 | 608 | 256 | 936 | M12 | 630 | 281 | 961 | M12 | 656 | 306 | 986 | M12 | 695 | 346 | 1026 | M12 | 744 | 396 | 1076 |
| 330 | 442 | 362 | 253 | 487 | 497 | 733 | 38 | 38 | M12 | 601 | 263 | 943 | M12 | 623 | 288 | 968 | M12 | 649 | 313 | 993 | M12 | 688 | 353 | 1033 | M12 | 737 | 403 | 1083 |
| 340 | 455 | 373 | 261 | 479 | 489 | 741 | 46 | 46 | M12 | 593 | 271 | 951 | M12 | 615 | 296 | 976 | M12 | 641 | 321 | 1001 | M12 | 680 | 361 | 1041 | M12 | 729 | 411 | 1091 |
| 350 | 468 | 384 | 269 | 471 | 481 | 749 | 54 | 54 | M12 | 585 | 279 | 959 | M12 | 607 | 304 | 984 | M12 | 633 | 329 | 1009 | M12 | 672 | 369 | 1049 | M12 | 721 | 419 | 1099 |
| 360 | 482 | 395 | 276 | 464 | 474 | 756 | 61 | 61 | M12 | 578 | 286 | 966 | M12 | 600 | 311 | 991 | M12 | 626 | 336 | 1016 | M12 | 665 | 376 | 1056 | M12 | 714 | 426 | 1106 |
| 370 | 495 | 406 | 284 | 456 | 466 | 764 | 69 | 69 | M12 | 570 | 294 | 974 | M12 | 592 | 319 | 999 | M12 | 618 | 344 | 1024 | M12 | 657 | 384 | 1064 | M12 | 706 | 434 | 1114 |
| 380 | 509 | 417 | 292 | 448 | 458 | 772 | 77 | 77 | M12 | 562 | 302 | 982 | M12 | 584 | 327 | 1007 | M12 | 610 | 352 | 1032 | M12 | 649 | 392 | 1072 | M12 | 698 | 442 | 1122 |
| 390 | 522 | 428 | 299 | 441 | 451 | 779 | 84 | 84 | M12 | 555 | 309 | 989 | M12 | 577 | 334 | 1014 | M12 | 603 | 359 | 1039 | M12 | 642 | 399 | 1079 | M12 | 691 | 449 | 1129 |
| 400 | 535 | 439 | 307 | 433 | 443 | 787 | 92 | 92 | M12 | 547 | 317 | 997 | M12 | 569 | 342 | 1022 | M12 | 595 | 367 | 1047 | M12 | 634 | 407 | 1087 | M12 | 683 | 457 | 1137 |
| 410 | 549 | 449 | 315 | 495 | 495 | 812 | 120 | 120 | M12 | 539 | 325 | 1002 | M12 | 561 | 350 | 1027 | M12 | 587 | 375 | 1052 | M12 | 626 | 415 | 1092 | M12 | 675 | 465 | 1142 |
| 420 | 562 | 460 | 322 | 488 | 488 | 819 | 127 | 127 | M12 | 532 | 332 | 1009 | M12 | 554 | 357 | 1034 | M12 | 580 | 382 | 1059 | M12 | 619 | 422 | 1099 | M12 | 668 | 472 | 1149 |
| 430 | 575 | 471 | 330 | 480 | 480 | 827 | 135 | 135 | M12 | 524 | 340 | 1017 | M12 | 546 | 365 | 1042 | M12 | 572 | 390 | 1067 | M12 | 611 | 430 | 1107 | M12 | 660 | 480 | 1157 |
| 440 | 589 | 482 | 338 | 472 | 472 | 835 | 143 | 143 | M12 | 516 | 348 | 1025 | M12 | 538 | 373 | 1050 | M12 | 564 | 398 | 1075 | M12 | 603 | 438 | 1115 | M12 | 652 | 488 | 1165 |
| 450 | 602 | 493 | 345 | 465 | 465 | 842 | 150 | 150 | M12 | 509 | 355 | 1032 | M12 | 531 | 380 | 1057 | M12 | 557 | 405 | 1082 | M12 | 596 | 445 | 1122 | M12 | 645 | 495 | 1172 |
| 460 | 616 | 504 | 353 | 457 | 457 | 850 | 158 | 158 | M12 | 501 | 363 | 1040 | M12 | 523 | 388 | 1065 | M12 | 549 | 413 | 1090 | M12 | 588 | 453 | 1130 | M12 | 637 | 503 | 1180 |
| 470 | 629 | 515 | 361 | 449 | 449 | 858 | 166 | 166 | M12 | 493 | 371 | 1048 | M12 | 515 | 396 | 1073 | M12 | 541 | 421 | 1098 | M12 | 580 | 461 | 1138 | M12 | 629 | 511 | 1188 |
| 480 | 642 | 526 | 368 | 442 | 442 | 865 | 173 | 173 | M12 | 486 | 378 | 1055 | M12 | 508 | 403 | 1080 | M12 | 534 | 428 | 1105 | M12 | 573 | 468 | 1145 | M12 | 622 | 518 | 1195 |
| 490 | 656 | 537 | 376 | 434 | 434 | 873 | 181 | 181 | M12 | 478 | 386 | 1063 | M12 | 500 | 411 | 1088 | M12 | 526 | 436 | 1113 | M12 | 565 | 476 | 1153 | M12 | 614 | 526 | 1203 |
| 500 | 669 | 548 | 384 | 426 | 426 | 881 | 189 | 189 | M12 | 470 | 394 | 1071 | M12 | 492 | 419 | 1096 | M12 | 518 | 444 | 1121 | M12 | 557 | 484 | 1161 | M12 | 606 | 534 | 1211 |
| 510 | 683 | 559 | 391 | 494 | 494 | 903 | 211 | 211 | M12 | 494 | 401 | 1078 | M12 | 516 | 426 | 1103 | M12 | 542 | 451 | 1128 | M12 | 581 | 491 | 1168 | M12 | 630 | 541 | 1218 |
| 520 | 696 | 570 | 399 | 486 | 486 | 911 | 219 | 219 | M12 | 486 | 409 | 1086 | M12 | 508 | 434 | 1111 | M12 | 534 | 459 | 1136 | M12 | 573 | 499 | 1176 | M12 | 622 | 549 | 1226 |
| 530 | 709 | 581 | 407 | 478 | 478 | 919 | 227 | 227 | M12 | 478 | 417 | 1094 | M12 | 500 | 442 | 1119 | M12 | 526 | 467 | 1144 | M12 | 565 | 507 | 1184 | M12 | 614 | 557 | 1234 |
| 540 | 723 | 592 | 415 | 470 | 470 | 927 | 235 | 235 | M12 | 470 | 425 | 1102 | M12 | 492 | 450 | 1127 | M12 | 518 | 475 | 1152 | M12 | 557 | 515 | 1192 | M12 | 606 | 565 | 1242 |
| 550 | 736 | 603 | 422 | 463 | 463 | 934 | 242 | 242 | M12 | 463 | 432 | 1109 | M12 | 485 | 457 | 1134 | M12 | 511 | 482 | 1159 | M12 | 550 | 522 | 1199 | M12 | 599 | 572 | 1249 |
| 560 | 749 | 614 | 430 | 455 | 455 | 942 | 250 | 250 | M12 | 455 | 440 | 1117 | M12 | 477 | 465 | 1142 | M12 | 503 | 490 | 1167 | M12 | 542 | 530 | 1207 | M12 | 591 | 580 | 1257 |
| 570 | 763 | 625 | 438 | 447 | 447 | 950 | 258 | 258 | M12 | 447 | 448 | 1125 | M12 | 469 | 473 | 1150 | M12 | 495 | 498 | 1175 | M12 | 534 | 538 | 1215 | M12 | 583 | 588 | 1265 |
| 580 | 776 | 636 | 445 | 440 | 440 | 957 | 265 | 265 | M12 | 440 | 455 | 1132 | M12 | 462 | 480 | 1157 | M12 | 488 | 505 | 1182 | M12 | 527 | 545 | 1222 | M12 | 576 | 595 | 1272 |
| 590 | 790 | 647 | 453 | 432 | 432 | 965 | 273 | 273 | M12 | 432 | 463 | 1140 | M12 | 454 | 488 | 1165 | M12 | 480 | 513 | 1190 | M12 | 519 | 553 | 1230 | M12 | 568 | 603 | 1280 |
| 600 | 803 | 658 | 461 | 424 | 424 | 973 | 281 | 281 | M12 | 424 | 471 | 1148 | M12 | 446 | 496 | 1173 | M12 | 472 | 521 | 1198 | M12 | 511 | 561 | 1238 | M12 | 560 | 611 | 1288 |

# CE: DIMENSIONS FOR SIZES CE-16 TO CE-19

## MOVEMENT DEPENDENT DIMENSIONS

| | | MOVEMENT PROVIDED mm | 60–100 | 110–170 | 180–240 | 250–330 | 340–400 | 410–500 | 510–600 | 610–750 |
|---|---|---|---|---|---|---|---|---|---|---|
| TRAVEL RANGE DEPENDENT DIMENSIONS | | U | 235 | 235 | 235 | 235 | 235 | 450 | 450 | 450 |
| | | TA | 218 | 310 | 401 | 519 | 610 | 741 | 872 | 1068 |
| | | TB | 280 | 280 | 280 | 325 | 375 | 450 | 525 | 635 |
| | | TC | 300 | 300 | 300 | 300 | 300 | 480 | 480 | 480 |
| | | TD | 135 | 135 | 135 | 160 | 160 | 180 | 200 | 225 |
| | | TE | 230 | 230 | 280 | 350 | 400 | 475 | 525 | 635 |
| | | TF | 300 | 300 | 300 | 390 | 450 | 530 | 610 | 720 |
| | | TG | 150 | 150 | 150 | 175 | 175 | 195 | 215 | 240 |
| | | TH | 150 | 150 | 150 | 175 | 175 | 195 | 215 | 240 |
| | | TJ | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 |
| TOP SUSPENSION DETAILS | CE –16 | DD | 33 | 26 | 22 | 22 | 22 | 22 | 22 | 22 |
| | | AA | 70 | 60 | 50 | 50 | 50 | 50 | 50 | 50 |
| | | BB | 55 | 45 | 35 | 35 | 35 | 35 | 35 | 35 |
| | | CC | 100 | 80 | 60 | 60 | 60 | 60 | 60 | 60 |
| | | EE | 12 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | GG | 40 | 35 | 30 | 30 | 30 | 30 | 30 | 30 |
| | | LL | M30 | M24 | M20 | M20 | M20 | M20 | M20 | M20 |
| | CE –17 | DD | 40 | 33 | 22 | 22 | 22 | 22 | 22 | 22 |
| | | AA | 80 | 70 | 50 | 50 | 50 | 50 | 50 | 50 |
| | | BB | 55 | 55 | 35 | 35 | 35 | 35 | 35 | 35 |
| | | CC | 110 | 100 | 60 | 60 | 60 | 60 | 60 | 60 |
| | | EE | 15 | 12 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | GG | 45 | 40 | 30 | 30 | 30 | 30 | 30 | 30 |
| | | LL | M36 | M30 | M20 | M20 | M20 | M20 | M20 | M20 |
| | CE –18 | DD | 40 | 33 | 26 | 26 | 26 | 22 | 22 | 22 |
| | | AA | 80 | 70 | 60 | 60 | 60 | 50 | 50 | 50 |
| | | BB | 55 | 55 | 45 | 45 | 45 | 35 | 35 | 35 |
| | | CC | 110 | 100 | 80 | 80 | 80 | 60 | 60 | 60 |
| | | EE | 15 | 12 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | GG | 45 | 40 | 35 | 35 | 35 | 30 | 30 | 30 |
| | | LL | M36 | M30 | M24 | M24 | M24 | M20 | M20 | M20 |
| | CE –19 | DD | 46 | 33 | 26 | 26 | 26 | 22 | 22 | 22 |
| | | AA | 90 | 70 | 60 | 60 | 60 | 50 | 50 | 50 |
| | | BB | 75 | 55 | 45 | 45 | 45 | 35 | 35 | 35 |
| | | CC | 130 | 100 | 80 | 80 | 80 | 60 | 60 | 60 |
| | | EE | 15 | 12 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | GG | 60 | 40 | 35 | 35 | 35 | 10 | 10 | 10 |
| | | LL | M42 | M30 | M24 | M24 | M24 | M20 | M20 | M20 |

## FIXED DIMENSIONS

| | | | | | |
|---|---|---|---|---|---|
| FA | 410 | FQ | 120 | XE | 22 |
| FB | 141 | FR | 265 | XF | 320 |
| FC | 110 | FS | 360 | XG | 235 |
| FD | 92 | FT | 235 | XH | 170 |
| FE | 319 | FU | 65 | XJ | 260 |
| FF | 12 | FV | 205 | XK | 465 |
| FG | 65 | FW | 22 | XL | 22 |
| FH | 22 | FX | 140 | XM | 215 |
| FJ | 30 | FY | 190 | XN | 25 |
| FK | 265 | FZ | 380 | XP | 265 |
| FL | 205 | XA | 600 | XQ | 182 |
| FM | 15 | XB | 235 | XR | 255 |
| FN | 215 | XC | 305 | | |
| FP | 100 | XD | 320 | | |

## SPRING SIZE DEPENDENT DIMENSIONS

| | CE–16 | CE–17 | CE–18 | CE–19 |
|---|---|---|---|---|
| SA | 472 | 519 | 538 | 583 |
| SB | 497 | 544 | 563 | 608 |
| SC | 590 | 635 | 655 | 700 |
| SD | 615 | 660 | 680 | 725 |
| SE | 615 | 660 | 680 | 725 |
| SF | 305 | 310 | 310 | 315 |

## WEIGHTS (kgf)

| | CE–16 | CE–17 | CE–18 | CE–19 |
|---|---|---|---|---|
| H1/H2 | 120 | 130 | 140 | 150 |
| V1/V2 | 130 | 140 | 150 | 160 |
| VU1/VU2 | 135 | 145 | 155 | 165 |
| HFMT | 135 | 145 | 155 | 165 |
| HFMH | 120 | 130 | 135 | 150 |
| VFM | 125 | 135 | 140 | 155 |
| VFMT | 145 | 160 | 165 | 175 |
| VUB | 130 | 140 | 150 | 160 |

## SINGLE POINT SUSPENSION DIMENSION 'V'

| MOVEMENT PROVIDED mm | ALL SIZES | | CE–16 | CE–17 | CE–18 | CE–19 |
|---|---|---|---|---|---|---|
| | V1 | V3 | V2 | V2 | V2 | V2 |
| 60 | 64 | 73 | | | | |
| 70 | 75 | 85 | | | | |
| 80 | 86 | 96 | | | | |
| 90 | 96 | 107 | | | | |
| 100 | 105 | 119 | 110 | | | |
| 110 | 116 | 130 | 121 | 122 | 124 | 125 |
| 120 | 126 | 141 | 131 | 133 | 134 | 136 |
| 130 | 135 | 152 | 141 | 143 | 145 | 146 |
| 140 | 145 | 163 | 151 | 153 | 155 | 157 |
| 150 | 155 | 174 | 161 | 163 | 166 | 168 |
| 160 | 164 | 184 | 171 | 173 | 176 | 178 |
| 170 | 174 | 195 | 180 | 183 | 186 | 189 |
| 180 | 183 | 205 | 190 | 193 | 197 | 199 |
| 190 | 193 | 216 | 200 | 203 | 207 | 209 |
| 200 | 202 | 226 | 209 | 213 | 217 | 220 |
| 210 | 211 | 236 | 218 | 222 | 227 | 230 |
| 220 | 220 | 246 | 227 | 232 | 236 | 240 |
| 230 | 229 | 256 | 237 | 241 | 246 | 250 |
| 240 | 238 | 266 | 246 | 251 | 256 | 260 |
| 250 | TYPES H1 AND VU1 ARE NOT USED ABOVE 240mm TRAVEL | | 254 | 260 | 265 | 270 |
| 260 | | | 263 | 269 | 275 | 279 |
| 270 | | | 272 | 278 | 284 | 289 |
| 280 | | | 281 | 287 | 294 | 299 |
| 290 | | | 289 | 296 | 303 | 309 |
| 300 | | | 298 | 305 | 312 | 318 |
| 310 | | | 306 | 314 | 322 | 328 |
| 320 | | | 314 | 322 | 331 | 337 |
| 330 | | | 323 | 331 | 340 | 346 |
| 340 | | | 331 | 340 | 349 | 356 |
| 350 | | | 339 | 348 | 357 | 365 |
| 360 | | | 347 | 356 | 366 | 374 |
| 370 | | | 355 | 365 | 375 | 383 |
| 380 | | | 363 | 373 | 384 | 392 |
| 390 | | | 370 | 381 | 392 | 401 |
| 400 | | | 378 | 389 | 401 | 410 |
| 410 | | | 386 | 397 | 409 | 419 |
| 420 | | | 393 | 405 | 418 | 428 |
| 430 | | | 401 | 413 | 426 | 436 |
| 440 | | | 408 | 421 | 435 | 445 |
| 450 | | | 415 | 429 | 443 | 454 |
| 460 | | | 423 | 437 | 451 | 462 |
| 470 | | | 430 | 444 | 459 | 471 |
| 480 | | | 437 | 452 | 467 | 479 |
| 490 | | | 444 | 460 | 475 | 488 |
| 500 | | | 451 | 467 | 483 | 496 |
| 510 | | | 458 | 474 | 491 | 505 |
| 520 | | | 465 | 482 | 499 | 513 |
| 530 | | | 472 | 489 | 507 | 521 |
| 540 | | | 479 | 496 | 515 | 529 |
| 550 | | | 485 | 504 | 522 | 537 |
| 560 | | | 492 | 511 | 530 | 545 |
| 570 | | | 499 | 518 | 538 | 553 |
| 580 | | | 505 | 525 | 545 | 561 |
| 590 | | | 512 | 532 | 553 | 569 |
| 600 | | | 518 | 539 | 560 | 577 |
| 610 | | | 525 | 546 | 567 | 585 |
| 620 | | | 531 | 553 | 575 | 593 |
| 630 | | | 537 | 559 | 582 | 600 |
| 640 | | | 544 | 566 | 589 | 608 |
| 650 | | | 550 | 573 | 597 | 616 |
| 660 | | | 556 | 579 | 604 | 623 |
| 670 | | | 562 | 586 | 611 | 631 |
| 680 | | | 568 | 592 | 618 | 638 |
| 690 | | | 574 | 599 | 625 | 646 |
| 700 | | | 580 | 605 | 632 | 653 |
| 710 | | | 586 | 612 | 639 | 661 |
| 720 | | | 592 | 618 | 646 | 668 |
| 730 | | | 597 | 624 | 652 | 675 |
| 740 | | | 603 | 631 | 659 | 682 |
| 750 | | | 609 | 637 | 666 | 690 |

INSTALLED HEIGHT DIMENSIONS J4 AND J7 ALLOW ±25mm ADJUSTMENT.

TAKE-OUT DIMENSIONS A1, A2, A3, J5, J6 AND J8 ALLOW ±75mm ADJUSTMENT.

WHERE SEVERE HEADROOM LIMITATIONS EXIST, DIMENSIONS A1, A2 AND A3 CAN BE REDUCED AND DIMENSIONS J5, J6 AND J8 INCREASED AS FOLLOWS BY USE OF A SHORTENED EYEBOLT:

| ØX | M12 | M16 | M20 | M24 | M30 | M36 | M42 |
|---|---|---|---|---|---|---|---|
| CHANGE mm | 160 | 160 | 140 | 140 | 120 | 100 | 80 |

NOTE DIA. X IS THREADED ISO METRIC COARSE RIGHT HAND AS STANDARD. NOTE THAT DIMENSIONS A1, A2, A3, J4, J5, J6, J7 AND J8 ARE GIVEN AT ZERO ROTATION, THAT IS WITH THE LEVER IN THE UPPERMOST POSITION.

N.B. DIMENSION TA IS THE MINIMUM FORWARD CLEARANCE REQUIRED.

# CE: DIMENSIONS FOR SIZES CE-16 TO CE-19

| MOVEMENT PROVIDED mm | ALL SIZES | | | | | | | | CE–16 | | | | CE–17 | | | | CE–18 | | | | CE–19 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ALL | | | H1 H2 | V1 V2 | HFMT | HFMH | VUB | | VU1 VU2 | VFM | VFMT | | VU1 VU2 | VFM | VFMT | | VU1 VU2 | VFM | VFMT | | VU1 VU2 | VFM | VFMT |
| | C mm | D mm | E mm | A1 mm | A2 mm | J4 mm | J5 mm | J8 mm | ØX mm | A3 mm | J6 mm | J7 mm | ØX mm | A3 mm | J6 mm | J7 mm | ØX mm | A3 mm | J6 mm | J7 mm | ØX mm | A3 mm | J6 mm | J7 mm |
| | | AT ZERO ROTATION | | | | | | | | AT 0° ROTATION | | | | AT 0° ROTATION | | | | AT 0° ROTATION | | | | AT 0° ROTATION | | |
| 60 | 80 | 66 | 46 | 609 | | 625 | -179 | -179 | M30 | 1081 | | 1030 | M36 | 1128 | | 1075 | | | | | | | | |
| 70 | 94 | 77 | 54 | 601 | | 633 | -171 | -171 | M30 | 1073 | | 1038 | M36 | 1120 | | 1083 | M36 | 1139 | | 1103 | M42 | 1184 | | 1148 |
| 80 | 107 | 88 | 61 | 594 | | 640 | -164 | -164 | M30 | 1066 | | 1045 | M30 | 1113 | | 1090 | M36 | 1132 | | 1110 | M36 | 1177 | | 1155 |
| 90 | 120 | 99 | 69 | 586 | | 648 | -156 | -156 | M24 | 1058 | | 1053 | M30 | 1105 | | 1098 | M30 | 1124 | | 1118 | M36 | 1169 | | 1163 |
| 100 | 134 | 110 | 77 | 578 | 528 | 656 | -148 | -148 | M24 | 1050 | 317 | 1061 | M30 | 1097 | | 1106 | M30 | 1116 | | 1126 | M36 | 1161 | | 1171 |
| 110 | 147 | 121 | 84 | 571 | 521 | 663 | -141 | -141 | M24 | 1043 | 324 | 1068 | M30 | 1090 | 369 | 1113 | M30 | 1109 | 389 | 1133 | M30 | 1154 | 434 | 1178 |
| 120 | 161 | 132 | 92 | 563 | 513 | 671 | -133 | -133 | M24 | 1035 | 332 | 1076 | M24 | 1082 | 377 | 1121 | M30 | 1101 | 397 | 1141 | M30 | 1146 | 442 | 1186 |
| 130 | 174 | 143 | 100 | 555 | 505 | 679 | -125 | -125 | M20 | 1027 | 340 | 1084 | M24 | 1074 | 385 | 1129 | M30 | 1093 | 405 | 1149 | M30 | 1138 | 450 | 1194 |
| 140 | 187 | 153 | 107 | 548 | 498 | 686 | -118 | -118 | M20 | 1020 | 347 | 1091 | M24 | 1067 | 392 | 1136 | M30 | 1086 | 412 | 1156 | M30 | 1131 | 457 | 1201 |
| 150 | 201 | 164 | 115 | 540 | 490 | 694 | -110 | -110 | M20 | 1012 | 355 | 1099 | M24 | 1059 | 400 | 1144 | M24 | 1078 | 420 | 1164 | M30 | 1123 | 465 | 1209 |
| 160 | 214 | 175 | 123 | 532 | 482 | 702 | -102 | -102 | M20 | 1004 | 363 | 1107 | M24 | 1051 | 408 | 1152 | M24 | 1070 | 428 | 1172 | M30 | 1115 | 473 | 1217 |
| 170 | 228 | 186 | 130 | 525 | 475 | 709 | -95 | -95 | M20 | 997 | 370 | 1114 | M20 | 1044 | 415 | 1159 | M24 | 1063 | 435 | 1179 | M30 | 1108 | 480 | 1224 |
| 180 | 241 | 197 | 138 | 517 | 517 | 706 | -87 | -87 | M20 | 989 | 378 | 111 | M20 | 1036 | 423 | 1156 | M24 | 1055 | 443 | 1176 | M24 | 1100 | 488 | 1221 |
| 190 | 254 | 208 | 146 | 509 | 509 | 714 | -79 | -79 | M20 | 981 | 386 | 1119 | M20 | 1028 | 431 | 1164 | M24 | 1047 | 451 | 1184 | M24 | 1092 | 496 | 1229 |
| 200 | 268 | 219 | 154 | 501 | 501 | 722 | -71 | -71 | M20 | 973 | 394 | 1127 | M20 | 1020 | 439 | 1172 | M24 | 1039 | 459 | 1192 | M24 | 1084 | 504 | 1237 |
| 210 | 281 | 230 | 161 | 494 | 494 | 729 | -64 | -64 | M16 | 966 | 401 | 1134 | M20 | 1013 | 446 | 1179 | M20 | 1032 | 466 | 1199 | M24 | 1077 | 511 | 1244 |
| 220 | 294 | 241 | 169 | 486 | 486 | 737 | -56 | -56 | M16 | 958 | 409 | 1142 | M20 | 1005 | 454 | 1187 | M20 | 1024 | 474 | 1207 | M24 | 1069 | 519 | 1252 |
| 230 | 308 | 252 | 177 | 478 | 478 | 745 | -48 | -48 | M16 | 950 | 417 | 1150 | M20 | 997 | 462 | 1195 | M20 | 1016 | 482 | 1215 | M24 | 1061 | 527 | 1260 |
| 240 | 321 | 263 | 184 | 471 | 471 | 752 | -41 | -41 | M16 | 943 | 424 | 1157 | M20 | 990 | 469 | 1202 | M20 | 1009 | 489 | 1222 | M24 | 1054 | 534 | 1267 |
| 250 | 335 | 274 | 192 | 508 | 533 | 785 | -8 | -8 | M16 | 935 | 432 | 1165 | M20 | 982 | 477 | 1210 | M20 | 1001 | 497 | 1230 | M24 | 1046 | 542 | 1275 |
| 260 | 348 | 285 | 200 | 500 | 525 | 793 | 0 | 0 | M16 | 927 | 440 | 1173 | M16 | 974 | 485 | 1218 | M20 | 993 | 505 | 1238 | M20 | 1038 | 550 | 1283 |
| 270 | 361 | 296 | 207 | 493 | 518 | 800 | 7 | 7 | M16 | 920 | 447 | 1180 | M16 | 967 | 492 | 1225 | M20 | 986 | 512 | 1245 | M20 | 1031 | 557 | 1290 |
| 280 | 375 | 307 | 215 | 485 | 510 | 808 | 15 | 15 | M16 | 912 | 455 | 1188 | M16 | 959 | 500 | 1233 | M20 | 978 | 520 | 1253 | M20 | 1023 | 565 | 1298 |
| 290 | 388 | 318 | 223 | 477 | 502 | 816 | 23 | 23 | M16 | 904 | 463 | 1196 | M16 | 951 | 508 | 1241 | M20 | 970 | 528 | 1261 | M20 | 1015 | 573 | 1306 |
| 300 | 401 | 329 | 230 | 470 | 495 | 823 | 30 | 30 | M16 | 897 | 470 | 1203 | M16 | 944 | 515 | 1248 | M20 | 963 | 535 | 1268 | M20 | 1008 | 580 | 1313 |
| 310 | 415 | 340 | 238 | 462 | 487 | 831 | 38 | 38 | M16 | 889 | 478 | 1211 | M16 | 936 | 523 | 1256 | M20 | 955 | 543 | 1276 | M20 | 1000 | 588 | 1321 |
| 320 | 428 | 351 | 246 | 454 | 479 | 839 | 46 | 46 | M16 | 881 | 486 | 1219 | M16 | 928 | 531 | 1264 | M16 | 947 | 551 | 1284 | M20 | 992 | 596 | 1329 |
| 330 | 442 | 362 | 253 | 447 | 472 | 846 | 53 | 53 | M16 | 874 | 493 | 1226 | M16 | 921 | 538 | 1271 | M16 | 940 | 558 | 1291 | M20 | 985 | 603 | 1336 |
| 340 | 455 | 373 | 261 | 489 | 514 | 845 | 61 | 61 | M16 | 866 | 501 | 1225 | M16 | 913 | 546 | 1270 | M16 | 932 | 566 | 1290 | M20 | 977 | 611 | 1335 |
| 350 | 468 | 384 | 269 | 481 | 506 | 853 | 69 | 69 | M16 | 858 | 509 | 1233 | M16 | 905 | 554 | 1278 | M16 | 924 | 574 | 1298 | M20 | 969 | 619 | 1343 |
| 360 | 482 | 395 | 276 | 474 | 499 | 860 | 76 | 76 | M16 | 851 | 516 | 1240 | M16 | 898 | 561 | 1285 | M16 | 917 | 581 | 1305 | M20 | 962 | 626 | 1350 |
| 370 | 495 | 406 | 284 | 466 | 491 | 868 | 84 | 84 | M16 | 843 | 524 | 1248 | M16 | 890 | 569 | 1293 | M16 | 909 | 589 | 1313 | M20 | 954 | 634 | 1358 |
| 380 | 509 | 417 | 292 | 458 | 483 | 876 | 92 | 92 | M16 | 835 | 532 | 1256 | M16 | 882 | 577 | 1301 | M16 | 901 | 597 | 1321 | M20 | 946 | 642 | 1366 |
| 390 | 522 | 428 | 299 | 451 | 476 | 883 | 99 | 99 | M12 | 828 | 539 | 1263 | M16 | 875 | 584 | 1308 | M16 | 894 | 604 | 1328 | M20 | 939 | 649 | 1373 |
| 400 | 535 | 439 | 307 | 443 | 468 | 891 | 107 | 107 | M12 | 820 | 547 | 1271 | M16 | 867 | 592 | 1316 | M16 | 886 | 612 | 1336 | M16 | 931 | 657 | 1381 |
| 410 | 549 | 449 | 315 | 510 | 535 | 919 | 135 | 135 | M12 | 812 | 555 | 1279 | M16 | 859 | 600 | 1324 | M16 | 878 | 620 | 1344 | M16 | 923 | 665 | 1389 |
| 420 | 562 | 460 | 322 | 503 | 528 | 926 | 142 | 142 | M12 | 805 | 562 | 1286 | M16 | 852 | 607 | 1331 | M16 | 871 | 627 | 1351 | M16 | 916 | 672 | 1396 |
| 430 | 575 | 471 | 330 | 495 | 520 | 934 | 150 | 150 | M12 | 797 | 570 | 1294 | M16 | 844 | 615 | 1339 | M16 | 863 | 635 | 1359 | M16 | 908 | 680 | 1404 |
| 440 | 589 | 482 | 338 | 487 | 512 | 942 | 158 | 158 | M12 | 789 | 578 | 1302 | M16 | 836 | 623 | 1347 | M16 | 855 | 643 | 1367 | M16 | 900 | 688 | 1412 |
| 450 | 602 | 493 | 345 | 480 | 505 | 949 | 165 | 165 | M12 | 782 | 585 | 1309 | M16 | 829 | 630 | 1354 | M16 | 848 | 650 | 1374 | M16 | 893 | 695 | 1419 |
| 460 | 616 | 504 | 353 | 472 | 497 | 957 | 173 | 173 | M12 | 774 | 593 | 1317 | M16 | 821 | 638 | 1362 | M16 | 840 | 658 | 1382 | M16 | 885 | 703 | 1427 |
| 470 | 629 | 515 | 361 | 464 | 489 | 965 | 181 | 181 | M12 | 766 | 601 | 1325 | M16 | 813 | 646 | 1370 | M16 | 832 | 666 | 1390 | M16 | 877 | 711 | 1435 |
| 480 | 642 | 526 | 368 | 457 | 482 | 972 | 188 | 188 | M12 | 759 | 608 | 1332 | M16 | 806 | 653 | 1377 | M16 | 825 | 673 | 1397 | M16 | 870 | 718 | 1442 |
| 490 | 656 | 537 | 376 | 449 | 474 | 980 | 196 | 196 | M12 | 751 | 616 | 1340 | M16 | 798 | 661 | 1385 | M16 | 817 | 681 | 1405 | M16 | 862 | 726 | 1450 |
| 500 | 669 | 548 | 384 | 441 | 466 | 988 | 204 | 204 | M12 | 743 | 624 | 1348 | M12 | 790 | 669 | 1393 | M16 | 809 | 689 | 1413 | M16 | 854 | 734 | 1458 |
| 510 | 683 | 559 | 391 | 509 | 509 | 1015 | 231 | 231 | M12 | 736 | 631 | 1355 | M12 | 783 | 676 | 1400 | M16 | 802 | 696 | 1420 | M16 | 847 | 741 | 1465 |
| 520 | 696 | 570 | 399 | 501 | 501 | 1023 | 239 | 239 | M12 | 728 | 639 | 1363 | M12 | 775 | 684 | 1408 | M16 | 794 | 704 | 1428 | M16 | 839 | 749 | 1473 |
| 530 | 709 | 581 | 407 | 493 | 493 | 1031 | 247 | 247 | M12 | 720 | 647 | 1371 | M12 | 767 | 692 | 1416 | M16 | 786 | 712 | 1436 | M16 | 831 | 757 | 1481 |
| 540 | 723 | 592 | 415 | 485 | 485 | 1039 | 255 | 255 | M12 | 712 | 655 | 1379 | M12 | 759 | 700 | 1424 | M16 | 778 | 720 | 1444 | M16 | 823 | 765 | 1489 |
| 550 | 736 | 603 | 422 | 478 | 478 | 1046 | 262 | 262 | M12 | 705 | 662 | 1386 | M12 | 752 | 707 | 1431 | M16 | 771 | 727 | 1451 | M16 | 816 | 772 | 1496 |
| 560 | 749 | 614 | 430 | 470 | 470 | 1054 | 270 | 270 | M12 | 697 | 670 | 1394 | M12 | 744 | 715 | 1439 | M16 | 763 | 735 | 1459 | M16 | 808 | 780 | 1504 |
| 570 | 763 | 625 | 438 | 462 | 462 | 1062 | 278 | 278 | M12 | 689 | 678 | 1402 | M12 | 736 | 723 | 1447 | M16 | 755 | 743 | 1467 | M16 | 800 | 788 | 1512 |
| 580 | 776 | 636 | 445 | 455 | 455 | 1069 | 285 | 285 | M12 | 682 | 685 | 1409 | M12 | 729 | 730 | 1454 | M16 | 748 | 750 | 1474 | M16 | 793 | 795 | 1519 |
| 590 | 790 | 647 | 453 | 447 | 447 | 1077 | 293 | 293 | M12 | 674 | 693 | 1417 | M12 | 721 | 738 | 1462 | M16 | 740 | 758 | 1482 | M16 | 785 | 803 | 1527 |
| 600 | 803 | 658 | 461 | 439 | 439 | 1085 | 301 | 301 | M12 | 666 | 701 | 1425 | M12 | 713 | 746 | 1470 | M16 | 732 | 766 | 1490 | M16 | 777 | 811 | 1535 |
| 610 | 816 | 669 | 468 | 542 | 542 | 1117 | 333 | 333 | M12 | 659 | 708 | 1432 | M12 | 706 | 753 | 1477 | M12 | 725 | 773 | 1497 | M16 | 770 | 818 | 1542 |
| 620 | 830 | 680 | 476 | 534 | 534 | 1125 | 341 | 341 | M12 | 651 | 716 | 1440 | M12 | 698 | 761 | 1485 | M12 | 717 | 781 | 1505 | M16 | 762 | 826 | 1550 |
| 630 | 843 | 691 | 484 | 526 | 526 | 1133 | 349 | 349 | M12 | 643 | 724 | 1448 | M12 | 690 | 769 | 1493 | M12 | 709 | 789 | 1513 | M16 | 754 | 834 | 1558 |
| 640 | 857 | 702 | 491 | 519 | 519 | 1140 | 356 | 356 | M12 | 636 | 731 | 1455 | M12 | 683 | 776 | 1500 | M12 | 702 | 796 | 1520 | M16 | 747 | 841 | 1565 |
| 650 | 870 | 713 | 499 | 511 | 511 | 1148 | 364 | 364 | M12 | 628 | 739 | 1463 | M12 | 675 | 784 | 1508 | M12 | 694 | 804 | 1528 | M16 | 739 | 849 | 1573 |
| 660 | 883 | 724 | 507 | 503 | 503 | 1156 | 372 | 372 | M12 | 620 | 747 | 1471 | M12 | 667 | 792 | 1516 | M12 | 686 | 812 | 1536 | M16 | 731 | 857 | 1581 |
| 670 | 897 | 734 | 514 | 496 | 496 | 1163 | 379 | 379 | M12 | 613 | 754 | 1478 | M12 | 660 | 799 | 1523 | M12 | 679 | 819 | 1543 | M16 | 724 | 864 | 1588 |
| 680 | 910 | 745 | 522 | 488 | 488 | 1171 | 387 | 387 | M12 | 605 | 762 | 1486 | M12 | 652 | 807 | 1531 | M12 | 671 | 827 | 1551 | M16 | 716 | 872 | 1596 |
| 690 | 923 | 756 | 530 | 480 | 480 | 1179 | 395 | 395 | M12 | 597 | 770 | 1494 | M12 | 644 | 815 | 1539 | M12 | 663 | 835 | 1559 | M16 | 708 | 880 | 1604 |
| 700 | 937 | 767 | 537 | 473 | 473 | 1186 | 402 | 402 | M12 | 590 | 777 | 1501 | M12 | 637 | 822 | 1546 | M12 | 656 | 842 | 1566 | M16 | 701 | 887 | 1611 |
| 710 | 950 | 778 | 545 | 465 | 465 | 1194 | 410 | 410 | M12 | 582 | 785 | 1509 | M12 | 629 | 830 | 1554 | M12 | 648 | 850 | 1574 | M16 | 693 | 895 | 1619 |
| 720 | 964 | 789 | 553 | 457 | 457 | 1202 | 418 | 418 | M12 | 574 | 793 | 1517 | M12 | 621 | 838 | 1562 | M12 | 640 | 858 | 1582 | M16 | 685 | 903 | 1627 |
| 730 | 977 | 800 | 560 | 450 | 450 | 1209 | 425 | 425 | M12 | 567 | 800 | 1524 | M12 | 614 | 845 | 1569 | M12 | 633 | 865 | 1589 | M16 | 678 | 910 | 1634 |
| 740 | 990 | 811 | 568 | 442 | 442 | 1217 | 433 | 433 | M12 | 559 | 808 | 1532 | M12 | 606 | 853 | 1577 | M12 | 625 | 873 | 1597 | M16 | 670 | 918 | 1642 |
| 750 | 1004 | 822 | 576 | 434 | 434 | 1225 | 441 | 441 | M12 | 551 | 816 | 1540 | M12 | 598 | 861 | 1585 | M12 | 617 | 881 | 1605 | M16 | 662 | 926 | 1650 |

# CF: DIMENSIONS FOR SIZES CF-20 TO CF-23

## MOVEMENT DEPENDENT DIMENSIONS

| | | MOVEMENT PROVIDED mm | 80–130 | 140–210 | 220–300 | 310–410 | 420–500 | 510–600 | 610–750 |
|---|---|---|---|---|---|---|---|---|---|
| TRAVEL RANGE DEPENDENT DIMENSIONS | | U | 290 | 290 | 290 | 290 | 400 | 400 | 400 |
| | | TA | 276 | 379 | 496 | 639 | 756 | 886 | 1080 |
| | | TB | 355 | 355 | 355 | 395 | 460 | 535 | 645 |
| | | TC | 380 | 380 | 380 | 380 | 450 | 450 | 450 |
| | | TD | 190 | 190 | 190 | 210 | 210 | 230 | 250 |
| | | TE | 295 | 295 | 355 | 435 | 500 | 575 | 645 |
| | | TF | 380 | 380 | 380 | 475 | 550 | 630 | 745 |
| | | TG | 205 | 205 | 205 | 225 | 225 | 240 | 265 |
| | | TH | 205 | 205 | 205 | 225 | 225 | 240 | 265 |
| | | TJ | 305 | 305 | 305 | 305 | 305 | 305 | 305 |
| TOP SUSPENSION DETAILS | CF–20 | DD | 46 | 40 | 33 | 33 | 33 | 33 | 33 |
| | | AA | 90 | 80 | 70 | 70 | 70 | 70 | 70 |
| | | BB | 75 | 55 | 55 | 55 | 55 | 55 | 55 |
| | | CC | 130 | 110 | 100 | 100 | 100 | 100 | 100 |
| | | EE | 15 | 15 | 12 | 12 | 12 | 12 | 12 |
| | | GG | 60 | 45 | 40 | 40 | 40 | 40 | 40 |
| | | LL | M42 | M36 | M30 | M30 | M30 | M30 | M30 |
| | CF–21 | DD | 52 | 40 | 33 | 33 | 33 | 33 | 33 |
| | | AA | 105 | 80 | 70 | 70 | 70 | 70 | 70 |
| | | BB | 85 | 55 | 55 | 55 | 55 | 55 | 55 |
| | | CC | 150 | 110 | 100 | 100 | 100 | 100 | 100 |
| | | EE | 20 | 15 | 12 | 12 | 12 | 12 | 12 |
| | | GG | 70 | 45 | 40 | 40 | 40 | 40 | 40 |
| | | LL | M48 | M36 | M30 | M30 | M30 | M30 | M30 |
| | CF–22 | DD | 52 | 46 | 40 | 33 | 33 | 33 | 33 |
| | | AA | 105 | 90 | 80 | 70 | 70 | 70 | 70 |
| | | BB | 85 | 75 | 55 | 55 | 55 | 55 | 55 |
| | | CC | 150 | 130 | 110 | 100 | 100 | 100 | 100 |
| | | EE | 20 | 15 | 15 | 12 | 12 | 12 | 12 |
| | | GG | 70 | 60 | 45 | 40 | 40 | 40 | 40 |
| | | LL | M48 | M42 | M36 | M30 | M30 | M30 | M30 |
| | CF–23 | DD | 60 | 46 | 40 | 40 | 33 | 33 | 33 |
| | | AA | 120 | 90 | 80 | 80 | 70 | 70 | 70 |
| | | BB | 100 | 75 | 55 | 55 | 55 | 55 | 55 |
| | | CC | 180 | 130 | 110 | 110 | 100 | 100 | 100 |
| | | EE | 20 | 15 | 15 | 15 | 12 | 12 | 12 |
| | | GG | 75 | 60 | 45 | 45 | 40 | 40 | 40 |
| | | LL | M56 | M42 | M36 | M36 | M30 | M30 | M30 |

## FIXED DIMENSIONS

| | | | | | |
|---|---|---|---|---|---|
| FA | 520 | FQ | 150 | XE | 33 |
| FB | 177 | FR | 355 | XF | 430 |
| FC | 160 | FS | 455 | XG | 290 |
| FD | 111 | FT | 290 | XH | 210 |
| FE | 394 | FU | 75 | XJ | 340 |
| FF | 15 | FV | 265 | XK | 590 |
| FG | 75 | FW | 33 | XL | 33 |
| FH | 33 | FX | 200 | XM | 280 |
| FJ | 45 | FY | 260 | XN | 40 |
| FK | 355 | FZ | 490 | XP | 345 |
| FL | 265 | XA | 760 | XQ | 228 |
| FM | 20 | XB | 290 | XR | 305 |
| FN | 280 | XC | 380 | | |
| FP | 150 | XD | 400 | | |

## SPRING SIZE DEPENDENT DIMENSIONS

| | CF–20 | CF–21 | CF–22 | CF–23 |
|---|---|---|---|---|
| SA | 662 | 735 | 782 | 848 |
| SB | 702 | 775 | 822 | 888 |
| SC | 830 | 900 | 950 | 1015 |
| SD | 855 | 925 | 975 | 1040 |
| SE | 855 | 925 | 975 | 1040 |
| SF | 380 | 385 | 390 | 395 |

## WEIGHTS (kgf)

| | CF–20 | CF–21 | CF–22 | CF–23 |
|---|---|---|---|---|
| H1/H2 | 270 | 300 | 330 | 370 |
| V1/V2 | 290 | 320 | 350 | 380 |
| VU1/VU2 | 300 | 330 | 360 | 390 |
| HFMT | 300 | 330 | 360 | 390 |
| HFMH | 260 | 290 | 320 | 360 |
| VFM | 280 | 310 | 340 | 370 |
| VFMCS | 320 | 350 | 380 | 410 |
| VUB | 290 | 320 | 340 | 380 |

## SINGLE POINT SUSPENSION DIMENSION 'V'

| MOVEMENT PROVIDED mm | ALL SIZES | | CF–20 | CF–21 | CF–22 | CF–23 |
|---|---|---|---|---|---|---|
| | V1 | V3 | V2 | V2 | V2 | V2 |
| 80 | 83 | 97 | | | | |
| 90 | 93 | 108 | | | | |
| 100 | 103 | 120 | | | | |
| 110 | 112 | 131 | | | | |
| 120 | 122 | 142 | | | | |
| 130 | 132 | 153 | 142 | 143 | | |
| 140 | 141 | 164 | 152 | 153 | 155 | 156 |
| 150 | 151 | 175 | 162 | 164 | 165 | 167 |
| 160 | 160 | 186 | 172 | 174 | 176 | 177 |
| 170 | 170 | 197 | 182 | 184 | 186 | 188 |
| 180 | 179 | 208 | 192 | 194 | 196 | 198 |
| 190 | 188 | 218 | 201 | 204 | 206 | 208 |
| 200 | 197 | 228 | 211 | 214 | 216 | 219 |
| 210 | 206 | 239 | 220 | 223 | 226 | 229 |
| 220 | 215 | 249 | 230 | 233 | 236 | 239 |
| 230 | 224 | 259 | 239 | 243 | 246 | 249 |
| 240 | 233 | 270 | 248 | 252 | 256 | 259 |
| 250 | 241 | 279 | 258 | 262 | 265 | 269 |
| 260 | 250 | 289 | 267 | 271 | 275 | 279 |
| 270 | 259 | 299 | 276 | 280 | 284 | 288 |
| 280 | 267 | 309 | 285 | 289 | 294 | 298 |
| 290 | 275 | 319 | 293 | 298 | 303 | 308 |
| 300 | 284 | 328 | 302 | 307 | 312 | 317 |
| 310 | TYPES H1 AND VU1 ARE NOT USED ABOVE 300mm | | 311 | 316 | 322 | 327 |
| 320 | | | 319 | 325 | 331 | 336 |
| 330 | | | 328 | 334 | 340 | 346 |
| 340 | | | 336 | 343 | 349 | 355 |
| 350 | | | 345 | 352 | 358 | 364 |
| 360 | | | 353 | 360 | 367 | 373 |
| 370 | | | 361 | 369 | 376 | 382 |
| 380 | | | 369 | 377 | 384 | 392 |
| 390 | | | 378 | 386 | 393 | 401 |
| 400 | | | 386 | 394 | 402 | 410 |
| 410 | | | 394 | 402 | 410 | 418 |
| 420 | | | 401 | 410 | 419 | 427 |
| 430 | | | 409 | 419 | 427 | 436 |
| 440 | | | 417 | 427 | 436 | 445 |
| 450 | | | 425 | 435 | 444 | 453 |
| 460 | | | 432 | 443 | 452 | 462 |
| 470 | | | 440 | 451 | 461 | 471 |
| 480 | | | 447 | 459 | 469 | 479 |
| 490 | | | 455 | 466 | 477 | 488 |
| 500 | | | 462 | 474 | 485 | 496 |
| 510 | | | 470 | 482 | 493 | 505 |
| 520 | | | 477 | 489 | 501 | 513 |
| 530 | | | 484 | 497 | 509 | 521 |
| 540 | | | 491 | 505 | 517 | 529 |
| 550 | | | 498 | 512 | 525 | 538 |
| 560 | | | 505 | 519 | 532 | 546 |
| 570 | | | 512 | 527 | 540 | 554 |
| 580 | | | 519 | 534 | 548 | 562 |
| 590 | | | 526 | 541 | 555 | 570 |
| 600 | | | 533 | 549 | 563 | 578 |
| 610 | | | 540 | 556 | 571 | 586 |
| 620 | | | 547 | 563 | 578 | 593 |
| 630 | | | 553 | 570 | 585 | 601 |
| 640 | | | 560 | 577 | 593 | 609 |
| 650 | | | 566 | 584 | 600 | 617 |
| 660 | | | 573 | 591 | 607 | 624 |
| 670 | | | 579 | 598 | 615 | 632 |
| 680 | | | 586 | 604 | 622 | 639 |
| 690 | | | 592 | 611 | 629 | 647 |
| 700 | | | 599 | 618 | 636 | 655 |
| 710 | | | 605 | 625 | 643 | 662 |
| 720 | | | 611 | 631 | 650 | 669 |
| 730 | | | 617 | 638 | 657 | 677 |
| 740 | | | 624 | 644 | 664 | 684 |
| 750 | | | 630 | 651 | 671 | 691 |

INSTALLED HEIGHT DIMENSIONS J4 AND J7 ALLOW ±25mm ADJUSTMENT.

TAKE-OUT DIMENSIONS A1, A2, A3, J5, J6 AND J8 ALLOW ±75mm ADJUSTMENT.

WHERE SEVERE HEADROOM LIMITATIONS EXIST, DIMENSIONS A1, A2 AND A3 CAN BE REDUCED AND DIMENSIONS J5, J6 AND J8 INCREASED AS FOLLOWS BY USE OF A SHORTENED EYEBOLT:

| ØX | M16 | M20 | M24 | M30 | M36 | M42 | M48 | M56 |
|---|---|---|---|---|---|---|---|---|
| CHANGE mm | 160 | 140 | 140 | 120 | 100 | 80 | NIL | NIL |

NOTE DIA. X IS THREADED ISO METRIC COARSE RIGHT HAND AS STANDARD. NOTE THAT DIMENSIONS A1, A2, A3, J4, J5, J6, J7 AND J8 ARE GIVEN AT ZERO ROTATION, THAT IS WITH THE LEVER IN THE UPPERMOST POSITION.

N.B. DIMENSION TA IS THE MINIMUM FORWARD CLEARANCE REQUIRED.

# CF: DIMENSIONS FOR SIZES CF-20 TO CF-23

| MOVEMENT PROVIDED mm | ALL SIZES | | | | CF–20 | | | | | | | CF–21 | | | | | | | CF–22 | | | | | | | CF–23 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ALL | | | HFMT | | H1 H2 | V1 V2 | VU1 VU2 | VUB | VFMT | HFMH / VUB | | H1 H2 | V1 V2 | VU1 VU2 | VUB | VFMT | HFMH / VUB | | H1 H2 | V1 V2 | VU1 VU2 | VUB | VFMT | HFMH / VUB | | H1 H2 | V1 V2 | VU1 VU2 | VUB | VFMT | HFMH / VUB |
| | C mm | D mm | E mm | J4 mm | ØX mm | A1 mm | A2 mm | A3 mm | J6 mm | J7 mm | J5/J8 mm | ØX mm | A1 mm | A2 mm | A3 mm | J6 mm | J7 mm | J5/J8 mm | ØX mm | A1 mm | A2 mm | A3 mm | J6 mm | J7 mm | J5/J8 mm | ØX mm | A1 mm | A2 mm | A3 mm | J6 mm | J7 mm | J5/J8 mm |
| | | AT 0° ROTATION | | | AT ZERO ROTATION | | | | | | | AT ZERO ROTATION | | | | | | | AT ZERO ROTATION | | | | | | | AT ZERO ROTATION | | | | | | |
| 80 | 107 | 88 | 61 | 820 | M42 | 669 | | 1321 | | 1400 | -109 | M48 | 709 | | 1434 | | 1470 | -149 | | | | | | | | | | | | | | |
| 90 | 120 | 99 | 69 | 823 | M42 | 661 | | 1313 | | 1408 | -101 | M42 | 661 | | 1386 | | 1478 | -101 | M48 | 701 | | 1473 | | 1528 | -141 | M56 | 716 | | 1554 | | 1593 | -156 |
| 100 | 134 | 110 | 77 | 836 | M36 | 653 | | 1305 | | 1416 | -93 | M42 | 653 | | 1378 | | 1486 | -93 | M48 | 693 | | 1465 | | 1536 | -133 | M56 | 708 | | 1546 | | 1601 | -148 |
| 110 | 147 | 121 | 84 | 843 | M36 | 646 | | 1298 | | 1423 | -86 | M42 | 646 | | 1371 | | 1493 | -86 | M42 | 646 | | 1418 | | 1543 | -86 | M48 | 686 | | 1524 | | 1608 | -126 |
| 120 | 161 | 132 | 92 | 851 | M36 | 638 | | 1290 | | 1431 | -78 | M42 | 638 | | 1363 | | 1501 | -78 | M42 | 638 | | 1410 | | 1551 | -78 | M48 | 678 | | 1516 | | 1616 | -118 |
| 130 | 174 | 143 | 100 | 859 | M36 | 630 | 570 | 1282 | 580 | 1439 | -70 | M36 | 630 | 570 | 1355 | 650 | 1509 | -70 | M42 | 630 | | 1402 | | 1559 | -70 | M48 | 670 | | 1508 | | 1624 | -110 |
| 140 | 187 | 153 | 107 | 846 | M36 | 623 | 563 | 1275 | 587 | 1426 | -63 | M36 | 623 | 563 | 1348 | 657 | 1496 | -63 | M42 | 623 | 563 | 1395 | 707 | 1546 | -63 | M42 | 623 | 563 | 1461 | 772 | 1611 | -63 |
| 150 | 201 | 164 | 115 | 854 | M30 | 615 | 555 | 1267 | 595 | 1434 | -55 | M36 | 615 | 555 | 1340 | 665 | 1504 | -55 | M36 | 615 | 555 | 1387 | 715 | 1154 | -55 | M42 | 615 | 555 | 1453 | 780 | 1619 | -55 |
| 160 | 214 | 175 | 123 | 862 | M30 | 607 | 547 | 1259 | 603 | 1442 | -47 | M36 | 607 | 547 | 1332 | 673 | 1012 | -47 | M36 | 607 | 547 | 1379 | 723 | 1562 | -47 | M42 | 607 | 547 | 1445 | 788 | 1627 | -47 |
| 170 | 228 | 186 | 130 | 869 | M30 | 600 | 540 | 1252 | 610 | 1449 | -40 | M36 | 600 | 540 | 1325 | 680 | 1019 | -40 | M36 | 600 | 540 | 1372 | 730 | 1569 | -40 | M42 | 600 | 540 | 1438 | 795 | 1634 | -40 |
| 180 | 241 | 197 | 138 | 877 | M30 | 592 | 532 | 1244 | 618 | 1457 | -32 | M30 | 592 | 532 | 1317 | 688 | 1527 | -32 | M36 | 592 | 532 | 1364 | 738 | 1577 | -32 | M42 | 592 | 532 | 1430 | 803 | 1642 | -32 |
| 190 | 254 | 208 | 146 | 885 | M30 | 584 | 524 | 1236 | 626 | 1465 | -24 | M30 | 584 | 524 | 1309 | 696 | 1535 | -24 | M36 | 584 | 524 | 1356 | 746 | 1585 | -24 | M36 | 584 | 524 | 1422 | 811 | 1650 | -24 |
| 200 | 268 | 219 | 154 | 893 | M30 | 576 | 516 | 1228 | 634 | 1473 | -16 | M30 | 576 | 516 | 1301 | 704 | 1543 | -16 | M36 | 576 | 516 | 1348 | 754 | 1593 | -16 | M36 | 576 | 516 | 1414 | 819 | 1658 | -16 |
| 210 | 281 | 230 | 161 | 900 | M30 | 569 | 509 | 1221 | 641 | 1480 | -9 | M30 | 569 | 509 | 1294 | 711 | 1550 | -9 | M36 | 569 | 509 | 1341 | 761 | 1600 | -9 | M36 | 569 | 509 | 1407 | 826 | 1665 | -9 |
| 220 | 294 | 241 | 169 | 891 | M30 | 561 | 561 | 1213 | 649 | 1471 | -1 | M30 | 561 | 561 | 1286 | 719 | 1541 | -1 | M30 | 561 | 561 | 1333 | 769 | 1591 | -1 | M36 | 561 | 561 | 1399 | 834 | 1656 | -1 |
| 230 | 308 | 252 | 177 | 899 | M24 | 553 | 553 | 1205 | 657 | 1479 | 7 | M30 | 553 | 553 | 1278 | 727 | 1549 | 7 | M30 | 553 | 553 | 1325 | 777 | 1599 | 7 | M36 | 553 | 553 | 1391 | 842 | 1664 | 7 |
| 240 | 321 | 263 | 184 | 906 | M24 | 546 | 546 | 1198 | 664 | 1486 | 14 | M30 | 546 | 546 | 1271 | 734 | 1556 | 14 | M30 | 546 | 546 | 1318 | 784 | 1606 | 14 | M36 | 546 | 546 | 1384 | 849 | 1671 | 14 |
| 250 | 335 | 274 | 192 | 914 | M24 | 538 | 538 | 1190 | 672 | 1494 | 22 | M30 | 538 | 538 | 1263 | 742 | 1564 | 22 | M30 | 538 | 538 | 1310 | 792 | 1614 | 22 | M36 | 538 | 538 | 1376 | 857 | 1679 | 22 |
| 260 | 348 | 285 | 200 | 922 | M24 | 530 | 530 | 1182 | 680 | 1502 | 30 | M30 | 530 | 530 | 1255 | 750 | 1572 | 30 | M30 | 530 | 530 | 1302 | 800 | 1622 | 30 | M36 | 530 | 530 | 1368 | 865 | 1687 | 30 |
| 270 | 361 | 296 | 207 | 929 | M24 | 523 | 523 | 1175 | 687 | 1509 | 37 | M30 | 523 | 523 | 1248 | 757 | 1579 | 37 | M30 | 523 | 523 | 1295 | 807 | 1629 | 37 | M36 | 523 | 523 | 1361 | 872 | 1694 | 37 |
| 280 | 375 | 307 | 215 | 937 | M24 | 515 | 515 | 1167 | 695 | 1517 | 45 | M30 | 515 | 515 | 1240 | 765 | 1587 | 45 | M30 | 515 | 515 | 1287 | 815 | 1637 | 45 | M30 | 515 | 515 | 1353 | 880 | 1702 | 45 |
| 290 | 388 | 318 | 223 | 945 | M24 | 507 | 507 | 1159 | 703 | 1525 | 53 | M24 | 507 | 507 | 1232 | 773 | 1595 | 53 | M30 | 507 | 507 | 1279 | 823 | 1645 | 53 | M30 | 507 | 507 | 1345 | 888 | 1710 | 53 |
| 300 | 401 | 329 | 230 | 952 | M24 | 500 | 500 | 1152 | 710 | 1532 | 60 | M24 | 500 | 500 | 1225 | 780 | 1602 | 60 | M30 | 500 | 500 | 1272 | 830 | 1652 | 60 | M30 | 500 | 500 | 1338 | 895 | 1717 | 60 |
| 310 | 415 | 340 | 238 | 971 | M24 | 532 | 572 | 1144 | 718 | 1531 | 88 | M24 | 532 | 572 | 1217 | 788 | 1601 | 88 | M30 | 532 | 572 | 1264 | 838 | 1651 | 88 | M30 | 532 | 572 | 1330 | 903 | 1716 | 88 |
| 320 | 428 | 351 | 246 | 979 | M24 | 524 | 564 | 1136 | 726 | 1539 | 96 | M24 | 524 | 564 | 1209 | 796 | 1609 | 96 | M30 | 524 | 564 | 1256 | 846 | 1659 | 96 | M30 | 524 | 564 | 1322 | 911 | 1724 | 96 |
| 330 | 442 | 362 | 253 | 986 | M20 | 517 | 557 | 1129 | 733 | 1546 | 103 | M24 | 517 | 557 | 1202 | 803 | 1616 | 103 | M30 | 517 | 557 | 1249 | 853 | 1666 | 103 | M30 | 517 | 557 | 1315 | 918 | 1731 | 103 |
| 340 | 455 | 373 | 261 | 994 | M20 | 509 | 549 | 1121 | 741 | 1554 | 111 | M24 | 509 | 549 | 1194 | 811 | 1624 | 111 | M30 | 509 | 549 | 1241 | 861 | 1674 | 111 | M30 | 509 | 549 | 1307 | 926 | 1739 | 111 |
| 350 | 468 | 384 | 269 | 1002 | M20 | 501 | 541 | 1113 | 749 | 1562 | 119 | M24 | 501 | 541 | 1186 | 819 | 1632 | 119 | M30 | 501 | 541 | 1233 | 869 | 1682 | 119 | M30 | 501 | 541 | 1299 | 934 | 1747 | 119 |
| 360 | 482 | 395 | 276 | 1009 | M20 | 494 | 534 | 1106 | 756 | 1569 | 126 | M24 | 494 | 534 | 1179 | 826 | 1639 | 126 | M24 | 494 | 534 | 1226 | 876 | 1689 | 126 | M30 | 494 | 534 | 1292 | 941 | 1754 | 126 |
| 370 | 495 | 406 | 284 | 1017 | M20 | 486 | 526 | 1098 | 764 | 1577 | 134 | M24 | 486 | 526 | 1171 | 834 | 1647 | 134 | M24 | 486 | 526 | 1218 | 884 | 1697 | 134 | M30 | 486 | 526 | 1284 | 949 | 1762 | 134 |
| 380 | 509 | 417 | 292 | 1025 | M20 | 478 | 518 | 1090 | 772 | 1585 | 142 | M24 | 478 | 518 | 1163 | 842 | 1655 | 142 | M24 | 478 | 518 | 1210 | 892 | 1705 | 142 | M30 | 478 | 518 | 1276 | 957 | 1770 | 142 |
| 390 | 522 | 428 | 299 | 1032 | M20 | 471 | 511 | 1083 | 779 | 1592 | 149 | M24 | 471 | 511 | 1156 | 849 | 1662 | 149 | M24 | 471 | 511 | 1203 | 899 | 1712 | 149 | M30 | 471 | 511 | 1269 | 964 | 1777 | 149 |
| 400 | 535 | 439 | 307 | 1040 | M20 | 463 | 503 | 1075 | 787 | 1600 | 157 | M24 | 463 | 503 | 1148 | 857 | 1670 | 157 | M24 | 463 | 503 | 1195 | 907 | 1720 | 157 | M30 | 463 | 503 | 1261 | 972 | 1785 | 157 |
| 410 | 549 | 449 | 315 | 1048 | M20 | 455 | 495 | 1067 | 795 | 1608 | 165 | M24 | 455 | 495 | 1140 | 865 | 1678 | 165 | M24 | 455 | 495 | 1187 | 915 | 1728 | 165 | M30 | 455 | 495 | 1253 | 980 | 1793 | 165 |
| 420 | 562 | 460 | 322 | 1055 | M20 | 513 | 553 | 1060 | 802 | 1615 | 172 | M20 | 513 | 553 | 1133 | 872 | 1685 | 172 | M24 | 513 | 553 | 1180 | 922 | 1735 | 172 | M30 | 513 | 553 | 1246 | 987 | 1800 | 172 |
| 430 | 575 | 471 | 330 | 1063 | M20 | 505 | 545 | 1052 | 810 | 1623 | 180 | M20 | 505 | 545 | 1125 | 880 | 1693 | 180 | M24 | 505 | 545 | 1172 | 930 | 1743 | 180 | M30 | 505 | 545 | 1238 | 995 | 1808 | 180 |
| 440 | 589 | 482 | 338 | 1071 | M20 | 497 | 537 | 1044 | 818 | 1631 | 188 | M20 | 497 | 537 | 1117 | 888 | 1701 | 188 | M24 | 497 | 537 | 1164 | 938 | 1751 | 188 | M24 | 497 | 537 | 1230 | 1003 | 1816 | 188 |
| 450 | 602 | 493 | 345 | 1078 | M20 | 490 | 530 | 1037 | 825 | 1638 | 195 | M20 | 490 | 530 | 1110 | 895 | 1708 | 195 | M24 | 490 | 530 | 1157 | 945 | 1758 | 195 | M24 | 490 | 530 | 1223 | 1010 | 1823 | 195 |
| 460 | 616 | 504 | 353 | 1086 | M20 | 482 | 522 | 1029 | 833 | 1646 | 203 | M20 | 482 | 522 | 1102 | 903 | 1716 | 203 | M24 | 482 | 522 | 1149 | 953 | 1766 | 203 | M24 | 482 | 522 | 1215 | 1018 | 1831 | 203 |
| 470 | 629 | 515 | 361 | 1094 | M20 | 474 | 514 | 1021 | 841 | 1654 | 211 | M20 | 474 | 514 | 1094 | 911 | 1724 | 211 | M24 | 474 | 514 | 1141 | 961 | 1774 | 211 | M24 | 474 | 514 | 1207 | 1026 | 1839 | 211 |
| 480 | 642 | 526 | 368 | 1101 | M20 | 467 | 507 | 1014 | 848 | 1661 | 218 | M20 | 467 | 507 | 1087 | 918 | 1731 | 218 | M24 | 467 | 507 | 1134 | 968 | 1781 | 218 | M24 | 467 | 507 | 1200 | 1033 | 1846 | 218 |
| 490 | 656 | 537 | 376 | 1109 | M20 | 459 | 499 | 1006 | 856 | 1669 | 226 | M20 | 459 | 499 | 1079 | 926 | 1739 | 226 | M24 | 459 | 499 | 1126 | 976 | 1789 | 226 | M24 | 459 | 499 | 1192 | 1041 | 1854 | 226 |
| 500 | 669 | 548 | 384 | 1117 | M20 | 451 | 491 | 998 | 864 | 1677 | 234 | M20 | 451 | 491 | 1071 | 934 | 1747 | 234 | M24 | 451 | 491 | 1118 | 984 | 1797 | 234 | M24 | 451 | 491 | 1184 | 1049 | 1862 | 234 |
| 510 | 683 | 559 | 391 | 1139 | M20 | 519 | 559 | 991 | 871 | 1679 | 256 | M20 | 519 | 559 | 1064 | 941 | 1749 | 256 | M20 | 519 | 559 | 1111 | 991 | 1799 | 256 | M24 | 519 | 559 | 1177 | 1056 | 1864 | 256 |
| 520 | 696 | 570 | 399 | 1147 | M16 | 511 | 551 | 983 | 879 | 1687 | 264 | M20 | 511 | 551 | 1056 | 949 | 1757 | 264 | M20 | 511 | 551 | 1103 | 999 | 1807 | 264 | M24 | 511 | 551 | 1169 | 1064 | 1872 | 264 |
| 530 | 709 | 581 | 407 | 1155 | M16 | 503 | 543 | 975 | 887 | 1695 | 272 | M20 | 503 | 543 | 1048 | 957 | 1765 | 272 | M20 | 503 | 543 | 1095 | 1007 | 1815 | 272 | M24 | 503 | 543 | 1161 | 1072 | 1880 | 272 |
| 540 | 723 | 592 | 415 | 1163 | M16 | 495 | 535 | 967 | 895 | 1703 | 280 | M20 | 495 | 535 | 1040 | 965 | 1773 | 280 | M20 | 495 | 535 | 1087 | 1015 | 1823 | 280 | M24 | 495 | 535 | 1153 | 1080 | 1888 | 280 |
| 550 | 736 | 603 | 422 | 1170 | M16 | 488 | 528 | 960 | 902 | 1710 | 287 | M20 | 488 | 528 | 1033 | 972 | 1780 | 287 | M20 | 488 | 528 | 1080 | 1022 | 1830 | 287 | M24 | 488 | 528 | 1146 | 1087 | 1895 | 287 |
| 560 | 749 | 614 | 430 | 1178 | M16 | 480 | 520 | 952 | 910 | 1718 | 295 | M20 | 480 | 520 | 1025 | 980 | 1788 | 295 | M20 | 480 | 520 | 1072 | 1030 | 1838 | 295 | M24 | 480 | 520 | 1138 | 1095 | 1903 | 295 |
| 570 | 763 | 625 | 438 | 1186 | M16 | 472 | 512 | 944 | 918 | 1726 | 303 | M20 | 472 | 512 | 1017 | 988 | 1796 | 303 | M20 | 472 | 512 | 1064 | 1038 | 1846 | 303 | M24 | 472 | 512 | 1130 | 1103 | 1911 | 303 |
| 580 | 776 | 636 | 445 | 1193 | M16 | 465 | 505 | 937 | 925 | 1733 | 310 | M20 | 465 | 505 | 1010 | 995 | 1803 | 310 | M20 | 465 | 505 | 1057 | 1045 | 1853 | 310 | M24 | 465 | 505 | 1123 | 1110 | 1918 | 310 |
| 590 | 790 | 647 | 453 | 1201 | M16 | 457 | 497 | 929 | 933 | 1741 | 318 | M20 | 457 | 497 | 1002 | 1003 | 1811 | 318 | M20 | 457 | 497 | 1049 | 1053 | 1861 | 318 | M24 | 457 | 497 | 1115 | 1118 | 1926 | 318 |
| 600 | 803 | 658 | 461 | 1209 | M16 | 449 | 489 | 921 | 941 | 1749 | 326 | M20 | 449 | 489 | 994 | 1011 | 1819 | 326 | M20 | 449 | 489 | 1041 | 1061 | 1869 | 326 | M24 | 449 | 489 | 1107 | 1126 | 1934 | 326 |
| 610 | 816 | 669 | 468 | 1236 | M16 | 552 | 552 | 914 | 948 | 1756 | 358 | M20 | 552 | 552 | 987 | 1018 | 1826 | 358 | M20 | 552 | 552 | 1034 | 1068 | 1876 | 358 | M24 | 552 | 552 | 1100 | 1133 | 1941 | 358 |
| 620 | 830 | 680 | 476 | 1244 | M16 | 544 | 544 | 906 | 956 | 1764 | 366 | M20 | 544 | 544 | 979 | 1026 | 1834 | 366 | M20 | 544 | 544 | 1026 | 1076 | 1884 | 366 | M24 | 544 | 544 | 1092 | 1141 | 1949 | 366 |
| 630 | 843 | 691 | 484 | 1252 | M16 | 536 | 536 | 898 | 964 | 1772 | 374 | M20 | 536 | 536 | 971 | 1034 | 1842 | 374 | M20 | 536 | 536 | 1018 | 1084 | 1892 | 374 | M24 | 536 | 536 | 1084 | 1149 | 1957 | 374 |
| 640 | 857 | 702 | 491 | 1259 | M16 | 529 | 529 | 891 | 971 | 1779 | 381 | M20 | 529 | 529 | 964 | 1041 | 1849 | 381 | M20 | 529 | 529 | 1011 | 1091 | 1899 | 381 | M20 | 529 | 529 | 1077 | 1156 | 1964 | 381 |
| 650 | 870 | 713 | 499 | 1267 | M16 | 521 | 521 | 883 | 979 | 1787 | 389 | M16 | 521 | 521 | 956 | 1049 | 1857 | 389 | M20 | 521 | 521 | 1003 | 1099 | 1907 | 389 | M20 | 521 | 521 | 1069 | 1164 | 1972 | 389 |
| 660 | 883 | 724 | 507 | 1275 | M16 | 513 | 513 | 875 | 987 | 1795 | 397 | M16 | 513 | 513 | 948 | 1057 | 1865 | 397 | M20 | 513 | 513 | 995 | 1107 | 1915 | 397 | M20 | 513 | 513 | 1061 | 1172 | 1980 | 397 |
| 670 | 897 | 734 | 514 | 1282 | M16 | 506 | 506 | 868 | 994 | 1802 | 404 | M16 | 506 | 506 | 941 | 1064 | 1872 | 404 | M20 | 506 | 506 | 988 | 1114 | 1922 | 404 | M20 | 506 | 506 | 1054 | 1179 | 1987 | 404 |
| 680 | 910 | 745 | 522 | 1290 | M16 | 498 | 498 | 860 | 1002 | 1810 | 412 | M16 | 498 | 498 | 933 | 1072 | 1880 | 412 | M20 | 498 | 498 | 980 | 1122 | 1930 | 412 | M20 | 498 | 498 | 1046 | 1187 | 1995 | 412 |
| 690 | 923 | 756 | 530 | 1298 | M16 | 490 | 490 | 852 | 1010 | 1818 | 420 | M16 | 490 | 490 | 925 | 1080 | 1888 | 420 | M20 | 490 | 490 | 972 | 1130 | 1938 | 420 | M20 | 490 | 490 | 1038 | 1195 | 2003 | 420 |
| 700 | 937 | 767 | 537 | 1305 | M16 | 483 | 483 | 845 | 1017 | 1825 | 427 | M16 | 483 | 483 | 918 | 1087 | 1895 | 427 | M20 | 483 | 483 | 965 | 1137 | 1945 | 427 | M20 | 483 | 483 | 1031 | 1202 | 2010 | 427 |
| 710 | 950 | 778 | 545 | 1313 | M16 | 475 | 475 | 837 | 1025 | 1833 | 435 | M16 | 475 | 475 | 910 | 1095 | 1903 | 435 | M20 | 475 | 475 | 957 | 1145 | 1953 | 435 | M20 | 475 | 475 | 1023 | 1210 | 2018 | 435 |
| 720 | 964 | 789 | 553 | 1321 | M16 | 467 | 467 | 829 | 1033 | 1841 | 443 | M16 | 467 | 467 | 902 | 1103 | 1911 | 443 | M20 | 467 | 467 | 949 | 1153 | 1961 | 443 | M20 | 467 | 467 | 1015 | 1218 | 2026 | 443 |
| 730 | 977 | 800 | 560 | 1328 | M16 | 460 | 460 | 822 | 1040 | 1848 | 450 | M16 | 460 | 460 | 895 | 1110 | 1918 | 450 | M20 | 460 | 460 | 942 | 1160 | 1968 | 450 | M20 | 460 | 460 | 1008 | 1225 | 2033 | 450 |
| 740 | 990 | 811 | 568 | 1336 | M16 | 452 | 452 | 814 | 1048 | 1856 | 458 | M16 | 452 | 452 | 887 | 1118 | 1926 | 458 | M20 | 452 | 452 | 934 | 1168 | 1976 | 458 | M20 | 452 | 452 | 1000 | 1233 | 2041 | 458 |
| 750 | 1004 | 822 | 576 | 1344 | M16 | 444 | 444 | 806 | 1056 | 1864 | 466 | M16 | 444 | 444 | 879 | 1126 | 1934 | 466 | M20 | 444 | 444 | 926 | 1176 | 1984 | 466 | M20 | 444 | 444 | 992 | 1241 | 2049 | 466 |

# CG: DIMENSIONS FOR SIZES CG-24 TO CG-27

## MOVEMENT DEPENDENT DIMENSIONS

| | | MOVEMENT PROVIDED mm | 90–180 | 190–340 | 350–440 | 450–540 | 550–640 | 650–750 |
|---|---|---|---|---|---|---|---|---|
| TRAVEL RANGE DEPENDENT DIMENSIONS | | U | 355 | 355 | 385 | 385 | 525 | 525 |
| | | TA | 445 | 630 | 745 | 860 | 975 | 1102 |
| | | TB | 510 | 510 | 540 | 540 | 600 | 665 |
| | | TC | 475 | 475 | 475 | 475 | 600 | 600 |
| | | TD | 270 | 270 | 270 | 270 | 270 | 280 |
| | | TE | 510 | 510 | 540 | 600 | 640 | 695 |
| | | TF | 475 | 475 | 525 | 600 | 685 | 770 |
| | | TG | 290 | 290 | 290 | 290 | 290 | 300 |
| | | TH | 290 | 290 | 290 | 290 | 290 | 300 |
| | | TJ | 460 | 460 | 460 | 460 | 460 | 460 |
| TOP SUSPENSION DETAILS | CG–24 | DD | 60 | 46 | 40 | 40 | 40 | 40 |
| | | AA | 120 | 90 | 80 | 80 | 80 | 80 |
| | | BB | 100 | 75 | 55 | 55 | 55 | 55 |
| | | CC | 180 | 130 | 110 | 110 | 110 | 110 |
| | | EE | 20 | 15 | 15 | 15 | 15 | 15 |
| | | GG | 75 | 60 | 45 | 45 | 45 | 45 |
| | | LL | M56 | M42 | M36 | M36 | M36 | M36 |
| | CG–25 | DD | 68 | 52 | 40 | 40 | 40 | 40 |
| | | AA | 140 | 105 | 80 | 80 | 80 | 80 |
| | | BB | 115 | 85 | 55 | 55 | 55 | 55 |
| | | CC | 200 | 150 | 110 | 110 | 110 | 110 |
| | | EE | 20 | 20 | 15 | 15 | 15 | 15 |
| | | GG | 80 | 70 | 45 | 45 | 45 | 45 |
| | | LL | M64 | M48 | M36 | M36 | M36 | M36 |
| | CG–26 | DD | 68 | 60 | 46 | 46 | 40 | 40 |
| | | AA | 140 | 120 | 90 | 90 | 80 | 80 |
| | | BB | 115 | 100 | 75 | 75 | 55 | 55 |
| | | CC | 200 | 180 | 130 | 130 | 110 | 110 |
| | | EE | 20 | 20 | 15 | 15 | 15 | 15 |
| | | GG | 80 | 75 | 60 | 60 | 45 | 45 |
| | | LL | M64 | M56 | M42 | M42 | M36 | M36 |
| | CG–27 | DD | 76 | 60 | 52 | 46 | 46 | 46 |
| | | AA | 155 | 120 | 105 | 90 | 90 | 90 |
| | | BB | 130 | 100 | 85 | 75 | 75 | 75 |
| | | CC | 220 | 180 | 150 | 130 | 130 | 130 |
| | | EE | 25 | 20 | 20 | 15 | 15 | 15 |
| | | GG | 90 | 75 | 70 | 60 | 60 | 60 |
| | | LL | M72 | M56 | M48 | M42 | M42 | M42 |

## FIXED DIMENSIONS

| | | | | | |
|---|---|---|---|---|---|
| FA | 655 | FQ | 150 | XE | 40 |
| FB | 228 | FR | 480 | XF | 570 |
| FC | 240 | FS | 585 | XG | 355 |
| FD | 179 | FT | 355 | XH | 320 |
| FE | 526 | FU | 100 | XJ | 440 |
| FF | 25 | FV | 350 | XK | 805 |
| FG | 100 | FW | 40 | XL | 40 |
| FH | 40 | FX | 280 | XM | 400 |
| FJ | 65 | FY | 375 | XN | 50 |
| FK | 480 | FZ | 630 | XP | 500 |
| FL | 350 | XA | 1020 | XQ | 302 |
| FM | 30 | XB | 355 | XR | 460 |
| FN | 400 | XC | 535 | | |
| FP | 230 | XD | 500 | | |

## SPRING SIZE DEPENDENT DIMENSIONS

| | CG–24 | CG–25 | CG–26 | CG–27 |
|---|---|---|---|---|
| SA | 868 | 868 | 868 | 868 |
| SB | 918 | 918 | 918 | 918 |
| SC | 1115 | 1115 | 1115 | 1115 |
| SD | 1150 | 1150 | 1150 | 1150 |
| SE | 1150 | 1150 | 1150 | 1150 |
| SF | 540 | 540 | 540 | 540 |

## WEIGHTS (kgf)

| | CG–24 | CG–25 | CG–26 | CG–27 |
|---|---|---|---|---|
| HS/HD | 580 | 620 | 670 | 720 |
| VS/VD | 610 | 660 | 710 | 760 |
| VIS/VID | 630 | 680 | 730 | 780 |
| HBMCS | 630 | 670 | 720 | 770 |
| HBM | 560 | 610 | 650 | 710 |
| VBM | 590 | 640 | 690 | 740 |
| VBMCS | 670 | 720 | 770 | 820 |
| VUB | 610 | 650 | 700 | 750 |

## SINGLE POINT SUSPENSION DIMENSION 'V'

| MOVEMENT PROVIDED mm | ALL SIZES | | CG–24 | CG–25 | CG–26 | CG–27 |
|---|---|---|---|---|---|---|
| | V1 | V3 | V2 | V2 | V2 | V2 |
| 90 | 91 | 110 | | | | |
| 100 | 101 | 122 | | | | |
| 110 | 111 | 133 | | | | |
| 120 | 120 | 144 | | | | |
| 130 | 130 | 156 | | | | |
| 140 | 139 | 167 | 149 | | | |
| 150 | 149 | 178 | 158 | 162 | 165 | 166 |
| 160 | 157 | 189 | 168 | 172 | 175 | 177 |
| 170 | 167 | 200 | 178 | 182 | 185 | 187 |
| 180 | 176 | 211 | 187 | 192 | 196 | 198 |
| 190 | 185 | 222 | 197 | 202 | 206 | 208 |
| 200 | 194 | 232 | 206 | 212 | 216 | 218 |
| 210 | 203 | 243 | 216 | 222 | 226 | 229 |
| 220 | 212 | 254 | 225 | 232 | 236 | 239 |
| 230 | 220 | 264 | 234 | 241 | 246 | 249 |
| 240 | 229 | 275 | 243 | 251 | 256 | 259 |
| 250 | 238 | 285 | 252 | 260 | 266 | 269 |
| 260 | 246 | 295 | 261 | 270 | 275 | 279 |
| 270 | 255 | 305 | 270 | 279 | 285 | 289 |
| 280 | 263 | 315 | 279 | 288 | 295 | 299 |
| 290 | 272 | 325 | 287 | 297 | 304 | 308 |
| 300 | 280 | 335 | 296 | 307 | 314 | 318 |
| 310 | 288 | 345 | 304 | 316 | 323 | 328 |
| 320 | 297 | 355 | 313 | 325 | 331 | 337 |
| 330 | 305 | 364 | 321 | 334 | 342 | 347 |
| 340 | 313 | 374 | 330 | 342 | 351 | 356 |
| 350 | TYPES H1 AND VU1 ARE NOT USED ABOVE 340mm TRAVEL | | 338 | 351 | 360 | 366 |
| 360 | | | 346 | 360 | 369 | 375 |
| 370 | | | 354 | 369 | 378 | 384 |
| 380 | | | 362 | 377 | 387 | 394 |
| 390 | | | 370 | 386 | 396 | 403 |
| 400 | | | 378 | 394 | 405 | 412 |
| 410 | | | 386 | 403 | 414 | 421 |
| 420 | | | 394 | 411 | 423 | 430 |
| 430 | | | 401 | 419 | 431 | 439 |
| 440 | | | 409 | 428 | 440 | 448 |
| 450 | | | 416 | 436 | 449 | 457 |
| 460 | | | 424 | 444 | 457 | 466 |
| 470 | | | 431 | 452 | 466 | 475 |
| 480 | | | 439 | 460 | 474 | 483 |
| 490 | | | 446 | 468 | 483 | 492 |
| 500 | | | 454 | 476 | 491 | 501 |
| 510 | | | 461 | 484 | 499 | 509 |
| 520 | | | 468 | 492 | 508 | 518 |
| 530 | | | 475 | 500 | 516 | 527 |
| 540 | | | 482 | 507 | 524 | 535 |
| 550 | | | 489 | 515 | 532 | 543 |
| 560 | | | 496 | 523 | 540 | 552 |
| 570 | | | 503 | 530 | 548 | 560 |
| 580 | | | 510 | 538 | 556 | 569 |
| 590 | | | 517 | 545 | 564 | 577 |
| 600 | | | 523 | 553 | 572 | 585 |
| 610 | | | 530 | 560 | 580 | 593 |
| 620 | | | 537 | 567 | 588 | 601 |
| 630 | | | 543 | 575 | 596 | 609 |
| 640 | | | 550 | 582 | 603 | 617 |
| 650 | | | 556 | 589 | 611 | 625 |
| 660 | | | 563 | 596 | 619 | 633 |
| 670 | | | 569 | 603 | 626 | 641 |
| 680 | | | 576 | 610 | 634 | 649 |
| 690 | | | 582 | 617 | 641 | 657 |
| 700 | | | 588 | 624 | 649 | 665 |
| 710 | | | 594 | 631 | 656 | 673 |
| 720 | | | 601 | 638 | 663 | 680 |
| 730 | | | 607 | 645 | 671 | 688 |
| 740 | | | 613 | 652 | 678 | 696 |
| 750 | | | 619 | 658 | 685 | 703 |

INSTALLED HEIGHT DIMENSIONS J4 AND J7 ALLOW ± 25mm ADJUSTMENT.

TAKE-OUT DIMENSIONS A1, A2, A3, J5, J6 AND J8 ALLOW ±75mm ADJUSTMENT.

WHERE SEVERE HEADROOM LIMITATIONS EXIST, DIMENSIONS A1, A2 AND A3 CAN BE REDUCED AND DIMENSIONS J5, J6 AND J8 INCREASED AS FOLLOWS BY USE OF A SHORTENED EYEBOLT:

| ØX | M20 | M24 | M30 | M36 | M42 | M48 | M56 | M64 | M72 |
|---|---|---|---|---|---|---|---|---|---|
| CHANGE mm | 140 | 140 | 120 | 100 | 80 | NIL | NIL | NIL | NIL |

NOTE DIA. X IS THREADED ISO METRIC COARSE RIGHT HAND AS STANDARD.

NOTE THAT DIMENSIONS A1, A2, A3, J4, J5, J6, J7 AND J8 ARE GIVEN AT ZERO ROTATION, THAT IS WITH THE LEVER IN THE UPPERMOST POSITION.

N.B. DIMENSION TA IS THE MINIMUM FORWARD CLEARANCE REQUIRED.

# CG: DIMENSIONS FOR SIZES CG-24 TO CG-27

| MOVEMENT PROVIDED mm | ALL SIZES | | | | CG–24 | | | | | | | CG–25 | | | | | | | CG–26 | | | | | | | CG–27 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ALL | | | HFMT | | H1 H2 | V1 V2 | VU1 VU2 | VFM | VFMT | HFMH / VUB | | H1 H2 | V1 V2 | VU1 VU2 | VFM | VFMT | HFMH / VUB | | H1 H2 | V1 V2 | VU1 VU2 | VFM | VFMT | HFMH / VUB | | H1 H2 | V1 V2 | VU1 VU2 | VFM | VFMT | HFMH / VUB |
| | C mm | D mm | E mm | J4 mm | ØX mm | A1 mm | A2 mm | A3 mm | J6 mm | J7 mm | J5/J8 mm | ØX mm | A1 mm | A2 mm | A3 mm | J6 mm | J7 mm | J5/J8 mm | ØX mm | A1 mm | A2 mm | A3 mm | J6 mm | J7 mm | J5/J8 mm | ØX mm | A1 mm | A2 mm | A3 mm | J6 mm | J7 mm | J5/J8 mm |
| | | AT 0° ROTATION | | | | AT ZERO ROTATION | | | | | | | AT ZERO ROTATION | | | | | | | AT ZERO ROTATION | | | | | | | AT ZERO ROTATION | | | | | | |
| 90 | 120 | 99 | 69 | 1092 | M56 | 871 | | 1739 | | 1847 | -71 | M64 | 886 | | 1754 | | 1847 | -86 | | | | | | | | | | | | | | |
| 100 | 134 | 110 | 77 | 1100 | M56 | 863 | | 1731 | | 1855 | -63 | M64 | 878 | | 1746 | | 1855 | -78 | | | | | | | | | | | | | | |
| 110 | 147 | 121 | 84 | 1107 | M56 | 856 | | 1724 | | 1862 | -56 | M64 | 871 | | 1739 | | 1862 | -71 | M64 | 871 | | | 1739 | 1862 | -71 | | | | | | | |
| 120 | 161 | 132 | 92 | 1115 | M48 | 833 | | 1701 | | 1870 | -33 | M56 | 848 | | 1716 | | 1870 | -48 | M64 | 863 | | | 1731 | 1870 | -63 | M72 | 913 | | 1781 | | 1870 | -113 |
| 130 | 174 | 143 | 100 | 1123 | M48 | 825 | | 1693 | | 1878 | -25 | M56 | 840 | | 1708 | | 1878 | -40 | M64 | 855 | | | 1723 | 1878 | -55 | M64 | 855 | | 1723 | | 1878 | -55 |
| 140 | 187 | 153 | 107 | 1130 | M48 | 818 | 818 | 1686 | 842 | 1885 | -18 | M56 | 833 | 833 | 1701 | | 1885 | -33 | M64 | 848 | | | 1716 | 1885 | -48 | M64 | 848 | | 1716 | | 1885 | -48 |
| 150 | 201 | 164 | 115 | 1138 | M48 | 810 | 810 | 1678 | 850 | 1893 | -10 | M56 | 825 | 825 | 1693 | 835 | 1893 | -25 | M56 | 825 | 825 | 1693 | 835 | 1893 | -25 | M64 | 840 | 840 | 1708 | 820 | 1893 | -40 |
| 160 | 214 | 175 | 123 | 1146 | M42 | 762 | 762 | 1630 | 898 | 1901 | 38 | M48 | 802 | 802 | 1670 | 858 | 1901 | -2 | M56 | 817 | 817 | 1685 | 843 | 1901 | -17 | M64 | 832 | 832 | 1700 | 828 | 1901 | -32 |
| 170 | 228 | 186 | 130 | 1153 | M42 | 755 | 755 | 1623 | 905 | 1908 | 45 | M48 | 795 | 795 | 1663 | 865 | 1908 | 5 | M56 | 810 | 810 | 1678 | 850 | 1908 | -10 | M56 | 810 | 810 | 1678 | 850 | 1908 | -10 |
| 180 | 241 | 197 | 138 | 1161 | M42 | 747 | 747 | 1615 | 913 | 1916 | 53 | M48 | 787 | 787 | 1655 | 873 | 1916 | 13 | M56 | 802 | 802 | 1670 | 858 | 1916 | -2 | M56 | 802 | 802 | 1670 | 858 | 1916 | -2 |
| 190 | 254 | 208 | 146 | 1145 | M42 | 739 | 739 | 1607 | 921 | 1900 | 61 | M48 | 779 | 779 | 1647 | 881 | 1900 | 21 | M56 | 794 | 794 | 1662 | 866 | 1900 | 6 | M56 | 794 | 794 | 1662 | 866 | 1900 | 6 |
| 200 | 268 | 219 | 154 | 1153 | M42 | 731 | 731 | 1599 | 929 | 1908 | 69 | M48 | 771 | 771 | 1639 | 889 | 1908 | 29 | M48 | 771 | 771 | 1639 | 889 | 1908 | 29 | M56 | 786 | 786 | 1654 | 874 | 1908 | 14 |
| 210 | 281 | 230 | 161 | 1160 | M42 | 724 | 724 | 1592 | 936 | 1915 | 76 | M42 | 724 | 724 | 1592 | 936 | 1915 | 76 | M48 | 764 | 764 | 1632 | 896 | 1915 | 36 | M56 | 779 | 779 | 1647 | 881 | 1915 | 21 |
| 220 | 294 | 241 | 169 | 1168 | M36 | 716 | 716 | 1584 | 944 | 1923 | 84 | M42 | 716 | 716 | 1584 | 944 | 1923 | 84 | M48 | 756 | 756 | 1624 | 904 | 1923 | 44 | M56 | 771 | 771 | 1639 | 889 | 1923 | 29 |
| 230 | 308 | 252 | 177 | 1176 | M36 | 708 | 708 | 1576 | 952 | 1931 | 92 | M42 | 708 | 708 | 1576 | 952 | 1931 | 92 | M48 | 748 | 748 | 1616 | 912 | 1931 | 52 | M56 | 763 | 763 | 1631 | 897 | 1931 | 37 |
| 240 | 321 | 263 | 184 | 1183 | M36 | 701 | 701 | 1569 | 959 | 1938 | 99 | M42 | 701 | 701 | 1569 | 959 | 1938 | 99 | M48 | 741 | 741 | 1609 | 919 | 1938 | 59 | M48 | 741 | 741 | 1609 | 919 | 1938 | 59 |
| 250 | 335 | 274 | 192 | 1191 | M36 | 693 | 693 | 1561 | 967 | 1946 | 107 | M42 | 693 | 693 | 1561 | 967 | 1946 | 107 | M48 | 733 | 733 | 1601 | 927 | 1946 | 67 | M48 | 733 | 733 | 1601 | 927 | 1946 | 67 |
| 260 | 348 | 285 | 200 | 1199 | M36 | 685 | 685 | 1553 | 975 | 1954 | 115 | M42 | 685 | 685 | 1553 | 975 | 1954 | 115 | M42 | 685 | 685 | 1553 | 975 | 1954 | 115 | M48 | 725 | 725 | 1593 | 935 | 1954 | 75 |
| 270 | 361 | 296 | 207 | 1206 | M36 | 678 | 678 | 1546 | 982 | 1961 | 122 | M42 | 678 | 678 | 1546 | 982 | 1961 | 122 | M42 | 678 | 678 | 1546 | 982 | 1961 | 122 | M48 | 718 | 718 | 1586 | 942 | 1961 | 82 |
| 280 | 375 | 307 | 215 | 1214 | M36 | 670 | 670 | 1538 | 990 | 1969 | 130 | M42 | 670 | 670 | 1538 | 990 | 1969 | 130 | M42 | 670 | 670 | 1538 | 990 | 1969 | 130 | M48 | 710 | 710 | 1578 | 950 | 1969 | 90 |
| 290 | 388 | 318 | 223 | 1222 | M36 | 662 | 662 | 1530 | 998 | 1977 | 138 | M36 | 662 | 662 | 1530 | 998 | 1977 | 138 | M42 | 662 | 662 | 1530 | 998 | 1977 | 138 | M48 | 702 | 702 | 1570 | 958 | 1977 | 98 |
| 300 | 401 | 329 | 230 | 1229 | M36 | 655 | 655 | 1523 | 1005 | 1984 | 145 | M36 | 655 | 655 | 1523 | 1005 | 1984 | 145 | M42 | 655 | 655 | 1523 | 1005 | 1984 | 145 | M48 | 695 | 695 | 1563 | 965 | 1984 | 105 |
| 310 | 415 | 340 | 238 | 1237 | M30 | 647 | 647 | 1515 | 1013 | 1992 | 153 | M36 | 647 | 647 | 1515 | 1013 | 1992 | 153 | M42 | 647 | 647 | 1515 | 1013 | 1992 | 153 | M42 | 647 | 647 | 1515 | 1013 | 1992 | 153 |
| 320 | 428 | 351 | 246 | 1245 | M30 | 639 | 639 | 1507 | 1021 | 2000 | 161 | M36 | 639 | 639 | 1507 | 1021 | 2000 | 161 | M42 | 639 | 639 | 1507 | 1021 | 2000 | 161 | M42 | 639 | 639 | 1507 | 1021 | 2000 | 161 |
| 330 | 442 | 362 | 253 | 1252 | M30 | 632 | 632 | 1500 | 1028 | 2007 | 168 | M36 | 632 | 632 | 1500 | 1028 | 2007 | 168 | M42 | 632 | 632 | 1500 | 1028 | 2007 | 168 | M42 | 632 | 632 | 1500 | 1028 | 2007 | 168 |
| 340 | 455 | 373 | 261 | 1260 | M30 | 624 | 624 | 1492 | 1036 | 2015 | 176 | M36 | 624 | 624 | 1492 | 1036 | 2015 | 176 | M42 | 624 | 624 | 1492 | 1036 | 2015 | 176 | M42 | 624 | 624 | 1492 | 1036 | 2015 | 176 |
| 350 | 468 | 384 | 269 | 1250 | M30 | 646 | 646 | 1484 | 1044 | 2005 | 184 | M36 | 646 | 646 | 1484 | 1044 | 2005 | 184 | M42 | 646 | 646 | 1484 | 1044 | 2005 | 184 | M42 | 646 | 646 | 1484 | 1044 | 2005 | 184 |
| 360 | 482 | 395 | 276 | 1257 | M30 | 639 | 639 | 1477 | 1051 | 2012 | 191 | M36 | 639 | 639 | 1477 | 1051 | 2012 | 191 | M36 | 639 | 639 | 1477 | 1051 | 2012 | 191 | M42 | 639 | 639 | 1477 | 1051 | 2012 | 191 |
| 370 | 495 | 406 | 284 | 1265 | M30 | 631 | 631 | 1469 | 1059 | 2020 | 199 | M36 | 631 | 631 | 1469 | 1059 | 2020 | 199 | M36 | 631 | 631 | 1469 | 1059 | 2020 | 199 | M42 | 631 | 631 | 1469 | 1059 | 2020 | 199 |
| 380 | 509 | 417 | 292 | 1273 | M30 | 623 | 623 | 1461 | 1067 | 2028 | 207 | M36 | 623 | 623 | 1461 | 1067 | 2028 | 207 | M36 | 623 | 623 | 1461 | 1067 | 2028 | 207 | M42 | 623 | 623 | 1461 | 1067 | 2028 | 207 |
| 390 | 522 | 428 | 299 | 1280 | M30 | 616 | 616 | 1454 | 1074 | 2035 | 214 | M36 | 616 | 616 | 1454 | 1074 | 2035 | 214 | M36 | 616 | 616 | 1454 | 1074 | 2035 | 214 | M42 | 616 | 616 | 1454 | 1074 | 2035 | 214 |
| 400 | 535 | 439 | 307 | 1288 | M30 | 608 | 608 | 1446 | 1082 | 2043 | 222 | M36 | 608 | 608 | 1446 | 1082 | 2043 | 222 | M36 | 608 | 608 | 1446 | 1082 | 2043 | 222 | M42 | 608 | 608 | 1446 | 1082 | 2043 | 222 |
| 410 | 549 | 449 | 315 | 1296 | M30 | 600 | 600 | 1438 | 1090 | 2051 | 230 | M36 | 600 | 600 | 1438 | 1090 | 2051 | 230 | M36 | 600 | 600 | 1438 | 1090 | 2051 | 230 | M42 | 600 | 600 | 1438 | 1090 | 2051 | 230 |
| 420 | 562 | 460 | 322 | 1303 | M30 | 593 | 593 | 1431 | 1097 | 2058 | 237 | M30 | 593 | 593 | 1431 | 1097 | 2058 | 237 | M36 | 593 | 593 | 1431 | 1097 | 2058 | 237 | M42 | 593 | 593 | 1431 | 1097 | 2058 | 237 |
| 430 | 575 | 471 | 330 | 1311 | M30 | 585 | 585 | 1423 | 1105 | 2066 | 245 | M30 | 585 | 585 | 1423 | 1105 | 2066 | 245 | M36 | 585 | 585 | 1423 | 1105 | 2066 | 245 | M36 | 585 | 585 | 1423 | 1105 | 2066 | 245 |
| 440 | 589 | 482 | 338 | 1319 | M30 | 577 | 577 | 1415 | 1113 | 2074 | 253 | M30 | 577 | 577 | 1415 | 1113 | 2074 | 253 | M36 | 577 | 577 | 1415 | 1113 | 2074 | 253 | M36 | 577 | 577 | 1415 | 1113 | 2074 | 253 |
| 450 | 602 | 493 | 345 | 1324 | M30 | 570 | 630 | 1408 | 1120 | 2079 | 260 | M30 | 570 | 630 | 1408 | 1120 | 2079 | 260 | M36 | 570 | 630 | 1408 | 1120 | 2079 | 260 | M36 | 570 | 630 | 1408 | 1120 | 2079 | 260 |
| 460 | 616 | 504 | 353 | 1332 | M30 | 562 | 622 | 1400 | 1128 | 2087 | 268 | M30 | 562 | 622 | 1400 | 1128 | 2087 | 268 | M36 | 562 | 622 | 1400 | 1128 | 2087 | 268 | M36 | 562 | 622 | 1400 | 1128 | 2087 | 268 |
| 470 | 629 | 515 | 361 | 1340 | M30 | 554 | 614 | 1392 | 1136 | 2095 | 276 | M30 | 554 | 614 | 1392 | 1136 | 2095 | 276 | M36 | 554 | 614 | 1392 | 1136 | 2095 | 276 | M36 | 554 | 614 | 1392 | 1136 | 2095 | 276 |
| 480 | 642 | 526 | 368 | 1347 | M30 | 547 | 607 | 1385 | 1143 | 2102 | 283 | M30 | 547 | 607 | 1385 | 1143 | 2102 | 283 | M36 | 547 | 607 | 1385 | 1143 | 2102 | 283 | M36 | 547 | 607 | 1385 | 1143 | 2102 | 283 |
| 490 | 656 | 537 | 376 | 1355 | M30 | 539 | 599 | 1377 | 1151 | 2110 | 291 | M30 | 539 | 599 | 1377 | 1151 | 2110 | 291 | M36 | 539 | 599 | 1377 | 1151 | 2110 | 291 | M36 | 539 | 599 | 1377 | 1151 | 2110 | 291 |
| 500 | 669 | 548 | 384 | 1363 | M24 | 531 | 591 | 1369 | 1159 | 2118 | 299 | M30 | 531 | 591 | 1369 | 1159 | 2118 | 299 | M36 | 531 | 591 | 1369 | 1159 | 2118 | 299 | M36 | 531 | 591 | 1369 | 1159 | 2118 | 299 |
| 510 | 683 | 559 | 391 | 1370 | M24 | 524 | 584 | 1362 | 1166 | 2125 | 306 | M30 | 524 | 584 | 1362 | 1166 | 2125 | 306 | M36 | 524 | 584 | 1362 | 1166 | 2125 | 306 | M36 | 524 | 584 | 1362 | 1166 | 2125 | 306 |
| 520 | 696 | 570 | 399 | 1378 | M24 | 516 | 576 | 1354 | 1174 | 2133 | 314 | M30 | 516 | 576 | 1354 | 1174 | 2133 | 314 | M30 | 516 | 576 | 1354 | 1174 | 2133 | 314 | M36 | 516 | 576 | 1354 | 1174 | 2133 | 314 |
| 530 | 709 | 581 | 407 | 1386 | M24 | 508 | 568 | 1346 | 1182 | 2141 | 322 | M30 | 508 | 568 | 1346 | 1182 | 2141 | 322 | M30 | 508 | 568 | 1346 | 1182 | 2141 | 322 | M36 | 508 | 568 | 1346 | 1182 | 2141 | 322 |
| 540 | 723 | 592 | 415 | 1394 | M24 | 500 | 560 | 1338 | 1190 | 2149 | 330 | M30 | 500 | 560 | 1338 | 1190 | 2149 | 330 | M30 | 500 | 560 | 1338 | 1190 | 2149 | 330 | M36 | 500 | 560 | 1338 | 1190 | 2149 | 330 |
| 550 | 736 | 603 | 422 | 1401 | M24 | 553 | 593 | 1331 | 1197 | 2156 | 337 | M30 | 553 | 593 | 1331 | 1197 | 2156 | 337 | M30 | 553 | 593 | 1331 | 1197 | 2156 | 337 | M36 | 553 | 593 | 1331 | 1197 | 2156 | 337 |
| 560 | 749 | 614 | 430 | 1409 | M24 | 545 | 585 | 1323 | 1205 | 2164 | 345 | M30 | 545 | 585 | 1323 | 1205 | 2164 | 345 | M30 | 545 | 585 | 1323 | 1205 | 2164 | 345 | M36 | 545 | 585 | 1323 | 1205 | 2164 | 345 |
| 570 | 763 | 625 | 438 | 1417 | M24 | 537 | 577 | 1315 | 1213 | 2172 | 353 | M30 | 537 | 577 | 1315 | 1213 | 2172 | 353 | M30 | 537 | 577 | 1315 | 1213 | 2172 | 353 | M36 | 537 | 577 | 1315 | 1213 | 2172 | 353 |
| 580 | 776 | 636 | 445 | 1424 | M24 | 530 | 570 | 1308 | 1220 | 2179 | 360 | M30 | 530 | 570 | 1308 | 1220 | 2179 | 360 | M30 | 530 | 570 | 1308 | 1220 | 2179 | 360 | M36 | 530 | 570 | 1308 | 1220 | 2179 | 360 |
| 590 | 790 | 647 | 453 | 1432 | M24 | 522 | 562 | 1300 | 1228 | 2187 | 368 | M30 | 522 | 562 | 1300 | 1228 | 2187 | 368 | M30 | 522 | 562 | 1300 | 1228 | 2187 | 368 | M36 | 522 | 562 | 1300 | 1228 | 2187 | 368 |
| 600 | 803 | 658 | 461 | 1440 | M24 | 514 | 554 | 1292 | 1236 | 2195 | 376 | M30 | 514 | 554 | 1292 | 1236 | 2195 | 376 | M30 | 514 | 554 | 1292 | 1236 | 2195 | 376 | M36 | 514 | 554 | 1292 | 1236 | 2195 | 376 |
| 610 | 816 | 669 | 468 | 1447 | M24 | 507 | 547 | 1285 | 1243 | 2202 | 383 | M30 | 507 | 547 | 1285 | 1243 | 2202 | 383 | M30 | 507 | 547 | 1285 | 1243 | 2202 | 383 | M36 | 507 | 547 | 1285 | 1243 | 2202 | 383 |
| 620 | 830 | 680 | 476 | 1455 | M24 | 499 | 539 | 1277 | 1251 | 2210 | 391 | M30 | 499 | 539 | 1277 | 1251 | 2210 | 391 | M30 | 499 | 539 | 1277 | 1251 | 2210 | 391 | M30 | 499 | 539 | 1277 | 1251 | 2210 | 391 |
| 630 | 843 | 691 | 484 | 1463 | M24 | 491 | 531 | 1269 | 1259 | 2218 | 399 | M30 | 491 | 531 | 1269 | 1259 | 2218 | 399 | M30 | 491 | 531 | 1269 | 1259 | 2218 | 399 | M30 | 491 | 531 | 1269 | 1259 | 2218 | 399 |
| 640 | 857 | 702 | 491 | 1470 | M24 | 484 | 524 | 1262 | 1266 | 2225 | 406 | M30 | 484 | 524 | 1262 | 1266 | 2225 | 406 | M30 | 484 | 524 | 1262 | 1266 | 2225 | 406 | M30 | 484 | 524 | 1262 | 1266 | 2225 | 406 |
| 650 | 870 | 713 | 499 | 1483 | M24 | 541 | 571 | 1254 | 1274 | 2228 | 424 | M30 | 541 | 571 | 1254 | 1274 | 2228 | 424 | M30 | 541 | 571 | 1254 | 1274 | 2228 | 424 | M30 | 541 | 571 | 1254 | 1274 | 2228 | 424 |
| 660 | 883 | 724 | 507 | 1491 | M24 | 533 | 563 | 1246 | 1282 | 2236 | 432 | M24 | 533 | 563 | 1246 | 1282 | 2236 | 432 | M30 | 533 | 563 | 1246 | 1282 | 2236 | 432 | M30 | 533 | 563 | 1246 | 1282 | 2236 | 432 |
| 670 | 897 | 734 | 514 | 1498 | M24 | 526 | 556 | 1239 | 1289 | 2243 | 439 | M24 | 526 | 556 | 1239 | 1289 | 2243 | 439 | M30 | 526 | 556 | 1239 | 1289 | 2243 | 439 | M30 | 526 | 556 | 1239 | 1289 | 2243 | 439 |
| 680 | 910 | 745 | 522 | 1506 | M24 | 518 | 548 | 1231 | 1297 | 2251 | 447 | M24 | 518 | 548 | 1231 | 1297 | 2251 | 447 | M30 | 518 | 548 | 1231 | 1297 | 2251 | 447 | M30 | 518 | 548 | 1231 | 1297 | 2251 | 447 |
| 690 | 923 | 756 | 530 | 1514 | M24 | 510 | 540 | 1223 | 1305 | 2259 | 455 | M24 | 510 | 540 | 1223 | 1305 | 2259 | 455 | M30 | 510 | 540 | 1223 | 1305 | 2259 | 455 | M30 | 510 | 540 | 1223 | 1305 | 2259 | 455 |
| 700 | 937 | 767 | 537 | 1521 | M24 | 503 | 533 | 1216 | 1312 | 2266 | 462 | M24 | 503 | 533 | 1216 | 1312 | 2266 | 462 | M30 | 503 | 533 | 1216 | 1312 | 2266 | 462 | M30 | 503 | 533 | 1216 | 1312 | 2266 | 462 |
| 710 | 950 | 778 | 545 | 1529 | M24 | 495 | 525 | 1208 | 1320 | 2274 | 470 | M24 | 495 | 525 | 1208 | 1320 | 2274 | 470 | M30 | 495 | 525 | 1208 | 1320 | 2274 | 470 | M30 | 495 | 525 | 1208 | 1320 | 2274 | 470 |
| 720 | 964 | 789 | 553 | 1537 | M20 | 487 | 517 | 1200 | 1328 | 2282 | 478 | M24 | 487 | 517 | 1200 | 1328 | 2282 | 478 | M30 | 487 | 517 | 1200 | 1328 | 2282 | 478 | M30 | 487 | 517 | 1200 | 1328 | 2282 | 478 |
| 730 | 977 | 800 | 560 | 1544 | M20 | 480 | 510 | 1193 | 1335 | 2289 | 485 | M24 | 480 | 510 | 1193 | 1335 | 2289 | 485 | M30 | 480 | 510 | 1193 | 1335 | 2289 | 485 | M30 | 480 | 510 | 1193 | 1335 | 2289 | 485 |
| 740 | 990 | 811 | 568 | 1552 | M20 | 472 | 502 | 1185 | 1343 | 2297 | 493 | M24 | 472 | 502 | 1185 | 1343 | 2297 | 493 | M30 | 472 | 502 | 1185 | 1343 | 2297 | 493 | M30 | 472 | 502 | 1185 | 1343 | 2297 | 493 |
| 750 | 1004 | 822 | 576 | 1560 | M20 | 464 | 494 | 1177 | 1351 | 2305 | 501 | M24 | 464 | 494 | 1177 | 1351 | 2305 | 501 | M30 | 464 | 494 | 1177 | 1351 | 2305 | 501 | M30 | 464 | 494 | 1177 | 1351 | 2305 | 501 |

## MOVEMENT DEPENDENT DIMENSIONS

| | | MOVEMENT PROVIDED mm | 90–180 | 190–340 | 350–440 | 450–540 | 550–640 | 650–750 |
|---|---|---|---|---|---|---|---|---|
| TRAVEL RANGE DEPENDENT DIMENSIONS | | U | 355 | 355 | 385 | 385 | 525 | 525 |
| | | TA | 445 | 630 | 745 | 860 | 975 | 1102 |
| | | TB | 510 | 510 | 540 | 540 | 600 | 665 |
| | | TC | 475 | 475 | 475 | 475 | 600 | 600 |
| | | TD | 270 | 270 | 270 | 270 | 270 | 280 |
| | | TE | 510 | 510 | 570 | 600 | 655 | 700 |
| | | TF | 475 | 475 | 545 | 630 | 700 | 790 |
| | | TG | 290 | 290 | 290 | 290 | 290 | 300 |
| | | TH | 290 | 290 | 290 | 290 | 290 | 300 |
| | | TJ | 460 | 460 | 460 | 460 | 460 | 460 |
| TOP SUSPENSION DETAILS | CG–28 | DD | 76 | 68 | 52 | 52 | 46 | 46 |
| | | AA | 155 | 140 | 105 | 105 | 90 | 90 |
| | | BB | 130 | 115 | 85 | 85 | 75 | 75 |
| | | CC | 220 | 200 | 150 | 150 | 130 | 130 |
| | | EE | 25 | 20 | 20 | 20 | 15 | 15 |
| | | GG | 90 | 80 | 70 | 70 | 60 | 60 |
| | | LL | M72 | M64 | M48 | M48 | M42 | M42 |
| | CG–29 | DD | 85 | 68 | 60 | 60 | 52 | 52 |
| | | AA | 175 | 140 | 120 | 120 | 105 | 105 |
| | | BB | 150 | 115 | 100 | 100 | 85 | 85 |
| | | CC | 240 | 200 | 180 | 180 | 150 | 150 |
| | | EE | 25 | 20 | 20 | 20 | 20 | 20 |
| | | GG | 100 | 80 | 75 | 75 | 70 | 70 |
| | | LL | M80 | M64 | M56 | M56 | M48 | M48 |

## FIXED DIMENSIONS

| | | | | | |
|---|---|---|---|---|---|
| FA | 710 | FQ | 150 | XE | 46 |
| FB | 228 | FR | 480 | XF | 570 |
| FC | 240 | FS | 585 | XG | 355 |
| FD | 179 | FT | 355 | XH | 320 |
| FE | 572 | FU | 100 | XJ | 440 |
| FF | 25 | FV | 350 | XK | 805 |
| FG | 100 | FW | 46 | XL | 40 |
| FH | 46 | FX | 280 | XM | 415 |
| FJ | 65 | FY | 375 | XN | 60 |
| FK | 480 | FZ | 680 | XP | 500 |
| FL | 350 | XA | 1060 | XQ | 302 |
| FM | 30 | XB | 355 | XR | 460 |
| FN | 415 | XC | 575 | | |
| FP | 230 | XD | 550 | | |

## SPRING SIZE DEPENDENT DIMENSIONS

| | CG–28 | CG–29 |
|---|---|---|
| SA | 999 | 999 |
| SB | 1059 | 1059 |
| SC | 1245 | 1245 |
| SD | 1280 | 1280 |
| SE | 1280 | 1280 |
| SF | 575 | 575 |

## WEIGHTS (kgf)

| | CG–28 | CG–29 |
|---|---|---|
| H1/H2 | 930 | 1000 |
| V1/V2 | 970 | 1040 |
| VU1/VU2 | 990 | 1060 |
| HFMT | 1000 | 1070 |
| HFMH | 910 | 980 |
| VFM | 960 | 1030 |
| VFMT | 1050 | 1120 |
| VUB | 960 | 1030 |

## SINGLE POINT SUSPENSION DIMENSION 'V'

| MOVEMENT PROVIDED mm | ALL SIZES | | CG–28 | CG–29 |
|---|---|---|---|---|
| | V1 | V3 | V2 | V2 |
| 120 | 123 | 145 | | |
| 130 | 132 | 157 | | |
| 140 | 142 | 168 | | |
| 150 | 152 | 180 | | |
| 160 | 162 | 191 | | |
| 170 | 171 | 203 | | |
| 180 | 181 | 214 | 196 | |
| 190 | 190 | 225 | 207 | 209 |
| 200 | 199 | 236 | 217 | 219 |
| 210 | 209 | 247 | 227 | 229 |
| 220 | 218 | 258 | 237 | 240 |
| 230 | 227 | 269 | 247 | 250 |
| 240 | 237 | 279 | 256 | 260 |
| 250 | 246 | 290 | 267 | 270 |
| 260 | 255 | 301 | 277 | 280 |
| 270 | 263 | 311 | 286 | 290 |
| 280 | 272 | 322 | 296 | 300 |
| 290 | 281 | 332 | 306 | 310 |
| 300 | 290 | 343 | 315 | 320 |
| 310 | 299 | 353 | 323 | 329 |
| 320 | 308 | 364 | 334 | 339 |
| 330 | 317 | 374 | 344 | 349 |
| 340 | 325 | 384 | 353 | 358 |
| 350 | TYPES H1 AND VU1 ARE NOT USED ABOVE 340mm TRAVEL | | 362 | 368 |
| 360 | | | 371 | 377 |
| 370 | | | 381 | 387 |
| 380 | | | 390 | 396 |
| 390 | | | 399 | 405 |
| 400 | | | 408 | 415 |
| 410 | | | 417 | 424 |
| 420 | | | 426 | 433 |
| 430 | | | 435 | 442 |
| 440 | | | 443 | 451 |
| 450 | | | 452 | 460 |
| 460 | | | 461 | 469 |
| 470 | | | 469 | 478 |
| 480 | | | 478 | 487 |
| 490 | | | 487 | 496 |
| 500 | | | 495 | 505 |
| 510 | | | 504 | 514 |
| 520 | | | 512 | 522 |
| 530 | | | 520 | 531 |
| 540 | | | 529 | 540 |
| 550 | | | 537 | 548 |
| 560 | | | 545 | 557 |
| 570 | | | 553 | 567 |
| 580 | | | 562 | 574 |
| 590 | | | 570 | 582 |
| 600 | | | 578 | 590 |
| 610 | | | 586 | 599 |
| 620 | | | 594 | 607 |
| 630 | | | 602 | 615 |
| 640 | | | 609 | 623 |
| 650 | | | 617 | 632 |
| 660 | | | 625 | 640 |
| 670 | | | 633 | 648 |
| 680 | | | 640 | 656 |
| 690 | | | 648 | 664 |
| 700 | | | 656 | 672 |
| 710 | | | 663 | 680 |
| 720 | | | 671 | 688 |
| 730 | | | 678 | 695 |
| 740 | | | 686 | 703 |
| 750 | | | 693 | 711 |

INSTALLED HEIGHT DIMENSIONS J4 AND J7 ALLOW ± 25mm ADJUSTMENT.

TAKE-OUT DIMENSIONS A1, A2, A3, J5, J6 AND J8 ALLOW ±75mm ADJUSTMENT.

WHERE SEVERE HEADROOM LIMITATIONS EXIST, DIMENSIONS A1, A2 AND A3 CAN BE REDUCED AND DIMENSIONS J5, J6 AND J8 INCREASED AS FOLLOWS BY USE OF A SHORTENED EYEBOLT:

| ØX | M36 | M42 | M48 | M56 | M64 | M72 | M80 |
|---|---|---|---|---|---|---|---|
| CHANGE mm | 100 | 80 | NIL | NIL | NIL | NIL | NIL |

NOTE DIA. X IS THREADED ISO METRIC COARSE RIGHT HAND AS STANDARD.

NOTE THAT DIMENSIONS A1, A2, A3, J4, J5, J6, J7 AND J8 ARE GIVEN AT ZEROROTATION, THAT IS WITH THE LEVER IN THE UPPERMOST POSITION.

N.B. DIMENSION TA IS THE MINIMUM FORWARD CLEARANCE REQUIRED.

# CG: DIMENSIONS FOR SIZES CG-28 TO CG-29

| MOVEMENT PROVIDED mm | ALL SIZES | | | | CG–28 | | | | | | | | CG–29 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ALL | | | HFMT | ØX | H1 H2 | V1 V2 | VU1 VU2 | HFMH | VUB | VFMT | VFM | ØX | H1 H2 | V1 V2 | VU1 VU2 | HFMH | VUB | VFMT | VFM |
| | C mm | D mm | E mm | J4 mm | mm | A1 mm | A2 mm | A3 mm | J5 mm | J6 mm | J7 mm | J8 mm | mm | A1 mm | A2 mm | A3 mm | J5 mm | J6 mm | J7 mm | J8 mm |
| | | AT ZERO ROTATION | | | | AT ZERO ROTATION | | | | | | | | AT ZERO ROTATION | | | | | | |
| 120 | 161 | 132 | 92 | 1131 | M72 | 913 | | 1922 | -113 | | 2016 | -113 | | | | | | | | |
| 130 | 174 | 143 | 100 | 1139 | M72 | 905 | | 1914 | -105 | | 2024 | -105 | M80 | 985 | | 1994 | -185 | | 2024 | -185 |
| 140 | 187 | 153 | 107 | 1146 | M72 | 898 | | 1907 | -98 | | 2031 | -98 | M80 | 978 | | 1987 | -178 | | 2031 | -178 |
| 150 | 201 | 164 | 115 | 1154 | M72 | 890 | | 1899 | -90 | | 2039 | -90 | M72 | 890 | | 1899 | -90 | | 2039 | -90 |
| 160 | 214 | 175 | 123 | 1162 | M64 | 832 | | 1841 | -32 | | 2047 | -32 | M72 | 882 | | 1891 | -82 | | 2047 | -82 |
| 170 | 228 | 186 | 130 | 1169 | M64 | 825 | | 1834 | -25 | | 2054 | -25 | M72 | 875 | | 1884 | -75 | | 2054 | -75 |
| 180 | 241 | 197 | 138 | 1177 | M64 | 817 | 817 | 1826 | -17 | 973 | 2062 | -17 | M72 | 867 | | 1876 | -67 | | 2062 | -67 |
| 190 | 254 | 208 | 146 | 1171 | M64 | 809 | 809 | 1818 | -9 | 981 | 2056 | -9 | M64 | 809 | 809 | 1818 | -9 | 981 | 2056 | -9 |
| 200 | 268 | 219 | 154 | 1179 | M64 | 801 | 801 | 1810 | -1 | 989 | 2064 | -1 | M64 | 801 | 801 | 1810 | -1 | 989 | 2064 | -1 |
| 210 | 281 | 230 | 161 | 1186 | M56 | 779 | 779 | 1788 | 21 | 1011 | 2071 | 21 | M64 | 794 | 794 | 1803 | 6 | 996 | 2071 | 6 |
| 220 | 294 | 241 | 169 | 1194 | M56 | 771 | 771 | 1780 | 29 | 1019 | 2079 | 29 | M64 | 786 | 786 | 1795 | 14 | 1004 | 2079 | 14 |
| 230 | 308 | 252 | 177 | 1202 | M56 | 763 | 763 | 1772 | 37 | 1027 | 2087 | 37 | M64 | 778 | 778 | 1787 | 22 | 1012 | 2087 | 22 |
| 240 | 321 | 263 | 184 | 1209 | M56 | 756 | 756 | 1765 | 44 | 1034 | 2094 | 44 | M64 | 771 | 771 | 1780 | 29 | 1019 | 2094 | 29 |
| 250 | 335 | 274 | 192 | 1217 | M56 | 748 | 748 | 1757 | 52 | 1042 | 2102 | 52 | M56 | 748 | 748 | 1757 | 52 | 1042 | 2102 | 52 |
| 260 | 348 | 285 | 200 | 1225 | M56 | 740 | 740 | 1749 | 60 | 1050 | 2110 | 60 | M56 | 740 | 740 | 1749 | 60 | 1050 | 2110 | 60 |
| 270 | 361 | 296 | 207 | 1232 | M56 | 733 | 733 | 1742 | 67 | 1057 | 2117 | 67 | M56 | 733 | 733 | 1742 | 67 | 1057 | 2117 | 67 |
| 280 | 375 | 307 | 215 | 1240 | M56 | 725 | 725 | 1734 | 75 | 1065 | 2125 | 75 | M56 | 725 | 725 | 1734 | 75 | 1065 | 2125 | 75 |
| 290 | 388 | 318 | 223 | 1248 | M48 | 702 | 702 | 1711 | 98 | 1088 | 2133 | 98 | M56 | 717 | 717 | 1726 | 83 | 1073 | 2133 | 83 |
| 300 | 401 | 329 | 230 | 1255 | M48 | 695 | 695 | 1704 | 105 | 1095 | 2140 | 105 | M56 | 710 | 710 | 1719 | 90 | 1080 | 2140 | 90 |
| 310 | 415 | 340 | 238 | 1263 | M48 | 687 | 687 | 1696 | 113 | 1103 | 2148 | 113 | M56 | 702 | 702 | 1711 | 98 | 1088 | 2148 | 98 |
| 320 | 428 | 351 | 246 | 1271 | M48 | 679 | 679 | 1688 | 121 | 1111 | 2156 | 121 | M56 | 694 | 694 | 1703 | 106 | 1096 | 2156 | 106 |
| 330 | 442 | 362 | 253 | 1278 | M48 | 672 | 672 | 1681 | 128 | 1118 | 2163 | 128 | M56 | 687 | 687 | 1696 | 113 | 1103 | 2163 | 113 |
| 340 | 455 | 373 | 261 | 1286 | M48 | 664 | 664 | 1673 | 136 | 1126 | 2171 | 136 | M56 | 679 | 679 | 1688 | 121 | 1111 | 2171 | 121 |
| 350 | 468 | 384 | 269 | 1270 | M48 | 686 | 716 | 1665 | 144 | 1134 | 2155 | 144 | M48 | 686 | 716 | 1665 | 144 | 1134 | 2155 | 144 |
| 360 | 482 | 395 | 276 | 1277 | M48 | 679 | 709 | 1658 | 151 | 1141 | 2162 | 151 | M48 | 679 | 709 | 1658 | 151 | 1141 | 2162 | 151 |
| 370 | 495 | 406 | 284 | 1285 | M48 | 671 | 701 | 1650 | 159 | 1149 | 2170 | 159 | M48 | 671 | 701 | 1650 | 159 | 1149 | 2170 | 159 |
| 380 | 509 | 417 | 292 | 1293 | M42 | 623 | 653 | 1602 | 207 | 1197 | 2178 | 207 | M48 | 663 | 693 | 1642 | 167 | 1157 | 2178 | 167 |
| 390 | 522 | 428 | 299 | 1300 | M42 | 616 | 646 | 1595 | 214 | 1204 | 2185 | 214 | M48 | 656 | 686 | 1635 | 174 | 1164 | 2185 | 174 |
| 400 | 535 | 439 | 307 | 1308 | M42 | 608 | 638 | 1587 | 222 | 1212 | 2193 | 222 | M48 | 648 | 678 | 1627 | 182 | 1172 | 2193 | 182 |
| 410 | 549 | 449 | 315 | 1316 | M42 | 600 | 630 | 1579 | 230 | 1220 | 2201 | 230 | M48 | 640 | 670 | 1619 | 190 | 1180 | 2201 | 190 |
| 420 | 562 | 460 | 322 | 1323 | M42 | 593 | 623 | 1572 | 237 | 1227 | 2208 | 237 | M48 | 633 | 663 | 1612 | 197 | 1187 | 2208 | 197 |
| 430 | 575 | 471 | 330 | 1331 | M42 | 585 | 615 | 1564 | 245 | 1235 | 2216 | 245 | M48 | 625 | 655 | 1604 | 205 | 1195 | 2216 | 205 |
| 440 | 589 | 482 | 338 | 1339 | M42 | 577 | 607 | 1556 | 253 | 1243 | 2224 | 253 | M48 | 617 | 647 | 1596 | 213 | 1203 | 2224 | 213 |
| 450 | 602 | 493 | 345 | 1331 | M42 | 570 | 630 | 1549 | 260 | 1250 | 2216 | 260 | M42 | 570 | 630 | 1549 | 260 | 1250 | 2216 | 260 |
| 460 | 616 | 504 | 353 | 1339 | M42 | 562 | 622 | 1541 | 268 | 1258 | 2224 | 268 | M42 | 562 | 622 | 1541 | 268 | 1258 | 2224 | 268 |
| 470 | 629 | 515 | 361 | 1347 | M42 | 554 | 614 | 1533 | 276 | 1266 | 2232 | 276 | M42 | 554 | 614 | 1533 | 276 | 1266 | 2232 | 276 |
| 480 | 642 | 526 | 368 | 1354 | M42 | 547 | 607 | 1526 | 283 | 1273 | 2239 | 283 | M42 | 547 | 607 | 1526 | 283 | 1273 | 2239 | 283 |
| 490 | 656 | 537 | 376 | 1362 | M42 | 539 | 599 | 1518 | 291 | 1281 | 2247 | 291 | M42 | 539 | 599 | 1518 | 291 | 1281 | 2247 | 291 |
| 500 | 669 | 548 | 384 | 1370 | M42 | 531 | 591 | 1510 | 299 | 1289 | 2255 | 299 | M42 | 531 | 591 | 1510 | 299 | 1289 | 2255 | 299 |
| 510 | 683 | 559 | 391 | 1377 | M42 | 524 | 584 | 1503 | 306 | 1296 | 2262 | 306 | M42 | 524 | 584 | 1503 | 306 | 1296 | 2262 | 306 |
| 520 | 696 | 570 | 399 | 1385 | M36 | 516 | 576 | 1495 | 314 | 1304 | 2270 | 314 | M42 | 516 | 576 | 1495 | 314 | 1304 | 2270 | 314 |
| 530 | 709 | 581 | 407 | 1393 | M36 | 508 | 568 | 1487 | 322 | 1312 | 2278 | 322 | M42 | 508 | 568 | 1487 | 322 | 1312 | 2278 | 322 |
| 540 | 723 | 592 | 415 | 1401 | M36 | 500 | 560 | 1479 | 330 | 1320 | 2286 | 330 | M42 | 500 | 560 | 1479 | 330 | 1320 | 2286 | 330 |
| 550 | 736 | 603 | 422 | 1400 | M36 | 553 | 608 | 1472 | 337 | 1327 | 2285 | 337 | M42 | 553 | 608 | 1472 | 337 | 1327 | 2285 | 337 |
| 560 | 749 | 614 | 430 | 1408 | M36 | 545 | 600 | 1464 | 345 | 1335 | 2293 | 345 | M42 | 545 | 600 | 1464 | 345 | 1335 | 2293 | 345 |
| 570 | 763 | 625 | 438 | 1416 | M36 | 537 | 592 | 1456 | 353 | 1343 | 2301 | 353 | M42 | 537 | 592 | 1456 | 353 | 1343 | 2301 | 353 |
| 580 | 776 | 636 | 445 | 1423 | M36 | 530 | 585 | 1449 | 360 | 1350 | 2308 | 360 | M42 | 530 | 585 | 1449 | 360 | 1350 | 2308 | 360 |
| 590 | 790 | 647 | 453 | 1431 | M36 | 522 | 577 | 1441 | 368 | 1358 | 2316 | 368 | M42 | 522 | 577 | 1441 | 368 | 1358 | 2316 | 368 |
| 600 | 803 | 658 | 461 | 1439 | M36 | 514 | 569 | 1433 | 376 | 1366 | 2324 | 376 | M42 | 514 | 569 | 1433 | 376 | 1366 | 2324 | 376 |
| 610 | 816 | 669 | 468 | 1446 | M36 | 507 | 562 | 1426 | 383 | 1373 | 2331 | 383 | M42 | 507 | 562 | 1426 | 383 | 1373 | 2331 | 383 |
| 620 | 830 | 680 | 476 | 1454 | M36 | 499 | 554 | 1418 | 391 | 1381 | 2339 | 391 | M36 | 499 | 554 | 1418 | 391 | 1381 | 2339 | 391 |
| 630 | 843 | 691 | 484 | 1462 | M36 | 491 | 546 | 1410 | 399 | 1389 | 2347 | 399 | M36 | 491 | 546 | 1410 | 399 | 1389 | 2347 | 399 |
| 640 | 857 | 702 | 491 | 1469 | M36 | 484 | 539 | 1403 | 406 | 1396 | 2354 | 406 | M36 | 484 | 539 | 1403 | 406 | 1396 | 2354 | 406 |
| 650 | 870 | 713 | 499 | 1487 | M36 | 541 | 576 | 1395 | 424 | 1404 | 2362 | 424 | M36 | 541 | 576 | 1395 | 424 | 1404 | 2362 | 424 |
| 660 | 883 | 724 | 507 | 1495 | M36 | 533 | 568 | 1387 | 432 | 1412 | 2370 | 432 | M36 | 533 | 568 | 1387 | 432 | 1412 | 2370 | 432 |
| 670 | 897 | 734 | 514 | 1502 | M36 | 526 | 561 | 1380 | 439 | 1419 | 2377 | 439 | M36 | 526 | 561 | 1380 | 439 | 1419 | 2377 | 439 |
| 680 | 910 | 745 | 522 | 1510 | M36 | 518 | 553 | 1372 | 447 | 1427 | 2385 | 447 | M36 | 518 | 553 | 1372 | 447 | 1427 | 2385 | 447 |
| 690 | 923 | 756 | 530 | 1518 | M36 | 510 | 545 | 1364 | 455 | 1435 | 2393 | 455 | M36 | 510 | 545 | 1364 | 455 | 1435 | 2393 | 455 |
| 700 | 937 | 767 | 537 | 1525 | M36 | 503 | 538 | 1357 | 462 | 1442 | 2400 | 462 | M36 | 503 | 538 | 1357 | 462 | 1442 | 2400 | 462 |
| 710 | 950 | 778 | 545 | 1533 | M36 | 495 | 530 | 1349 | 470 | 1450 | 2408 | 470 | M36 | 495 | 530 | 1349 | 470 | 1450 | 2408 | 470 |
| 720 | 964 | 789 | 553 | 1541 | M36 | 487 | 522 | 1341 | 478 | 1458 | 2416 | 478 | M36 | 487 | 522 | 1341 | 478 | 1458 | 2416 | 478 |
| 730 | 977 | 800 | 560 | 1548 | M36 | 480 | 515 | 1334 | 485 | 1465 | 2423 | 485 | M36 | 480 | 515 | 1334 | 485 | 1465 | 2423 | 485 |
| 740 | 990 | 811 | 568 | 1556 | M36 | 472 | 507 | 1326 | 493 | 1473 | 2431 | 493 | M36 | 472 | 507 | 1326 | 493 | 1473 | 2431 | 493 |
| 750 | 1004 | 822 | 576 | 1564 | M36 | 464 | 499 | 1318 | 501 | 1481 | 2439 | 501 | M36 | 464 | 499 | 1318 | 501 | 1481 | 2439 | 501 |

# CH: DIMENSIONS FOR SIZE CH-30

## MOVEMENT DEPENDENT DIMENSIONS

| | MOVEMENT PROVIDED mm | 150–190 | 200–340 | 350–440 | 450–540 | 550–640 | 650–750 |
|---|---|---|---|---|---|---|---|
| TRAVEL RANGE DEPENDENT DIMENSIONS | U | 300 | 400 | 400 | 500 | 500 | 600 |
| | TA | 470 | 600 | 720 | 850 | 970 | 1110 |
| | TB | 650 | 650 | 650 | 650 | 650 | 705 |
| | TC | 440 | 520 | 520 | 615 | 615 | 690 |
| | TE | — | 650 | 650 | 650 | 675 | 705 |
| | TF | — | 540 | 540 | 620 | 700 | 775 |
| | TG | 320 | 320 | 320 | 320 | 320 | 320 |
| TOP SUSPENSION DETAILS | DD | 95 | 76 | 68 | 60 | 60 | 52 |
| | AA | 200 | 155 | 140 | 120 | 120 | 105 |
| | BB | 170 | 130 | 115 | 100 | 100 | 85 |
| | CC | 260 | 220 | 200 | 180 | 180 | 150 |
| | EE | 30 | 25 | 20 | 20 | 20 | 20 |
| | GG | 120 | 90 | 80 | 75 | 75 | 70 |

## FIXED DIMENSIONS

| | | | |
|---|---|---|---|
| FA | 812 | FR | 565 |
| FB | 332 | FS | 660 |
| FC | 330 | FT | 400 |
| FD | 179 | FU | 150 |
| FE | 657 | FV | 455 |
| FF | 25 | FW | 40 |
| FG | 150 | SA | 1200 |
| FP | 280 | SC | 1540 |

## WEIGHTS (kgf)

| | CH–30 |
|---|---|
| H1/H2 | 1570 |
| V1/V2 | 1660 |
| HFMH | 1540 |

| MOVEMENT PROVIDED mm | ØX mm | ALL | | | H1 H2 | H1 | V1 V2 | V1 | HFMH |
|---|---|---|---|---|---|---|---|---|---|
| | | C mm | D mm | E mm | A1 mm | V1 mm | A2 mm | V2 mm | J5 mm |
| | | AT ZERO ROTATION | | | | | | | |
| 150 | M90 | 201 | 164 | 115 | 1210 | 141 | | | -240 |
| 160 | M80 | 214 | 175 | 123 | 1102 | 150 | | | -132 |
| 170 | M80 | 228 | 186 | 130 | 1095 | 159 | | | -125 |
| 180 | M80 | 241 | 197 | 138 | 1087 | 168 | | | -117 |
| 190 | M80 | 254 | 208 | 146 | 1079 | 177 | | | -109 |
| 200 | M72 | 268 | 219 | 154 | 991 | 186 | 991 | 215 | -21 |
| 210 | M72 | 281 | 230 | 161 | 984 | 194 | 984 | 224 | -14 |
| 220 | M72 | 294 | 241 | 169 | 976 | 203 | 976 | 234 | -6 |
| 230 | M72 | 308 | 252 | 177 | 968 | 211 | 968 | 244 | 2 |
| 240 | M72 | 321 | 263 | 184 | 961 | 220 | 961 | 254 | 9 |
| 250 | M72 | 335 | 274 | 192 | 953 | 228 | 953 | 264 | 17 |
| 260 | M64 | 348 | 285 | 200 | 895 | 237 | 895 | 273 | 75 |
| 270 | M64 | 361 | 296 | 207 | 888 | 245 | 888 | 283 | 82 |
| 280 | M64 | 375 | 307 | 215 | 880 | 253 | 880 | 293 | 90 |
| 290 | M64 | 388 | 318 | 223 | 872 | 261 | 872 | 302 | 98 |
| 300 | M64 | 401 | 329 | 230 | 865 | 270 | 865 | 312 | 105 |
| 310 | M64 | 415 | 340 | 238 | 857 | 278 | 857 | 321 | 113 |
| 320 | M64 | 428 | 351 | 246 | 849 | 286 | 849 | 330 | 121 |
| 330 | M64 | 442 | 362 | 253 | 842 | 294 | 842 | 339 | 128 |
| 340 | M56 | 455 | 373 | 261 | 819 | 302 | 819 | 349 | 151 |
| 350 | M56 | 468 | 384 | 269 | 811 | 310 | 811 | 358 | 159 |
| 360 | M56 | 482 | 395 | 276 | 804 | 318 | 804 | 367 | 166 |
| 370 | M56 | 495 | 406 | 284 | 796 | 325 | 796 | 376 | 174 |
| 380 | M56 | 509 | 417 | 292 | 788 | 333 | 788 | 385 | 182 |
| 390 | M56 | 522 | 428 | 299 | 781 | 341 | 781 | 394 | 189 |
| 400 | M56 | 535 | 439 | 307 | 773 | 348 | 773 | 403 | 197 |
| 410 | M56 | 549 | 449 | 315 | 765 | 356 | 765 | 411 | 205 |
| 420 | M56 | 562 | 460 | 322 | 758 | 364 | 758 | 420 | 212 |
| 430 | M56 | 575 | 471 | 330 | 750 | 371 | 750 | 429 | 220 |
| 440 | M56 | 589 | 482 | 338 | 742 | 379 | 742 | 437 | 228 |
| 450 | M56 | 602 | 493 | 345 | 735 | 386 | 735 | 446 | 235 |
| 460 | M56 | 616 | 504 | 353 | 727 | 394 | 727 | 455 | 243 |
| 470 | M48 | 629 | 515 | 361 | 704 | 401 | 704 | 463 | 266 |
| 480 | M48 | 642 | 526 | 368 | 697 | 408 | 697 | 471 | 273 |
| 490 | M48 | 656 | 537 | 376 | 689 | 415 | 689 | 480 | 281 |
| 500 | M48 | 669 | 548 | 384 | 681 | 423 | 681 | 488 | 289 |
| 510 | M48 | 683 | 559 | 391 | 674 | 430 | 674 | 496 | 296 |
| 520 | M48 | 696 | 570 | 399 | 666 | 437 | 666 | 505 | 304 |
| 530 | M48 | 709 | 581 | 407 | 658 | 444 | 658 | 513 | 312 |
| 540 | M48 | 723 | 592 | 415 | 650 | 451 | 650 | 521 | 320 |
| 550 | M48 | 736 | 603 | 422 | 643 | 458 | 668 | 529 | 327 |
| 560 | M48 | 749 | 614 | 430 | 635 | 465 | 660 | 537 | 335 |
| 570 | M48 | 763 | 625 | 438 | 627 | 472 | 652 | 545 | 343 |
| 580 | M48 | 776 | 636 | 445 | 620 | 479 | 645 | 553 | 350 |
| 590 | M48 | 790 | 647 | 453 | 612 | 486 | 637 | 561 | 358 |
| 600 | M48 | 803 | 658 | 461 | 604 | 493 | 629 | 569 | 366 |
| 610 | M42 | 816 | 669 | 468 | 557 | 499 | 582 | 577 | 413 |
| 620 | M42 | 830 | 680 | 476 | 549 | 506 | 574 | 584 | 421 |
| 630 | M42 | 843 | 691 | 484 | 541 | 513 | 566 | 592 | 429 |
| 640 | M42 | 857 | 702 | 491 | 534 | 520 | 559 | 600 | 436 |
| 650 | M42 | 870 | 713 | 499 | 581 | 526 | 581 | 608 | 444 |
| 660 | M42 | 883 | 724 | 507 | 573 | 533 | 573 | 615 | 452 |
| 670 | M42 | 897 | 734 | 514 | 566 | 539 | 566 | 623 | 459 |
| 680 | M42 | 910 | 745 | 522 | 558 | 546 | 558 | 630 | 467 |
| 690 | M42 | 923 | 756 | 530 | 550 | 552 | 550 | 638 | 475 |
| 700 | M42 | 937 | 767 | 537 | 543 | 559 | 543 | 645 | 482 |
| 710 | M42 | 950 | 778 | 545 | 535 | 565 | 535 | 653 | 490 |
| 720 | M42 | 964 | 789 | 553 | 527 | 571 | 527 | 660 | 498 |
| 730 | M42 | 977 | 800 | 560 | 520 | 578 | 520 | 667 | 505 |
| 740 | M42 | 990 | 811 | 568 | 512 | 584 | 512 | 674 | 513 |
| 750 | M42 | 1004 | 822 | 576 | 504 | 590 | 504 | 682 | 521 |

CH-30 SUPPORTS ARE AVAILABLE IN THE FOLLOWING TYPES

TYPE HFMH
TYPE H1, STYLE S2 AND S3
TYPE H2, STYLE S2, S3 AND S4
TYPE V1, STYLE S2 AND S3
TYPE V2, STYLE S2, S3 AND S4

TAKE-OUT DIMENSIONS A1, A2 AND J5 ALLOW ±75mm ADJUSTMENT

NOTE DIA. X IS THREADED ISO METRIC COARSE RIGHT HAND AS STANDARD.

NOTE THAT DIMENSIONS A1, A2 AND J5 ARE GIVEN AT ZERO ROTATION, THAT IS WITH THELEVER IN THE UPPERMOST POSITION.

# CH: DIMENSIONS FOR SIZE CH-31

## MOVEMENT DEPENDENT DIMENSIONS

| MOVEMENT PROVIDED mm | | 160–190 | 200–340 | 350–440 | 450–540 | 550–640 | 650–750 |
|---|---|---|---|---|---|---|---|
| TRAVEL RANGE DEPENDENT DIMENSIONS | U | 300 | 400 | 400 | 500 | 500 | 600 |
| | TA | 470 | 600 | 720 | 850 | 970 | 1110 |
| | TB | 650 | 650 | 650 | 650 | 650 | 705 |
| | TC | 440 | 520 | 520 | 615 | 615 | 690 |
| | TE | — | 650 | 650 | 650 | 675 | 705 |
| | TF | — | 540 | 540 | 620 | 700 | 775 |
| | TG | 320 | 320 | 320 | 320 | 320 | 320 |
| TOP SUSPENSION DETAILS | DD | 95 | 85 | 68 | 68 | 68 | 60 |
| | AA | 200 | 175 | 140 | 140 | 140 | 120 |
| | BB | 170 | 150 | 115 | 115 | 115 | 100 |
| | CC | 260 | 240 | 200 | 200 | 200 | 180 |
| | EE | 30 | 25 | 20 | 20 | 20 | 20 |
| | GG | 120 | 100 | 80 | 80 | 80 | 75 |

## FIXED DIMENSIONS

| | | | |
|---|---|---|---|
| FA | 876 | FR | 565 |
| FB | 332 | FS | 660 |
| FC | 330 | FT | 400 |
| FD | 179 | FU | 150 |
| FE | 733 | FV | 455 |
| FF | 25 | FW | 40 |
| FG | 150 | SA | 1250 |
| FP | 280 | SC | 1590 |

## WEIGHTS (kgf)

| | CH–31 |
|---|---|
| H1/H2 | 1950 |
| V1/V2 | 2040 |
| HFMH | 1920 |

| MOVEMENT PROVIDED mm | ØX mm | ALL | | | H1 H2 | H1 | V1 V2 | V1 | HFMH |
|---|---|---|---|---|---|---|---|---|---|
| | | C mm | D mm | E mm | A1 mm | V1 mm | A2 mm | V2 mm | J5 mm |
| | | AT ZERO ROTATION | | | | | | | |
| 160 | M90 | 214 | 175 | 123 | 1202 | 148 | | | -232 |
| 170 | M90 | 228 | 186 | 130 | 1195 | 157 | | | -225 |
| 180 | M90 | 241 | 197 | 138 | 1187 | 166 | | | -217 |
| 190 | M90 | 254 | 208 | 146 | 1179 | 174 | | | -209 |
| 200 | M80 | 268 | 219 | 154 | 1071 | 183 | | | -101 |
| 210 | M80 | 281 | 230 | 161 | 1064 | 191 | | | -94 |
| 220 | M80 | 294 | 241 | 169 | 1056 | 200 | | | -86 |
| 230 | M80 | 308 | 252 | 177 | 1048 | 208 | | | -78 |
| 240 | M80 | 321 | 263 | 184 | 1041 | 216 | 1041 | 254 | -71 |
| 250 | M72 | 335 | 274 | 192 | 953 | 225 | 953 | 263 | 17 |
| 260 | M72 | 348 | 285 | 200 | 945 | 233 | 945 | 273 | 25 |
| 270 | M72 | 361 | 296 | 207 | 938 | 241 | 938 | 283 | 32 |
| 280 | M72 | 375 | 307 | 215 | 930 | 249 | 930 | 292 | 40 |
| 290 | M72 | 388 | 318 | 223 | 922 | 257 | 922 | 302 | 48 |
| 300 | M72 | 401 | 329 | 230 | 915 | 266 | 915 | 311 | 55 |
| 310 | M72 | 415 | 340 | 238 | 907 | 274 | 907 | 320 | 63 |
| 320 | M64 | 428 | 351 | 246 | 849 | 281 | 849 | 330 | 121 |
| 330 | M64 | 442 | 362 | 253 | 842 | 289 | 842 | 339 | 128 |
| 340 | M64 | 455 | 373 | 261 | 834 | 297 | 834 | 348 | 136 |
| 350 | M64 | 468 | 384 | 269 | 826 | 305 | 826 | 357 | 144 |
| 360 | M64 | 482 | 395 | 276 | 819 | 313 | 819 | 366 | 151 |
| 370 | M64 | 495 | 406 | 284 | 811 | 320 | 811 | 375 | 159 |
| 380 | M64 | 509 | 417 | 292 | 803 | 328 | 803 | 384 | 167 |
| 390 | M64 | 522 | 428 | 299 | 796 | 336 | 796 | 393 | 174 |
| 400 | M64 | 535 | 439 | 307 | 788 | 343 | 788 | 402 | 182 |
| 410 | M64 | 549 | 449 | 315 | 780 | 351 | 780 | 411 | 190 |
| 420 | M64 | 562 | 460 | 322 | 773 | 358 | 773 | 419 | 197 |
| 430 | M56 | 575 | 471 | 330 | 750 | 366 | 750 | 428 | 220 |
| 440 | M56 | 589 | 482 | 338 | 742 | 373 | 742 | 437 | 228 |
| 450 | M56 | 602 | 493 | 345 | 735 | 380 | 735 | 445 | 235 |
| 460 | M56 | 616 | 504 | 353 | 727 | 388 | 727 | 454 | 243 |
| 470 | M56 | 629 | 515 | 361 | 719 | 395 | 719 | 462 | 251 |
| 480 | M56 | 642 | 526 | 368 | 712 | 402 | 712 | 471 | 258 |
| 490 | M56 | 656 | 537 | 376 | 704 | 409 | 704 | 479 | 266 |
| 500 | M56 | 669 | 548 | 384 | 696 | 416 | 696 | 488 | 274 |
| 510 | M56 | 683 | 559 | 391 | 689 | 424 | 689 | 496 | 281 |
| 520 | M56 | 696 | 570 | 399 | 681 | 431 | 681 | 504 | 289 |
| 530 | M56 | 709 | 581 | 407 | 673 | 438 | 673 | 512 | 297 |
| 540 | M56 | 723 | 592 | 415 | 665 | 445 | 665 | 520 | 305 |
| 550 | M56 | 736 | 603 | 422 | 658 | 451 | 683 | 529 | 312 |
| 560 | M56 | 749 | 614 | 430 | 650 | 458 | 675 | 537 | 320 |
| 570 | M56 | 763 | 625 | 438 | 642 | 465 | 667 | 545 | 328 |
| 580 | M56 | 776 | 636 | 445 | 635 | 472 | 660 | 553 | 335 |
| 590 | M48 | 790 | 647 | 453 | 612 | 479 | 637 | 560 | 358 |
| 600 | M48 | 803 | 658 | 461 | 604 | 485 | 629 | 568 | 366 |
| 610 | M48 | 816 | 669 | 468 | 597 | 492 | 622 | 576 | 373 |
| 620 | M48 | 830 | 680 | 476 | 589 | 499 | 614 | 584 | 381 |
| 630 | M48 | 843 | 691 | 484 | 581 | 505 | 606 | 592 | 389 |
| 640 | M48 | 857 | 702 | 491 | 574 | 512 | 599 | 599 | 396 |
| 650 | M48 | 870 | 713 | 499 | 621 | 519 | 621 | 607 | 404 |
| 660 | M48 | 883 | 724 | 507 | 613 | 525 | 613 | 615 | 412 |
| 670 | M48 | 897 | 734 | 514 | 606 | 531 | 606 | 622 | 419 |
| 680 | M48 | 910 | 745 | 522 | 598 | 538 | 598 | 630 | 427 |
| 690 | M48 | 923 | 756 | 530 | 590 | 544 | 590 | 637 | 435 |
| 700 | M48 | 937 | 767 | 537 | 583 | 551 | 583 | 645 | 442 |
| 710 | M48 | 950 | 778 | 545 | 575 | 557 | 575 | 652 | 450 |
| 720 | M48 | 964 | 789 | 553 | 567 | 563 | 567 | 659 | 458 |
| 730 | M48 | 977 | 800 | 560 | 560 | 569 | 560 | 667 | 465 |
| 740 | M48 | 990 | 811 | 568 | 552 | 576 | 552 | 674 | 473 |
| 750 | M48 | 1004 | 822 | 576 | 544 | 582 | 544 | 681 | 481 |

CH-31 SUPPORTS ARE AVAILABLE IN THE FOLLOWING TYPES

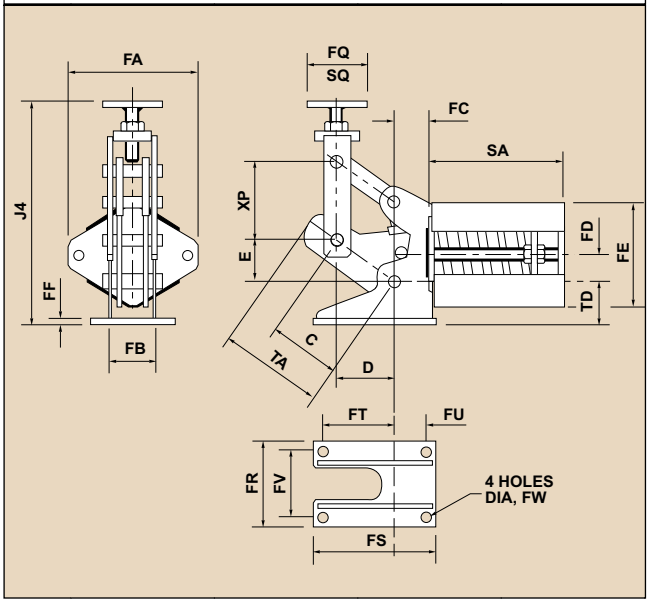
TYPE HFMH
TYPE H1, STYLE S2 AND S3
TYPE H2, STYLE S2, S3 AND S4
TYPE V1, STYLE S2 AND S3
TYPE V2, STYLE S2, S3 AND S4

TAKE-OUT DIMENSIONS A1, A2 AND J5 ALLOW ±75mm ADJUSTMENT

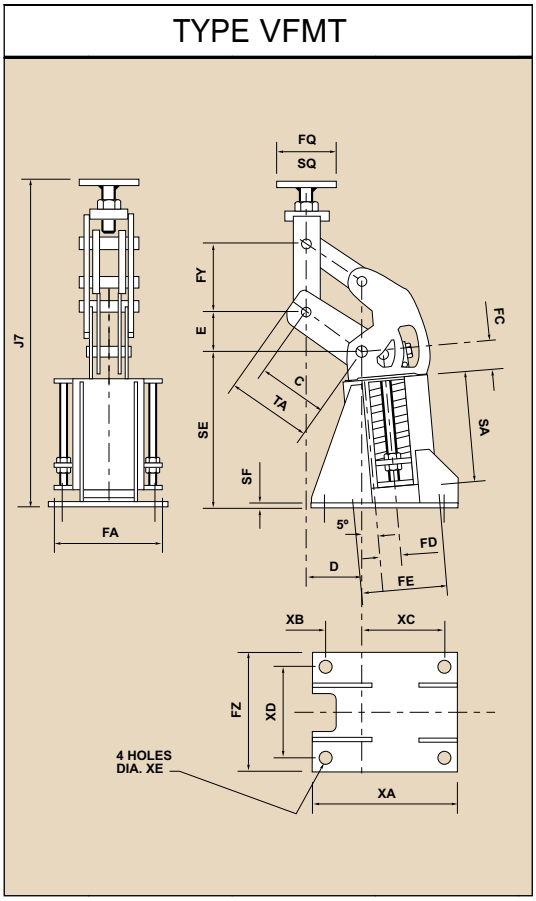
NOTE DIA. X IS THREADED ISO METRIC COARSE RIGHT HAND AS STANDARD.

NOTE THAT DIMENSIONS A1, A2 AND J5 ARE GIVEN AT ZERO ROTATION, THAT IS WITH THELEVER IN THE UPPERMOST POSITION.

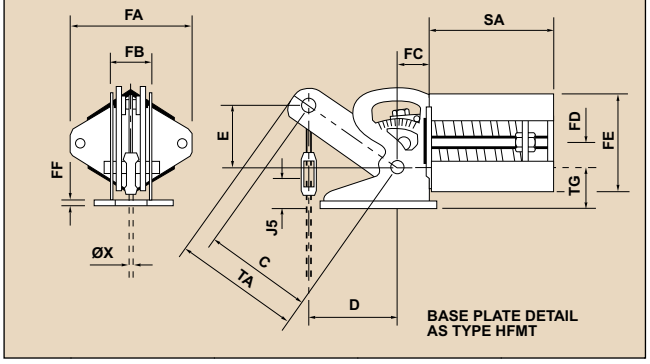
## TYPE HFMT



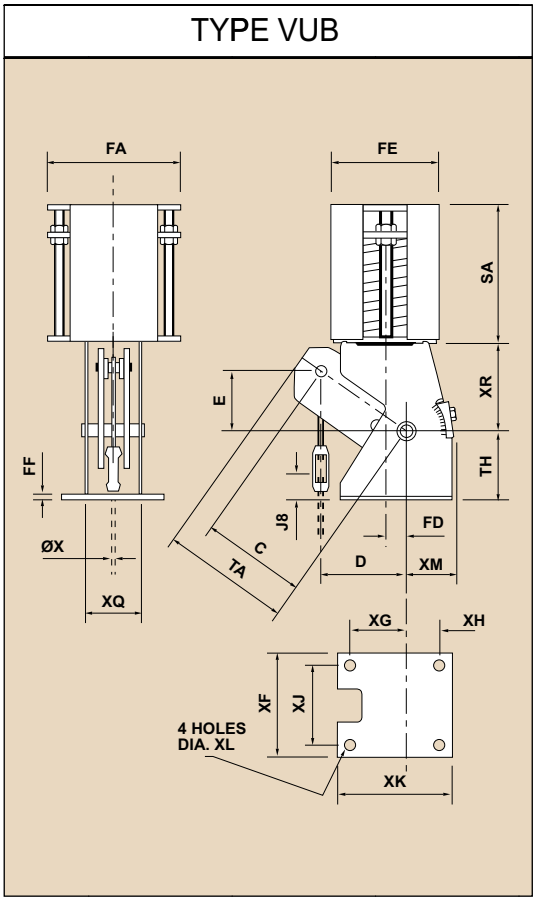

## TYPE VFMT



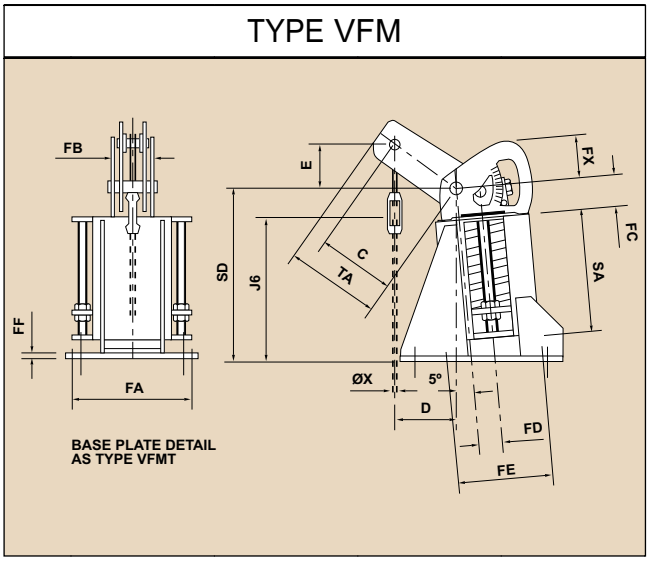

## TYPE HFMH




## TYPE VUB

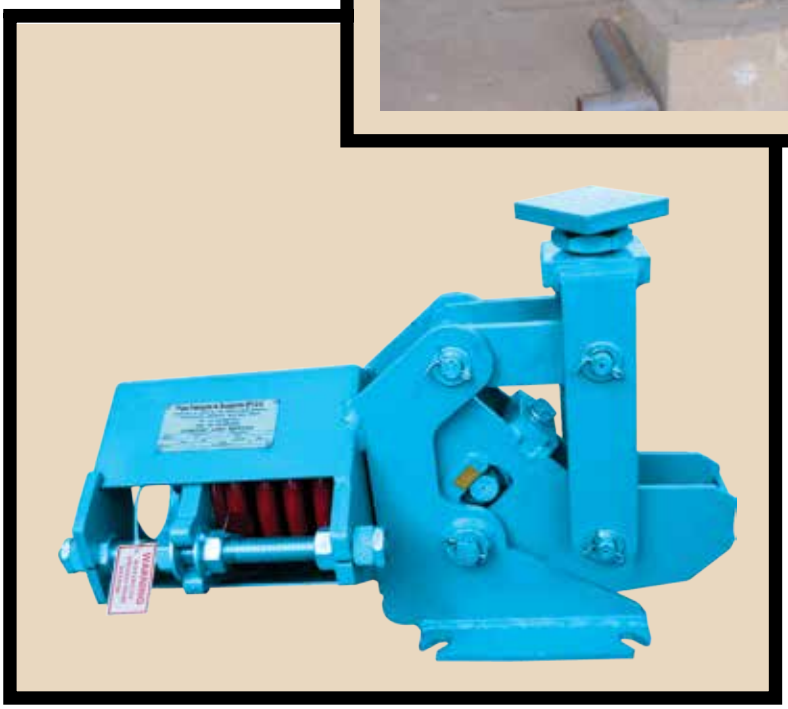



## TYPE VFM



**TURN OUT THIS PAGE FOR DETAILS OF SUPPORT SIZE CH–31 AND FOR DIAGRAMS OF CONSTANT EFFORT SUPPORTS: BASE MOUNTED TYPES**

Constant Effort Support
Type HFMT
Onsite.



Constant Effort Support —
Type HFMT

## DESCRIPTION

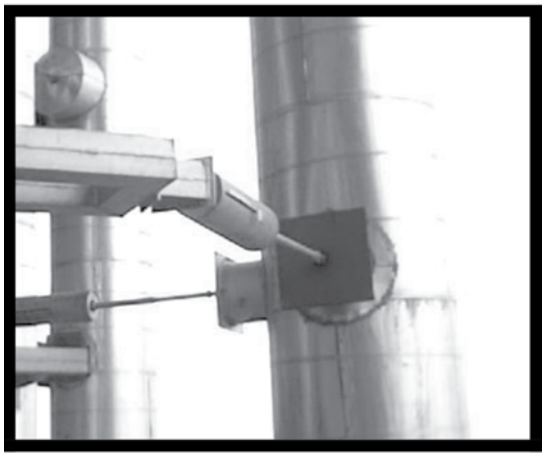
Sway Braces are essentially a double-acting spring, housed in a canister. Unlike variable effort supports, Sway Braces are not intended to carry the weight of pipework; their purpose is to limit undesirable movement.

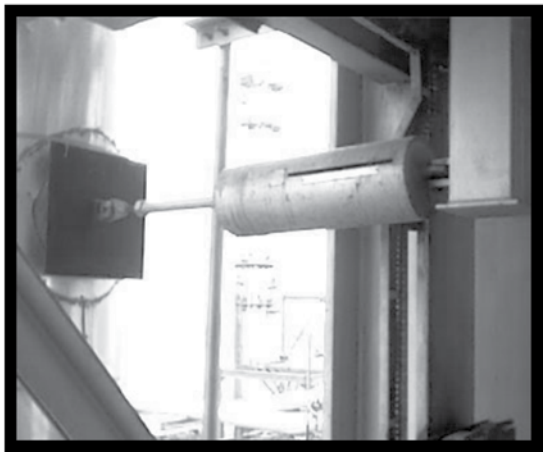
Sway Braces act like a rigid strut until a small preload is reached, whereafter the restraining force increases in proportion to the applied deflection. Fig. 1

Undesirable movement can occur due to many phenomena, such as wind loading, sympathetic vibration, rapid valve closure, relief valves opening, two phase flow or earthquake. It may be necessary to limit this type of deflection to prevent the generation of unacceptable stresses and equipment loadings.

The Sway Brace is a cost-effective means of limiting pipework deflection. It should be noted however that it does provide some resistance to the thermal movement of the pipework and care should be taken when specifying to ensure that this is acceptable. Installation of Sway Braces will have the effect of raising the fundamental frequency of vibration of a pipework system; this is likely to reduce undesirable deflections.

Sway Braces are often used to solve unforeseen problems of resonant vibration.



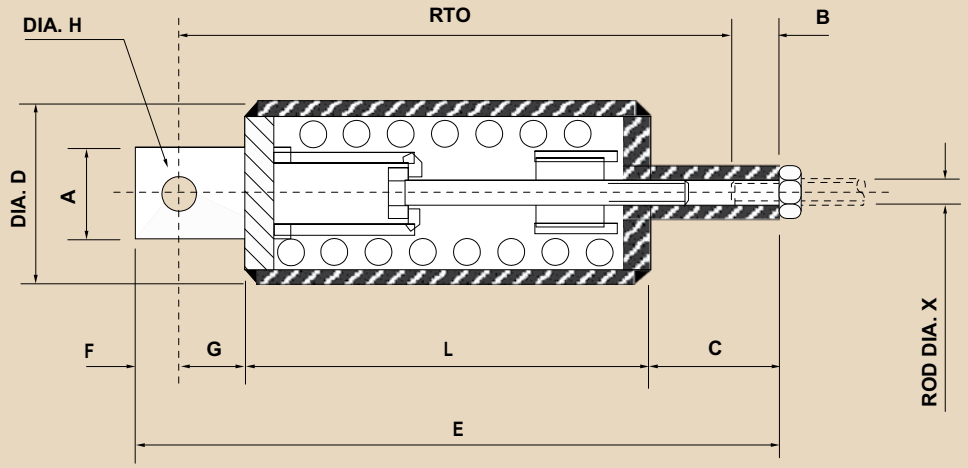


## THE PHSPL RANGE OF SWAY BRACES

PHSPL offer a range of eight Sway Braces, all of which limit movement to a maximum of 70mm in either direction. Preloads range from 14 kgf to 1040 kgf and corresponding maximum loads from 85 to 6170 kgf.

## SELECTION

Care should be taken when selecting to ensure the Sway Brace provides sufficient force to limit the deflection caused by the dynamic occurrence, but not so much as to unduly restrain the thermal movement of the piping. Ideally selections should be checked by analysis.




| SIZE | SWB1 | SWB2 | SWB3 | SWB4 | SWB5 | SWB6 | SWB7 | SWB8 |
|---|---|---|---|---|---|---|---|---|
| PRELOAD kgf | 14 | 45 | 140 | 300 | 400 | 535 | 770 | 1040 |
| MAX LOAD kgf | 85 | 260 | 800 | 1860 | 2470 | 3340 | 4620 | 6170 |
| RATE kgf/mm | 1.0 | 3.1 | 9.5 | 22.3 | 29.6 | 40.1 | 55.1 | 73.2 |
| PRELOAD N | 137 | 441 | 1370 | 2940 | 3920 | 5250 | 7550 | 10200 |
| MAX. LOAD N | 834 | 2550 | 7850 | 18240 | 24220 | 32750 | 45310 | 60510 |
| RATE N/mm | 9.8 | 30.4 | 93.2 | 219 | 290 | 393 | 540 | 718 |
| RTO mm | 308 | 305 | 311 | 359 | 395 | 406 | 447 | 495 |
| ROD SIZE X | M20 | M24 | M24 | M30 | M36 | M36 | M42 | M48 |
| A mm | 80 | 80 | 80 | 100 | 100 | 100 | 110 | 130 |
| B mm | 25 | 30 | 30 | 38 | 45 | 45 | 53 | 60 |
| C mm | 80 | 80 | 78 | 75 | 95 | 90 | 100 | 105 |
| DIA. D mm | 102 | 102 | 152 | 168 | 168 | 219 | 219 | 219 |
| E mm | 378 | 380 | 386 | 462 | 505 | 516 | 575 | 640 |
| F mm | 45 | 45 | 45 | 65 | 65 | 65 | 75 | 85 |
| G mm | 60 | 60 | 60 | 80 | 80 | 80 | 90 | 105 |
| DIA. H mm | 26 | 26 | 26 | 39 | 39 | 39 | 45 | 52 |
| L mm | 193 | 195 | 203 | 242 | 265 | 281 | 310 | 345 |
| WEIGHT kgf | 6.8 | 7.6 | 16 | 27 | 31 | 51 | 60 | 73 |

## STANDARD DESIGN FEATURES

1. Rugged construction.
2. Compact design.
3. Spring preloaded.
4. 70 mm of travel in both directions.
5. Painted finish as standard.

## NON STANDARD DESIGN FEATURES

1. Sway Braces are available in all the corrosion-resistant materials and finishes which are applicable to our range of variable effort supports.
2. Special units to suit particular preload and spring rate requirements are available. Please contact our design department for details.

## ORDERING INFORMATION

1. Size
2. Finish if other than PHSPL standard.
3. Thread form if other than isometric coarse.
4. Mark No. (if known).

## INSTALLATION AND ERECTION

Refer manual

## MAINTENANCE

Periodic inspection should be made at intervals to suit the operating environment. Check for visual damage, corrosion and wear.

Rigid Strut with
Fig RY3 stiff clamp

Fig RY4 stiff clamp

Pipe work can be subjected to dynamic loading caused by earth quakes, 2 Phase flow, water hammer, safety relief valve opening etc. These are transient events, in most cases un predictable and can cause considerable damage to pipe work, even accidents and loss of life.

Pipes are normally supported by Rod hangers or spring hangers with a combination of pipe shoes etc., all subjected to single direction acting loads. Rod hangers are subjected to tensile loads as the pipe is hanging from them. If the pipe moves up then the load acting direction changes from tensile to compression and the rod hangers will immediately buckle and fail.

Pipe work subjected to dynamic forces and vibration needs to be supported using rigid struts which act in both directions rather than hanger rods which support only downward acting loads. Rigid struts can be used in combination to act like a restraint in 1 or multiple axes.

Rigid struts are also used as lateral restraint where this is required.

## RIGID STRUT — TYPE. RS

The comprehensive range of Rigid Struts manufactured by Pipe Hangers & Supports Private limited covers loadings up to more than 90 Ton force and lengths of up to 6 meters. Provision of spherical bearings on hinge points allow angulation and off centre loadings. The struts are designed to provide a length adjustment at site of ± 100 mm by use of left hand / right hand threads with out disconnecting from installed position.
The easy to use selection process and numbering system allow quick selection of strut size from the load / length chart. Once the size is known selecting the structural welding clevis and pipe clamp is very easy.
Where there are length limitations, Pipe Hangers & Supports have introduced short length struts with limited field adjustment facility, refer tables for details.

## WELDING CLEVIS — TYPE. RWC

The strut is attached to the structure / steel work by use of the welding clevis. The welding clevis (as shown in Fig 1) is capable of providing ± 5 Degrees and ±90 Degress of angulation as shown in the figure.

## CLAMPS FOR RIGID STRUTS (TYPE RY3, RY4 AND RY5)

Pipe hangers and Supports offer a wide variety of clamps for rigid struts.

- The RY3 is a yoke type stiff clamp profiled from a single plate and used in conjunction with a sheathed U-Bolt.
- The RY4 is again a yoke type stiff clamp, but a double plate stiff clamp with sheathed U Bolt and the axis of the connecting pin is parallel to pipe axis.
- The RY5 stiff clamp isa conventional 3 bolt type pressed pipe clamp. As the pipe OD can vary due to manufacturing tolerances, use of shim stock between pipe and clamp is advised to result in a positive grip to provide good dynamic restraint.

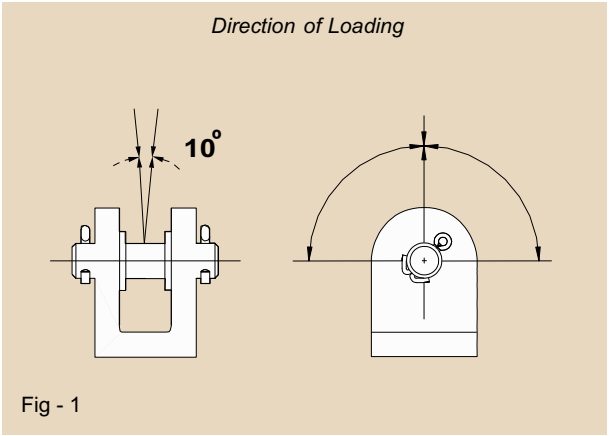



Fig - 1

All the above types of clamps are designed to operate in a 10 ° Cone of load application and use hardened and ground pins of close tolerance to prevent chattering of pin during vibration.

## SELECTION – RIGID STRUTS

Selection of rigid struts is based on the length between pin centers and maximum applied load. The table shows max loading at 1 meter length intervals, for intermediate lengths max loadings can be arrived at by interpolation. If load is not provided, do not select struts. If a minimum stiffness of rigid strut is required, then refer table giving stiffness of struts. The lengths of struts should be such that its within max permitted angulation else resort to cold offset to counter this.

## SELECTION – WELDING CLEVIS

Welding clevises are selected to suit the corresponding strut with which it is supposed to be used. For example a Rigid Strut size RS-4 will use welding clevis Size RWC-4.

## SELECTION – PIPE CLAMP FOR STRUTS

Turn to the page relating to the appropriate pipe size in question.

1. From the table find the column relating to clamp maximum temperature just greater than or equal to pipe work temperature.
2. The clamp part nos are designed to easily identify the correct clamp size For Example Fig RY4-200-3-530 means a RY4 yoke type double plate clamp for pipe size NB 200, load group 3 (which is same as the strut load group) and 530 is the maximum operating temperature.

## STANDARD FEATURES OF RIGID STRUT ASSEMBLIES

- Eleven standard sizes to choose from.
- Length adjustment of ±100 mm without disconnection.
- Sight holes provided in strut tube to verify full thread engagement.
- A choice of various paint finishes.
- Angulation of ± 5 Degrees provided.

## SPECIAL ITEMS

Stainless steel clamps.
Riser clamps for rigid Struts
Clamps for rigid struts with inclined loadings
Double clamps.

## MATERIAL SPECIFICATIONS* — CLAMPS FOR RIGID STRUTS AND SNUBBERS

**Clamps for use up to 400 ºC**

| *Item* | *UK Material* | *US Material* | *Indian Material / US Material* |
|---|---|---|---|
| Clamp Body | BS EN10025 Grade S275JR | ASTM A36 | IS 2062 E250 Gr BR |
| Clamp Bolts | BS 4190 Grade 4.6 | ASTM A193 Gr B7 | IS1367 Cl 4.6 |
| U-Bolt | BS EN10025 Grade S275JR | ASTM A36 | IS 2062 E250 Gr BR |
| Nuts | BS 4190 Grade 4 | ASTM A194 Gr 2H | IS 1367 Cl 4.0 |
| Pin | BS 970 Grade 709M40“T” | ASTM A193 Grade B7 | ASTM A193 Grade B7 |
| Spacers (Clamp) | BS 1387 | ASTM A106 Grade B | ASTM A106 Grade B |
| Spacers (Pin) | BS 970 Grade 230M07 | AISI 1213 | AISI 1213 |

**Clamps for use in the Range 400 ºC to 530 ºC**

| *Item* | *UK Material* | *US Material* |
|---|---|---|
| Clamp Body | BS EN10028-2 Grade 13CrMo4-5 | ASTM A387 Grade 12 Class 2 |
| Clamp Bolts | BS 4882 Grade B16 | ASTM A193 Grade B16 |
| U-Bolt | BS EN10028-2 Grade 13CrMo4-5 | ASTM A182 Grade F12 Class 2 |
| Nuts | BS 4882 Grade 4 | ASTM A194 Grade 4 |
| Pin | BS 970 Grade 709M40“T” | ASTM A193 Grade B7 |
| Spacers (Clamp) | BS 3604 Grade 620–440 | ASTM A335 Grade P12 |
| Spacers (Pin) | BS 970 Grade 230M07 | AISI 1213 |

**Clamps for use in the Range 530 ºC to 570 ºC**

| *Item* | *UK Material* | *US Material* |
|---|---|---|
| Clamp Body | BS EN10028-2 Grade 10CrMo9-10 | ASTM A387 Grade 22 Class 2 |
| Clamp Bolts | BS 4882 Grade B16 | ASTM A193 Grade B16 |
| U-Bolt | BS EN10028-2 Grade 13 CrMo4-5 | ASTM A182 Grade F12 Class 2 |
| Nuts | BS 4882 Grade 4 | ASTM A194 Grade 4 |
| Pin | BS 970 Grade 709M40“T” | ASTM A193 Grade B7 |
| Spacers (Clamp) | BS 3604 Grade 620-440 | ASTM A335 Grade P12 |
| Spacers (Pin) | BS 970 Grade 230M07 | AISI 1213 |

*Detailed erection and maintenance procedures for rigid struts are available on request.

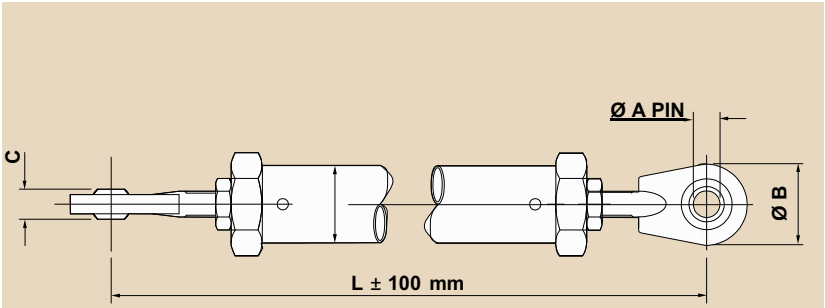



*Fig. RS Rigid Strut*

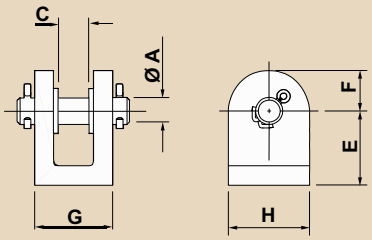



*Fig. RWC Welding Clevis*

## LOAD CARRYING CAPACITIES OF RIGID STRUTS

Fig. RS Rigid Struts

| SIZE | Max. Load @ L= 1m | Max. Load @ L= 2m | Max. Load @ L= 3m | Max. Load @ L= 4m | Max. Load @ L= 5m | Max. Load @ L= 6m |
|---|---|---|---|---|---|---|
| | kgf | kgf | kgf | kgf | kgf | kgf |
| RS-1 | 423 | 171 | | | | |
| RS-2 | 985 | 356 | 158 | | | |
| RS-3 | 2125 | 2125 | 1034 | 567 | | |
| RS-4 | 4293 | 3708 | 1664 | 948 | 552 | |
| RS-5 | 6324 | 6324 | 3632 | 2069 | 1288 | 809 |
| RS-6 | 12754 | 12414 | 7867 | 4448 | 2811 | 1913 |
| RS-7 | 18132 | 18132 | 15042 | 8860 | 5672 | 3875 |
| RS-8 | 25524 | 25524 | 25524 | 20643 | 13911 | 9812 |
| RS-9 | 55135 | 55135 | 50963 | 39364 | 27952 | 20225 |
| RS-10 | 70330 | 70330 | 70330 | 64670 | 50450 | 38065 |
| RS-11 | 90785 | 90785 | 90785 | 90785 | 90785 | 84373 |

## DIMENSIONS OF RIGID STRUTS

Fig. RS Rigid Struts

| SIZE | PIN DIA. A | DIA. B | C | DIA. D | L (Min.)* | L (Max.) |
|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | mm | mm |
| RS-1 | 10 | 38 | 9 | 21 | 442 | 2000 |
| RS-2 | 10 | 38 | 9 | 27 | 456 | 3000 |
| RS-3 | 15 | 50 | 12 | 42 | 510 | 4000 |
| RS-4 | 20 | 70 | 16 | 48 | 552 | 5000 |
| RS-5 | 25 | 82 | 20 | 60 | 604 | 6000 |
| RS-6 | 35 | 110 | 25 | 73 | 670 | 6000 |
| RS-7 | 40 | 130 | 28 | 89 | 722 | 6000 |
| RS-8 | 50 | 150 | 35 | 114 | 826 | 6000 |
| RS-9 | 70 | 220 | 49 | 141 | 980 | 6000 |
| RS-10 | 80 | 250 | 55 | 168 | 1064 | 6000 |
| RS-11 | 90 | 280 | 60 | 219 | 1152 | 6000 |

*For reduced adjustment of +/- 50mm, L(Min.) can be reduced by 150mm

## WEIGHTS OF RIGID STRUTS

Fig. RS Rigid Struts

| SIZE | WEIGHT @ L = Min. | WEIGHT @ L = 1m | WEIGHT @ L = 2m | WEIGHT @ L = 3m | WEIGHT @ L = 4m | WEIGHT @ L = 5m | WEIGHT @ L = 6m |
|---|---|---|---|---|---|---|---|
| | kgf | kgf | kgf | kgf | kgf | kgf | kgf |
| RS-1 | 0.8 | 1.6 | 2.8 | | | | |
| RS-2 | 1.1 | 2.0 | 3.7 | 5.4 | | | |
| RS-3 | 2.8 | 5.0 | 9.5 | 13.9 | 18.4 | | |
| RS-4 | 4.5 | 6.9 | 12.3 | 17.8 | 23.2 | 28.6 | |
| RS-5 | 7.1 | 10.1 | 17.6 | 25.0 | 32.5 | 40.0 | 47.5 |
| RS-6 | 12.8 | 16.6 | 28.0 | 39.4 | 50.9 | 62.3 | 73.7 |
| RS-7 | 20.0 | 24.2 | 39.5 | 54.8 | 70.1 | 85.4 | 100.7 |
| RS-8 | 34.6 | 38.5 | 60.8 | 83.2 | 105.5 | 127.9 | 150.2 |
| RS-9 | 78.3 | 78.9 | 109.9 | 140.9 | 171.8 | 202.8 | 233.8 |
| RS-10 | 112.6 | 110.3 | 153.0 | 195.6 | 238.2 | 280.8 | 323.4 |
| RS-11 | 175.3 | 166.5 | 231.2 | 295.9 | 360.7 | 425.4 | 490.1 |

## AXIAL STIFFNESSES

Fig. RS Rigid Struts in Tension

| SIZE | Stiffness @ L = Min. | Stiffness @ L = 1m | Stiffness @ L = 2m | Stiffness @ L = 3m | Stiffness @ L = 4m | Stiffness @ L = 5m | Stiffness @ L = 6m |
|---|---|---|---|---|---|---|---|
| | kgf/mm x 1000 | kgf/mm x 1000 | kgf/mm x 1000 | kgf/mm x 1000 | kgf/mm x 1000 | kgf/mm x 1000 | kgf/mm x 1000 |
| RS-1 | 6.6 | 3.1 | 1.6 | | | | |
| RS-2 | 9.5 | 4.4 | 2.2 | 1.5 | | | |
| RS-3 | 16.8 | 9.9 | 5.4 | 3.7 | 2.8 | | |
| RS-4 | 22.2 | 13.1 | 6.9 | 4.7 | 3.5 | 2.8 | |
| RS-5 | 30.5 | 19.0 | 9.7 | 6.5 | 4.9 | 3.9 | 3.3 |
| RS-6 | 43.8 | 29.7 | 15.0 | 10.0 | 7.6 | 6.0 | 5.0 |
| RS-7 | 57.7 | 41.4 | 20.5 | 13.6 | 10.2 | 8.2 | 6.8 |
| RS-8 | 79.6 | 64.6 | 31.0 | 20.4 | 15.2 | 12.1 | 10.0 |
| RS-9 | 117.3 | 114.0 | 47.8 | 30.3 | 22.1 | 17.4 | 14.4 |
| RS-10 | 143.9 | 154.4 | 65.4 | 41.5 | 30.4 | 23.9 | 19.8 |
| RS-11 | 183.7 | 214.9 | 95.6 | 61.5 | 45.3 | 35.9 | 29.7 |

## LOAD CARRYING CAPACITIES OF WELDING CLEVISES

Fig. RWC Welding Clevis

| SIZE | Max. Load |
|---|---|
| | kgf |
| RWC-1 | 423 |
| RWC-2 | 985 |
| RWC-3 | 2125 |
| RWC-4 | 4293 |
| RWC-5 | 6324 |
| RWC-6 | 12754 |
| RWC-7 | 18132 |
| RWC-8 | 25524 |
| RWC-9 | 55135 |
| RWC-10 | 70330 |
| RWC-11 | 90785 |

## DIMENSIONS OF WELDING CLEVISES

Fig. RWC Welding Clevis

| SIZE | PIN DIA. A | C | E | F | G | H |
|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | mm | mm |
| RWC-1 | 10 | 9 | 30 | 12.5 | 30 | 25 |
| RWC-2 | 10 | 9 | 30 | 12.5 | 30 | 25 |
| RWC-3 | 15 | 12 | 38 | 20 | 35 | 40 |
| RWC-4 | 20 | 16 | 52 | 25 | 45 | 50 |
| RWC-5 | 25 | 20 | 62 | 35 | 55 | 70 |
| RWC-6 | 35 | 25 | 80 | 50 | 70 | 100 |
| RWC-7 | 40 | 28 | 98 | 50 | 90 | 100 |
| RWC-8 | 50 | 35 | 115 | 65 | 110 | 130 |
| RWC-9 | 70 | 49 | 160 | 90 | 145 | 180 |
| RWC-10 | 80 | 55 | 190 | 90 | 180 | 180 |
| RWC-11 | 90 | 60 | 210 | 105 | 195 | 210 |

## WEIGHTS OF WELDING CLEVISES

Fig. RWC Welding Clevis

| SIZE | WEIGHT |
|---|---|
| | kgf |
| RWC-1 | 0.17 |
| RWC-2 | 0.17 |
| RWC-3 | 0.41 |
| RWC-4 | 0.89 |
| RWC-5 | 1.9 |
| RWC-6 | 4.3 |
| RWC-7 | 6.8 |
| RWC-8 | 13.2 |
| RWC-9 | 32.4 |
| RWC-10 | 48.5 |
| RWC-11 | 67.4 |

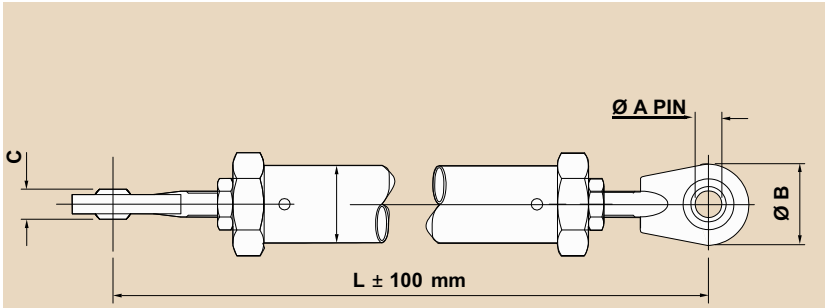



*Fig. RS Rigid Strut*

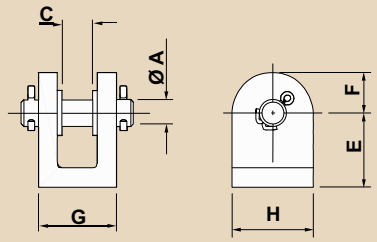



*Fig. RWC Welding Clevis*

## LOAD CARRYING CAPACITIES OF RIGID STRUTS

Fig. RS Rigid Struts

| SIZE | Max. Load @ L= 1m | Max. Load @ L= 2m | Max. Load @ L= 3m | Max. Load @ L= 4m | Max. Load @ L= 5m | Max. Load @ L= 6m |
|---|---|---|---|---|---|---|
| | kN | kN | kN | kN | kN | kN |
| RS-1 | 4.15 | 1.67 | | | | |
| RS-2 | 9.7 | 3.49 | 1.55 | | | |
| RS-3 | 20.8 | 20.8 | 10.1 | 5.56 | | |
| RS-4 | 42.1 | 36.4 | 16.3 | 9.30 | 5.41 | |
| RS-5 | 62.0 | 62.0 | 35.6 | 20.3 | 12.6 | 7.94 |
| RS-6 | 125 | 122 | 77.1 | 43.6 | 27.6 | 18.8 |
| RS-7 | 178 | 178 | 148 | 86.9 | 55.6 | 38.0 |
| RS-8 | 250 | 250 | 250 | 202 | 136 | 96.2 |
| RS-9 | 541 | 541 | 500 | 386 | 274 | 198 |
| RS-10 | 690 | 690 | 690 | 634 | 495 | 373 |
| RS-11 | 890 | 890 | 890 | 890 | 890 | 827 |

## DIMENSIONS OF RIGID STRUTS

Fig. RS Rigid Struts

| SIZE | PIN DIA. A | DIA. B | C | DIA. D | L (Min.)* | L (Max.) |
|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | mm | mm |
| RS-1 | 10 | 38 | 9 | 21 | 442 | 2000 |
| RS-2 | 10 | 38 | 9 | 27 | 456 | 3000 |
| RS-3 | 15 | 50 | 12 | 42 | 510 | 4000 |
| RS-4 | 20 | 70 | 16 | 48 | 552 | 5000 |
| RS-5 | 25 | 82 | 20 | 60 | 604 | 6000 |
| RS-6 | 35 | 110 | 25 | 73 | 670 | 6000 |
| RS-7 | 40 | 130 | 28 | 89 | 722 | 6000 |
| RS-8 | 50 | 150 | 35 | 114 | 826 | 6000 |
| RS-9 | 70 | 220 | 49 | 141 | 980 | 6000 |
| RS-10 | 80 | 250 | 55 | 168 | 1064 | 6000 |
| RS-11 | 90 | 280 | 60 | 219 | 1152 | 6000 |

*For reduced adjustment of +/- 50mm, L(Min.) can be reduced by 150mm

## WEIGHTS OF RIGID STRUTS Fig.

RS Rigid Struts

| SIZE | WEIGHT @ L = Min. | WEIGHT @ L = 1m | WEIGHT @ L = 2m | WEIGHT @ L = 3m | WEIGHT @ L = 4m | WEIGHT @ L = 5m | WEIGHT @ L = 6m |
|---|---|---|---|---|---|---|---|
| | N | N | N | N | N | N | N |
| RS-1 | 8 | 15 | 28 | | | | |
| RS-2 | 11 | 20 | 36 | 53 | | | |
| RS-3 | 27 | 49 | 93 | 137 | 181 | | |
| RS-4 | 44 | 68 | 121 | 174 | 227 | 280 | |
| RS-5 | 70 | 99 | 172 | 246 | 319 | 393 | 466 |
| RS-6 | 126 | 163 | 275 | 387 | 499 | 611 | 723 |
| RS-7 | 196 | 237 | 387 | 537 | 687 | 837 | 987 |
| RS-8 | 339 | 377 | 596 | 816 | 1035 | 1254 | 1473 |
| RS-9 | 768 | 774 | 1078 | 1381 | 1685 | 1989 | 2293 |
| RS-10 | 1105 | 1082 | 1500 | 1918 | 2336 | 2754 | 3172 |
| RS-11 | 1719 | 1633 | 2267 | 2902 | 3537 | 4172 | 4806 |

## AXIAL STIFFNESSES

Fig. RS Rigid Struts in Tension

| SIZE | Stiffness @ L = Min. | Stiffness @ L = 1m | Stiffness @ L = 2m | Stiffness @ L = 3m | Stiffness @ L = 4m | Stiffness @ L = 5m | Stiffness @ L = 6m |
|---|---|---|---|---|---|---|---|
| | kN/mm | kN/mm | kN/mm | kN/mm | kN/mm | kN/mm | kN/mm |
| RS-1 | 64 | 31 | 16 | | | | |
| RS-2 | 93 | 43 | 22 | 15 | | | |
| RS-3 | 165 | 98 | 53 | 37 | 28 | | |
| RS-4 | 218 | 129 | 67 | 46 | 35 | 28 | |
| RS-5 | 299 | 186 | 95 | 64 | 48 | 39 | 32 |
| RS-6 | 430 | 291 | 147 | 99 | 74 | 59 | 49 |
| RS-7 | 566 | 406 | 201 | 134 | 100 | 80 | 67 |
| RS-8 | 781 | 633 | 304 | 200 | 149 | 118 | 98 |
| RS-9 | 1150 | 1118 | 469 | 297 | 217 | 171 | 141 |
| RS-10 | 1411 | 1515 | 641 | 407 | 298 | 235 | 194 |
| RS-11 | 1802 | 2108 | 937 | 603 | 444 | 352 | 291 |

## LOAD CARRYING CAPACITIES OF WELDING CLEVISES

Fig. RWC Welding Clevis

| SIZE | Max. Load |
|---|---|
| | kN |
| RWC-1 | 4.15 |
| RWC-2 | 9.66 |
| RWC-3 | 20.8 |
| RWC-4 | 42.1 |
| RWC-5 | 62.0 |
| RWC-6 | 125 |
| RWC-7 | 178 |
| RWC-8 | 250 |
| RWC-9 | 541 |
| RWC-10 | 690 |
| RWC-11 | 890 |

## DIMENSIONS OF WELDING CLEVISES

Fig. RWC Welding Clevis

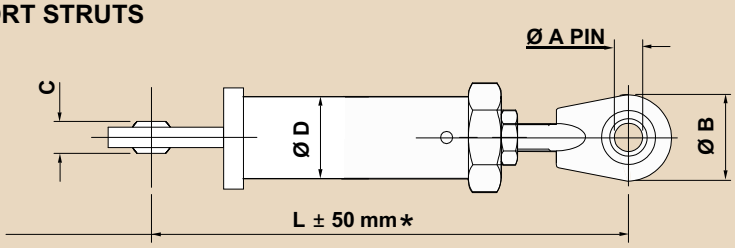
| SIZE | PIN DIA. A | C | E | F | G | H |
|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | mm | mm |
| RWC-1 | 10 | 9 | 30 | 12.5 | 30 | 25 |
| RWC-2 | 10 | 9 | 30 | 12.5 | 30 | 25 |
| RWC-3 | 15 | 12 | 38 | 20 | 35 | 40 |
| RWC-4 | 20 | 16 | 52 | 25 | 45 | 50 |
| RWC-5 | 25 | 20 | 62 | 35 | 55 | 70 |
| RWC-6 | 35 | 25 | 80 | 50 | 70 | 100 |
| RWC-7 | 40 | 28 | 98 | 50 | 90 | 100 |
| RWC-8 | 50 | 35 | 115 | 65 | 110 | 130 |
| RWC-9 | 70 | 49 | 160 | 90 | 145 | 180 |
| RWC-10 | 80 | 55 | 190 | 90 | 180 | 180 |
| RWC-11 | 90 | 60 | 210 | 105 | 195 | 210 |

## WEIGHTS OF WELDING CLEVISES

Fig. RWC Welding Clevis

| SIZE | WEIGHT |
|---|---|
| | N |
| RWC-1 | 1.7 |
| RWC-2 | 1.7 |
| RWC-3 | 4.1 |
| RWC-4 | 8.8 |
| RWC-5 | 19 |
| RWC-6 | 43 |
| RWC-7 | 66 |
| RWC-8 | 130 |
| RWC-9 | 317 |
| RWC-10 | 476 |
| RWC-11 | 661 |

**FIG. RSA SHORT STRUTS**




## LOAD CARRYING CAPACITIES OF SHORT STRUTS

Fig. RSA SHORT STRUTS

| SIZE | Max. Load |
|---|---|
| | Kgf |
| RSA-1 | 423 |
| RSA-2 | 985 |
| RSA-3 | 2125 |
| RSA-4 | 4293 |
| RSA-5 | 6324 |
| RSA-6 | 12754 |
| RSA-7 | 18132 |
| RSA-8 | 25524 |
| RSA-9 | 55135 |
| RSA-10 | 70330 |
| RSA-11 | 90785 |
| RSA-12 | 136104 |

## DIMENSIONS OF SHORT STRUTS

Fig. RSA SHORT STRUTS

| SIZE | PIN DIA A | PIN DIA. B | C | DIA D | L(Min) for+50/-5 mm Adjustment | L for ±50mm Adjustment | L (Max.) |
|---|---|---|---|---|---|---|---|
| | m | mm | mm | mm | mm | mm | mm |
| RSA-1 | 10 | 38 | 9 | 21 | 212 | 257 | 292 |
| RSA-2 | 10 | 38 | 9 | 27 | 223 | 268 | 306 |
| RSA-3 | 15 | 50 | 12 | 42 | 269 | 314 | 360 |
| RSA-4 | 20 | 70 | 16 | 48 | 304 | 349 | 402 |
| RSA-5 | 25 | 82 | 20 | 60 | 336 | 381 | 454 |
| RSA-6 | 35 | 110 | 25 | 73 | 397 | 442 | 520 |
| RSA-7 | 40 | 130 | 28 | 89 | 430 | 475 | 572 |
| RSA-8 | 50 | 150 | 35 | 114 | 515 | 560 | 676 |
| RSA-9 | 70 | 220 | 49 | 141 | 634 | 679 | 830 |
| RSA-10 | 80 | 250 | 55 | 168 | 705 | 750 | 914 |
| RSA-11 | 90 | 280 | 60 | 219 | 773 | 818 | 1002 |
| RSA-12 | 100 | 330 | 70 | 219 | 707 | 842 | 1076 |

*FOR LENGTHS BETWEEN L(MIN) AND L, THE ADJUSTMENT IN (-) DIRECTION WILL BE L REQD -L (MIN)+5.

## WEIGHTS AND AXIAL STIFFNESSES

**Fig. RSA SHORT STRUTS IN TENSION**

| SIZE | WEIGHT @ Length= L. | WEIGHT @ Length=L (Max.) | Stiffness @ Length= L | Stiffness @ Length= L(Max.) |
|---|---|---|---|---|
| | kgf | kgf | kgf/mm x 1000 | kgf/mm x 1000 |
| RSA-1 | 0.6 | 0.6 | 12.3 | 10.8 |
| RSA-2 | 0.7 | 0.8 | 17.3 | 14.9 |
| RSA-3 | 1.8 | 2.0 | 28.3 | 25.4 |
| RSA-4 | 2.9 | 3.2 | 37.7 | 32.8 |
| RSA 5 | 4.7 | 5.3 | 51.2 | 42.7 |
| RSA-6 | 8.9 | 9.8 | 72.4 | 60.7 |
| RSA-7 | 13.9 | 15.4 | 96.8 | 78.3 |
| RSA-8 | 24.0 | 26.7 | 127.2 | 101.2 |
| RSA-9 | 56.1 | 60.9 | 188.7 | 139.5 |
| 511A-10 | 80.5 | 87.4 | 227.1 | 171.7 |
| 511A-11 | 118.4 | 131.7 | 289.0 | 214.7 |
| 511A-12 | 159.8 | 181.0 | 346.9 | 259.5 |

| SIZE | PIN DIA A | PIN DIA B | C | DIA D | L (min) for +50/-5 mm Adjustment | L ±50mm Adjustment | L (Max) |
|---|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | mm | mm | mm |
| 1 | 10 | 38 | 9 | 21 | 212 | 257 | 292 |
| 2 | 10 | 38 | 9 | 27 | 223 | 268 | 306 |
| 3 | 15 | 50 | 12 | 42 | 269 | 314 | 360 |
| 4 | 20 | 70 | 16 | 48 | 304 | 349 | 402 |
| 5 | 25 | 82 | 20 | 60 | 336 | 381 | 454 |
| 6 | 35 | 110 | 25 | 73 | 397 | 442 | 520 |
| 7 | 40 | 130 | 28 | 89 | 430 | 475 | 572 |
| 8 | 50 | 150 | 35 | 114 | 515 | 560 | 676 |
| 9 | 70 | 220 | 49 | 141 | 634 | 679 | 830 |
| 10 | 80 | 250 | 55 | 168 | 700 | 745 | 904 |
| 11 | 90 | 280 | 60 | 219 | 765 | 810 | 986 |
| For lengths between L (min) and L the adjustment in (-) direction will be L Reqd -L(min)+5 | | | | | | | |

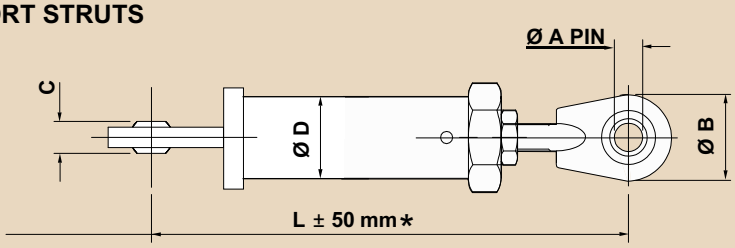
USE WITH FIG.RWC WELDING CLEVIS

FOR USE WHEN PIN TO PIN IS LESS THAN MINIMUM PIN TO PIN FOR FIG RS RIGID STRUT (WITH REDUCED ADJUSTMENT).

FOR PIN-TO-PIN BETWEEN "L" AND "L (MAX)", FIG. 511A SHORT STRUT GIVES ± 50 MM LENGTH ADJUSTMENT.

AT PIN-TO-PIN LESS THAN "L" THE AMOUNT OF LENGTH ADJUSTMENT IS REDUCED.

**FIG. RSA SHORT STRUTS**




## LOAD CARRYING CAPACITIES OF SHORT STRUTS

Fig. RSS SHORT STRUTS

| SIZE | Max. Load @ L= 39in |
|---|---|
| | KN |
| RSA-1 | 4.15 |
| RSA-2 | 9.7 |
| RSA-3 | 20.8 |
| RSA-4 | 42.1 |
| RSA-5 | 62.0 |
| RSA-6 | 125 |
| RSA-7 | 178 |
| RSA-8 | 250 |
| RSA-9 | 541 |
| RSA-10 | 690 |
| RSA-11 | 890 |
| RSA-12 | 1335 |

## WEIGHTS AND AXIAL STIFFNESSES

Fig. RSS SHORT STRUTS IN TENSION

| SIZE | WEIGHT @ Length= L. | WEIGHT @ Length=L (Max.) | Stiffness @ Length= L | Stiffness @ Length= L(Max.) |
|---|---|---|---|---|
| | N | N | kN/mm | kN/mm |
| RSA-1 | 5 | 6 | 121 | 105 |
| RSA-2 | 7 | 8 | 170 | 146 |
| RSA-3 | 17 | 19 | 277 | 249 |
| RSA-4 | 29 | 32 | 370 | 322 |
| RSA 5 | 46 | 52 | 502 | 419 |
| RSA-6 | 87 | 96 | 710 | 595 |
| RSA-7 | 136 | 151 | 949 | 768 |
| RSA-8 | 236 | 262 | 1248 | 993 |
| RSA-9 | 550 | 597 | 1851 | 1368 |
| RSA-10 | 790 | 857 | 2227 | 1684 |
| RSA-11 | 1161 | 1291 | 2834 | 2106 |
| RSA-12 | 1567 | 1775 | 3402 | 2545 |

## DIMENSIONS OF SHORT STRUTS

Fig. RSA SHORT STRUTS

| SIZE | PIN DIA A | PIN DIA B | C | DIA D | L (min) for +50/-5 mm Adjustment | L ±50mm Adjustment | L (Max) |
|---|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | mm | mm | mm |
| RSA-1 | 10 | 38 | 9 | 21 | 212 | 257 | 292 |
| RSA-2 | 10 | 38 | 9 | 27 | 223 | 268 | 306 |
| RSA-3 | 15 | 50 | 12 | 42 | 269 | 314 | 360 |
| RSA-4 | 20 | 70 | 16 | 48 | 304 | 349 | 402 |
| RSA-5 | 25 | 82 | 20 | 60 | 336 | 381 | 454 |
| RSA-6 | 35 | 110 | 25 | 73 | 397 | 442 | 520 |
| RSA-7 | 40 | 130 | 28 | 89 | 430 | 475 | 572 |
| RSA-8 | 50 | 150 | 35 | 114 | 515 | 560 | 676 |
| RSA-9 | 70 | 220 | 49 | 141 | 634 | 679 | 830 |
| RSA-10 | 80 | 250 | 55 | 168 | 700 | 745 | 904 |
| RSA-11 | 90 | 280 | 60 | 219 | 765 | 810 | 986 |
| For lengths between L (min) and L the adjustment in (-) direction will be L Reqd -L(min)+5 | | | | | | | |

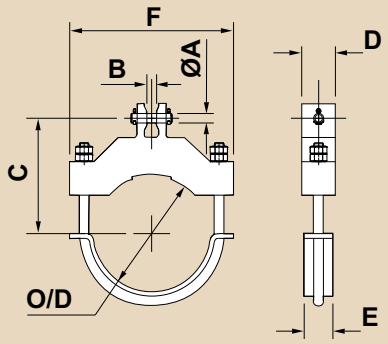
USE WITH FIG.RWC WELDING CLEVIS

FOR USE WHEN PIN TO PIN IS LESS THAN MINIMUM PIN TO PIN FOR FIG RS RIGID STRUT (WITH REDUCED ADJUSTMENT).

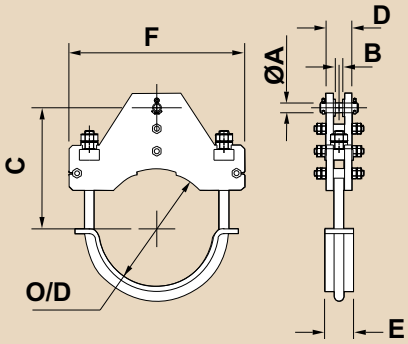
FOR PIN-TO-PIN BETWEEN "L" AND "L (MAX)", FIG. RSA SHORT STRUT GIVES ± 50 MM LENGTH ADJUSTMENT.

AT PIN-TO-PIN LESS THAN "L" THE AMOUNT OF LENGTH ADJUSTMENT IS REDUCED.

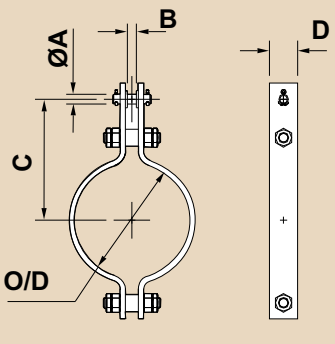
## CLAMPS FOR RIGID STRUTS — N.B. 0.5” / 15mm




TYPE RY3 CLAMP




TYPE RY4 CLAMP

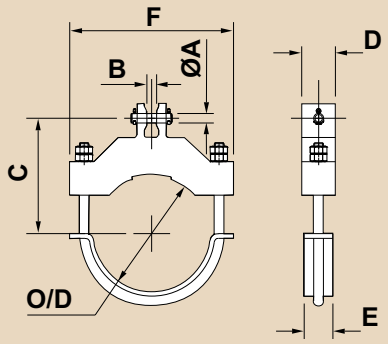



TYPE RP5 CLAMP

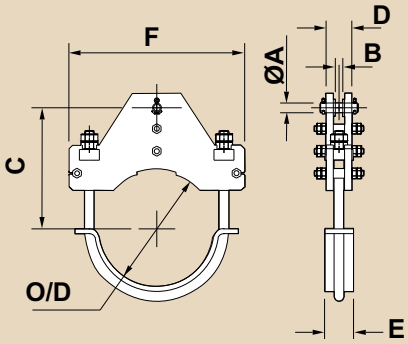
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-15-1-400 | 21.3 | 400 | 423 | 4.15 | 933 | 10 | 9 | 85 | 3.35 | 20 | 20 | 65 | 0.6 | 6 | 1.3 |
| RP5-15-1-400 | 21.3 | 400 | 423 | 4.15 | 933 | 10 | 9 | 85 | 3.35 | 40 | | | 0.7 | 6 | 1.4 |
| RP5-15-2-400 | 21.3 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 85 | 3.35 | 40 | | | 0.7 | 6 | 1.4 |
| RY3-15-1-490 | 21.3 | 490 | 423 | 4.15 | 933 | 10 | 9 | 85 | 3.35 | 20 | 20 | 65 | 0.6 | 6 | 1.3 |
| RP5-15-1-490 | 21.3 | 490 | 423 | 4.15 | 933 | 10 | 9 | 85 | 3.35 | 40 | | | 0.6 | 6 | 1.4 |
| RP5-15-2-490 | 21.3 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 85 | 3.35 | 40 | | | 0.6 | 6 | 1.4 |
| RY3-15-1-530 | 21.3 | 530 | 423 | 4.15 | 933 | 10 | 9 | 85 | 3.35 | 20 | 30 | 72 | 0.7 | 7 | 1.5 |
| RP5-15-1-530 | 21.3 | 530 | 423 | 4.15 | 933 | 10 | 9 | 85 | 3.35 | 40 | | | 0.6 | 6 | 1.4 |
| RP5-15-2-530 | 21.3 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 85 | 3.35 | 40 | | | 0.6 | 6 | 1.4 |
| RY3-15-1-570 | 21.3 | 570 | 423 | 4.15 | 933 | 10 | 9 | 85 | 3.35 | 25 | 30 | 83 | 1.0 | 10 | 2.2 |
| RP5-15-1-570 | 21.3 | 570 | 423 | 4.15 | 933 | 10 | 9 | 85 | 3.35 | 40 | | | 0.6 | 6 | 1.4 |
| RP5-15-2-570 | 21.3 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 85 | 3.35 | 40 | | | 0.6 | 6 | 1.4 |

## CLAMPS FOR RIGID STRUTS — N.B. 0.75” / 20mm

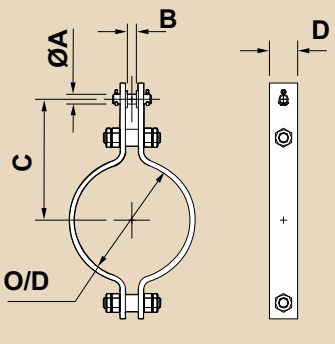
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-20-1-400 | 26.7 | 400 | 423 | 4.15 | 933 | 10 | 9 | 87 | 3.43 | 20 | 20 | 70 | 0.6 | 6 | 1.3 |
| RP5-20-1-400 | 26.7 | 400 | 423 | 4.15 | 933 | 10 | 9 | 85 | 3.35 | 40 | | | 0.7 | 7 | 1.5 |
| RY3-20-2-400 | 26.7 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 87 | 3.43 | 20 | 30 | 77 | 0.7 | 7 | 1.6 |
| RP5-20-2-400 | 26.7 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 85 | 3.35 | 40 | | | 0.7 | 7 | 1.5 |
| RY3-20-1-490 | 26.7 | 490 | 423 | 4.15 | 933 | 10 | 9 | 87 | 3.43 | 20 | 20 | 70 | 0.6 | 6 | 1.3 |
| RP5-20-1-490 | 26.7 | 490 | 423 | 4.15 | 933 | 10 | 9 | 85 | 3.35 | 40 | | | 0.7 | 7 | 1.5 |
| RY3-20-2-490 | 26.7 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 87 | 3.43 | 20 | 30 | 77 | 0.7 | 7 | 1.6 |
| RP5-20-2-490 | 26.7 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 85 | 3.35 | 40 | | | 0.7 | 7 | 1.5 |
| RY3-20-1-530 | 26.7 | 530 | 423 | 4.15 | 933 | 10 | 9 | 87 | 3.43 | 20 | 30 | 77 | 0.7 | 7 | 1.5 |
| RP5-20-1-530 | 26.7 | 530 | 423 | 4.15 | 933 | 10 | 9 | 85 | 3.35 | 40 | | | 0.7 | 7 | 1.5 |
| RY3-20-2-530 | 26.7 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 87 | 3.43 | 25 | 30 | 88 | 1.0 | 10 | 2.3 |
| RP5-20-2-530 | 26.7 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 85 | 3.35 | 40 | | | 0.7 | 7 | 1.5 |
| RY3-20-1-570 | 26.7 | 570 | 423 | 4.15 | 933 | 10 | 9 | 87 | 3.43 | 25 | 30 | 88 | 1.0 | 10 | 2.2 |
| RP5-20-1-570 | 26.7 | 570 | 423 | 4.15 | 933 | 10 | 9 | 85 | 3.35 | 40 | | | 0.7 | 7 | 1.5 |
| RY3-20-2-570 | 26.7 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 87 | 3.43 | 30 | 40 | 102 | 1.5 | 15 | 3.4 |
| RP5-20-2-570 | 26.7 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 85 | 3.35 | 50 | | | 1.3 | 13 | 3.0 |




TYPE RY3 CLAMP

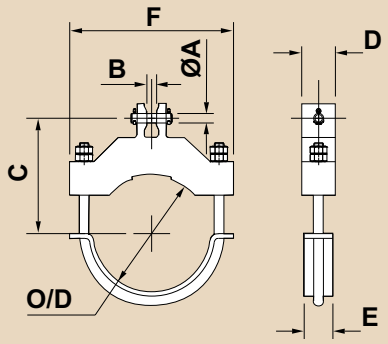



TYPE RY4 CLAMP

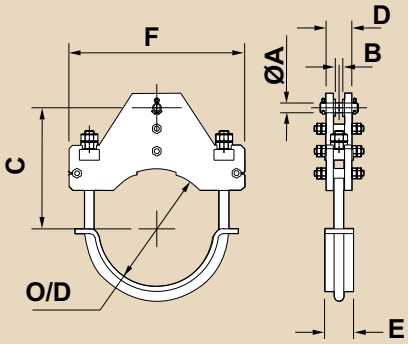



TYPE RP5 CLAMP

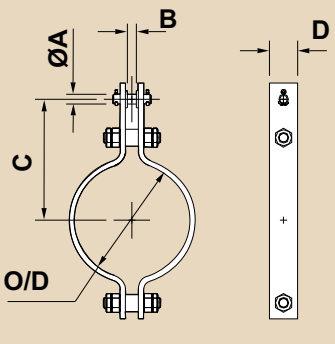
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-25-1-400 | 33.4 | 400 | 423 | 4.15 | 933 | 10 | 9 | 106 | 4.17 | 20 | 20 | 78 | 0.7 | 7 | 1.6 |
| RP5-25-1-400 | 33.4 | 400 | 423 | 4.15 | 933 | 10 | 9 | 105 | 4.13 | 40 | | | 0.8 | 8 | 1.7 |
| RY3-25-2-400 | 33.4 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 106 | 4.17 | 20 | 30 | 85 | 0.9 | 9 | 2.0 |
| RP5-25-2-400 | 33.4 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 105 | 4.13 | 40 | | | 0.8 | 8 | 1.7 |
| RY3-25-1-490 | 33.4 | 490 | 423 | 4.15 | 933 | 10 | 9 | 106 | 4.17 | 20 | 20 | 78 | 0.7 | 7 | 1.6 |
| RP5-25-1-490 | 33.4 | 490 | 423 | 4.15 | 933 | 10 | 9 | 105 | 4.13 | 40 | | | 0.8 | 8 | 1.7 |
| RY3-25-2-490 | 33.4 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 106 | 4.17 | 20 | 30 | 85 | 0.9 | 9 | 2.0 |
| RP5-25-2-490 | 33.4 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 105 | 4.13 | 40 | | | 0.8 | 8 | 1.7 |
| RY3-25-1-530 | 33.4 | 530 | 423 | 4.15 | 933 | 10 | 9 | 106 | 4.17 | 20 | 30 | 85 | 0.9 | 8 | 1.9 |
| RP5-25-1-530 | 33.4 | 530 | 423 | 4.15 | 933 | 10 | 9 | 105 | 4.13 | 40 | | | 0.8 | 8 | 1.7 |
| RY3-25-2-530 | 33.4 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 106 | 4.17 | 25 | 30 | 96 | 1.3 | 12 | 2.8 |
| RP5-25-2-530 | 33.4 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 105 | 4.13 | 50 | | | 1.6 | 15 | 3.4 |
| RY3-25-1-570 | 33.4 | 570 | 423 | 4.15 | 933 | 10 | 9 | 106 | 4.17 | 25 | 30 | 96 | 1.2 | 12 | 2.7 |
| RP5-25-1-570 | 33.4 | 570 | 423 | 4.15 | 933 | 10 | 9 | 105 | 4.13 | 40 | | | 0.8 | 8 | 1.7 |
| RY3-25-2-570 | 33.4 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 106 | 4.17 | 30 | 40 | 110 | 1.8 | 18 | 4.0 |
| RP5-25-2-570 | 33.4 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 105 | 4.13 | 50 | | | 1.6 | 15 | 3.4 |




TYPE RY3 CLAMP

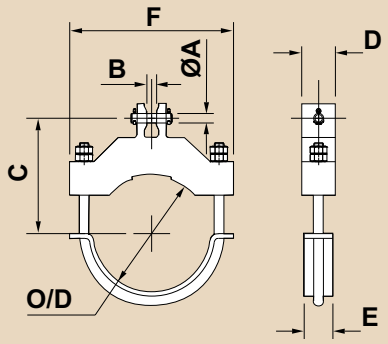



TYPE RY4 CLAMP

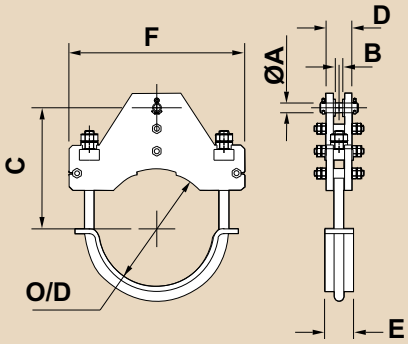



TYPE RP5 CLAMP

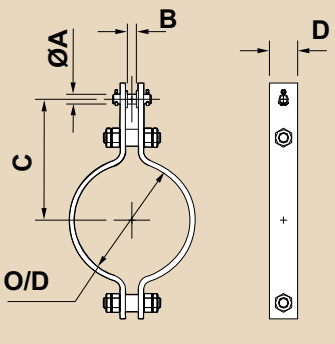
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-32-1-400 | 42.2 | 400 | 423 | 4.15 | 933 | 10 | 9 | 110 | 4.33 | 20 | 20 | 86 | 0.8 | 8 | 1.8 |
| RP5-32-1-400 | 42.2 | 400 | 423 | 4.15 | 933 | 10 | 9 | 110 | 4.33 | 40 | | | 0.8 | 8 | 1.8 |
| RY3-32-2-400 | 42.2 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 110 | 4.33 | 20 | 30 | 93 | 1.0 | 10 | 2.2 |
| RP5-32-2-400 | 42.2 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 110 | 4.33 | 50 | | | 1.7 | 16 | 3.6 |
| RY3-32-3-400 | 42.2 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 117 | 4.61 | 30 | 40 | 118 | 2.2 | 21 | 4.8 |
| RP5-32-3-400 | 42.2 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 115 | 4.53 | 50 | | | 1.8 | 18 | 4.0 |
| RY3-32-1-490 | 42.2 | 490 | 423 | 4.15 | 933 | 10 | 9 | 110 | 4.33 | 20 | 20 | 86 | 0.8 | 8 | 1.8 |
| RP5-32-1-490 | 42.2 | 490 | 423 | 4.15 | 933 | 10 | 9 | 110 | 4.33 | 40 | | | 0.8 | 8 | 1.8 |
| RY3-32-2-490 | 42.2 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 110 | 4.33 | 20 | 30 | 93 | 1.0 | 10 | 2.2 |
| RP5-32-2-490 | 42.2 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 110 | 4.33 | 50 | | | 1.7 | 16 | 3.6 |
| RY3-32-3-490 | 42.2 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 117 | 4.61 | 30 | 40 | 118 | 2.2 | 21 | 4.8 |
| RP5-32-3-490 | 42.2 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 115 | 4.53 | 50 | | | 1.8 | 18 | 4.0 |
| RY3-32-1-530 | 42.2 | 530 | 423 | 4.15 | 933 | 10 | 9 | 110 | 4.33 | 20 | 30 | 93 | 1.0 | 9 | 2.1 |
| RP5-32-1-530 | 42.2 | 530 | 423 | 4.15 | 933 | 10 | 9 | 110 | 4.33 | 40 | | | 0.8 | 8 | 1.8 |
| RY3-32-2-530 | 42.2 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 110 | 4.33 | 25 | 30 | 104 | 1.4 | 14 | 3.1 |
| RP5-32-2-530 | 42.2 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 110 | 4.33 | 50 | | | 1.7 | 16 | 3.6 |
| RY3-32-3-530 | 42.2 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 117 | 4.61 | 40 | 50 | 132 | 3.2 | 31 | 7.0 |
| RP5-32-3-530 | 42.2 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 115 | 4.53 | 50 | | | 1.8 | 18 | 4.0 |
| RY3-32-1-570 | 42.2 | 570 | 423 | 4.15 | 933 | 10 | 9 | 110 | 4.33 | 25 | 30 | 104 | 1.3 | 13 | 3.0 |
| RP5-32-1-570 | 42.2 | 570 | 423 | 4.15 | 933 | 10 | 9 | 110 | 4.33 | 40 | | | 0.8 | 8 | 1.8 |
| RY3-32-2-570 | 42.2 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 110 | 4.33 | 30 | 40 | 118 | 2.0 | 20 | 4.4 |
| RP5-32-2-570 | 42.2 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 110 | 4.33 | 50 | | | 1.7 | 16 | 3.6 |
| RY3-32-3-570 | 42.2 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 117 | 4.61 | 50 | 50 | 150 | 4.6 | 45 | 10.1 |
| RP5-32-3-570 | 42.2 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 115 | 4.53 | 70 | | | 2.9 | 29 | 6.4 |




TYPE RY3 CLAMP

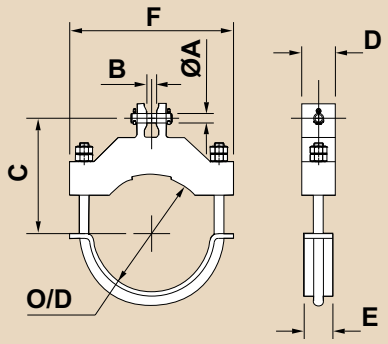



TYPE RY4 CLAMP

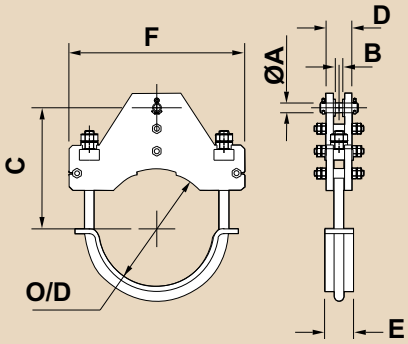



TYPE RP5 CLAMP

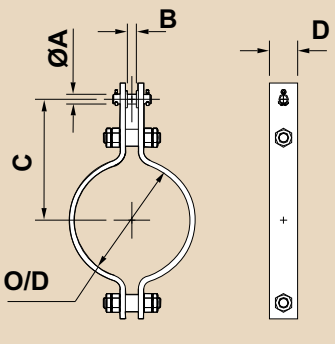
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-40-1-400 | 48.3 | 400 | 423 | 4.15 | 933 | 10 | 9 | 113 | 4.45 | 20 | 20 | 92 | 0.9 | 9 | 2.0 |
| RP5-40-1-400 | 48.3 | 400 | 423 | 4.15 | 933 | 10 | 9 | 115 | 4.53 | 40 | | | 0.9 | 9 | 1.9 |
| RY3-40-2-400 | 48.3 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 113 | 4.45 | 20 | 30 | 99 | 1.1 | 11 | 2.4 |
| RP5-40-2-400 | 48.3 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 115 | 4.53 | 50 | | | 1.8 | 17 | 3.9 |
| RY3-40-3-400 | 48.3 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 120 | 4.72 | 30 | 40 | 124 | 2.3 | 22 | 5.1 |
| RP5-40-3-400 | 48.3 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 120 | 4.72 | 50 | | | 1.9 | 19 | 4.2 |
| RY3-40-1-490 | 48.3 | 490 | 423 | 4.15 | 933 | 10 | 9 | 113 | 4.45 | 20 | 20 | 92 | 0.9 | 9 | 2.0 |
| RP5-40-1-490 | 48.3 | 490 | 423 | 4.15 | 933 | 10 | 9 | 115 | 4.53 | 40 | | | 0.9 | 9 | 1.9 |
| RY3-40-2-490 | 48.3 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 113 | 4.45 | 20 | 30 | 99 | 1.1 | 11 | 2.4 |
| RP5-40-2-490 | 48.3 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 115 | 4.53 | 50 | | | 1.8 | 17 | 3.9 |
| RY3-40-3-490 | 48.3 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 120 | 4.72 | 30 | 40 | 124 | 2.3 | 22 | 5.1 |
| RP5-40-3-490 | 48.3 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 120 | 4.72 | 50 | | | 1.9 | 19 | 4.2 |
| RY3-40-1-530 | 48.3 | 530 | 423 | 4.15 | 933 | 10 | 9 | 113 | 4.45 | 20 | 30 | 99 | 1.0 | 10 | 2.3 |
| RP5-40-1-530 | 48.3 | 530 | 423 | 4.15 | 933 | 10 | 9 | 115 | 4.53 | 40 | | | 0.9 | 9 | 1.9 |
| RY3-40-2-530 | 48.3 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 113 | 4.45 | 25 | 30 | 110 | 1.5 | 15 | 3.3 |
| RP5-40-2-530 | 48.3 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 115 | 4.53 | 50 | | | 1.8 | 17 | 3.9 |
| RY3-40-3-530 | 48.3 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 120 | 4.72 | 40 | 50 | 138 | 3.3 | 33 | 7.4 |
| RP5-40-3-530 | 48.3 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 120 | 4.72 | 50 | | | 1.9 | 19 | 4.2 |
| RY3-40-1-570 | 48.3 | 570 | 423 | 4.15 | 933 | 10 | 9 | 113 | 4.45 | 25 | 30 | 110 | 1.5 | 14 | 3.2 |
| RP5-40-1-570 | 48.3 | 570 | 423 | 4.15 | 933 | 10 | 9 | 115 | 4.53 | 50 | | | 1.8 | 17 | 3.9 |
| RY3-40-2-570 | 48.3 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 113 | 4.45 | 30 | 40 | 124 | 2.1 | 21 | 4.7 |
| RP5-40-2-570 | 48.3 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 115 | 4.53 | 50 | | | 1.8 | 17 | 3.9 |
| RY3-40-3-570 | 48.3 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 120 | 4.72 | 50 | 50 | 156 | 4.8 | 47 | 10.7 |
| RP5-40-3-570 | 48.3 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 120 | 4.72 | 70 | | | 3.1 | 30 | 6.8 |




TYPE RY3 CLAMP

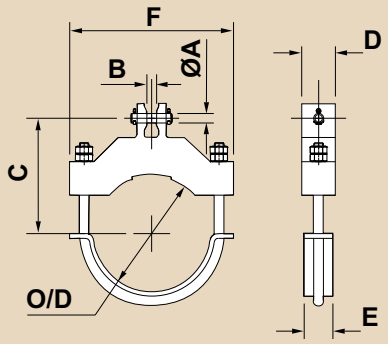



TYPE RY4 CLAMP

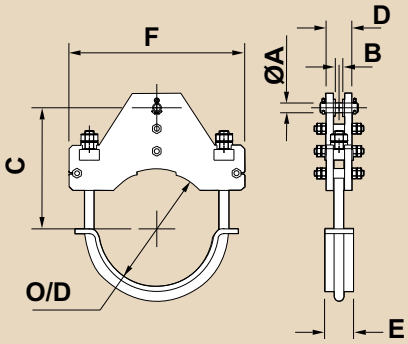



TYPE RP5 CLAMP

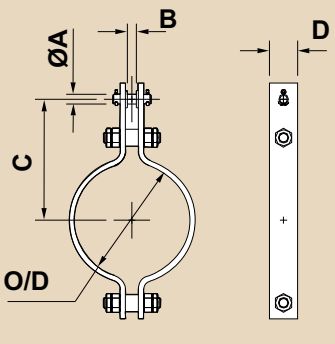
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-50-1-400 | 60.3 | 400 | 423 | 4.15 | 933 | 10 | 9 | 119 | 4.69 | 20 | 20 | 104 | 1.1 | 10 | 2.3 |
| RY4-50-1-400 | 60.3 | 400 | 423 | 4.15 | 933 | 10 | 9 | 119 | 4.69 | 36 | 20 | 150 | 1.9 | 18 | 4.1 |
| RP5-50-1-400 | 60.3 | 400 | 423 | 4.15 | 933 | 10 | 9 | 120 | 4.72 | 40 | | | 0.9 | 9 | 2.0 |
| RY3-50-2-400 | 60.3 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 119 | 4.69 | 20 | 30 | 111 | 1.3 | 12 | 2.8 |
| RP5-50-2-400 | 60.3 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 120 | 4.72 | 50 | | | 1.9 | 18 | 4.1 |
| RY3-50-3-400 | 60.3 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 126 | 4.96 | 30 | 40 | 136 | 2.6 | 26 | 5.7 |
| RP5-50-3-400 | 60.3 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 125 | 4.92 | 50 | | | 2.2 | 21 | 4.8 |
| RY3-50-4-400 | 60.3 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 137 | 5.39 | 40 | 50 | 150 | 4.2 | 41 | 9.3 |
| RP5-50-4-400 | 60.3 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 135 | 5.31 | 70 | | | 4.0 | 40 | 8.9 |
| RY3-50-1-490 | 60.3 | 490 | 423 | 4.15 | 933 | 10 | 9 | 119 | 4.69 | 20 | 20 | 104 | 1.1 | 10 | 2.3 |
| RY4-50-1-490 | 60.3 | 490 | 423 | 4.15 | 933 | 10 | 9 | 119 | 4.69 | 36 | 20 | 150 | 1.9 | 19 | 4.2 |
| RP5-50-1-490 | 60.3 | 490 | 423 | 4.15 | 933 | 10 | 9 | 120 | 4.72 | 40 | | | 0.9 | 9 | 2.0 |
| RY3-50-2-490 | 60.3 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 119 | 4.69 | 20 | 30 | 111 | 1.3 | 12 | 2.8 |
| RP5-50-2-490 | 60.3 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 120 | 4.72 | 50 | | | 1.9 | 18 | 4.1 |
| RY3-50-3-490 | 60.3 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 126 | 4.96 | 30 | 40 | 136 | 2.6 | 26 | 5.7 |
| RP5-50-3-490 | 60.3 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 125 | 4.92 | 50 | | | 2.0 | 20 | 4.4 |
| RY3-50-4-490 | 60.3 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 137 | 5.39 | 40 | 50 | 150 | 4.2 | 41 | 9.3 |
| RP5-50-4-490 | 60.3 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 135 | 5.31 | 70 | | | 3.8 | 37 | 8.3 |
| RY3-50-1-530 | 60.3 | 530 | 423 | 4.15 | 933 | 10 | 9 | 119 | 4.69 | 20 | 30 | 111 | 1.2 | 12 | 2.7 |
| RY4-50-1-530 | 60.3 | 530 | 423 | 4.15 | 933 | 10 | 9 | 119 | 4.69 | 36 | 30 | 152 | 2.0 | 20 | 4.5 |
| RP5-50-1-530 | 60.3 | 530 | 423 | 4.15 | 933 | 10 | 9 | 120 | 4.72 | 40 | | | 0.9 | 9 | 2.0 |
| RY3-50-2-530 | 60.3 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 119 | 4.69 | 25 | 30 | 122 | 1.7 | 17 | 3.8 |
| RY4-50-2-530 | 60.3 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 119 | 4.69 | 39 | 30 | 166 | 2.4 | 24 | 5.3 |
| RP5-50-2-530 | 60.3 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 120 | 4.72 | 50 | | | 1.9 | 18 | 4.1 |
| RY3-50-3-530 | 60.3 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 126 | 4.96 | 40 | 50 | 150 | 3.7 | 37 | 8.2 |
| RP5-50-3-530 | 60.3 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 125 | 4.92 | 60 | | | 2.4 | 23 | 5.3 |
| RY3-50-4-530 | 60.3 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 137 | 5.39 | 50 | 50 | 168 | 5.9 | 58 | 13.1 |
| RP5-50-4-530 | 60.3 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 135 | 5.31 | 80 | | | 4.3 | 42 | 9.4 |
| RY3-50-1-570 | 60.3 | 570 | 423 | 4.15 | 933 | 10 | 9 | 119 | 4.69 | 25 | 30 | 122 | 1.7 | 16 | 3.7 |
| RY4-50-1-570 | 60.3 | 570 | 423 | 4.15 | 933 | 10 | 9 | 119 | 4.69 | 36 | 30 | 158 | 2.4 | 24 | 5.3 |
| RP5-50-1-570 | 60.3 | 570 | 423 | 4.15 | 933 | 10 | 9 | 120 | 4.72 | 50 | | | 1.9 | 18 | 4.1 |
| RY3-50-2-570 | 60.3 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 119 | 4.69 | 30 | 40 | 136 | 2.4 | 24 | 5.4 |
| RY4-50-2-570 | 60.3 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 119 | 4.69 | 39 | 40 | 170 | 3.4 | 33 | 7.4 |
| RP5-50-2-570 | 60.3 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 120 | 4.72 | 50 | | | 1.9 | 18 | 4.1 |
| RY3-50-3-570 | 60.3 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 126 | 4.96 | 50 | 50 | 168 | 5.4 | 53 | 11.9 |
| RP5-50-3-570 | 60.3 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 125 | 4.92 | 70 | | | 3.3 | 33 | 7.4 |
| RY3-50-4-570 | 60.3 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 137 | 5.39 | 60 | 70 | 189 | 8.7 | 85 | 19.1 |
| RP5-50-4-570 | 60.3 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 135 | 5.31 | 80 | | | 5.4 | 53 | 11.8 |




TYPE RY3 CLAMP

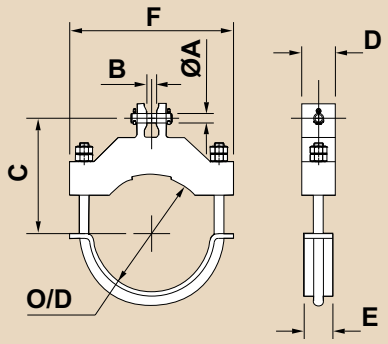



TYPE RY4 CLAMP

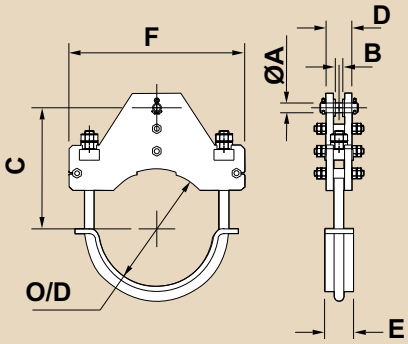



TYPE RP5 CLAMP

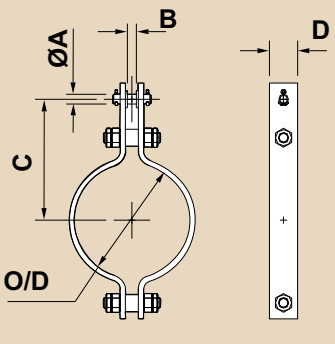
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-65-1-400 | 73 | 400 | 423 | 4.15 | 933 | 10 | 9 | 128 | 5.04 | 20 | 20 | 122 | 1.3 | 13 | 2.9 |
| RY4-65-1-400 | 73 | 400 | 423 | 4.15 | 933 | 10 | 9 | 128 | 5.04 | 36 | 20 | 168 | 2.3 | 23 | 5.1 |
| RP5-65-1-400 | 73 | 400 | 423 | 4.15 | 933 | 10 | 9 | 125 | 4.92 | 40 | | | 1.0 | 10 | 2.2 |
| RY3-65-2-400 | 73 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 128 | 5.04 | 20 | 30 | 129 | 1.5 | 15 | 3.4 |
| RY4-65-2-400 | 73 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 128 | 5.04 | 39 | 30 | 178 | 2.7 | 26 | 5.9 |
| RP5-65-2-400 | 73 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 125 | 4.92 | 50 | | | 2.1 | 20 | 4.5 |
| RY3-65-3-400 | 73 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 135 | 5.31 | 30 | 40 | 154 | 3.1 | 30 | 6.8 |
| RP5-65-3-400 | 73 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 130 | 5.12 | 60 | | | 2.8 | 27 | 6.1 |
| RY3-65-4-400 | 73 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 146 | 5.75 | 40 | 50 | 168 | 4.9 | 48 | 10.9 |
| RP5-65-4-400 | 73 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 140 | 5.51 | 80 | | | 4.9 | 48 | 10.8 |
| RY3-65-5-400 | 73 | 400 | 6324 | 62 | 13942 | 25 | 20 | 153 | 6.02 | 50 | 50 | 186 | 7.4 | 73 | 16.4 |
| RY3-65-1-490 | 73 | 490 | 423 | 4.15 | 933 | 10 | 9 | 128 | 5.04 | 20 | 20 | 122 | 1.3 | 13 | 2.9 |
| RY4-65-1-490 | 73 | 490 | 423 | 4.15 | 933 | 10 | 9 | 128 | 5.04 | 36 | 20 | 168 | 2.3 | 23 | 5.2 |
| RP5-65-1-490 | 73 | 490 | 423 | 4.15 | 933 | 10 | 9 | 125 | 4.92 | 40 | | | 1.0 | 10 | 2.2 |
| RY3-65-2-490 | 73 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 128 | 5.04 | 20 | 30 | 129 | 1.5 | 15 | 3.4 |
| RY4-65-2-490 | 73 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 128 | 5.04 | 39 | 30 | 178 | 2.7 | 26 | 5.9 |
| RP5-65-2-490 | 73 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 125 | 4.92 | 50 | | | 2.1 | 20 | 4.5 |
| RY3-65-3-490 | 73 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 135 | 5.31 | 30 | 40 | 154 | 3.1 | 30 | 6.8 |
| RP5-65-3-490 | 73 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 130 | 5.12 | 60 | | | 2.6 | 25 | 5.7 |
| RY3-65-4-490 | 73 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 146 | 5.75 | 40 | 50 | 168 | 4.9 | 48 | 10.9 |
| RP5-65-4-490 | 73 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 140 | 5.51 | 80 | | | 4.6 | 45 | 10.2 |
| RY3-65-5-490 | 73 | 490 | 6324 | 62 | 13942 | 25 | 20 | 153 | 6.02 | 50 | 50 | 186 | 7.4 | 73 | 16.4 |
| RY3-65-1-530 | 73 | 530 | 423 | 4.15 | 933 | 10 | 9 | 128 | 5.04 | 20 | 30 | 129 | 1.5 | 15 | 3.3 |
| RY4-65-1-530 | 73 | 530 | 423 | 4.15 | 933 | 10 | 9 | 128 | 5.04 | 36 | 30 | 170 | 2.5 | 24 | 5.5 |
| RP5-65-1-530 | 73 | 530 | 423 | 4.15 | 933 | 10 | 9 | 125 | 4.92 | 40 | | | 1.0 | 10 | 2.2 |
| RY3-65-2-530 | 73 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 128 | 5.04 | 25 | 30 | 140 | 2.1 | 21 | 4.6 |
| RY4-65-2-530 | 73 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 128 | 5.04 | 39 | 30 | 184 | 2.7 | 27 | 6.0 |
| RP5-65-2-530 | 73 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 125 | 4.92 | 50 | | | 2.1 | 20 | 4.5 |
| RY3-65-3-530 | 73 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 135 | 5.31 | 40 | 50 | 168 | 4.4 | 43 | 9.7 |
| RP5-65-3-530 | 73 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 130 | 5.12 | 70 | | | 3.6 | 36 | 8.0 |
| RY3-65-4-530 | 73 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 146 | 5.75 | 50 | 50 | 186 | 6.8 | 67 | 15.1 |
| RP5-65-4-530 | 73 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 140 | 5.51 | 80 | | | 5.8 | 57 | 12.7 |
| RY3-65-5-530 | 73 | 530 | 6324 | 62 | 13942 | 25 | 20 | 153 | 6.02 | 60 | 70 | 207 | 10.5 | 102 | 23.0 |
| RY3-65-1-570 | 73 | 570 | 423 | 4.15 | 933 | 10 | 9 | 128 | 5.04 | 25 | 30 | 140 | 2.0 | 20 | 4.5 |
| RY4-65-1-570 | 73 | 570 | 423 | 4.15 | 933 | 10 | 9 | 128 | 5.04 | 36 | 30 | 176 | 2.5 | 24 | 5.5 |
| RP5-65-1-570 | 73 | 570 | 423 | 4.15 | 933 | 10 | 9 | 125 | 4.92 | 50 | | | 2.1 | 20 | 4.5 |
| RY3-65-2-570 | 73 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 128 | 5.04 | 30 | 40 | 154 | 2.9 | 28 | 6.4 |
| RY4-65-2-570 | 73 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 128 | 5.04 | 39 | 40 | 188 | 3.6 | 36 | 8.0 |
| RP5-65-2-570 | 73 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 125 | 4.92 | 50 | | | 2.1 | 20 | 4.5 |
| RY3-65-3-570 | 73 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 135 | 5.31 | 50 | 50 | 186 | 6.2 | 61 | 13.7 |
| RP5-65-3-570 | 73 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 130 | 5.12 | 80 | | | 4.4 | 43 | 9.7 |
| RY3-65-4-570 | 73 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 146 | 5.75 | 60 | 70 | 207 | 9.8 | 96 | 21.6 |
| RP5-65-4-570 | 73 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 140 | 5.51 | 100 | | | 7.2 | 70 | 15.8 |
| RY3-65-5-570 | 73 | 570 | 6324 | 62 | 13942 | 25 | 20 | 153 | 6.02 | 70 | 80 | 232 | 14.8 | 145 | 32.6 |




TYPE RY3 CLAMP

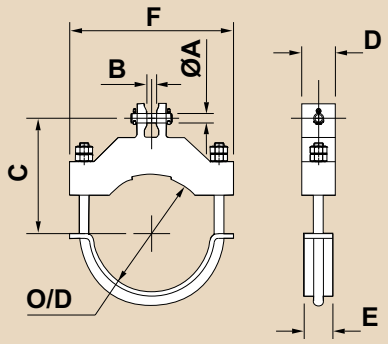



TYPE RY4 CLAMP

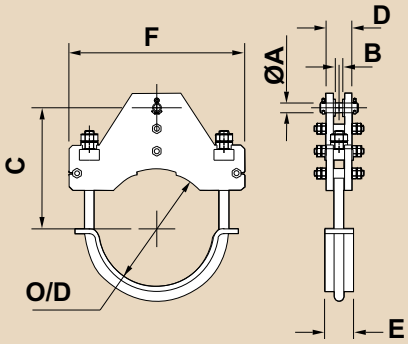



TYPE RP5 CLAMP

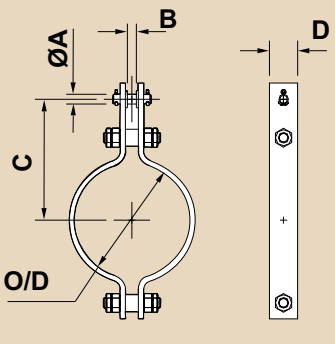
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-80-1-400 | 88.9 | 400 | 423 | 4.15 | 933 | 10 | 9 | 134 | 5.28 | 20 | 20 | 134 | 1.5 | 15 | 3.3 |
| RY4-80-1-400 | 88.9 | 400 | 423 | 4.15 | 933 | 10 | 9 | 134 | 5.28 | 36 | 20 | 180 | 2.0 | 20 | 4.5 |
| RP5-80-1-400 | 88.9 | 400 | 423 | 4.15 | 933 | 10 | 9 | 135 | 5.31 | 40 | | | 1.1 | 11 | 2.4 |
| RY3-80-2-400 | 88.9 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 134 | 5.28 | 20 | 30 | 141 | 1.7 | 17 | 3.8 |
| RY4-80-2-400 | 88.9 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 134 | 5.28 | 39 | 30 | 190 | 2.4 | 23 | 5.3 |
| RP5-80-2-400 | 88.9 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 135 | 5.31 | 50 | | | 2.3 | 22 | 5.0 |
| RY3-80-3-400 | 88.9 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 141 | 5.55 | 30 | 40 | 166 | 3.4 | 34 | 7.6 |
| RY4-80-3-400 | 88.9 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 140 | 5.51 | 47 | 40 | 238 | 5.2 | 51 | 11.4 |
| RP5-80-3-400 | 88.9 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 140 | 5.51 | 70 | | | 4.1 | 40 | 9.1 |
| RY3-80-4-400 | 88.9 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 152 | 5.98 | 40 | 50 | 180 | 5.4 | 53 | 11.9 |
| RP5-80-4-400 | 88.9 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 150 | 5.91 | 80 | | | 6.6 | 64 | 14.5 |
| RY3-80-5-400 | 88.9 | 400 | 6324 | 62 | 13942 | 25 | 20 | 159 | 6.26 | 50 | 50 | 198 | 8.1 | 79 | 17.8 |
| RP5-80-5-400 | 88.9 | 400 | 6324 | 62 | 13942 | 25 | 20 | 165 | 6.50 | 100 | | | 9.1 | 89 | 20.0 |
| RY3-80-1-490 | 88.9 | 490 | 423 | 4.15 | 933 | 10 | 9 | 134 | 5.28 | 20 | 20 | 134 | 1.5 | 15 | 3.3 |
| RY4-80-1-490 | 88.9 | 490 | 423 | 4.15 | 933 | 10 | 9 | 134 | 5.28 | 36 | 20 | 180 | 2.1 | 20 | 4.5 |
| RP5-80-1-490 | 88.9 | 490 | 423 | 4.15 | 933 | 10 | 9 | 135 | 5.31 | 40 | | | 1.1 | 11 | 2.4 |
| RY3-80-2-490 | 88.9 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 134 | 5.28 | 20 | 30 | 141 | 1.7 | 17 | 3.8 |
| RY4-80-2-490 | 88.9 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 134 | 5.28 | 39 | 30 | 190 | 2.4 | 24 | 5.3 |
| RP5-80-2-490 | 88.9 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 135 | 5.31 | 50 | | | 2.3 | 22 | 5.0 |
| RY3-80-3-490 | 88.9 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 141 | 5.55 | 30 | 40 | 166 | 3.4 | 34 | 7.6 |
| RY4-80-3-490 | 88.9 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 140 | 5.51 | 47 | 40 | 238 | 5.2 | 51 | 11.5 |
| RP5-80-3-490 | 88.9 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 140 | 5.51 | 70 | | | 3.9 | 38 | 8.6 |
| RY3-80-4-490 | 88.9 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 152 | 5.98 | 40 | 50 | 180 | 5.4 | 53 | 11.9 |
| RP5-80-4-490 | 88.9 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 150 | 5.91 | 80 | | | 6.3 | 61 | 13.8 |
| RY3-80-5-490 | 88.9 | 490 | 6324 | 62 | 13942 | 25 | 20 | 159 | 6.26 | 50 | 50 | 198 | 8.1 | 79 | 17.8 |
| RP5-80-5-490 | 88.9 | 490 | 6324 | 62 | 13942 | 25 | 20 | 155 | 6.10 | 100 | | | 8.4 | 82 | 18.5 |
| RY3-80-1-530 | 88.9 | 530 | 423 | 4.15 | 933 | 10 | 9 | 134 | 5.28 | 20 | 30 | 141 | 1.7 | 17 | 3.7 |
| RY4-80-1-530 | 88.9 | 530 | 423 | 4.15 | 933 | 10 | 9 | 134 | 5.28 | 36 | 30 | 182 | 2.3 | 22 | 5.1 |
| RP5-80-1-530 | 88.9 | 530 | 423 | 4.15 | 933 | 10 | 9 | 135 | 5.31 | 50 | | | 2.3 | 22 | 5.0 |
| RY3-80-2-530 | 88.9 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 134 | 5.28 | 25 | 30 | 152 | 2.4 | 23 | 5.2 |
| RY4-80-2-530 | 88.9 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 134 | 5.28 | 39 | 30 | 196 | 2.8 | 28 | 6.3 |
| RP5-80-2-530 | 88.9 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 135 | 5.31 | 50 | | | 2.3 | 22 | 5.0 |
| RY3-80-3-530 | 88.9 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 141 | 5.55 | 40 | 50 | 180 | 4.8 | 47 | 10.6 |
| RY4-80-3-530 | 88.9 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 141 | 5.55 | 47 | 50 | 242 | 6.9 | 67 | 15.1 |
| RP5-80-3-530 | 88.9 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 140 | 5.51 | 70 | | | 4.1 | 40 | 9.1 |
| RY3-80-4-530 | 88.9 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 152 | 5.98 | 50 | 50 | 198 | 7.4 | 73 | 16.4 |
| RP5-80-4-530 | 88.9 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 150 | 5.91 | 80 | | | 6.3 | 61 | 13.8 |
| RY3-80-5-530 | 88.9 | 530 | 6324 | 62 | 13942 | 25 | 20 | 159 | 6.26 | 60 | 70 | 219 | 11.2 | 110 | 24.6 |
| RP5-80-5-530 | 88.9 | 530 | 6324 | 62 | 13942 | 25 | 20 | 165 | 6.50 | 100 | | | 11.6 | 114 | 25.5 |
| RY3-80-1-570 | 88.9 | 570 | 423 | 4.15 | 933 | 10 | 9 | 134 | 5.28 | 25 | 30 | 152 | 2.3 | 22 | 5.0 |
| RY4-80-1-570 | 88.9 | 570 | 423 | 4.15 | 933 | 10 | 9 | 134 | 5.28 | 36 | 30 | 188 | 2.9 | 29 | 6.4 |
| RP5-80-1-570 | 88.9 | 570 | 423 | 4.15 | 933 | 10 | 9 | 135 | 5.31 | 50 | | | 2.3 | 22 | 5.0 |
| RY3-80-2-570 | 88.9 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 134 | 5.28 | 30 | 40 | 166 | 3.3 | 32 | 7.2 |
| RY4-80-2-570 | 88.9 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 134 | 5.28 | 39 | 40 | 200 | 3.8 | 38 | 8.5 |
| RP5-80-2-570 | 88.9 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 135 | 5.31 | 60 | | | 2.7 | 26 | 5.9 |
| RY3-80-3-570 | 88.9 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 141 | 5.55 | 50 | 50 | 198 | 6.8 | 67 | 15.0 |
| RY4-80-3-570 | 88.9 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 153 | 6.02 | 51 | 50 | 250 | 9.5 | 93 | 21.0 |
| RP5-80-3-570 | 88.9 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 140 | 5.51 | 80 | | | 5.9 | 58 | 13.0 |
| RY3-80-4-570 | 88.9 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 152 | 5.98 | 60 | 70 | 219 | 10.6 | 104 | 23.5 |
| RP5-80-4-570 | 88.9 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 150 | 5.91 | 100 | | | 10.4 | 102 | 22.8 |
| RY3-80-5-570 | 88.9 | 570 | 6324 | 62 | 13942 | 25 | 20 | 159 | 6.26 | 70 | 80 | 244 | 15.8 | 155 | 34.8 |
| RP5-80-5-570 | 88.9 | 570 | 6324 | 62 | 13942 | 25 | 20 | 165 | 6.50 | 100 | | | 11.6 | 114 | 25.5 |




TYPE RY3 CLAMP

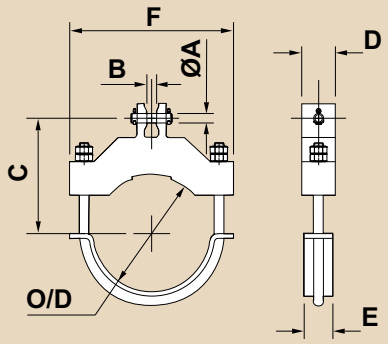



TYPE RY4 CLAMP

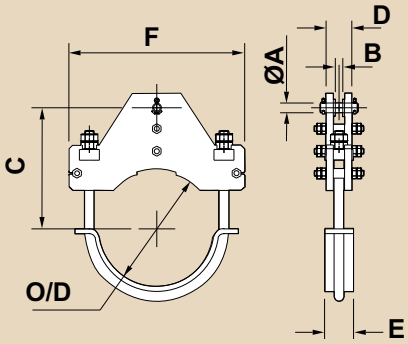



TYPE RP5 CLAMP

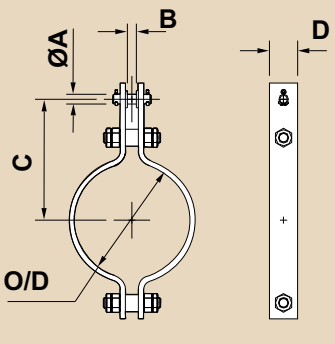
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-90-1-400 | 101.6 | 400 | 423 | 4.15 | 933 | 10 | 9 | 140 | 5.51 | 20 | 20 | 146 | 1.7 | 16 | 3.7 |
| RY4-90-1-400 | 101.6 | 400 | 423 | 4.15 | 933 | 10 | 9 | 140 | 5.51 | 36 | 20 | 192 | 2.6 | 25 | 5.6 |
| RP5-90-1-400 | 101.6 | 400 | 423 | 4.15 | 933 | 10 | 9 | 140 | 5.51 | 40 | | | 1.2 | 12 | 2.6 |
| RY3-90-2-400 | 101.6 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 140 | 5.51 | 20 | 30 | 153 | 2.0 | 19 | 4.3 |
| RY4-90-2-400 | 101.6 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 140 | 5.51 | 39 | 30 | 202 | 2.8 | 28 | 6.3 |
| RP5-90-2-400 | 101.6 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 140 | 5.51 | 50 | | | 2.4 | 23 | 5.3 |
| RY3-90-3-400 | 101.6 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 147 | 5.79 | 30 | 40 | 178 | 3.8 | 37 | 8.4 |
| RY4-90-3-400 | 101.6 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 146 | 5.75 | 47 | 40 | 250 | 5.9 | 58 | 13.1 |
| RP5-90-3-400 | 101.6 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 145 | 5.71 | 70 | | | 4.3 | 42 | 9.6 |
| RY3-90-4-400 | 101.6 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 158 | 6.22 | 40 | 50 | 192 | 5.9 | 58 | 13.1 |
| RP5-90-4-400 | 101.6 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 155 | 6.10 | 80 | | | 6.9 | 67 | 15.1 |
| RY3-90-5-400 | 101.6 | 400 | 6324 | 62 | 13942 | 25 | 20 | 165 | 6.50 | 50 | 50 | 210 | 8.8 | 86 | 19.3 |
| RP5-90-5-400 | 101.6 | 400 | 6324 | 62 | 13942 | 25 | 20 | 175 | 6.89 | 100 | | | 9.6 | 95 | 21.3 |
| RY3-90-1-490 | 101.6 | 490 | 423 | 4.15 | 933 | 10 | 9 | 140 | 5.51 | 20 | 20 | 146 | 1.7 | 16 | 3.7 |
| RY4-90-1-490 | 101.6 | 490 | 423 | 4.15 | 933 | 10 | 9 | 140 | 5.51 | 36 | 20 | 192 | 2.6 | 25 | 5.7 |
| RP5-90-1-490 | 101.6 | 490 | 423 | 4.15 | 933 | 10 | 9 | 140 | 5.51 | 40 | | | 1.2 | 12 | 2.6 |
| RY3-90-2-490 | 101.6 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 140 | 5.51 | 20 | 30 | 153 | 2.0 | 19 | 4.3 |
| RY4-90-2-490 | 101.6 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 140 | 5.51 | 39 | 30 | 202 | 2.9 | 28 | 6.3 |
| RP5-90-2-490 | 101.6 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 140 | 5.51 | 50 | | | 2.4 | 23 | 5.3 |
| RY3-90-3-490 | 101.6 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 147 | 5.79 | 30 | 40 | 178 | 3.8 | 37 | 8.4 |
| RY4-90-3-490 | 101.6 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 146 | 5.75 | 47 | 40 | 250 | 5.9 | 58 | 13.1 |
| RP5-90-3-490 | 101.6 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 145 | 5.71 | 70 | | | 4.2 | 41 | 9.2 |
| RY3-90-4-490 | 101.6 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 158 | 6.22 | 40 | 50 | 192 | 5.9 | 58 | 13.1 |
| RP5-90-4-490 | 101.6 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 155 | 6.10 | 80 | | | 6.6 | 64 | 14.4 |
| RY3-90-5-490 | 101.6 | 490 | 6324 | 62 | 13942 | 25 | 20 | 165 | 6.50 | 50 | 50 | 210 | 8.7 | 85 | 19.2 |
| RP5-90-5-490 | 101.6 | 490 | 6324 | 62 | 13942 | 25 | 20 | 165 | 6.50 | 100 | | | 9.0 | 88 | 19.8 |
| RY3-90-1-530 | 101.6 | 530 | 423 | 4.15 | 933 | 10 | 9 | 140 | 5.51 | 20 | 30 | 153 | 1.9 | 19 | 4.2 |
| RY4-90-1-530 | 101.6 | 530 | 423 | 4.15 | 933 | 10 | 9 | 140 | 5.51 | 36 | 30 | 194 | 2.9 | 29 | 6.5 |
| RP5-90-1-530 | 101.6 | 530 | 423 | 4.15 | 933 | 10 | 9 | 140 | 5.51 | 50 | | | 2.4 | 23 | 5.3 |
| RY3-90-2-530 | 101.6 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 140 | 5.51 | 25 | 30 | 164 | 2.6 | 26 | 5.8 |
| RY4-90-2-530 | 101.6 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 140 | 5.51 | 39 | 30 | 208 | 3.4 | 34 | 7.5 |
| RP5-90-2-530 | 101.6 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 140 | 5.51 | 50 | | | 2.4 | 23 | 5.3 |
| RY3-90-3-530 | 101.6 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 147 | 5.79 | 40 | 50 | 192 | 5.3 | 52 | 11.7 |
| RY4-90-3-530 | 101.6 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 147 | 5.79 | 47 | 50 | 254 | 6.6 | 65 | 14.6 |
| RP5-90-3-530 | 101.6 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 145 | 5.71 | 70 | | | 4.3 | 42 | 9.6 |
| RY3-90-4-530 | 101.6 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 158 | 6.22 | 50 | 50 | 210 | 8.1 | 79 | 17.9 |
| RP5-90-4-530 | 101.6 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 155 | 6.10 | 80 | | | 6.6 | 64 | 14.4 |
| RY3-90-5-530 | 101.6 | 530 | 6324 | 62 | 13942 | 25 | 20 | 165 | 6.50 | 60 | 70 | 231 | 12.1 | 118 | 26.6 |
| RP5-90-5-530 | 101.6 | 530 | 6324 | 62 | 13942 | 25 | 20 | 170 | 6.69 | 100 | | | 12.1 | 118 | 26.6 |
| RY3-90-1-570 | 101.6 | 570 | 423 | 4.15 | 933 | 10 | 9 | 140 | 5.51 | 25 | 30 | 164 | 2.5 | 25 | 5.6 |
| RY4-90-1-570 | 101.6 | 570 | 423 | 4.15 | 933 | 10 | 9 | 140 | 5.51 | 36 | 30 | 200 | 3.2 | 31 | 7.1 |
| RP5-90-1-570 | 101.6 | 570 | 423 | 4.15 | 933 | 10 | 9 | 140 | 5.51 | 50 | | | 2.4 | 23 | 5.3 |
| RY3-90-2-570 | 101.6 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 140 | 5.51 | 30 | 40 | 178 | 3.6 | 35 | 7.9 |
| RY4-90-2-570 | 101.6 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 140 | 5.51 | 39 | 40 | 212 | 3.6 | 36 | 8.0 |
| RP5-90-2-570 | 101.6 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 140 | 5.51 | 70 | | | 4.0 | 39 | 8.8 |
| RY3-90-3-570 | 101.6 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 147 | 5.79 | 50 | 50 | 210 | 7.4 | 73 | 16.4 |
| RY4-90-3-570 | 101.6 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 159 | 6.26 | 51 | 50 | 262 | 10.1 | 99 | 22.2 |
| RP5-90-3-570 | 101.6 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 145 | 5.71 | 80 | | | 6.2 | 60 | 13.6 |
| RY3-90-4-570 | 101.6 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 158 | 6.22 | 60 | 70 | 231 | 11.4 | 112 | 25.2 |
| RP5-90-4-570 | 101.6 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 160 | 6.30 | 100 | | | 11.1 | 109 | 24.6 |
| RY3-90-5-570 | 101.6 | 570 | 6324 | 62 | 13942 | 25 | 20 | 165 | 6.50 | 70 | 80 | 256 | 16.8 | 165 | 37.0 |
| RP5-90-5-570 | 101.6 | 570 | 6324 | 62 | 13942 | 25 | 20 | 170 | 6.69 | 100 | | | 12.1 | 118 | 26.6 |




TYPE RY3 CLAMP

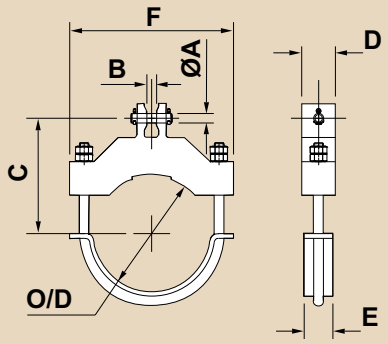



TYPE RY4 CLAMP

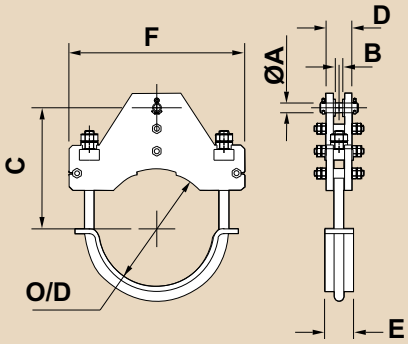



TYPE RP5 CLAMP

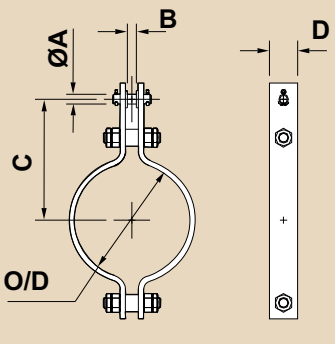
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-100-1-400 | 114.3 | 400 | 423 | 4.15 | 933 | 10 | 9 | 147 | 5.79 | 20 | 20 | 160 | 1.9 | 18 | 4.2 |
| RY4-100-1-400 | 114.3 | 400 | 423 | 4.15 | 933 | 10 | 9 | 146 | 5.75 | 36 | 20 | 206 | 2.7 | 27 | 6.0 |
| RP5-100-1-400 | 114.3 | 400 | 423 | 4.15 | 933 | 10 | 9 | 145 | 5.71 | 50 | | | 2.6 | 25 | 5.6 |
| RY3-100-2-400 | 114.3 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 147 | 5.79 | 20 | 30 | 167 | 2.2 | 22 | 4.9 |
| RY4-100-2-400 | 114.3 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 146 | 5.75 | 39 | 30 | 216 | 3.1 | 31 | 6.9 |
| RP5-100-2-400 | 114.3 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 145 | 5.71 | 50 | | | 2.6 | 25 | 5.6 |
| RY3-100-3-400 | 114.3 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 154 | 6.06 | 30 | 40 | 192 | 4.2 | 42 | 9.3 |
| RY4-100-3-400 | 114.3 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 154 | 6.06 | 47 | 40 | 264 | 5.5 | 54 | 12.1 |
| RP5-100-3-400 | 114.3 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 155 | 6.10 | 70 | | | 4.7 | 46 | 10.3 |
| RY3-100-4-400 | 114.3 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 165 | 6.50 | 40 | 50 | 206 | 6.6 | 64 | 14.4 |
| RY4-100-4-400 | 114.3 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 177 | 6.97 | 57 | 50 | 284 | 10.2 | 100 | 22.5 |
| RP5-100-4-400 | 114.3 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 170 | 6.69 | 80 | | | 7.7 | 76 | 17.0 |
| RY3-100-5-400 | 114.3 | 400 | 6324 | 62 | 13942 | 25 | 20 | 172 | 6.77 | 50 | 50 | 224 | 9.6 | 94 | 21.2 |
| RP5-100-5-400 | 114.3 | 400 | 6324 | 62 | 13942 | 25 | 20 | 190 | 7.48 | 100 | | | 13.7 | 134 | 30.2 |
| RP5-100-6-400 | 114.3 | 400 | 12754 | 125 | 28117 | 35 | 25 | 220 | 8.66 | 90 | | | 19.3 | 189 | 42.5 |
| RY3-100-1-490 | 114.3 | 490 | 423 | 4.15 | 933 | 10 | 9 | 147 | 5.79 | 20 | 20 | 160 | 1.9 | 18 | 4.2 |
| RY4-100-1-490 | 114.3 | 490 | 423 | 4.15 | 933 | 10 | 9 | 146 | 5.75 | 36 | 20 | 206 | 2.7 | 27 | 6.0 |
| RP5-100-1-490 | 114.3 | 490 | 423 | 4.15 | 933 | 10 | 9 | 145 | 5.71 | 50 | | | 2.6 | 25 | 5.6 |
| RY3-100-2-490 | 114.3 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 147 | 5.79 | 20 | 30 | 167 | 2.2 | 22 | 4.9 |
| RY4-100-2-490 | 114.3 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 146 | 5.75 | 39 | 30 | 216 | 3.2 | 31 | 6.9 |
| RP5-100-2-490 | 114.3 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 145 | 5.71 | 50 | | | 2.6 | 25 | 5.6 |
| RY3-100-3-490 | 114.3 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 154 | 6.06 | 30 | 40 | 192 | 4.2 | 42 | 9.3 |
| RY4-100-3-490 | 114.3 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 154 | 6.06 | 47 | 40 | 264 | 5.5 | 54 | 12.1 |
| RP5-100-3-490 | 114.3 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 155 | 6.10 | 70 | | | 4.7 | 46 | 10.3 |
| RY3-100-4-490 | 114.3 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 165 | 6.50 | 40 | 50 | 206 | 6.6 | 64 | 14.4 |
| RY4-100-4-490 | 114.3 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 175 | 6.89 | 57 | 50 | 284 | 10.2 | 100 | 22.5 |
| RP5-100-4-490 | 114.3 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 165 | 6.50 | 80 | | | 7.4 | 72 | 16.2 |
| RY3-100-5-490 | 114.3 | 490 | 6324 | 62 | 13942 | 25 | 20 | 172 | 6.77 | 50 | 50 | 224 | 9.5 | 93 | 21.0 |
| RP5-100-5-490 | 114.3 | 490 | 6324 | 62 | 13942 | 25 | 20 | 170 | 6.69 | 100 | | | 9.4 | 92 | 20.6 |
| RP5-100-6-490 | 114.3 | 490 | 12754 | 125 | 28117 | 35 | 25 | 215 | 8.46 | 90 | | | 18.1 | 177 | 39.8 |




TYPE RY3 CLAMP

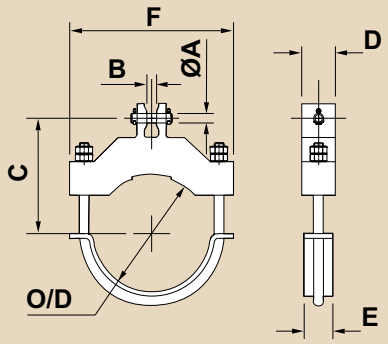



TYPE RY4 CLAMP

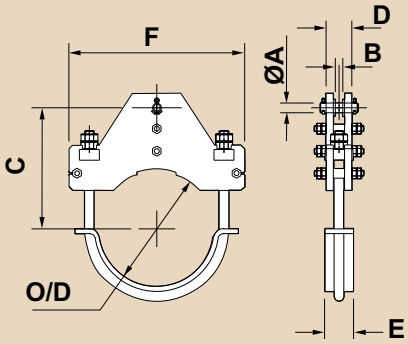



TYPE RP5 CLAMP

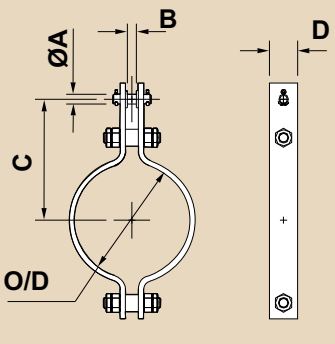
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-100-1-530 | 114.3 | 530 | 423 | 4.15 | 933 | 10 | 9 | 147 | 5.79 | 20 | 30 | 167 | 2.1 | 21 | 4.7 |
| RY4-100-1-530 | 114.3 | 530 | 423 | 4.15 | 933 | 10 | 9 | 146 | 5.75 | 36 | 30 | 208 | 2.8 | 28 | 6.2 |
| RP5-100-1-530 | 114.3 | 530 | 423 | 4.15 | 933 | 10 | 9 | 145 | 5.71 | 50 | | | 2.6 | 25 | 5.6 |
| RY3-100-2-530 | 114.3 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 147 | 5.79 | 25 | 30 | 178 | 3.0 | 29 | 6.5 |
| RY4-100-2-530 | 114.3 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 146 | 5.75 | 39 | 30 | 222 | 3.0 | 29 | 6.5 |
| RP5-100-2-530 | 114.3 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 145 | 5.71 | 50 | | | 2.6 | 25 | 5.6 |
| RY3-100-3-530 | 114.3 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 154 | 6.06 | 40 | 50 | 206 | 5.9 | 58 | 13.0 |
| RY4-100-3-530 | 114.3 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 154 | 6.06 | 47 | 50 | 268 | 7.5 | 74 | 16.6 |
| RP5-100-3-530 | 114.3 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 155 | 6.10 | 80 | | | 5.3 | 52 | 11.8 |
| RY3-100-4-530 | 114.3 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 165 | 6.50 | 50 | 50 | 224 | 8.9 | 87 | 19.6 |
| RY4-100-4-530 | 114.3 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 169 | 6.65 | 63 | 50 | 292 | 13.3 | 130 | 29.3 |
| RP5-100-4-530 | 114.3 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 165 | 6.50 | 100 | | | 9.1 | 89 | 20.1 |
| RY3-100-5-530 | 114.3 | 530 | 6324 | 62 | 13942 | 25 | 20 | 172 | 6.77 | 60 | 70 | 245 | 13.0 | 128 | 28.7 |
| RP5-100-5-530 | 114.3 | 530 | 6324 | 62 | 13942 | 25 | 20 | 180 | 7.09 | 100 | | | 12.9 | 126 | 28.4 |
| RP5-100-6-530 | 114.3 | 530 | 12754 | 125 | 28117 | 35 | 25 | 205 | 8.07 | 90 | | | 16.7 | 163 | 36.7 |
| RY3-100-1-570 | 114.3 | 570 | 423 | 4.15 | 933 | 10 | 9 | 147 | 5.79 | 25 | 30 | 178 | 2.9 | 28 | 6.3 |
| RY4-100-1-570 | 114.3 | 570 | 423 | 4.15 | 933 | 10 | 9 | 146 | 5.75 | 36 | 30 | 214 | 2.8 | 27 | 6.1 |
| RP5-100-1-570 | 114.3 | 570 | 423 | 4.15 | 933 | 10 | 9 | 145 | 5.71 | 50 | | | 2.6 | 25 | 5.6 |
| RY3-100-2-570 | 114.3 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 147 | 5.79 | 30 | 40 | 192 | 4.0 | 39 | 8.9 |
| RY4-100-2-570 | 114.3 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 146 | 5.75 | 39 | 40 | 226 | 4.2 | 41 | 9.3 |
| RP5-100-2-570 | 114.3 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 145 | 5.71 | 70 | | | 4.2 | 41 | 9.3 |
| RY3-100-3-570 | 114.3 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 154 | 6.06 | 50 | 50 | 224 | 8.2 | 80 | 18.1 |
| RY4-100-3-570 | 114.3 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 167 | 6.57 | 51 | 50 | 276 | 10.8 | 106 | 23.7 |
| RP5-100-3-570 | 114.3 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 155 | 6.10 | 80 | | | 6.7 | 65 | 14.7 |
| RY3-100-4-570 | 114.3 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 165 | 6.50 | 60 | 70 | 245 | 12.4 | 122 | 27.3 |
| RY4-100-4-570 | 114.3 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 193 | 7.60 | 63 | 70 | 298 | 18.0 | 177 | 39.8 |
| RP5-100-4-570 | 114.3 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 170 | 6.69 | 100 | | | 12.3 | 120 | 27.0 |
| RY3-100-5-570 | 114.3 | 570 | 6324 | 62 | 13942 | 25 | 20 | 172 | 6.77 | 70 | 80 | 270 | 18.1 | 178 | 39.9 |
| RP5-100-5-570 | 114.3 | 570 | 6324 | 62 | 13942 | 25 | 20 | 180 | 7.09 | 110 | | | 14.1 | 138 | 31.1 |
| RP5-100-6-570 | 114.3 | 570 | 12754 | 125 | 28117 | 35 | 25 | 215 | 8.46 | 100 | | | 22.7 | 223 | 50.1 |




TYPE RY3 CLAMP

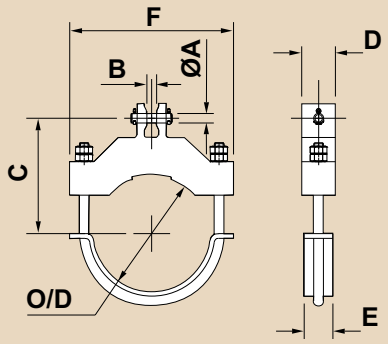



TYPE RY4 CLAMP

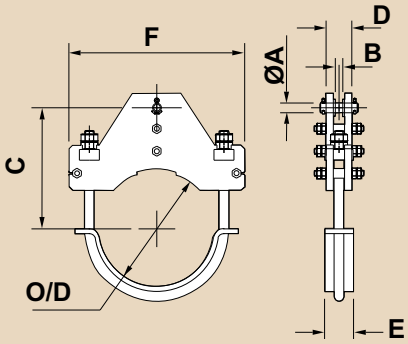



TYPE RP5 CLAMP

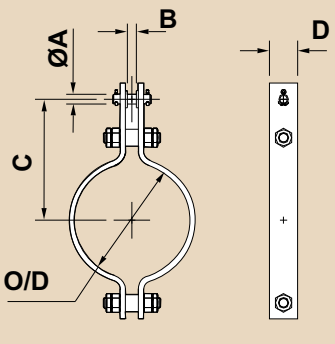
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-125-1-400 | 141.3 | 400 | 423 | 4.15 | 933 | 10 | 9 | 160 | 6.30 | 20 | 20 | 186 | 2.3 | 23 | 5.1 |
| RY4-125-1-400 | 141.3 | 400 | 423 | 4.15 | 933 | 10 | 9 | 159 | 6.26 | 36 | 20 | 232 | 2.7 | 27 | 6.0 |
| RP5-125-1-400 | 141.3 | 400 | 423 | 4.15 | 933 | 10 | 9 | 160 | 6.30 | 50 | | | 2.9 | 28 | 6.3 |
| RY3-125-2-400 | 141.3 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 160 | 6.30 | 20 | 30 | 193 | 2.7 | 27 | 6.0 |
| RY4-125-2-400 | 141.3 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 159 | 6.26 | 39 | 30 | 242 | 3.1 | 30 | 6.8 |
| RP5-125-2-400 | 141.3 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 160 | 6.30 | 50 | | | 3.0 | 30 | 6.6 |
| RY3-125-3-400 | 141.3 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 167 | 6.57 | 30 | 40 | 218 | 5.1 | 50 | 11.2 |
| RY4-125-3-400 | 141.3 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 167 | 6.57 | 47 | 40 | 290 | 6.5 | 64 | 14.4 |
| RP5-125-3-400 | 141.3 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 165 | 6.50 | 70 | | | 5.4 | 53 | 12.0 |
| RY3-125-4-400 | 141.3 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 178 | 7.01 | 40 | 50 | 232 | 7.7 | 76 | 17.1 |
| RY4-125-4-400 | 141.3 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 185 | 7.28 | 57 | 50 | 310 | 11.0 | 108 | 24.2 |
| RP5-125-4-400 | 141.3 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 185 | 7.28 | 100 | | | 10.5 | 103 | 23.2 |
| RY3-125-5-400 | 141.3 | 400 | 6324 | 62 | 13942 | 25 | 20 | 185 | 7.28 | 50 | 50 | 250 | 11.2 | 109 | 24.6 |
| RY4-125-5-400 | 141.3 | 400 | 6324 | 62 | 13942 | 25 | 20 | 210 | 8.27 | 69 | 50 | 344 | 18.2 | 179 | 40.2 |
| RP5-125-5-400 | 141.3 | 400 | 6324 | 62 | 13942 | 25 | 20 | 210 | 8.27 | 100 | | | 16.0 | 157 | 35.2 |
| RP5-125-6-400 | 141.3 | 400 | 12754 | 125 | 28117 | 35 | 25 | 235 | 9.25 | 100 | | | 22.8 | 224 | 50.3 |
| RY3-125-1-490 | 141.3 | 490 | 423 | 4.15 | 933 | 10 | 9 | 160 | 6.30 | 20 | 20 | 186 | 2.3 | 23 | 5.1 |
| RY4-125-1-490 | 141.3 | 490 | 423 | 4.15 | 933 | 10 | 9 | 159 | 6.26 | 36 | 20 | 232 | 2.8 | 27 | 6.1 |
| RP5-125-1-490 | 141.3 | 490 | 423 | 4.15 | 933 | 10 | 9 | 160 | 6.30 | 50 | | | 2.9 | 28 | 6.3 |
| RY3-125-2-490 | 141.3 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 160 | 6.30 | 20 | 30 | 193 | 2.7 | 27 | 6.0 |
| RY4-125-2-490 | 141.3 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 159 | 6.26 | 39 | 30 | 242 | 3.1 | 31 | 6.9 |
| RP5-125-2-490 | 141.3 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 160 | 6.30 | 50 | | | 2.9 | 28 | 6.3 |
| RY3-125-3-490 | 141.3 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 167 | 6.57 | 30 | 40 | 218 | 5.1 | 50 | 11.2 |
| RY4-125-3-490 | 141.3 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 167 | 6.57 | 47 | 40 | 290 | 6.6 | 65 | 14.6 |
| RP5-125-3-490 | 141.3 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 165 | 6.50 | 70 | | | 5.2 | 51 | 11.4 |
| RY3-125-4-490 | 141.3 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 178 | 7.01 | 40 | 50 | 232 | 7.7 | 76 | 17.1 |
| RY4-125-4-490 | 141.3 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 184 | 7.24 | 57 | 50 | 310 | 10.9 | 107 | 24.1 |
| RP5-125-4-490 | 141.3 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 180 | 7.09 | 100 | | | 10.1 | 99 | 22.3 |
| RY3-125-5-490 | 141.3 | 490 | 6324 | 62 | 13942 | 25 | 20 | 185 | 7.28 | 50 | 50 | 250 | 11.2 | 109 | 24.6 |
| RY4-125-5-490 | 141.3 | 490 | 6324 | 62 | 13942 | 25 | 20 | 208 | 8.19 | 69 | 50 | 344 | 18.2 | 178 | 40.0 |
| RP5-125-5-490 | 141.3 | 490 | 6324 | 62 | 13942 | 25 | 20 | 195 | 7.68 | 100 | | | 14.2 | 139 | 31.3 |
| RP5-125-6-490 | 141.3 | 490 | 12754 | 125 | 28117 | 35 | 25 | 230 | 9.06 | 100 | | | 21.5 | 211 | 47.4 |




TYPE RY3 CLAMP

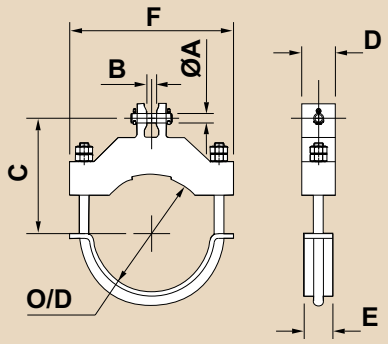



TYPE RY4 CLAMP

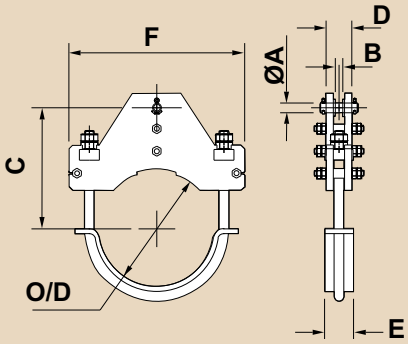



TYPE RP5 CLAMP

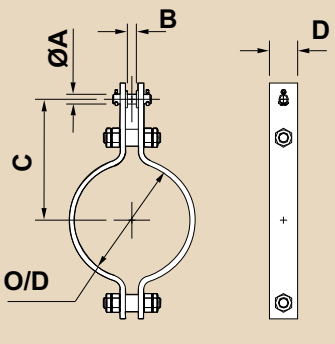
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-125-1-530 | 141.3 | 530 | 423 | 4.15 | 933 | 10 | 9 | 160 | 6.30 | 20 | 30 | 193 | 2.6 | 26 | 5.8 |
| RY4-125-1-530 | 141.3 | 530 | 423 | 4.15 | 933 | 10 | 9 | 159 | 6.26 | 36 | 30 | 234 | 3.3 | 32 | 7.2 |
| RP5-125-1-530 | 141.3 | 530 | 423 | 4.15 | 933 | 10 | 9 | 160 | 6.30 | 50 | | | 2.9 | 28 | 6.3 |
| RY3-125-2-530 | 141.3 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 160 | 6.30 | 25 | 30 | 204 | 3.6 | 36 | 8.0 |
| RY4-125-2-530 | 141.3 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 159 | 6.26 | 39 | 30 | 248 | 4.1 | 40 | 9.1 |
| RP5-125-2-530 | 141.3 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 160 | 6.30 | 60 | | | 3.4 | 33 | 7.5 |
| RY3-125-3-530 | 141.3 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 167 | 6.57 | 40 | 50 | 232 | 7.0 | 69 | 15.5 |
| RY4-125-3-530 | 141.3 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 167 | 6.57 | 47 | 50 | 294 | 7.2 | 71 | 15.9 |
| RP5-125-3-530 | 141.3 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 165 | 6.50 | 80 | | | 7.4 | 72 | 16.3 |
| RY3-125-4-530 | 141.3 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 178 | 7.01 | 50 | 50 | 250 | 10.4 | 102 | 23.0 |
| RY4-125-4-530 | 141.3 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 194 | 7.64 | 57 | 50 | 318 | 14.1 | 138 | 31.1 |
| RP5-125-4-530 | 141.3 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 185 | 7.28 | 100 | | | 13.6 | 133 | 30.0 |
| RY3-125-5-530 | 141.3 | 530 | 6324 | 62 | 13942 | 25 | 20 | 185 | 7.28 | 60 | 70 | 271 | 15.1 | 148 | 33.4 |
| RY4-125-5-530 | 141.3 | 530 | 6324 | 62 | 13942 | 25 | 20 | 218 | 8.58 | 69 | 70 | 350 | 24.0 | 236 | 53.0 |
| RP5-125-5-530 | 141.3 | 530 | 6324 | 62 | 13942 | 25 | 20 | 195 | 7.68 | 100 | | | 14.2 | 139 | 31.3 |
| RP5-125-6-530 | 141.3 | 530 | 12754 | 125 | 28117 | 35 | 25 | 230 | 9.06 | 120 | | | 25.5 | 250 | 56.2 |
| RY3-125-1-570 | 141.3 | 570 | 423 | 4.15 | 933 | 10 | 9 | 160 | 6.30 | 25 | 30 | 204 | 3.5 | 35 | 7.8 |
| RY4-125-1-570 | 141.3 | 570 | 423 | 4.15 | 933 | 10 | 9 | 159 | 6.26 | 36 | 30 | 240 | 4.1 | 40 | 9.1 |
| RP5-125-1-570 | 141.3 | 570 | 423 | 4.15 | 933 | 10 | 9 | 160 | 6.30 | 50 | | | 2.9 | 28 | 6.3 |
| RY3-125-2-570 | 141.3 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 160 | 6.30 | 30 | 40 | 218 | 4.9 | 48 | 10.8 |
| RY4-125-2-570 | 141.3 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 159 | 6.26 | 39 | 40 | 252 | 4.6 | 45 | 10.2 |
| RP5-125-2-570 | 141.3 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 160 | 6.30 | 70 | | | 4.8 | 47 | 10.6 |
| RY3-125-3-570 | 141.3 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 167 | 6.57 | 50 | 50 | 250 | 9.7 | 95 | 21.4 |
| RY4-125-3-570 | 141.3 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 180 | 7.09 | 51 | 50 | 302 | 11.2 | 110 | 24.6 |
| RP5-125-3-570 | 141.3 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 165 | 6.50 | 80 | | | 7.4 | 72 | 16.3 |
| RY3-125-4-570 | 141.3 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 178 | 7.01 | 60 | 70 | 271 | 14.4 | 142 | 31.9 |
| RY4-125-4-570 | 141.3 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 206 | 8.11 | 63 | 70 | 324 | 20.3 | 199 | 44.6 |
| RP5-125-4-570 | 141.3 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 185 | 7.28 | 100 | | | 13.6 | 133 | 30.0 |
| RY3-125-5-570 | 141.3 | 570 | 6324 | 62 | 13942 | 25 | 20 | 185 | 7.28 | 70 | 80 | 296 | 20.6 | 202 | 45.4 |
| RY4-125-5-570 | 141.3 | 570 | 6324 | 62 | 13942 | 25 | 20 | 233 | 9.17 | 79 | 80 | 360 | 34.1 | 334 | 75.2 |
| RP5-125-5-570 | 141.3 | 570 | 6324 | 62 | 13942 | 25 | 20 | 200 | 7.87 | 90 | | | 16.2 | 159 | 35.7 |
| RP5-125-6-570 | 141.3 | 570 | 12754 | 125 | 28117 | 35 | 25 | 235 | 9.25 | 110 | | | 28.3 | 278 | 62.4 |




TYPE RY3 CLAMP

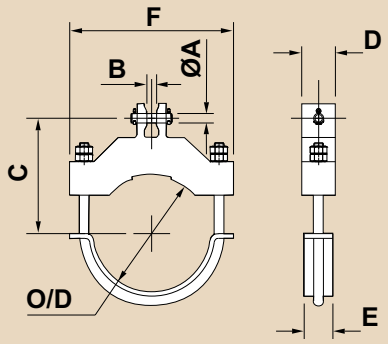



TYPE RY4 CLAMP

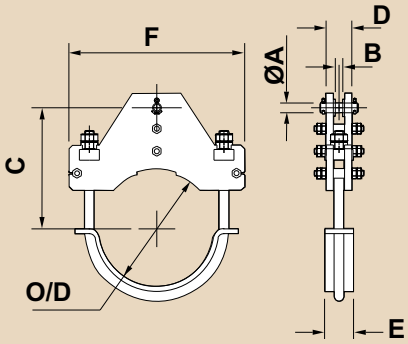



TYPE RP5 CLAMP

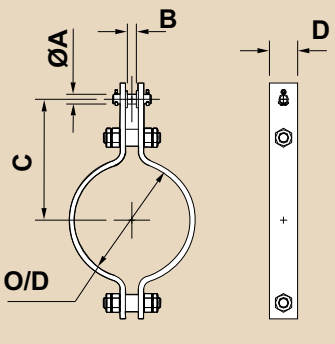
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RY3-150-1-400 | 168.3 | 400 | 423 | 4.15 | 933 | 10 | 9 | 184 | 7.24 | 20 | 20 | 214 | 3.0 | 29 | 6.6 |
| RY4-150-1-400 | 168.3 | 400 | 423 | 4.15 | 933 | 10 | 9 | 184 | 7.24 | 36 | 20 | 260 | 4.0 | 40 | 8.9 |
| RP5-150-1-400 | 168.3 | 400 | 423 | 4.15 | 933 | 10 | 9 | 185 | 7.28 | 50 | | | 3.3 | 32 | 7.3 |
| RY3-150-2-400 | 168.3 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 184 | 7.24 | 20 | 30 | 221 | 3.5 | 35 | 7.8 |
| RY4-150-2-400 | 168.3 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 184 | 7.24 | 39 | 30 | 270 | 4.5 | 44 | 9.8 |
| RP5-150-2-400 | 168.3 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 185 | 7.28 | 50 | | | 3.4 | 34 | 7.6 |
| RY3-150-3-400 | 168.3 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 191 | 7.52 | 30 | 40 | 246 | 6.4 | 62 | 14.0 |
| RY4-150-3-400 | 168.3 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 190 | 7.48 | 47 | 40 | 318 | 6.2 | 61 | 13.6 |
| RP5-150-3-400 | 168.3 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 190 | 7.48 | 80 | | | 7.0 | 69 | 15.4 |
| RY3-150-4-400 | 168.3 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 202 | 7.95 | 40 | 50 | 260 | 9.5 | 94 | 21.0 |
| RY4-150-4-400 | 168.3 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 200 | 7.87 | 57 | 50 | 338 | 10.7 | 105 | 23.5 |
| RP5-150-4-400 | 168.3 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 210 | 8.27 | 100 | | | 15.8 | 154 | 34.7 |
| RY3-150-5-400 | 168.3 | 400 | 6324 | 62 | 13942 | 25 | 20 | 209 | 8.23 | 50 | 50 | 278 | 13.5 | 133 | 29.8 |
| RY4-150-5-400 | 168.3 | 400 | 6324 | 62 | 13942 | 25 | 20 | 218 | 8.58 | 69 | 50 | 372 | 18.6 | 183 | 41.0 |
| RP5-150-5-400 | 168.3 | 400 | 6324 | 62 | 13942 | 25 | 20 | 225 | 8.86 | 100 | | | 17.3 | 170 | 38.2 |
| RY4-150-6-400 | 168.3 | 400 | 12754 | 125 | 28117 | 35 | 25 | 279 | 10.98 | 86 | 80 | 414 | 43.6 | 428 | 96.2 |
| RP5-150-6-400 | 168.3 | 400 | 12754 | 125 | 28117 | 35 | 25 | 250 | 9.84 | 120 | | | 28.9 | 284 | 63.8 |
| RP5-150-7-400 | 168.3 | 400 | 18132 | 178 | 39974 | 40 | 28 | 280 | 11.02 | 120 | | | 38.7 | 379 | 85.3 |
| RY3-150-1-490 | 168.3 | 490 | 423 | 4.15 | 933 | 10 | 9 | 184 | 7.24 | 20 | 20 | 214 | 3.0 | 29 | 6.6 |
| RY4-150-1-490 | 168.3 | 490 | 423 | 4.15 | 933 | 10 | 9 | 184 | 7.24 | 36 | 20 | 260 | 4.1 | 40 | 9.0 |
| RP5-150-1-490 | 168.3 | 490 | 423 | 4.15 | 933 | 10 | 9 | 185 | 7.28 | 50 | | | 3.3 | 32 | 7.3 |
| RY3-150-2-490 | 168.3 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 184 | 7.24 | 20 | 30 | 221 | 3.5 | 35 | 7.8 |
| RY4-150-2-490 | 168.3 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 184 | 7.24 | 39 | 30 | 270 | 4.5 | 44 | 9.9 |
| RP5-150-2-490 | 168.3 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 185 | 7.28 | 50 | | | 3.3 | 32 | 7.3 |
| RY3-150-3-490 | 168.3 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 191 | 7.52 | 30 | 40 | 246 | 6.4 | 62 | 14.0 |
| RY4-150-3-490 | 168.3 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 190 | 7.48 | 47 | 40 | 318 | 6.2 | 61 | 13.6 |
| RP5-150-3-490 | 168.3 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 190 | 7.48 | 80 | | | 6.7 | 66 | 14.9 |
| RY3-150-4-490 | 168.3 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 202 | 7.95 | 40 | 50 | 260 | 9.5 | 93 | 20.9 |
| RY4-150-4-490 | 168.3 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 200 | 7.87 | 57 | 50 | 338 | 10.7 | 105 | 23.6 |
| RP5-150-4-490 | 168.3 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 200 | 7.87 | 100 | | | 14.9 | 146 | 32.9 |
| RY3-150-5-490 | 168.3 | 490 | 6324 | 62 | 13942 | 25 | 20 | 209 | 8.23 | 50 | 50 | 278 | 13.5 | 132 | 29.7 |
| RY4-150-5-490 | 168.3 | 490 | 6324 | 62 | 13942 | 25 | 20 | 217 | 8.54 | 69 | 50 | 372 | 18.6 | 182 | 41.0 |
| RP5-150-5-490 | 168.3 | 490 | 6324 | 62 | 13942 | 25 | 20 | 220 | 8.66 | 100 | | | 16.4 | 161 | 36.1 |
| RY4-150-6-490 | 168.3 | 490 | 12754 | 125 | 28117 | 35 | 25 | 277 | 10.91 | 86 | 70 | 404 | 39.9 | 392 | 88.0 |
| RP5-150-6-490 | 168.3 | 490 | 12754 | 125 | 28117 | 35 | 25 | 245 | 9.65 | 110 | | | 25.3 | 248 | 55.8 |
| RP5-150-7-490 | 168.3 | 490 | 18132 | 178 | 39974 | 40 | 28 | 265 | 10.43 | 110 | | | 33.2 | 326 | 73.2 |




TYPE RY3 CLAMP

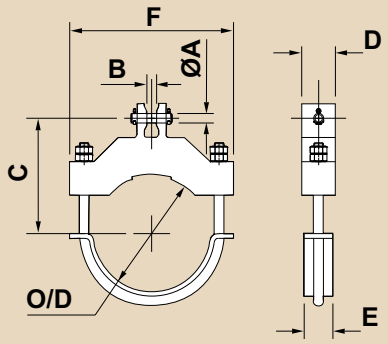



TYPE RY4 CLAMP

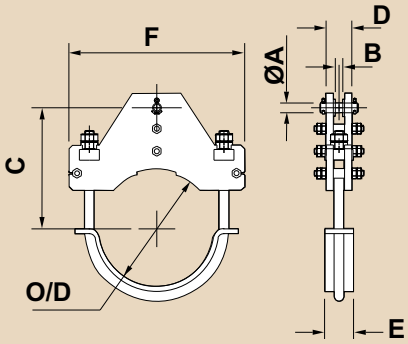



TYPE RP5 CLAMP

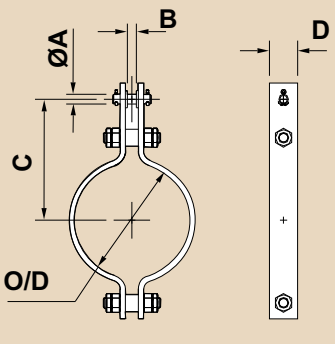
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-150-1-530 | 168.3 | 530 | 423 | 4.15 | 933 | 10 | 9 | 184 | 7.24 | 20 | 30 | 221 | 3.3 | 33 | 7.4 |
| RY4-150-1-530 | 168.3 | 530 | 423 | 4.15 | 933 | 10 | 9 | 184 | 7.24 | 36 | 30 | 262 | 4.5 | 44 | 10.0 |
| RP5-150-1-530 | 168.3 | 530 | 423 | 4.15 | 933 | 10 | 9 | 185 | 7.28 | 50 | | | 3.3 | 32 | 7.3 |
| RY3-150-2-530 | 168.3 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 184 | 7.24 | 25 | 30 | 232 | 4.7 | 46 | 10.3 |
| RY4-150-2-530 | 168.3 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 184 | 7.24 | 39 | 30 | 276 | 5.1 | 50 | 11.3 |
| RP5-150-2-530 | 168.3 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 185 | 7.28 | 60 | | | 3.9 | 39 | 8.7 |
| RY3-150-3-530 | 168.3 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 191 | 7.52 | 40 | 50 | 260 | 8.7 | 86 | 19.3 |
| RY4-150-3-530 | 168.3 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 191 | 7.52 | 51 | 50 | 322 | 8.1 | 79 | 17.9 |
| RP5-150-3-530 | 168.3 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 190 | 7.48 | 80 | | | 8.4 | 82 | 18.5 |
| RY3-150-4-530 | 168.3 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 202 | 7.95 | 50 | 50 | 278 | 12.7 | 124 | 27.9 |
| RY4-150-4-530 | 168.3 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 203 | 7.99 | 57 | 50 | 346 | 13.7 | 134 | 30.2 |
| RP5-150-4-530 | 168.3 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 200 | 7.87 | 100 | | | 14.9 | 146 | 32.9 |
| RY3-150-5-530 | 168.3 | 530 | 6324 | 62 | 13942 | 25 | 20 | 209 | 8.23 | 60 | 70 | 299 | 18.0 | 177 | 39.7 |
| RY4-150-5-530 | 168.3 | 530 | 6324 | 62 | 13942 | 25 | 20 | 227 | 8.94 | 69 | 70 | 378 | 25.4 | 249 | 55.9 |
| RP5-150-5-530 | 168.3 | 530 | 6324 | 62 | 13942 | 25 | 20 | 220 | 8.66 | 110 | | | 17.9 | 176 | 39.6 |
| RY4-150-6-530 | 168.3 | 530 | 12754 | 125 | 28117 | 35 | 25 | 288 | 11.34 | 86 | 80 | 414 | 45.2 | 443 | 99.7 |
| RP5-150-6-530 | 168.3 | 530 | 12754 | 125 | 28117 | 35 | 25 | 255 | 10.04 | 100 | | | 28.3 | 278 | 62.5 |
| RP5-150-7-530 | 168.3 | 530 | 18132 | 178 | 39974 | 40 | 28 | 260 | 10.24 | 120 | | | 34.3 | 337 | 75.7 |
| RY3-150-1-570 | 168.3 | 570 | 423 | 4.15 | 933 | 10 | 9 | 184 | 7.24 | 25 | 30 | 232 | 4.4 | 43 | 9.8 |
| RY4-150-1-570 | 168.3 | 570 | 423 | 4.15 | 933 | 10 | 9 | 184 | 7.24 | 36 | 30 | 268 | 4.9 | 48 | 10.9 |
| RP5-150-1-570 | 168.3 | 570 | 423 | 4.15 | 933 | 10 | 9 | 185 | 7.28 | 50 | | | 3.3 | 32 | 7.3 |
| RY3-150-2-570 | 168.3 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 184 | 7.24 | 30 | 40 | 246 | 6.1 | 60 | 13.5 |
| RY4-150-2-570 | 168.3 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 184 | 7.24 | 39 | 40 | 280 | 5.0 | 49 | 10.9 |
| RP5-150-2-570 | 168.3 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 185 | 7.28 | 70 | | | 5.5 | 54 | 12.2 |
| RY3-150-3-570 | 168.3 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 191 | 7.52 | 50 | 50 | 278 | 11.9 | 117 | 26.2 |
| RY4-150-3-570 | 168.3 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 194 | 7.64 | 51 | 50 | 330 | 13.2 | 130 | 29.1 |
| RP5-150-3-570 | 168.3 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 190 | 7.48 | 100 | | | 10.5 | 103 | 23.1 |
| RY3-150-4-570 | 168.3 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 202 | 7.95 | 60 | 70 | 299 | 17.2 | 168 | 37.8 |
| RY4-150-4-570 | 168.3 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 220 | 8.66 | 63 | 70 | 352 | 21.3 | 209 | 47.0 |
| RP5-150-4-570 | 168.3 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 200 | 7.87 | 100 | | | 14.9 | 146 | 32.9 |
| RY3-150-5-570 | 168.3 | 570 | 6324 | 62 | 13942 | 25 | 20 | 209 | 8.23 | 70 | 80 | 324 | 24.1 | 237 | 53.2 |
| RY4-150-5-570 | 168.3 | 570 | 6324 | 62 | 13942 | 25 | 20 | 247 | 9.72 | 79 | 80 | 388 | 34.8 | 341 | 76.7 |
| RP5-150-5-570 | 168.3 | 570 | 6324 | 62 | 13942 | 25 | 20 | 220 | 8.66 | 90 | | | 18.0 | 177 | 39.7 |
| RY4-150-6-570 | 168.3 | 570 | 12754 | 125 | 28117 | 35 | 25 | 288 | 11.34 | 96 | 90 | 420 | 59.4 | 582 | 130.8 |
| RP5-150-6-570 | 168.3 | 570 | 12754 | 125 | 28117 | 35 | 25 | 255 | 10.04 | 130 | | | 36.4 | 357 | 80.2 |
| RP5-150-7-570 | 168.3 | 570 | 18132 | 178 | 39974 | 40 | 28 | 275 | 10.83 | 120 | | | 47.2 | 463 | 104.0 |




TYPE RY3 CLAMP

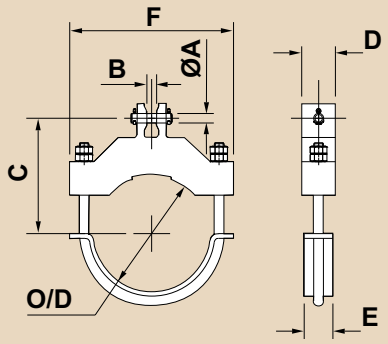



TYPE RY4 CLAMP

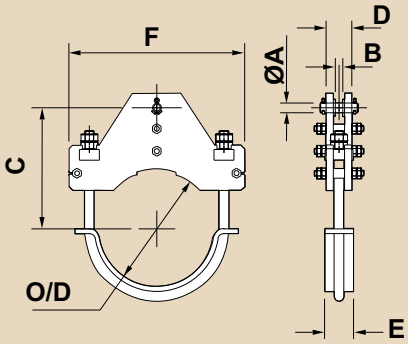



TYPE RP5 CLAMP

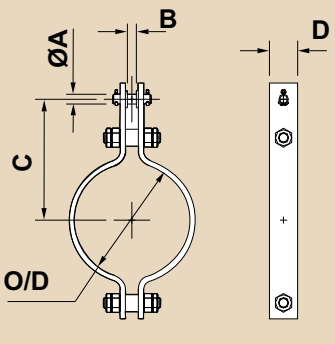
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-175-1-400 | 193.7 | 400 | 423 | 4.15 | 933 | 10 | 9 | 197 | 7.76 | 20 | 20 | 240 | 3.5 | 35 | 7.8 |
| RY4-175-1-400 | 193.7 | 400 | 423 | 4.15 | 933 | 10 | 9 | 197 | 7.76 | 36 | 20 | 286 | 4.1 | 40 | 9.0 |
| RP5-175-1-400 | 193.7 | 400 | 423 | 4.15 | 933 | 10 | 9 | 195 | 7.68 | 50 | | | 3.6 | 35 | 7.9 |
| RY3-175-2-400 | 193.7 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 197 | 7.76 | 20 | 30 | 247 | 4.3 | 42 | 9.4 |
| RY4-175-2-400 | 193.7 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 197 | 7.76 | 39 | 30 | 296 | 4.6 | 45 | 10.0 |
| RP5-175-2-400 | 193.7 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 195 | 7.68 | 60 | | | 4.5 | 44 | 9.9 |
| RY3-175-3-400 | 193.7 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 204 | 8.03 | 30 | 40 | 272 | 7.6 | 75 | 16.8 |
| RY4-175-3-400 | 193.7 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 203 | 7.99 | 47 | 40 | 344 | 8.2 | 81 | 18.2 |
| RP5-175-3-400 | 193.7 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 200 | 7.87 | 80 | | | 9.4 | 93 | 20.8 |
| RY3-175-4-400 | 193.7 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 215 | 8.46 | 40 | 50 | 286 | 11.2 | 110 | 24.6 |
| RY4-175-4-400 | 193.7 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 213 | 8.39 | 57 | 50 | 364 | 12.1 | 119 | 26.7 |
| RP5-175-4-400 | 193.7 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 230 | 9.06 | 100 | | | 18.0 | 177 | 39.8 |
| RY3-175-5-400 | 193.7 | 400 | 6324 | 62 | 13942 | 25 | 20 | 222 | 8.74 | 50 | 50 | 304 | 15.5 | 152 | 34.3 |
| RY4-175-5-400 | 193.7 | 400 | 6324 | 62 | 13942 | 25 | 20 | 226 | 8.90 | 69 | 50 | 398 | 19.9 | 195 | 43.8 |
| RP5-175-5-400 | 193.7 | 400 | 6324 | 62 | 13942 | 25 | 20 | 240 | 9.45 | 100 | | | 18.7 | 183 | 41.2 |
| RY4-175-6-400 | 193.7 | 400 | 12754 | 125 | 28117 | 35 | 25 | 287 | 11.30 | 86 | 80 | 440 | 49.1 | 482 | 108.3 |
| RP5-175-6-400 | 193.7 | 400 | 12754 | 125 | 28117 | 35 | 25 | 275 | 10.83 | 100 | | | 31.7 | 311 | 70.0 |
| RY4-175-7-400 | 193.7 | 400 | 18132 | 178 | 39974 | 40 | 28 | 316 | 12.44 | 102 | 90 | 462 | 68.7 | 674 | 151.5 |
| RP5-175-7-400 | 193.7 | 400 | 18132 | 178 | 39974 | 40 | 28 | 295 | 11.61 | 130 | | | 44.2 | 433 | 97.4 |
| RP5-175-8-400 | 193.7 | 400 | 25524 | 250 | 56269 | 50 | 35 | 325 | 12.80 | 130 | | | 64.9 | 637 | 143.1 |
| RY3-175-1-490 | 193.7 | 490 | 423 | 4.15 | 933 | 10 | 9 | 197 | 7.76 | 20 | 20 | 240 | 3.5 | 35 | 7.8 |
| RY4-175-1-490 | 193.7 | 490 | 423 | 4.15 | 933 | 10 | 9 | 197 | 7.76 | 36 | 20 | 286 | 4.1 | 40 | 9.0 |
| RP5-175-1-490 | 193.7 | 490 | 423 | 4.15 | 933 | 10 | 9 | 195 | 7.68 | 50 | | | 3.6 | 35 | 7.9 |
| RY3-175-2-490 | 193.7 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 197 | 7.76 | 20 | 30 | 247 | 4.3 | 42 | 9.4 |
| RY4-175-2-490 | 193.7 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 197 | 7.76 | 39 | 30 | 296 | 4.6 | 45 | 10.1 |
| RP5-175-2-490 | 193.7 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 195 | 7.68 | 60 | | | 4.3 | 42 | 9.5 |
| RY3-175-3-490 | 193.7 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 204 | 8.03 | 30 | 40 | 272 | 7.6 | 74 | 16.7 |
| RY4-175-3-490 | 193.7 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 203 | 7.99 | 47 | 40 | 344 | 8.1 | 79 | 17.8 |
| RP5-175-3-490 | 193.7 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 200 | 7.87 | 80 | | | 9.1 | 90 | 20.1 |
| RY3-175-4-490 | 193.7 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 215 | 8.46 | 40 | 50 | 286 | 11.2 | 110 | 24.6 |
| RY4-175-4-490 | 193.7 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 213 | 8.39 | 57 | 50 | 364 | 12.5 | 123 | 27.6 |
| RP5-175-4-490 | 193.7 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 215 | 8.46 | 100 | | | 16.3 | 160 | 35.9 |
| RY3-175-5-490 | 193.7 | 490 | 6324 | 62 | 13942 | 25 | 20 | 222 | 8.74 | 50 | 50 | 304 | 15.5 | 152 | 34.3 |
| RY4-175-5-490 | 193.7 | 490 | 6324 | 62 | 13942 | 25 | 20 | 226 | 8.90 | 69 | 50 | 398 | 20.1 | 197 | 44.3 |
| RP5-175-5-490 | 193.7 | 490 | 6324 | 62 | 13942 | 25 | 20 | 235 | 9.25 | 100 | | | 17.7 | 174 | 39.1 |
| RY4-175-6-490 | 193.7 | 490 | 12754 | 125 | 28117 | 35 | 25 | 287 | 11.30 | 86 | 70 | 430 | 40.0 | 392 | 88.1 |
| RP5-175-6-490 | 193.7 | 490 | 12754 | 125 | 28117 | 35 | 25 | 260 | 10.24 | 120 | | | 29.5 | 289 | 65.0 |
| RY4-175-7-490 | 193.7 | 490 | 18132 | 178 | 39974 | 40 | 28 | 313 | 12.32 | 102 | 80 | 456 | 56.8 | 557 | 125.1 |
| RP5-175-7-490 | 193.7 | 490 | 18132 | 178 | 39974 | 40 | 28 | 285 | 11.22 | 130 | | | 42.0 | 412 | 92.5 |
| RP5-175-8-490 | 193.7 | 490 | 25524 | 250 | 56269 | 50 | 35 | 305 | 12.01 | 130 | | | 59.2 | 580 | 130.5 |




TYPE RY3 CLAMP

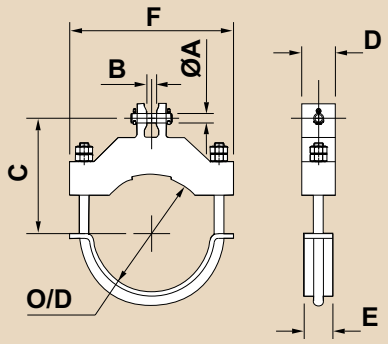



TYPE RY4 CLAMP

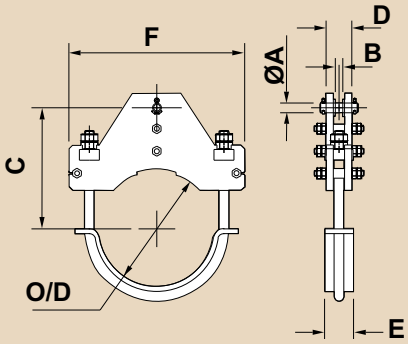



TYPE RP5 CLAMP

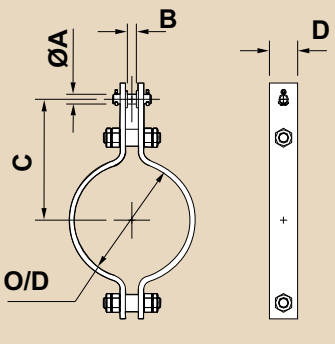
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-175-1-530 | 193.7 | 530 | 423 | 4.15 | 933 | 10 | 9 | 197 | 7.76 | 20 | 30 | 247 | 3.9 | 38 | 8.6 |
| RY4-175-1-530 | 193.7 | 530 | 423 | 4.15 | 933 | 10 | 9 | 197 | 7.76 | 36 | 30 | 288 | 4.1 | 41 | 9.1 |
| RP5-175-1-530 | 193.7 | 530 | 423 | 4.15 | 933 | 10 | 9 | 195 | 7.68 | 50 | | | 3.6 | 35 | 7.9 |
| RY3-175-2-530 | 193.7 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 197 | 7.76 | 25 | 30 | 258 | 5.6 | 55 | 12.4 |
| RY4-175-2-530 | 193.7 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 197 | 7.76 | 39 | 30 | 302 | 4.1 | 40 | 9.0 |
| RP5-175-2-530 | 193.7 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 195 | 7.68 | 70 | | | 6.0 | 59 | 13.3 |
| RY3-175-3-530 | 193.7 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 204 | 8.03 | 40 | 50 | 286 | 10.3 | 101 | 22.7 |
| RY4-175-3-530 | 193.7 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 204 | 8.03 | 51 | 50 | 348 | 10.7 | 105 | 23.5 |
| RP5-175-3-530 | 193.7 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 200 | 7.87 | 80 | | | 9.1 | 90 | 20.1 |
| RY3-175-4-530 | 193.7 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 215 | 8.46 | 50 | 50 | 304 | 14.7 | 144 | 32.5 |
| RY4-175-4-530 | 193.7 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 213 | 8.39 | 57 | 50 | 372 | 14.3 | 140 | 31.4 |
| RP5-175-4-530 | 193.7 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 215 | 8.46 | 100 | | | 16.3 | 160 | 35.9 |
| RY3-175-5-530 | 193.7 | 530 | 6324 | 62 | 13942 | 25 | 20 | 222 | 8.74 | 60 | 70 | 325 | 20.5 | 201 | 45.1 |
| RY4-175-5-530 | 193.7 | 530 | 6324 | 62 | 13942 | 25 | 20 | 236 | 9.29 | 69 | 70 | 404 | 24.1 | 236 | 53.1 |
| RP5-175-5-530 | 193.7 | 530 | 6324 | 62 | 13942 | 25 | 20 | 245 | 9.65 | 90 | | | 20.5 | 201 | 45.1 |
| RY4-175-6-530 | 193.7 | 530 | 12754 | 125 | 28117 | 35 | 25 | 297 | 11.69 | 86 | 80 | 440 | 50.9 | 499 | 112.1 |
| RP5-175-6-530 | 193.7 | 530 | 12754 | 125 | 28117 | 35 | 25 | 270 | 10.63 | 100 | | | 30.3 | 297 | 66.8 |
| RY4-175-7-530 | 193.7 | 530 | 18132 | 178 | 39974 | 40 | 28 | 324 | 12.76 | 102 | 90 | 462 | 70.7 | 694 | 155.9 |
| RP5-175-7-530 | 193.7 | 530 | 18132 | 178 | 39974 | 40 | 28 | 285 | 11.22 | 150 | | | 48.0 | 471 | 105.9 |
| RP5-175-8-530 | 193.7 | 530 | 25524 | 250 | 56269 | 50 | 35 | 305 | 12.01 | 130 | | | 59.2 | 580 | 130.5 |
| RY3-175-1-570 | 193.7 | 570 | 423 | 4.15 | 933 | 10 | 9 | 197 | 7.76 | 25 | 30 | 258 | 5.2 | 51 | 11.5 |
| RY4-175-1-570 | 193.7 | 570 | 423 | 4.15 | 933 | 10 | 9 | 197 | 7.76 | 36 | 30 | 294 | 3.7 | 37 | 8.2 |
| RP5-175-1-570 | 193.7 | 570 | 423 | 4.15 | 933 | 10 | 9 | 195 | 7.68 | 50 | | | 3.6 | 35 | 7.9 |
| RY3-175-2-570 | 193.7 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 197 | 7.76 | 30 | 40 | 272 | 7.3 | 72 | 16.2 |
| RY4-175-2-570 | 193.7 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 197 | 7.76 | 39 | 40 | 306 | 5.6 | 55 | 12.3 |
| RP5-175-2-570 | 193.7 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 195 | 7.68 | 80 | | | 6.9 | 67 | 15.2 |
| RY3-175-3-570 | 193.7 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 204 | 8.03 | 50 | 50 | 304 | 13.9 | 136 | 30.6 |
| RY4-175-3-570 | 193.7 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 207 | 8.15 | 51 | 50 | 356 | 14.4 | 141 | 31.7 |
| RP5-175-3-570 | 193.7 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 205 | 8.07 | 100 | | | 15.4 | 151 | 34.0 |
| RY3-175-4-570 | 193.7 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 215 | 8.46 | 60 | 70 | 325 | 19.8 | 194 | 43.6 |
| RY4-175-4-570 | 193.7 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 233 | 9.17 | 63 | 70 | 378 | 23.9 | 234 | 52.7 |
| RP5-175-4-570 | 193.7 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 215 | 8.46 | 110 | | | 17.9 | 175 | 39.4 |
| RY3-175-5-570 | 193.7 | 570 | 6324 | 62 | 13942 | 25 | 20 | 222 | 8.74 | 70 | 80 | 350 | 27.3 | 268 | 60.2 |
| RY4-175-5-570 | 193.7 | 570 | 6324 | 62 | 13942 | 25 | 20 | 260 | 10.24 | 79 | 80 | 414 | 38.3 | 375 | 84.4 |
| RP5-175-5-570 | 193.7 | 570 | 6324 | 62 | 13942 | 25 | 20 | 245 | 9.65 | 110 | | | 24.8 | 244 | 54.8 |
| RY4-175-6-570 | 193.7 | 570 | 12754 | 125 | 28117 | 35 | 25 | 301 | 11.85 | 96 | 90 | 446 | 66.7 | 654 | 147.1 |
| RP5-175-6-570 | 193.7 | 570 | 12754 | 125 | 28117 | 35 | 25 | 270 | 10.63 | 140 | | | 41.8 | 410 | 92.2 |
| RY4-175-7-570 | 193.7 | 570 | 18132 | 178 | 39974 | 40 | 28 | 346 | 13.62 | 102 | 100 | 474 | 86.3 | 847 | 190.3 |
| RP5-175-7-570 | 193.7 | 570 | 18132 | 178 | 39974 | 40 | 28 | 295 | 11.61 | 120 | | | 52.3 | 513 | 115.2 |
| RP5-175-8-570 | 193.7 | 570 | 25524 | 250 | 56269 | 50 | 35 | 305 | 12.01 | 150 | | | 67.7 | 664 | 149.3 |




TYPE RY3 CLAMP

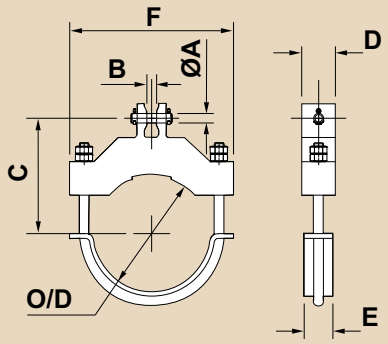



TYPE RY4 CLAMP

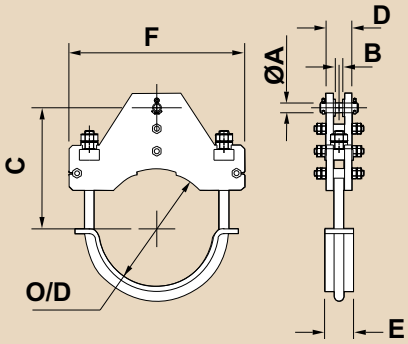



TYPE RP5 CLAMP

| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-200-1-400 | 219.1 | 400 | 423 | 4.15 | 933 | 10 | 9 | 210 | 8.27 | 20 | 20 | 266 | 4.2 | 41 | 9.2 |
| RY4-200-1-400 | 219.1 | 400 | 423 | 4.15 | 933 | 10 | 9 | 208 | 8.19 | 36 | 20 | 312 | 4.3 | 42 | 9.4 |
| RP5-200-1-400 | 219.1 | 400 | 423 | 4.15 | 933 | 10 | 9 | 210 | 8.27 | 50 | | | 3.9 | 39 | 8.7 |
| RY3-200-2-400 | 219.1 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 210 | 8.27 | 20 | 30 | 273 | 5.1 | 50 | 11.2 |
| RY4-200-2-400 | 219.1 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 208 | 8.19 | 39 | 30 | 322 | 5.0 | 49 | 11.0 |
| RP5-200-2-400 | 219.1 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 210 | 8.27 | 70 | | | 6.8 | 66 | 14.9 |
| RY3-200-3-400 | 219.1 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 217 | 8.54 | 30 | 40 | 298 | 9.0 | 88 | 19.8 |
| RY4-200-3-400 | 219.1 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 217 | 8.54 | 47 | 40 | 370 | 9.2 | 90 | 20.2 |
| RP5-200-3-400 | 219.1 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 215 | 8.46 | 80 | | | 10.2 | 100 | 22.4 |
| RY3-200-4-400 | 219.1 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 228 | 8.98 | 40 | 50 | 312 | 13.0 | 128 | 28.7 |
| RY4-200-4-400 | 219.1 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 226 | 8.90 | 57 | 50 | 390 | 12.2 | 120 | 27.0 |
| RP5-200-4-400 | 219.1 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 240 | 9.45 | 100 | | | 18.5 | 181 | 40.7 |
| RY3-200-5-400 | 219.1 | 400 | 6324 | 62 | 13942 | 25 | 20 | 235 | 9.25 | 50 | 50 | 330 | 17.9 | 175 | 39.4 |
| RY4-200-5-400 | 219.1 | 400 | 6324 | 62 | 13942 | 25 | 20 | 235 | 9.25 | 69 | 50 | 424 | 19.5 | 191 | 42.9 |
| RP5-200-5-400 | 219.1 | 400 | 6324 | 62 | 13942 | 25 | 20 | 255 | 10.04 | 110 | | | 21.9 | 215 | 48.3 |
| RY4-200-6-400 | 219.1 | 400 | 12754 | 125 | 28117 | 35 | 25 | 297 | 11.69 | 86 | 80 | 466 | 46.7 | 458 | 103.0 |
| RP5-200-6-400 | 219.1 | 400 | 12754 | 125 | 28117 | 35 | 25 | 300 | 11.81 | 110 | | | 38.9 | 381 | 85.7 |
| RY4-200-7-400 | 219.1 | 400 | 18132 | 178 | 39974 | 40 | 28 | 324 | 12.76 | 102 | 90 | 488 | 69.8 | 684 | 153.8 |
| RP5-200-7-400 | 219.1 | 400 | 18132 | 178 | 39974 | 40 | 28 | 310 | 12.20 | 150 | | | 53.4 | 524 | 117.7 |
| RP5-200-8-400 | 219.1 | 400 | 25524 | 250 | 56269 | 50 | 35 | 340 | 13.39 | 130 | | | 68.3 | 670 | 150.5 |
| RY3-200-1-490 | 219.1 | 490 | 423 | 4.15 | 933 | 10 | 9 | 210 | 8.27 | 20 | 20 | 266 | 4.2 | 41 | 9.2 |
| RY4-200-1-490 | 219.1 | 490 | 423 | 4.15 | 933 | 10 | 9 | 208 | 8.19 | 36 | 20 | 312 | 4.3 | 42 | 9.4 |
| RP5-200-1-490 | 219.1 | 490 | 423 | 4.15 | 933 | 10 | 9 | 210 | 8.27 | 50 | | | 3.9 | 39 | 8.7 |
| RY3-200-2-490 | 219.1 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 210 | 8.27 | 20 | 30 | 273 | 5.1 | 50 | 11.2 |
| RY4-200-2-490 | 219.1 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 208 | 8.19 | 39 | 30 | 322 | 5.0 | 49 | 11.0 |
| RP5-200-2-490 | 219.1 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 210 | 8.27 | 60 | | | 4.7 | 46 | 10.4 |
| RY3-200-3-490 | 219.1 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 217 | 8.54 | 30 | 40 | 298 | 8.9 | 87 | 19.7 |
| RY4-200-3-490 | 219.1 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 217 | 8.54 | 47 | 40 | 370 | 9.3 | 91 | 20.4 |
| RP5-200-3-490 | 219.1 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 215 | 8.46 | 80 | | | 10.0 | 98 | 22.0 |
| RY3-200-4-490 | 219.1 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 228 | 8.98 | 40 | 50 | 312 | 13.0 | 128 | 28.7 |
| RY4-200-4-490 | 219.1 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 226 | 8.90 | 57 | 50 | 390 | 12.4 | 122 | 27.4 |
| RP5-200-4-490 | 219.1 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 230 | 9.06 | 100 | | | 17.6 | 173 | 38.9 |
| RY3-200-5-490 | 219.1 | 490 | 6324 | 62 | 13942 | 25 | 20 | 235 | 9.25 | 50 | 50 | 330 | 17.9 | 175 | 39.4 |
| RY4-200-5-490 | 219.1 | 490 | 6324 | 62 | 13942 | 25 | 20 | 233 | 9.17 | 69 | 50 | 424 | 19.3 | 190 | 42.6 |
| RP5-200-5-490 | 219.1 | 490 | 6324 | 62 | 13942 | 25 | 20 | 250 | 9.84 | 110 | | | 20.9 | 205 | 46.1 |
| RY4-200-6-490 | 219.1 | 490 | 12754 | 125 | 28117 | 35 | 25 | 295 | 11.61 | 86 | 70 | 456 | 40.9 | 401 | 90.2 |
| RP5-200-6-490 | 219.1 | 490 | 12754 | 125 | 28117 | 35 | 25 | 285 | 11.22 | 100 | | | 32.3 | 317 | 71.2 |
| RY4-200-7-490 | 219.1 | 490 | 18132 | 178 | 39974 | 40 | 28 | 322 | 12.68 | 102 | 80 | 482 | 64.0 | 628 | 141.2 |
| RP5-200-7-490 | 219.1 | 490 | 18132 | 178 | 39974 | 40 | 28 | 300 | 11.81 | 140 | | | 47.7 | 468 | 105.2 |
| RP5-200-8-490 | 219.1 | 490 | 25524 | 250 | 56269 | 50 | 35 | 335 | 13.19 | 130 | | | 65.7 | 644 | 144.9 |




TYPE RY3 CLAMP

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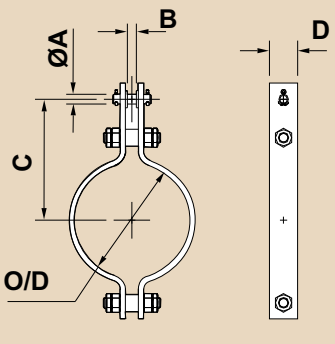
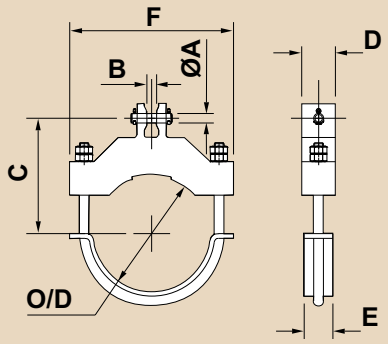
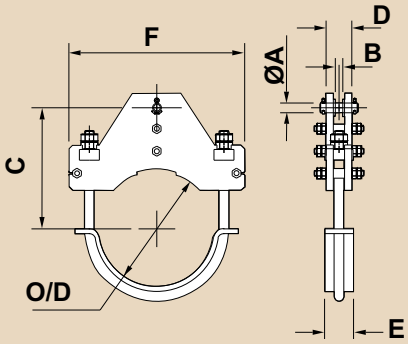



TYPE RP5 CLAMP

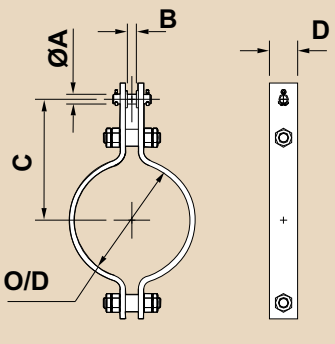
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-200-1-530 | 219.1 | 530 | 423 | 4.15 | 933 | 10 | 9 | 210 | 8.27 | 20 | 30 | 273 | 4.7 | 46 | 10.3 |
| RY4-200-1-530 | 219.1 | 530 | 423 | 4.15 | 933 | 10 | 9 | 208 | 8.19 | 36 | 30 | 314 | 4.7 | 46 | 10.3 |
| RP5-200-1-530 | 219.1 | 530 | 423 | 4.15 | 933 | 10 | 9 | 210 | 8.27 | 50 | | | 3.9 | 39 | 8.7 |
| RY3-200-2-530 | 219.1 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 210 | 8.27 | 25 | 30 | 284 | 6.6 | 64 | 14.5 |
| RY4-200-2-530 | 219.1 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 208 | 8.19 | 39 | 30 | 328 | 5.5 | 54 | 12.2 |
| RP5-200-2-530 | 219.1 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 210 | 8.27 | 70 | | | 6.6 | 65 | 14.6 |
| RY3-200-3-530 | 219.1 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 217 | 8.54 | 40 | 50 | 312 | 12.1 | 119 | 26.7 |
| RY4-200-3-530 | 219.1 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 217 | 8.54 | 47 | 50 | 374 | 11.4 | 112 | 25.2 |
| RP5-200-3-530 | 219.1 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 215 | 8.46 | 80 | | | 10.0 | 98 | 22.0 |
| RY3-200-4-530 | 219.1 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 228 | 8.98 | 50 | 50 | 330 | 17.0 | 167 | 37.6 |
| RY4-200-4-530 | 219.1 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 226 | 8.90 | 57 | 50 | 398 | 15.7 | 154 | 34.5 |
| RP5-200-4-530 | 219.1 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 230 | 9.06 | 100 | | | 17.6 | 173 | 38.9 |
| RY3-200-5-530 | 219.1 | 530 | 6324 | 62 | 13942 | 25 | 20 | 235 | 9.25 | 60 | 70 | 351 | 23.3 | 229 | 51.4 |
| RY4-200-5-530 | 219.1 | 530 | 6324 | 62 | 13942 | 25 | 20 | 250 | 9.84 | 69 | 70 | 430 | 26.1 | 256 | 57.6 |
| RP5-200-5-530 | 219.1 | 530 | 6324 | 62 | 13942 | 25 | 20 | 255 | 10.04 | 90 | | | 21.6 | 212 | 47.7 |
| RY4-200-6-530 | 219.1 | 530 | 12754 | 125 | 28117 | 35 | 25 | 306 | 12.05 | 86 | 80 | 466 | 48.4 | 475 | 106.7 |
| RP5-200-6-530 | 219.1 | 530 | 12754 | 125 | 28117 | 35 | 25 | 285 | 11.22 | 110 | | | 35.4 | 347 | 78.0 |
| RY4-200-7-530 | 219.1 | 530 | 18132 | 178 | 39974 | 40 | 28 | 333 | 13.11 | 102 | 90 | 488 | 72.3 | 709 | 159.4 |
| RP5-200-7-530 | 219.1 | 530 | 18132 | 178 | 39974 | 40 | 28 | 300 | 11.81 | 160 | | | 54.2 | 531 | 119.4 |
| RP5-200-8-530 | 219.1 | 530 | 25524 | 250 | 56269 | 50 | 35 | 320 | 12.60 | 130 | | | 62.5 | 613 | 137.9 |
| RY3-200-1-570 | 219.1 | 570 | 423 | 4.15 | 933 | 10 | 9 | 210 | 8.27 | 25 | 30 | 284 | 6.2 | 61 | 13.7 |
| RY4-200-1-570 | 219.1 | 570 | 423 | 4.15 | 933 | 10 | 9 | 208 | 8.19 | 36 | 30 | 320 | 5.2 | 51 | 11.6 |
| RP5-200-1-570 | 219.1 | 570 | 423 | 4.15 | 933 | 10 | 9 | 210 | 8.27 | 50 | | | 3.9 | 39 | 8.7 |
| RY3-200-2-570 | 219.1 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 210 | 8.27 | 30 | 40 | 298 | 8.7 | 85 | 19.1 |
| RY4-200-2-570 | 219.1 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 208 | 8.19 | 39 | 40 | 332 | 7.9 | 77 | 17.4 |
| RP5-200-2-570 | 219.1 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 210 | 8.27 | 80 | | | 7.5 | 74 | 16.6 |
| RY3-200-3-570 | 219.1 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 217 | 8.54 | 50 | 50 | 330 | 16.1 | 158 | 35.6 |
| RY4-200-3-570 | 219.1 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 221 | 8.70 | 51 | 50 | 382 | 15.5 | 152 | 34.1 |
| RP5-200-3-570 | 219.1 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 215 | 8.46 | 100 | | | 16.5 | 162 | 36.4 |
| RY3-200-4-570 | 219.1 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 228 | 8.98 | 60 | 70 | 351 | 22.7 | 222 | 50.0 |
| RY4-200-4-570 | 219.1 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 247 | 9.72 | 63 | 70 | 404 | 24.7 | 242 | 54.5 |
| RP5-200-4-570 | 219.1 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 240 | 9.45 | 90 | | | 20.4 | 200 | 45.0 |
| RY3-200-5-570 | 219.1 | 570 | 6324 | 62 | 13942 | 25 | 20 | 235 | 9.25 | 70 | 80 | 376 | 30.7 | 301 | 67.7 |
| RY4-200-5-570 | 219.1 | 570 | 6324 | 62 | 13942 | 25 | 20 | 274 | 10.79 | 79 | 80 | 440 | 36.3 | 356 | 80.1 |
| RP5-200-5-570 | 219.1 | 570 | 6324 | 62 | 13942 | 25 | 20 | 255 | 10.04 | 110 | | | 26.3 | 258 | 57.9 |
| RY4-200-6-570 | 219.1 | 570 | 12754 | 125 | 28117 | 35 | 25 | 315 | 12.40 | 96 | 90 | 472 | 65.1 | 639 | 143.5 |
| RP5-200-6-570 | 219.1 | 570 | 12754 | 125 | 28117 | 35 | 25 | 285 | 11.22 | 160 | | | 50.7 | 498 | 111.9 |
| RY4-200-7-570 | 219.1 | 570 | 18132 | 178 | 39974 | 40 | 28 | 356 | 14.02 | 102 | 100 | 500 | 85.0 | 834 | 187.5 |
| RP5-200-7-570 | 219.1 | 570 | 18132 | 178 | 39974 | 40 | 28 | 315 | 12.40 | 120 | | | 56.1 | 550 | 123.7 |
| RP5-200-8-570 | 219.1 | 570 | 25524 | 250 | 56269 | 50 | 35 | 320 | 12.60 | 160 | | | 76.1 | 747 | 167.9 |




TYPE RY3 CLAMP

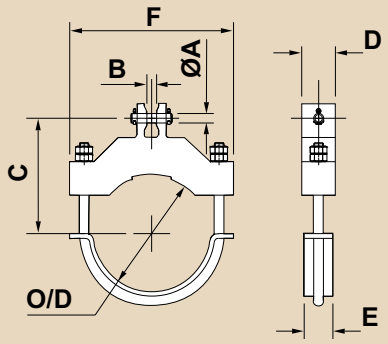



TYPE RY4 CLAMP

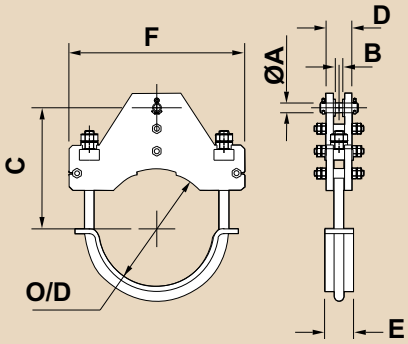



TYPE RP5 CLAMP

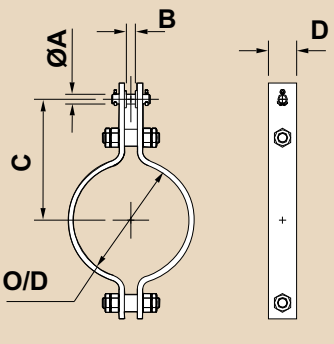
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-225-1-400 | 244.5 | 400 | 423 | 4.15 | 933 | 10 | 9 | 222 | 8.74 | 20 | 20 | 290 | 4.8 | 47 | 10.6 |
| RY4-225-1-400 | 244.5 | 400 | 423 | 4.15 | 933 | 10 | 9 | 220 | 8.66 | 36 | 20 | 336 | 5.7 | 56 | 12.6 |
| RP5-225-1-400 | 244.5 | 400 | 423 | 4.15 | 933 | 10 | 9 | 220 | 8.66 | 50 | | | 4.2 | 41 | 9.3 |
| RY3-225-2-400 | 244.5 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 222 | 8.74 | 20 | 30 | 297 | 5.9 | 57 | 12.9 |
| RY4-225-2-400 | 244.5 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 220 | 8.66 | 39 | 30 | 346 | 6.6 | 65 | 14.6 |
| RP5-225-2-400 | 244.5 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 220 | 8.66 | 70 | | | 7.3 | 71 | 16.0 |
| RY3-225-3-400 | 244.5 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 229 | 9.02 | 30 | 40 | 322 | 10.3 | 101 | 22.6 |
| RY4-225-3-400 | 244.5 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 229 | 9.02 | 47 | 40 | 394 | 10.5 | 103 | 23.2 |
| RP5-225-3-400 | 244.5 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 230 | 9.06 | 80 | | | 11.0 | 108 | 24.2 |
| RY3-225-4-400 | 244.5 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 240 | 9.45 | 40 | 50 | 336 | 14.8 | 145 | 32.5 |
| RY4-225-4-400 | 244.5 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 238 | 9.37 | 57 | 50 | 414 | 12.7 | 124 | 27.9 |
| RP5-225-4-400 | 244.5 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 260 | 10.24 | 100 | | | 20.7 | 203 | 45.7 |
| RY3-225-5-400 | 244.5 | 400 | 6324 | 62 | 13942 | 25 | 20 | 247 | 9.72 | 50 | 50 | 354 | 20.2 | 198 | 44.5 |
| RY4-225-5-400 | 244.5 | 400 | 6324 | 62 | 13942 | 25 | 20 | 245 | 9.65 | 69 | 50 | 448 | 20.7 | 203 | 45.7 |
| RP5-225-5-400 | 244.5 | 400 | 6324 | 62 | 13942 | 25 | 20 | 275 | 10.83 | 90 | | | 24.1 | 237 | 53.2 |
| RY4-225-6-400 | 244.5 | 400 | 12754 | 125 | 28117 | 35 | 25 | 303 | 11.93 | 86 | 80 | 490 | 54.5 | 535 | 120.3 |
| RP5-225-6-400 | 244.5 | 400 | 12754 | 125 | 28117 | 35 | 25 | 315 | 12.40 | 120 | | | 44.5 | 436 | 98.0 |
| RY4-225-7-400 | 244.5 | 400 | 18132 | 178 | 39974 | 40 | 28 | 332 | 13.07 | 102 | 90 | 512 | 75.8 | 743 | 167.1 |
| RP5-225-7-400 | 244.5 | 400 | 18132 | 178 | 39974 | 40 | 28 | 325 | 12.80 | 160 | | | 59.9 | 587 | 132.0 |
| RY4-225-8-400 | 244.5 | 400 | 25524 | 250 | 56269 | 50 | 35 | 375 | 14.76 | 120 | 100 | 566 | 107.0 | 1049 | 235.9 |
| RP5-225-8-400 | 244.5 | 400 | 25524 | 250 | 56269 | 50 | 35 | 370 | 14.57 | 140 | | | 81.6 | 800 | 179.9 |
| RY3-225-1-490 | 244.5 | 490 | 423 | 4.15 | 933 | 10 | 9 | 222 | 8.74 | 20 | 20 | 290 | 4.8 | 47 | 10.6 |
| RY4-225-1-490 | 244.5 | 490 | 423 | 4.15 | 933 | 10 | 9 | 220 | 8.66 | 36 | 20 | 336 | 5.7 | 56 | 12.6 |
| RP5-225-1-490 | 244.5 | 490 | 423 | 4.15 | 933 | 10 | 9 | 220 | 8.66 | 50 | | | 4.2 | 41 | 9.3 |
| RY3-225-2-490 | 244.5 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 222 | 8.74 | 20 | 30 | 297 | 5.9 | 57 | 12.9 |
| RY4-225-2-490 | 244.5 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 220 | 8.66 | 39 | 30 | 346 | 6.7 | 65 | 14.7 |
| RP5-225-2-490 | 244.5 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 220 | 8.66 | 60 | | | 5.0 | 49 | 11.1 |
| RY3-225-3-490 | 244.5 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 229 | 9.02 | 30 | 40 | 322 | 10.2 | 100 | 22.5 |
| RY4-225-3-490 | 244.5 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 229 | 9.02 | 47 | 40 | 394 | 10.4 | 102 | 22.9 |
| RP5-225-3-490 | 244.5 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 230 | 9.06 | 80 | | | 10.7 | 105 | 23.5 |
| RY3-225-4-490 | 244.5 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 240 | 9.45 | 40 | 50 | 336 | 14.8 | 145 | 32.5 |
| RY4-225-4-490 | 244.5 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 238 | 9.37 | 57 | 50 | 414 | 12.7 | 124 | 27.9 |
| RP5-225-4-490 | 244.5 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 245 | 9.65 | 100 | | | 19.0 | 186 | 41.9 |
| RY3-225-5-490 | 244.5 | 490 | 6324 | 62 | 13942 | 25 | 20 | 247 | 9.72 | 50 | 50 | 354 | 20.1 | 197 | 44.3 |
| RY4-225-5-490 | 244.5 | 490 | 6324 | 62 | 13942 | 25 | 20 | 245 | 9.65 | 69 | 50 | 448 | 20.2 | 198 | 44.5 |
| RP5-225-5-490 | 244.5 | 490 | 6324 | 62 | 13942 | 25 | 20 | 260 | 10.24 | 110 | | | 22.1 | 216 | 48.6 |
| RY4-225-6-490 | 244.5 | 490 | 12754 | 125 | 28117 | 35 | 25 | 302 | 11.89 | 86 | 70 | 480 | 45.8 | 449 | 100.9 |
| RP5-225-6-490 | 244.5 | 490 | 12754 | 125 | 28117 | 35 | 25 | 300 | 11.81 | 110 | | | 37.5 | 368 | 82.7 |
| RY4-225-7-490 | 244.5 | 490 | 18132 | 178 | 39974 | 40 | 28 | 329 | 12.95 | 102 | 80 | 506 | 62.4 | 612 | 137.6 |
| RP5-225-7-490 | 244.5 | 490 | 18132 | 178 | 39974 | 40 | 28 | 310 | 12.20 | 150 | | | 53.2 | 522 | 117.3 |
| RY4-225-8-490 | 244.5 | 490 | 25524 | 250 | 56269 | 50 | 35 | 373 | 14.69 | 120 | 90 | 554 | 100.5 | 986 | 221.7 |
| RP5-225-8-490 | 244.5 | 490 | 25524 | 250 | 56269 | 50 | 35 | 350 | 13.78 | 130 | | | 69.0 | 676 | 152.1 |




TYPE RY3 CLAMP

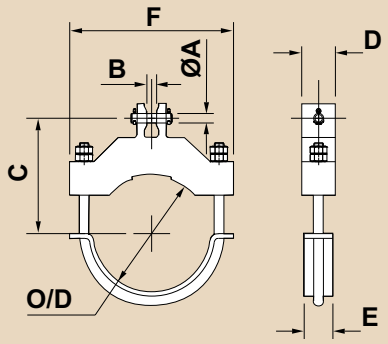



TYPE RY4 CLAMP

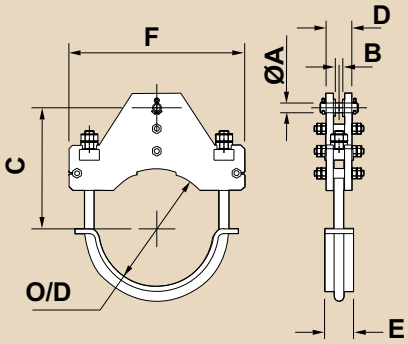



TYPE RP5 CLAMP

| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-225-1-530 | 244.5 | 530 | 423 | 4.15 | 933 | 10 | 9 | 222 | 8.74 | 20 | 30 | 297 | 5.4 | 53 | 11.8 |
| RY4-225-1-530 | 244.5 | 530 | 423 | 4.15 | 933 | 10 | 9 | 220 | 8.66 | 36 | 30 | 338 | 6.2 | 60 | 13.6 |
| RP5-225-1-530 | 244.5 | 530 | 423 | 4.15 | 933 | 10 | 9 | 220 | 8.66 | 50 | | | 4.2 | 41 | 9.3 |
| RY3-225-2-530 | 244.5 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 222 | 8.74 | 25 | 30 | 308 | 7.5 | 74 | 16.6 |
| RY4-225-2-530 | 244.5 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 220 | 8.66 | 39 | 30 | 352 | 7.5 | 73 | 16.4 |
| RP5-225-2-530 | 244.5 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 220 | 8.66 | 70 | | | 7.0 | 69 | 15.5 |
| RY3-225-3-530 | 244.5 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 229 | 9.02 | 40 | 50 | 336 | 13.9 | 136 | 30.5 |
| RY4-225-3-530 | 244.5 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 229 | 9.02 | 47 | 50 | 398 | 12.3 | 121 | 27.1 |
| RP5-225-3-530 | 244.5 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 230 | 9.06 | 80 | | | 10.7 | 105 | 23.5 |
| RY3-225-4-530 | 244.5 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 240 | 9.45 | 50 | 50 | 354 | 19.2 | 189 | 42.4 |
| RY4-225-4-530 | 244.5 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 238 | 9.37 | 57 | 50 | 422 | 16.4 | 161 | 36.1 |
| RP5-225-4-530 | 244.5 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 245 | 9.65 | 100 | | | 19.0 | 186 | 41.9 |
| RY3-225-5-530 | 244.5 | 530 | 6324 | 62 | 13942 | 25 | 20 | 247 | 9.72 | 60 | 70 | 375 | 26.1 | 256 | 57.5 |
| RY4-225-5-530 | 244.5 | 530 | 6324 | 62 | 13942 | 25 | 20 | 262 | 10.31 | 69 | 70 | 454 | 26.8 | 263 | 59.0 |
| RP5-225-5-530 | 244.5 | 530 | 6324 | 62 | 13942 | 25 | 20 | 270 | 10.63 | 90 | | | 23.1 | 227 | 50.9 |
| RY4-225-6-530 | 244.5 | 530 | 12754 | 125 | 28117 | 35 | 25 | 312 | 12.28 | 86 | 80 | 490 | 56.2 | 551 | 124.0 |
| RP5-225-6-530 | 244.5 | 530 | 12754 | 125 | 28117 | 35 | 25 | 300 | 11.81 | 120 | | | 40.8 | 400 | 89.9 |
| RY4-225-7-530 | 244.5 | 530 | 18132 | 178 | 39974 | 40 | 28 | 341 | 13.43 | 102 | 90 | 512 | 77.7 | 762 | 171.4 |
| RP5-225-7-530 | 244.5 | 530 | 18132 | 178 | 39974 | 40 | 28 | 325 | 12.80 | 120 | | | 58.5 | 573 | 128.9 |
| RY4-225-8-530 | 244.5 | 530 | 25524 | 250 | 56269 | 50 | 35 | 380 | 14.96 | 120 | 100 | 566 | 108.4 | 1063 | 238.9 |
| RP5-225-8-530 | 244.5 | 530 | 25524 | 250 | 56269 | 50 | 35 | 350 | 13.78 | 140 | | | 73.9 | 725 | 163.0 |
| RY3-225-1-570 | 244.5 | 570 | 423 | 4.15 | 933 | 10 | 9 | 222 | 8.74 | 25 | 30 | 308 | 7.1 | 69 | 15.6 |
| RY4-225-1-570 | 244.5 | 570 | 423 | 4.15 | 933 | 10 | 9 | 220 | 8.66 | 36 | 30 | 344 | 6.7 | 66 | 14.9 |
| RP5-225-1-570 | 244.5 | 570 | 423 | 4.15 | 933 | 10 | 9 | 220 | 8.66 | 60 | | | 5.0 | 49 | 11.1 |
| RY3-225-2-570 | 244.5 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 222 | 8.74 | 30 | 40 | 322 | 10.0 | 98 | 22.0 |
| RY4-225-2-570 | 244.5 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 220 | 8.66 | 39 | 40 | 356 | 9.2 | 91 | 20.4 |
| RP5-225-2-570 | 244.5 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 220 | 8.66 | 80 | | | 10.1 | 99 | 22.2 |
| RY3-225-3-570 | 244.5 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 229 | 9.02 | 50 | 50 | 354 | 18.4 | 180 | 40.5 |
| RY4-225-3-570 | 244.5 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 233 | 9.17 | 51 | 50 | 406 | 16.1 | 157 | 35.4 |
| RP5-225-3-570 | 244.5 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 230 | 9.06 | 100 | | | 17.8 | 175 | 39.3 |
| RY3-225-4-570 | 244.5 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 240 | 9.45 | 60 | 70 | 375 | 25.5 | 250 | 56.2 |
| RY4-225-4-570 | 244.5 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 259 | 10.20 | 63 | 70 | 428 | 25.3 | 249 | 55.9 |
| RP5-225-4-570 | 244.5 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 250 | 9.84 | 90 | | | 21.5 | 211 | 47.5 |
| RY3-225-5-570 | 244.5 | 570 | 6324 | 62 | 13942 | 25 | 20 | 247 | 9.72 | 70 | 80 | 400 | 34.1 | 334 | 75.2 |
| RY4-225-5-570 | 244.5 | 570 | 6324 | 62 | 13942 | 25 | 20 | 286 | 11.26 | 79 | 80 | 464 | 42.3 | 414 | 93.2 |
| RP5-225-5-570 | 244.5 | 570 | 6324 | 62 | 13942 | 25 | 20 | 280 | 11.02 | 100 | | | 31.3 | 307 | 69.1 |
| RY4-225-6-570 | 244.5 | 570 | 12754 | 125 | 28117 | 35 | 25 | 327 | 12.87 | 96 | 90 | 496 | 75.4 | 739 | 166.1 |
| RP5-225-6-570 | 244.5 | 570 | 12754 | 125 | 28117 | 35 | 25 | 315 | 12.40 | 120 | | | 55.7 | 546 | 122.9 |
| RY4-225-7-570 | 244.5 | 570 | 18132 | 178 | 39974 | 40 | 28 | 363 | 14.29 | 102 | 100 | 524 | 95.3 | 935 | 210.2 |
| RP5-225-7-570 | 244.5 | 570 | 18132 | 178 | 39974 | 40 | 28 | 325 | 12.80 | 130 | | | 63.1 | 619 | 139.1 |
| RY4-225-8-570 | 244.5 | 570 | 25524 | 250 | 56269 | 50 | 35 | 402 | 15.83 | 120 | 120 | 574 | 137.9 | 1352 | 304.0 |
| RP5-225-8-570 | 244.5 | 570 | 25524 | 250 | 56269 | 50 | 35 | 350 | 13.78 | 180 | | | 93.8 | 920 | 206.8 |




TYPE RY3 CLAMP

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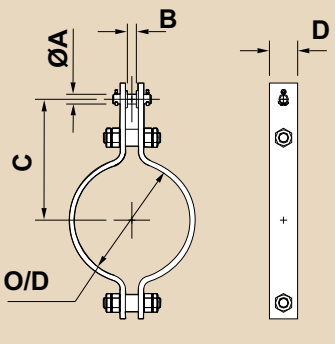
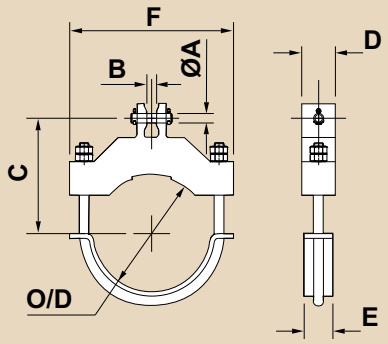
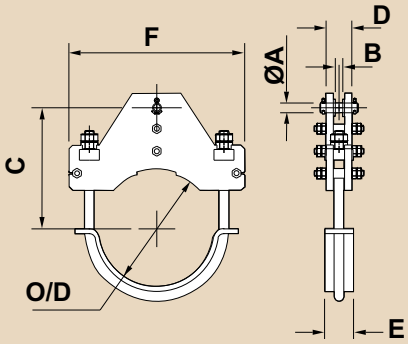



TYPE RP5 CLAMP

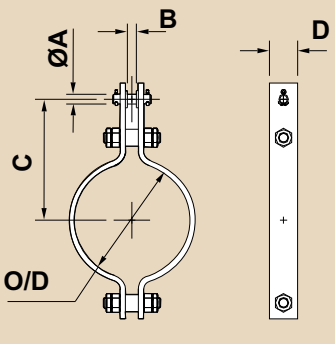
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-250-1-400 | 273 | 400 | 423 | 4.15 | 933 | 10 | 9 | 237 | 9.33 | 20 | 20 | 320 | 5.8 | 56 | 12.7 |
| RY4-250-1-400 | 273 | 400 | 423 | 4.15 | 933 | 10 | 9 | 235 | 9.25 | 36 | 20 | 366 | 7.7 | 75 | 16.9 |
| RP5-250-1-400 | 273 | 400 | 423 | 4.15 | 933 | 10 | 9 | 235 | 9.25 | 50 | | | 4.6 | 45 | 10.1 |
| RY3-250-2-400 | 273 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 237 | 9.33 | 20 | 30 | 327 | 6.9 | 67 | 15.1 |
| RY4-250-2-400 | 273 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 235 | 9.25 | 39 | 30 | 376 | 8.4 | 82 | 18.5 |
| RP5-250-2-400 | 273 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 235 | 9.25 | 70 | | | 7.9 | 77 | 17.4 |
| RY3-250-3-400 | 273 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 244 | 9.61 | 30 | 40 | 352 | 12.0 | 118 | 26.4 |
| RY4-250-3-400 | 273 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 244 | 9.61 | 47 | 40 | 424 | 11.9 | 116 | 26.1 |
| RP5-250-3-400 | 273 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 240 | 9.45 | 80 | | | 11.8 | 115 | 25.9 |
| RY3-250-4-400 | 273 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 255 | 10.04 | 40 | 50 | 366 | 17.2 | 168 | 37.8 |
| RY4-250-4-400 | 273 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 253 | 9.96 | 57 | 50 | 444 | 13.1 | 128 | 28.8 |
| RP5-250-4-400 | 273 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 275 | 10.83 | 100 | | | 22.2 | 217 | 48.8 |
| RY3-250-5-400 | 273 | 400 | 6324 | 62 | 13942 | 25 | 20 | 263 | 10.35 | 50 | 50 | 384 | 23.2 | 228 | 51.2 |
| RY4-250-5-400 | 273 | 400 | 6324 | 62 | 13942 | 25 | 20 | 260 | 10.24 | 69 | 50 | 478 | 21.8 | 214 | 48.2 |
| RP5-250-5-400 | 273 | 400 | 6324 | 62 | 13942 | 25 | 20 | 295 | 11.61 | 90 | | | 26.1 | 256 | 57.5 |
| RY4-250-6-400 | 273 | 400 | 12754 | 125 | 28117 | 35 | 25 | 313 | 12.32 | 86 | 80 | 520 | 49.2 | 483 | 108.5 |
| RP5-250-6-400 | 273 | 400 | 12754 | 125 | 28117 | 35 | 25 | 330 | 12.99 | 120 | | | 47.0 | 461 | 103.6 |
| RY4-250-7-400 | 273 | 400 | 18132 | 178 | 39974 | 40 | 28 | 344 | 13.54 | 102 | 90 | 542 | 77.4 | 759 | 170.7 |
| RP5-250-7-400 | 273 | 400 | 18132 | 178 | 39974 | 40 | 28 | 360 | 14.17 | 120 | | | 67.4 | 661 | 148.6 |
| RY4-250-8-400 | 273 | 400 | 25524 | 250 | 56269 | 50 | 35 | 386 | 15.20 | 120 | 100 | 596 | 122.7 | 1203 | 270.4 |
| RP5-250-8-400 | 273 | 400 | 25524 | 250 | 56269 | 50 | 35 | 390 | 15.35 | 140 | | | 86.4 | 847 | 190.4 |
| RY4-250-9-400 | 273 | 400 | 55135 | 541 | 121552 | 70 | 49 | 537 | 21.14 | 148 | 130 | 660 | 258.0 | 2530 | 568.7 |
| RY3-250-1-490 | 273 | 490 | 423 | 4.15 | 933 | 10 | 9 | 237 | 9.33 | 20 | 20 | 320 | 5.8 | 56 | 12.7 |
| RY4-250-1-490 | 273 | 490 | 423 | 4.15 | 933 | 10 | 9 | 235 | 9.25 | 36 | 20 | 366 | 7.7 | 75 | 16.9 |
| RP5-250-1-490 | 273 | 490 | 423 | 4.15 | 933 | 10 | 9 | 235 | 9.25 | 50 | | | 4.6 | 45 | 10.1 |
| RY3-250-2-490 | 273 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 237 | 9.33 | 20 | 30 | 327 | 6.9 | 67 | 15.1 |
| RY4-250-2-490 | 273 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 235 | 9.25 | 39 | 30 | 376 | 8.4 | 83 | 18.6 |
| RP5-250-2-490 | 273 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 235 | 9.25 | 70 | | | 7.7 | 75 | 16.9 |
| RY3-250-3-490 | 273 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 244 | 9.61 | 30 | 40 | 352 | 11.9 | 117 | 26.3 |
| RY4-250-3-490 | 273 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 244 | 9.61 | 47 | 40 | 424 | 11.9 | 116 | 26.2 |
| RP5-250-3-490 | 273 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 240 | 9.45 | 80 | | | 11.4 | 112 | 25.2 |
| RY3-250-4-490 | 273 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 255 | 10.04 | 40 | 50 | 366 | 17.2 | 168 | 37.8 |
| RY4-250-4-490 | 273 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 253 | 9.96 | 57 | 50 | 444 | 13.2 | 129 | 29.0 |
| RP5-250-4-490 | 273 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 270 | 10.63 | 100 | | | 21.2 | 208 | 46.8 |
| RY3-250-5-490 | 273 | 490 | 6324 | 62 | 13942 | 25 | 20 | 262 | 10.31 | 50 | 50 | 384 | 23.2 | 227 | 51.1 |
| RY4-250-5-490 | 273 | 490 | 6324 | 62 | 13942 | 25 | 20 | 260 | 10.24 | 69 | 50 | 478 | 21.4 | 210 | 47.1 |
| RP5-250-5-490 | 273 | 490 | 6324 | 62 | 13942 | 25 | 20 | 295 | 11.61 | 90 | | | 26.1 | 256 | 57.5 |
| RY4-250-6-490 | 273 | 490 | 12754 | 125 | 28117 | 35 | 25 | 312 | 12.28 | 86 | 70 | 510 | 44.2 | 433 | 97.4 |
| RP5-250-6-490 | 273 | 490 | 12754 | 125 | 28117 | 35 | 25 | 320 | 12.60 | 120 | | | 44.9 | 441 | 99.0 |
| RY4-250-7-490 | 273 | 490 | 18132 | 178 | 39974 | 40 | 28 | 340 | 13.39 | 102 | 80 | 536 | 71.2 | 699 | 157.0 |
| RP5-250-7-490 | 273 | 490 | 18132 | 178 | 39974 | 40 | 28 | 330 | 12.99 | 160 | | | 60.6 | 595 | 133.7 |
| RY4-250-8-490 | 273 | 490 | 25524 | 250 | 56269 | 50 | 35 | 384 | 15.12 | 120 | 90 | 584 | 110.8 | 1087 | 244.3 |
| RP5-250-8-490 | 273 | 490 | 25524 | 250 | 56269 | 50 | 35 | 370 | 14.57 | 130 | | | 73.4 | 720 | 161.8 |
| RY4-250-9-490 | 273 | 490 | 55135 | 541 | 121552 | 70 | 49 | 528 | 20.79 | 148 | 130 | 660 | 254.4 | 2495 | 560.8 |




TYPE RY3 CLAMP

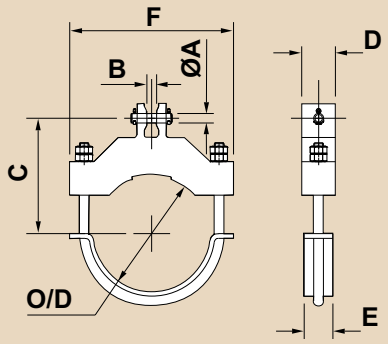



TYPE RY4 CLAMP

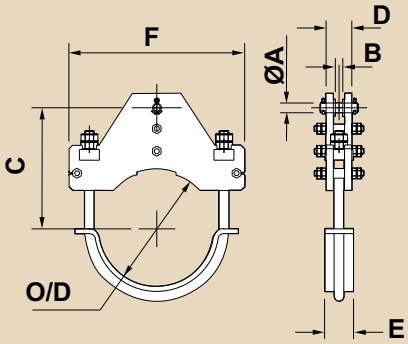



TYPE RP5 CLAMP

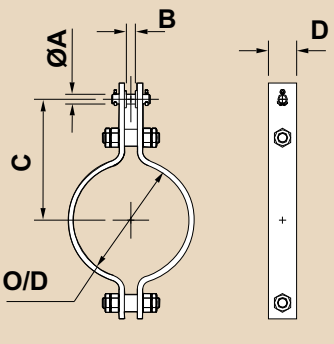
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-250-1-530 | 273 | 530 | 423 | 4.15 | 933 | 10 | 9 | 237 | 9.33 | 20 | 30 | 327 | 6.3 | 62 | 14.0 |
| RY4-250-1-530 | 273 | 530 | 423 | 4.15 | 933 | 10 | 9 | 235 | 9.25 | 36 | 30 | 368 | 8.2 | 80 | 18.0 |
| RP5-250-1-530 | 273 | 530 | 423 | 4.15 | 933 | 10 | 9 | 235 | 9.25 | 50 | | | 4.6 | 45 | 10.1 |
| RY3-250-2-530 | 273 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 237 | 9.33 | 25 | 30 | 338 | 8.8 | 86 | 19.4 |
| RY4-250-2-530 | 273 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 235 | 9.25 | 39 | 30 | 382 | 9.2 | 90 | 20.3 |
| RP5-250-2-530 | 273 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 235 | 9.25 | 70 | | | 7.7 | 75 | 16.9 |
| RY3-250-3-530 | 273 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 244 | 9.61 | 40 | 50 | 366 | 16.1 | 158 | 35.6 |
| RY4-250-3-530 | 273 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 244 | 9.61 | 47 | 50 | 428 | 12.8 | 126 | 28.3 |
| RP5-250-3-530 | 273 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 240 | 9.45 | 100 | | | 14.3 | 140 | 31.4 |
| RY3-250-4-530 | 273 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 255 | 10.04 | 50 | 50 | 384 | 22.2 | 218 | 49.0 |
| RY4-250-4-530 | 273 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 253 | 9.96 | 57 | 50 | 452 | 17.7 | 173 | 39.0 |
| RP5-250-4-530 | 273 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 270 | 10.63 | 110 | | | 23.3 | 228 | 51.4 |
| RY3-250-5-530 | 273 | 530 | 6324 | 62 | 13942 | 25 | 20 | 262 | 10.31 | 60 | 70 | 405 | 29.8 | 292 | 65.6 |
| RY4-250-5-530 | 273 | 530 | 6324 | 62 | 13942 | 25 | 20 | 277 | 10.91 | 69 | 70 | 484 | 27.9 | 273 | 61.4 |
| RP5-250-5-530 | 273 | 530 | 6324 | 62 | 13942 | 25 | 20 | 285 | 11.22 | 90 | | | 24.7 | 242 | 54.5 |
| RY4-250-6-530 | 273 | 530 | 12754 | 125 | 28117 | 35 | 25 | 322 | 12.68 | 86 | 80 | 520 | 51.3 | 503 | 113.2 |
| RP5-250-6-530 | 273 | 530 | 12754 | 125 | 28117 | 35 | 25 | 320 | 12.60 | 140 | | | 52.1 | 511 | 114.8 |
| RY4-250-7-530 | 273 | 530 | 18132 | 178 | 39974 | 40 | 28 | 351 | 13.82 | 102 | 90 | 542 | 79.2 | 776 | 174.5 |
| RP5-250-7-530 | 273 | 530 | 18132 | 178 | 39974 | 40 | 28 | 345 | 13.58 | 120 | | | 62.5 | 612 | 137.7 |
| RY4-250-8-530 | 273 | 530 | 25524 | 250 | 56269 | 50 | 35 | 390 | 15.35 | 120 | 100 | 596 | 124.4 | 1220 | 274.2 |
| RP5-250-8-530 | 273 | 530 | 25524 | 250 | 56269 | 50 | 35 | 370 | 14.57 | 150 | | | 84.0 | 824 | 185.2 |
| RY4-250-9-530 | 273 | 530 | 55135 | 541 | 121552 | 70 | 49 | 533 | 20.98 | 148 | 130 | 660 | 256.7 | 2518 | 566.0 |
| RY3-250-1-570 | 273 | 570 | 423 | 4.15 | 933 | 10 | 9 | 237 | 9.33 | 25 | 30 | 338 | 8.3 | 82 | 18.4 |
| RY4-250-1-570 | 273 | 570 | 423 | 4.15 | 933 | 10 | 9 | 235 | 9.25 | 36 | 30 | 374 | 8.8 | 86 | 19.4 |
| RP5-250-1-570 | 273 | 570 | 423 | 4.15 | 933 | 10 | 9 | 235 | 9.25 | 60 | | | 5.5 | 54 | 12.1 |
| RY3-250-2-570 | 273 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 237 | 9.33 | 30 | 40 | 352 | 11.5 | 113 | 25.3 |
| RY4-250-2-570 | 273 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 235 | 9.25 | 39 | 40 | 386 | 10.0 | 98 | 22.0 |
| RP5-250-2-570 | 273 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 235 | 9.25 | 80 | | | 10.9 | 107 | 24.1 |
| RY3-250-3-570 | 273 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 244 | 9.61 | 50 | 50 | 384 | 21.2 | 208 | 46.7 |
| RY4-250-3-570 | 273 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 248 | 9.76 | 51 | 50 | 436 | 16.2 | 158 | 35.6 |
| RP5-250-3-570 | 273 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 245 | 9.65 | 100 | | | 19.3 | 189 | 42.5 |
| RY3-250-4-570 | 273 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 255 | 10.04 | 60 | 70 | 405 | 29.1 | 286 | 64.2 |
| RY4-250-4-570 | 273 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 274 | 10.79 | 63 | 70 | 458 | 26.7 | 262 | 58.8 |
| RP5-250-4-570 | 273 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 270 | 10.63 | 90 | | | 23.5 | 230 | 51.8 |
| RY3-250-5-570 | 273 | 570 | 6324 | 62 | 13942 | 25 | 20 | 264 | 10.39 | 70 | 80 | 430 | 38.7 | 380 | 85.4 |
| RY4-250-5-570 | 273 | 570 | 6324 | 62 | 13942 | 25 | 20 | 301 | 11.85 | 79 | 80 | 494 | 47.6 | 467 | 105.0 |
| RP5-250-5-570 | 273 | 570 | 6324 | 62 | 13942 | 25 | 20 | 295 | 11.61 | 100 | | | 33.5 | 328 | 73.8 |
| RY4-250-6-570 | 273 | 570 | 12754 | 125 | 28117 | 35 | 25 | 342 | 13.46 | 96 | 90 | 526 | 71.5 | 701 | 157.6 |
| RP5-250-6-570 | 273 | 570 | 12754 | 125 | 28117 | 35 | 25 | 335 | 13.19 | 120 | | | 61.0 | 598 | 134.5 |
| RY4-250-7-570 | 273 | 570 | 18132 | 178 | 39974 | 40 | 28 | 373 | 14.69 | 102 | 100 | 554 | 89.8 | 881 | 198.0 |
| RP5-250-7-570 | 273 | 570 | 18132 | 178 | 39974 | 40 | 28 | 345 | 13.58 | 140 | | | 72.4 | 710 | 159.7 |
| RY4-250-8-570 | 273 | 570 | 25524 | 250 | 56269 | 50 | 35 | 412 | 16.22 | 120 | 120 | 604 | 143.9 | 1411 | 317.2 |
| RP5-250-8-570 | 273 | 570 | 25524 | 250 | 56269 | 50 | 35 | 370 | 14.57 | 200 | | | 110.5 | 1084 | 243.7 |
| RY4-250-9-570 | 273 | 570 | 55135 | 541 | 121552 | 70 | 49 | 532 | 20.94 | 158 | 130 | 660 | 276.6 | 2713 | 609.9 |




TYPE RY3 CLAMP

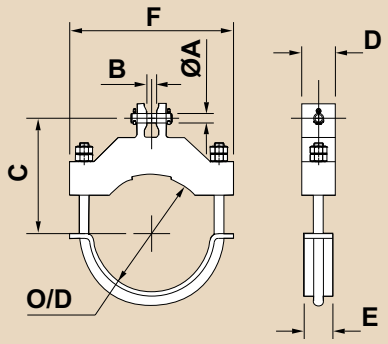



TYPE RY4 CLAMP

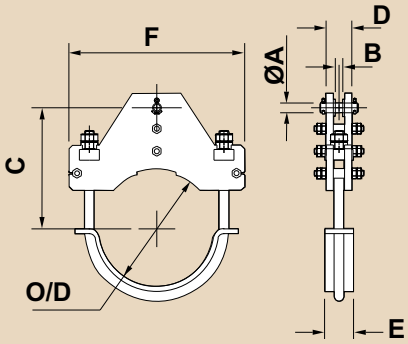



TYPE RP5 CLAMP

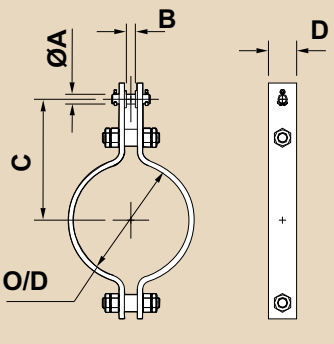
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-300-1-400 | 323.9 | 400 | 423 | 4.15 | 933 | 10 | 9 | 263 | 10.35 | 20 | 20 | 372 | 7.4 | 73 | 16.4 |
| RY4-300-1-400 | 323.9 | 400 | 423 | 4.15 | 933 | 10 | 9 | 262 | 10.31 | 36 | 20 | 418 | 9.9 | 97 | 21.7 |
| RP5-300-1-400 | 323.9 | 400 | 423 | 4.15 | 933 | 10 | 9 | 260 | 10.24 | 50 | | | 5.2 | 51 | 11.5 |
| RY3-300-2-400 | 323.9 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 263 | 10.35 | 20 | 30 | 379 | 8.7 | 86 | 19.3 |
| RY4-300-2-400 | 323.9 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 262 | 10.31 | 39 | 30 | 428 | 10.3 | 101 | 22.8 |
| RP5-300-2-400 | 323.9 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 260 | 10.24 | 70 | | | 8.9 | 87 | 19.6 |
| RY3-300-3-400 | 323.9 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 270 | 10.63 | 30 | 40 | 404 | 15.1 | 148 | 33.3 |
| RY4-300-3-400 | 323.9 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 269 | 10.59 | 47 | 40 | 476 | 11.9 | 116 | 26.2 |
| RP5-300-3-400 | 323.9 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 275 | 10.83 | 100 | | | 17.1 | 168 | 37.7 |
| RY3-300-4-400 | 323.9 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 284 | 11.18 | 40 | 50 | 418 | 21.8 | 213 | 48.0 |
| RY4-300-4-400 | 323.9 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 279 | 10.98 | 57 | 50 | 496 | 13.9 | 137 | 30.7 |
| RP5-300-4-400 | 323.9 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 300 | 11.81 | 100 | | | 24.6 | 241 | 54.2 |
| RY3-300-5-400 | 323.9 | 400 | 6324 | 62 | 13942 | 25 | 20 | 296 | 11.65 | 50 | 50 | 436 | 29.4 | 288 | 64.8 |
| RY4-300-5-400 | 323.9 | 400 | 6324 | 62 | 13942 | 25 | 20 | 287 | 11.30 | 63 | 50 | 530 | 28.7 | 282 | 63.3 |
| RP5-300-5-400 | 323.9 | 400 | 6324 | 62 | 13942 | 25 | 20 | 325 | 12.80 | 100 | | | 33.1 | 325 | 73.0 |
| RY4-300-6-400 | 323.9 | 400 | 12754 | 125 | 28117 | 35 | 25 | 333 | 13.11 | 86 | 80 | 572 | 53.6 | 525 | 118.1 |
| RP5-300-6-400 | 323.9 | 400 | 12754 | 125 | 28117 | 35 | 25 | 360 | 14.17 | 140 | | | 60.0 | 589 | 132.4 |
| RY4-300-7-400 | 323.9 | 400 | 18132 | 178 | 39974 | 40 | 28 | 371 | 14.61 | 102 | 90 | 594 | 86.6 | 850 | 191.0 |
| RP5-300-7-400 | 323.9 | 400 | 18132 | 178 | 39974 | 40 | 28 | 390 | 15.35 | 120 | | | 73.8 | 724 | 162.8 |
| RY4-300-8-400 | 323.9 | 400 | 25524 | 250 | 56269 | 50 | 35 | 402 | 15.83 | 120 | 100 | 648 | 133.0 | 1304 | 293.2 |
| RP5-300-8-400 | 323.9 | 400 | 25524 | 250 | 56269 | 50 | 35 | 415 | 16.34 | 160 | | | 105.1 | 1031 | 231.8 |
| RY4-300-9-400 | 323.9 | 400 | 55135 | 541 | 121552 | 70 | 49 | 555 | 21.85 | 148 | 130 | 712 | 287.2 | 2816 | 633.1 |
| RY4-300-10-400 | 323.9 | 400 | 70330 | 690 | 155050 | 80 | 55 | 611 | 24.06 | 166 | 150 | 746 | 371.1 | 3639 | 818.1 |
| RY3-300-1-490 | 323.9 | 490 | 423 | 4.15 | 933 | 10 | 9 | 263 | 10.35 | 20 | 20 | 372 | 7.4 | 73 | 16.4 |
| RY4-300-1-490 | 323.9 | 490 | 423 | 4.15 | 933 | 10 | 9 | 262 | 10.31 | 36 | 20 | 418 | 9.9 | 97 | 21.8 |
| RP5-300-1-490 | 323.9 | 490 | 423 | 4.15 | 933 | 10 | 9 | 260 | 10.24 | 50 | | | 5.2 | 51 | 11.5 |
| RY3-300-2-490 | 323.9 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 263 | 10.35 | 20 | 30 | 379 | 8.7 | 86 | 19.3 |
| RY4-300-2-490 | 323.9 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 262 | 10.31 | 39 | 30 | 428 | 10.4 | 102 | 22.8 |
| RP5-300-2-490 | 323.9 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 260 | 10.24 | 70 | | | 8.9 | 87 | 19.6 |
| RY3-300-3-490 | 323.9 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 270 | 10.63 | 30 | 40 | 404 | 15.1 | 148 | 33.3 |
| RY4-300-3-490 | 323.9 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 269 | 10.59 | 47 | 40 | 476 | 12.2 | 120 | 26.9 |
| RP5-300-3-490 | 323.9 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 265 | 10.43 | 80 | | | 13.0 | 128 | 28.7 |
| RY3-300-4-490 | 323.9 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 283 | 11.14 | 40 | 50 | 418 | 21.6 | 212 | 47.7 |
| RY4-300-4-490 | 323.9 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 279 | 10.98 | 57 | 50 | 496 | 14.2 | 139 | 31.3 |
| RP5-300-4-490 | 323.9 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 295 | 11.61 | 100 | | | 23.7 | 232 | 52.2 |
| RY3-300-5-490 | 323.9 | 490 | 6324 | 62 | 13942 | 25 | 20 | 295 | 11.61 | 50 | 50 | 436 | 29.2 | 286 | 64.4 |
| RY4-300-5-490 | 323.9 | 490 | 6324 | 62 | 13942 | 25 | 20 | 285 | 11.22 | 63 | 50 | 530 | 28.6 | 280 | 63.0 |
| RP5-300-5-490 | 323.9 | 490 | 6324 | 62 | 13942 | 25 | 20 | 320 | 12.60 | 100 | | | 31.9 | 313 | 70.3 |
| RY4-300-6-490 | 323.9 | 490 | 12754 | 125 | 28117 | 35 | 25 | 326 | 12.83 | 86 | 70 | 562 | 44.2 | 433 | 97.4 |
| RP5-300-6-490 | 323.9 | 490 | 12754 | 125 | 28117 | 35 | 25 | 350 | 13.78 | 140 | | | 57.7 | 566 | 127.3 |
| RY4-300-7-490 | 323.9 | 490 | 18132 | 178 | 39974 | 40 | 28 | 354 | 13.94 | 102 | 80 | 588 | 68.1 | 668 | 150.2 |
| RP5-300-7-490 | 323.9 | 490 | 18132 | 178 | 39974 | 40 | 28 | 385 | 15.16 | 120 | | | 71.4 | 701 | 157.5 |
| RY4-300-8-490 | 323.9 | 490 | 25524 | 250 | 56269 | 50 | 35 | 401 | 15.79 | 120 | 90 | 636 | 110.1 | 1080 | 242.8 |
| RP5-300-8-490 | 323.9 | 490 | 25524 | 250 | 56269 | 50 | 35 | 400 | 15.75 | 150 | | | 91.9 | 902 | 202.7 |
| RY4-300-9-490 | 323.9 | 490 | 55135 | 541 | 121552 | 70 | 49 | 546 | 21.50 | 148 | 130 | 712 | 283.7 | 2782 | 625.5 |
| RY4-300-10-490 | 323.9 | 490 | 70330 | 690 | 155050 | 80 | 55 | 602 | 23.70 | 166 | 150 | 746 | 367.0 | 3599 | 809.0 |




TYPE RY3 CLAMP

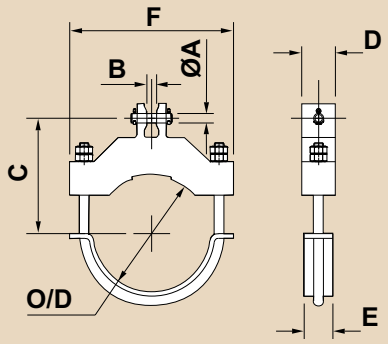



TYPE RY4 CLAMP

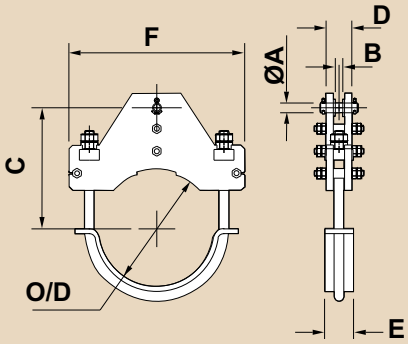



TYPE RP5 CLAMP

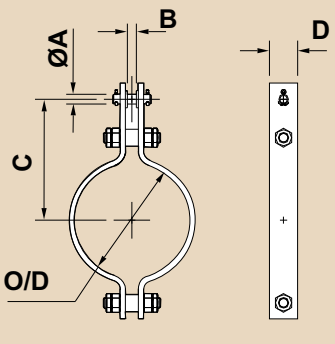
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-300-1-530 | 323.9 | 530 | 423 | 4.15 | 933 | 10 | 9 | 263 | 10.35 | 20 | 30 | 379 | 8.1 | 79 | 17.9 |
| RY4-300-1-530 | 323.9 | 530 | 423 | 4.15 | 933 | 10 | 9 | 262 | 10.31 | 36 | 30 | 420 | 10.4 | 102 | 23.0 |
| RP5-300-1-530 | 323.9 | 530 | 423 | 4.15 | 933 | 10 | 9 | 260 | 10.24 | 50 | | | 5.2 | 51 | 11.5 |
| RY3-300-2-530 | 323.9 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 263 | 10.35 | 25 | 30 | 390 | 11.2 | 110 | 24.7 |
| RY4-300-2-530 | 323.9 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 262 | 10.31 | 39 | 30 | 434 | 10.5 | 103 | 23.2 |
| RP5-300-2-530 | 323.9 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 260 | 10.24 | 70 | | | 8.9 | 87 | 19.6 |
| RY3-300-3-530 | 323.9 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 270 | 10.63 | 40 | 50 | 418 | 20.3 | 199 | 44.7 |
| RY4-300-3-530 | 323.9 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 269 | 10.59 | 47 | 50 | 480 | 12.6 | 124 | 27.8 |
| RP5-300-3-530 | 323.9 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 265 | 10.43 | 100 | | | 16.2 | 159 | 35.8 |
| RY3-300-4-530 | 323.9 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 281 | 11.06 | 50 | 50 | 436 | 27.8 | 272 | 61.2 |
| RY4-300-4-530 | 323.9 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 280 | 11.02 | 57 | 50 | 504 | 18.0 | 177 | 39.8 |
| RP5-300-4-530 | 323.9 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 305 | 12.01 | 90 | | | 27.1 | 266 | 59.7 |
| RY3-300-5-530 | 323.9 | 530 | 6324 | 62 | 13942 | 25 | 20 | 293 | 11.54 | 60 | 70 | 457 | 37.1 | 363 | 81.7 |
| RY4-300-5-530 | 323.9 | 530 | 6324 | 62 | 13942 | 25 | 20 | 304 | 11.97 | 69 | 70 | 536 | 30.1 | 295 | 66.3 |
| RP5-300-5-530 | 323.9 | 530 | 6324 | 62 | 13942 | 25 | 20 | 320 | 12.60 | 110 | | | 35.0 | 343 | 77.1 |
| RY4-300-6-530 | 323.9 | 530 | 12754 | 125 | 28117 | 35 | 25 | 336 | 13.23 | 86 | 80 | 572 | 54.0 | 530 | 119.1 |
| RP5-300-6-530 | 323.9 | 530 | 12754 | 125 | 28117 | 35 | 25 | 350 | 13.78 | 160 | | | 65.7 | 644 | 144.8 |
| RY4-300-7-530 | 323.9 | 530 | 18132 | 178 | 39974 | 40 | 28 | 371 | 14.61 | 102 | 90 | 594 | 86.2 | 845 | 190.0 |
| RP5-300-7-530 | 323.9 | 530 | 18132 | 178 | 39974 | 40 | 28 | 375 | 14.76 | 120 | | | 68.9 | 675 | 151.8 |
| RY4-300-8-530 | 323.9 | 530 | 25524 | 250 | 56269 | 50 | 35 | 406 | 15.98 | 120 | 100 | 648 | 134.8 | 1322 | 297.2 |
| RP5-300-8-530 | 323.9 | 530 | 25524 | 250 | 56269 | 50 | 35 | 400 | 15.75 | 170 | | | 103.6 | 1016 | 228.4 |
| RY4-300-9-530 | 323.9 | 530 | 55135 | 541 | 121552 | 70 | 49 | 552 | 21.73 | 148 | 130 | 712 | 286.2 | 2807 | 631.0 |
| RY4-300-10-530 | 323.9 | 530 | 70330 | 690 | 155050 | 80 | 55 | 603 | 23.74 | 166 | 150 | 746 | 367.5 | 3604 | 810.2 |
| RY3-300-1-570 | 323.9 | 570 | 423 | 4.15 | 933 | 10 | 9 | 263 | 10.35 | 25 | 30 | 390 | 10.6 | 104 | 23.3 |
| RY4-300-1-570 | 323.9 | 570 | 423 | 4.15 | 933 | 10 | 9 | 262 | 10.31 | 36 | 30 | 426 | 11.1 | 109 | 24.5 |
| RP5-300-1-570 | 323.9 | 570 | 423 | 4.15 | 933 | 10 | 9 | 260 | 10.24 | 70 | | | 8.7 | 85 | 19.2 |
| RY3-300-2-570 | 323.9 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 263 | 10.35 | 30 | 40 | 404 | 14.4 | 142 | 31.8 |
| RY4-300-2-570 | 323.9 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 262 | 10.31 | 39 | 40 | 438 | 9.6 | 94 | 21.2 |
| RP5-300-2-570 | 323.9 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 260 | 10.24 | 80 | | | 12.5 | 123 | 27.6 |
| RY3-300-3-570 | 323.9 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 270 | 10.63 | 50 | 50 | 436 | 26.6 | 261 | 58.7 |
| RY4-300-3-570 | 323.9 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 275 | 10.83 | 51 | 50 | 488 | 16.4 | 161 | 36.2 |
| RP5-300-3-570 | 323.9 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 275 | 10.83 | 100 | | | 22.0 | 216 | 48.6 |
| RY3-300-4-570 | 323.9 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 282 | 11.10 | 60 | 70 | 457 | 35.9 | 352 | 79.2 |
| RY4-300-4-570 | 323.9 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 301 | 11.85 | 63 | 70 | 510 | 29.2 | 286 | 64.3 |
| RP5-300-4-570 | 323.9 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 305 | 12.01 | 110 | | | 33.0 | 324 | 72.8 |
| RY3-300-5-570 | 323.9 | 570 | 6324 | 62 | 13942 | 25 | 20 | 296 | 11.65 | 70 | 80 | 482 | 47.5 | 466 | 104.7 |
| RY4-300-5-570 | 323.9 | 570 | 6324 | 62 | 13942 | 25 | 20 | 328 | 12.91 | 79 | 80 | 546 | 54.0 | 529 | 119.0 |
| RP5-300-5-570 | 323.9 | 570 | 6324 | 62 | 13942 | 25 | 20 | 325 | 12.80 | 100 | | | 37.5 | 368 | 82.7 |
| RY4-300-6-570 | 323.9 | 570 | 12754 | 125 | 28117 | 35 | 25 | 369 | 14.53 | 86 | 90 | 578 | 71.5 | 701 | 157.6 |
| RP5-300-6-570 | 323.9 | 570 | 12754 | 125 | 28117 | 35 | 25 | 365 | 14.37 | 120 | | | 67.4 | 661 | 148.7 |
| RY4-300-7-570 | 323.9 | 570 | 18132 | 178 | 39974 | 40 | 28 | 389 | 15.31 | 102 | 100 | 606 | 98.6 | 967 | 217.5 |
| RP5-300-7-570 | 323.9 | 570 | 18132 | 178 | 39974 | 40 | 28 | 375 | 14.76 | 160 | | | 91.0 | 892 | 200.6 |
| RY4-300-8-570 | 323.9 | 570 | 25524 | 250 | 56269 | 50 | 35 | 430 | 16.93 | 120 | 120 | 656 | 163.8 | 1607 | 361.2 |
| RP5-300-8-570 | 323.9 | 570 | 25524 | 250 | 56269 | 50 | 35 | 400 | 15.75 | 220 | | | 132.8 | 1302 | 292.7 |
| RY4-300-9-570 | 323.9 | 570 | 55135 | 541 | 121552 | 70 | 49 | 548 | 21.57 | 158 | 130 | 712 | 308.0 | 3020 | 679.0 |
| RY4-300-10-570 | 323.9 | 570 | 70330 | 690 | 155050 | 80 | 55 | 600 | 23.62 | 176 | 150 | 746 | 390.4 | 3829 | 860.8 |




TYPE RY3 CLAMP

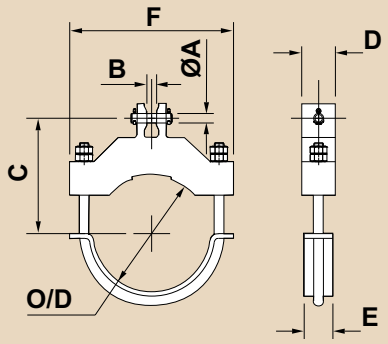



TYPE RY4 CLAMP

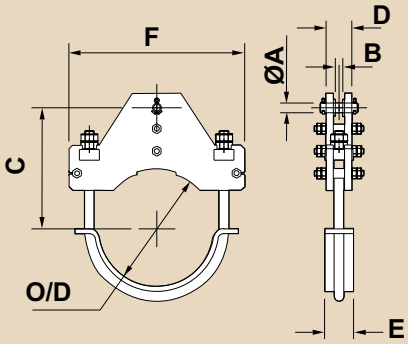



TYPE RP5 CLAMP

| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-350-1-400 | 355.6 | 400 | 423 | 4.15 | 933 | 10 | 9 | 279 | 10.98 | 20 | 20 | 404 | 8.7 | 85 | 19.2 |
| RY4-350-1-400 | 355.6 | 400 | 423 | 4.15 | 933 | 10 | 9 | 278 | 10.94 | 36 | 20 | 450 | 10.1 | 99 | 22.2 |
| RP5-350-1-400 | 355.6 | 400 | 423 | 4.15 | 933 | 10 | 9 | 275 | 10.83 | 50 | | | 5.6 | 55 | 12.4 |
| RY3-350-2-400 | 355.6 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 279 | 10.98 | 20 | 30 | 411 | 10.1 | 99 | 22.2 |
| RY4-350-2-400 | 355.6 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 278 | 10.94 | 39 | 30 | 460 | 10.0 | 98 | 22.1 |
| RP5-350-2-400 | 355.6 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 275 | 10.83 | 70 | | | 9.6 | 94 | 21.2 |
| RY3-350-3-400 | 355.6 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 286 | 11.26 | 30 | 40 | 436 | 17.2 | 169 | 37.9 |
| RY4-350-3-400 | 355.6 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 285 | 11.22 | 47 | 40 | 508 | 10.8 | 106 | 23.9 |
| RP5-350-3-400 | 355.6 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 290 | 11.42 | 100 | | | 18.2 | 179 | 40.2 |
| RY3-350-4-400 | 355.6 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 303 | 11.93 | 40 | 50 | 450 | 25.0 | 245 | 55.1 |
| RY4-350-4-400 | 355.6 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 295 | 11.61 | 57 | 50 | 528 | 14.5 | 142 | 31.9 |
| RP5-350-4-400 | 355.6 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 320 | 12.60 | 110 | | | 29.0 | 284 | 63.8 |
| RY3-350-5-400 | 355.6 | 400 | 6324 | 62 | 13942 | 25 | 20 | 316 | 12.44 | 50 | 50 | 468 | 33.5 | 329 | 73.9 |
| RY4-350-5-400 | 355.6 | 400 | 6324 | 62 | 13942 | 25 | 20 | 301 | 11.85 | 63 | 50 | 562 | 30.2 | 296 | 66.6 |
| RP5-350-5-400 | 355.6 | 400 | 6324 | 62 | 13942 | 25 | 20 | 345 | 13.58 | 110 | | | 38.7 | 380 | 85.4 |
| RY4-350-6-400 | 355.6 | 400 | 12754 | 125 | 28117 | 35 | 25 | 349 | 13.74 | 86 | 80 | 604 | 54.7 | 537 | 120.7 |
| RP5-350-6-400 | 355.6 | 400 | 12754 | 125 | 28117 | 35 | 25 | 375 | 14.76 | 150 | | | 67.5 | 662 | 148.7 |
| RY4-350-7-400 | 355.6 | 400 | 18132 | 178 | 39974 | 40 | 28 | 387 | 15.24 | 102 | 90 | 626 | 91.9 | 901 | 202.6 |
| RP5-350-7-400 | 355.6 | 400 | 18132 | 178 | 39974 | 40 | 28 | 410 | 16.14 | 120 | | | 78.1 | 765 | 172.1 |
| RY4-350-8-400 | 355.6 | 400 | 25524 | 250 | 56269 | 50 | 35 | 413 | 16.26 | 120 | 100 | 680 | 126.3 | 1239 | 278.5 |
| RP5-350-8-400 | 355.6 | 400 | 25524 | 250 | 56269 | 50 | 35 | 435 | 17.13 | 180 | | | 123.7 | 1213 | 272.8 |
| RY4-350-9-400 | 355.6 | 400 | 55135 | 541 | 121552 | 70 | 49 | 566 | 22.28 | 148 | 130 | 744 | 277.5 | 2722 | 611.9 |
| RY4-350-10-400 | 355.6 | 400 | 70330 | 690 | 155050 | 80 | 55 | 623 | 24.53 | 166 | 150 | 778 | 385.1 | 3776 | 848.9 |
| RY4-350-11-400 | 355.6 | 400 | 90785 | 890 | 200144 | 90 | 60 | 641 | 25.24 | 214 | 190 | 856 | 563.3 | 5524 | 1241.8 |
| RY3-350-1-490 | 355.6 | 490 | 423 | 4.15 | 933 | 10 | 9 | 279 | 10.98 | 20 | 20 | 404 | 8.7 | 85 | 19.2 |
| RY4-350-1-490 | 355.6 | 490 | 423 | 4.15 | 933 | 10 | 9 | 278 | 10.94 | 36 | 20 | 450 | 10.1 | 99 | 22.2 |
| RP5-350-1-490 | 355.6 | 490 | 423 | 4.15 | 933 | 10 | 9 | 275 | 10.83 | 50 | | | 5.6 | 55 | 12.4 |
| RY3-350-2-490 | 355.6 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 279 | 10.98 | 20 | 30 | 411 | 10.0 | 98 | 22.0 |
| RY4-350-2-490 | 355.6 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 278 | 10.94 | 39 | 30 | 460 | 10.1 | 99 | 22.2 |
| RP5-350-2-490 | 355.6 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 275 | 10.83 | 70 | | | 9.6 | 94 | 21.2 |
| RY3-350-3-490 | 355.6 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 286 | 11.26 | 30 | 40 | 436 | 17.2 | 169 | 37.9 |
| RY4-350-3-490 | 355.6 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 285 | 11.22 | 47 | 40 | 508 | 10.8 | 106 | 23.9 |
| RP5-350-3-490 | 355.6 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 285 | 11.22 | 100 | | | 17.8 | 175 | 39.3 |
| RY3-350-4-490 | 355.6 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 302 | 11.89 | 40 | 50 | 450 | 24.8 | 243 | 54.7 |
| RY4-350-4-490 | 355.6 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 295 | 11.61 | 57 | 50 | 528 | 14.5 | 142 | 31.9 |
| RP5-350-4-490 | 355.6 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 310 | 12.20 | 100 | | | 25.2 | 247 | 55.5 |
| RY3-350-5-490 | 355.6 | 490 | 6324 | 62 | 13942 | 25 | 20 | 315 | 12.40 | 50 | 50 | 468 | 33.3 | 327 | 73.5 |
| RY4-350-5-490 | 355.6 | 490 | 6324 | 62 | 13942 | 25 | 20 | 301 | 11.85 | 63 | 50 | 562 | 31.3 | 307 | 69.1 |
| RP5-350-5-490 | 355.6 | 490 | 6324 | 62 | 13942 | 25 | 20 | 335 | 13.19 | 100 | | | 33.7 | 331 | 74.4 |
| RY4-350-6-490 | 355.6 | 490 | 12754 | 125 | 28117 | 35 | 25 | 335 | 13.19 | 86 | 70 | 594 | 51.2 | 502 | 112.8 |
| RP5-350-6-490 | 355.6 | 490 | 12754 | 125 | 28117 | 35 | 25 | 365 | 14.37 | 140 | | | 60.8 | 597 | 134.1 |
| RY4-350-7-490 | 355.6 | 490 | 18132 | 178 | 39974 | 40 | 28 | 363 | 14.29 | 102 | 80 | 620 | 68.4 | 671 | 150.9 |
| RP5-350-7-490 | 355.6 | 490 | 18132 | 178 | 39974 | 40 | 28 | 405 | 15.94 | 120 | | | 75.7 | 742 | 166.8 |
| RY4-350-8-490 | 355.6 | 490 | 25524 | 250 | 56269 | 50 | 35 | 410 | 16.14 | 120 | 90 | 668 | 127.5 | 1251 | 281.2 |
| RP5-350-8-490 | 355.6 | 490 | 25524 | 250 | 56269 | 50 | 35 | 415 | 16.34 | 160 | | | 102.4 | 1004 | 225.7 |
| RY4-350-9-490 | 355.6 | 490 | 55135 | 541 | 121552 | 70 | 49 | 557 | 21.93 | 148 | 130 | 744 | 273.2 | 2679 | 602.2 |
| RY4-350-10-490 | 355.6 | 490 | 70330 | 690 | 155050 | 80 | 55 | 613 | 24.13 | 166 | 150 | 778 | 379.8 | 3725 | 837.3 |
| RY4-350-11-490 | 355.6 | 490 | 90785 | 890 | 200144 | 90 | 60 | 634 | 24.96 | 214 | 170 | 846 | 526.7 | 5165 | 1161.2 |




TYPE RY3 CLAMP

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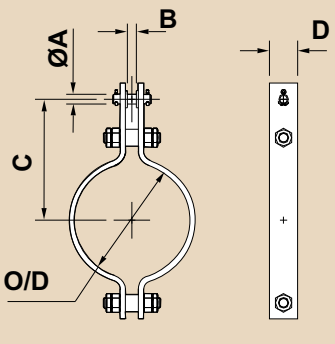
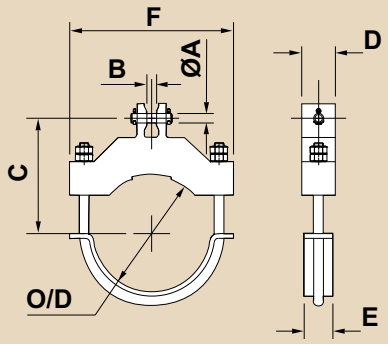
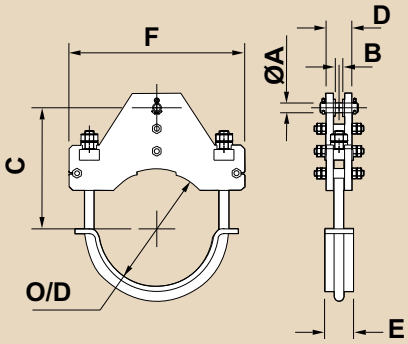



TYPE RP5 CLAMP

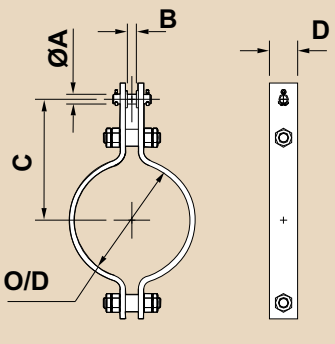
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-350-1-530 | 355.6 | 530 | 423 | 4.15 | 933 | 10 | 9 | 279 | 10.98 | 20 | 30 | 411 | 9.4 | 92 | 20.7 |
| RY4-350-1-530 | 355.6 | 530 | 423 | 4.15 | 933 | 10 | 9 | 278 | 10.94 | 36 | 30 | 452 | 10.7 | 105 | 23.5 |
| RP5-350-1-530 | 355.6 | 530 | 423 | 4.15 | 933 | 10 | 9 | 275 | 10.83 | 50 | | | 5.6 | 55 | 12.4 |
| RY3-350-2-530 | 355.6 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 279 | 10.98 | 25 | 30 | 422 | 12.8 | 125 | 28.2 |
| RY4-350-2-530 | 355.6 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 278 | 10.94 | 39 | 30 | 466 | 9.3 | 92 | 20.6 |
| RP5-350-2-530 | 355.6 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 275 | 10.83 | 80 | | | 11.0 | 107 | 24.2 |
| RY3-350-3-530 | 355.6 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 286 | 11.26 | 40 | 50 | 450 | 23.1 | 226 | 50.9 |
| RY4-350-3-530 | 355.6 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 285 | 11.22 | 47 | 50 | 512 | 11.9 | 116 | 26.2 |
| RP5-350-3-530 | 355.6 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 295 | 11.61 | 100 | | | 24.1 | 237 | 53.2 |
| RY3-350-4-530 | 355.6 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 299 | 11.77 | 50 | 50 | 468 | 31.7 | 311 | 69.8 |
| RY4-350-4-530 | 355.6 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 296 | 11.65 | 57 | 50 | 536 | 20.4 | 200 | 45.0 |
| RP5-350-4-530 | 355.6 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 320 | 12.60 | 90 | | | 28.8 | 282 | 63.4 |
| RY3-350-5-530 | 355.6 | 530 | 6324 | 62 | 13942 | 25 | 20 | 312 | 12.28 | 60 | 70 | 489 | 42.1 | 413 | 92.8 |
| RY4-350-5-530 | 355.6 | 530 | 6324 | 62 | 13942 | 25 | 20 | 320 | 12.60 | 69 | 70 | 568 | 30.8 | 302 | 67.8 |
| RP5-350-5-530 | 355.6 | 530 | 6324 | 62 | 13942 | 25 | 20 | 335 | 13.19 | 120 | | | 40.3 | 395 | 88.8 |
| RY4-350-6-530 | 355.6 | 530 | 12754 | 125 | 28117 | 35 | 25 | 349 | 13.74 | 86 | 80 | 604 | 58.6 | 575 | 129.2 |
| RP5-350-6-530 | 355.6 | 530 | 12754 | 125 | 28117 | 35 | 25 | 385 | 15.16 | 120 | | | 71.7 | 703 | 158.0 |
| RY4-350-7-530 | 355.6 | 530 | 18132 | 178 | 39974 | 40 | 28 | 387 | 15.24 | 102 | 90 | 626 | 86.7 | 850 | 191.0 |
| RP5-350-7-530 | 355.6 | 530 | 18132 | 178 | 39974 | 40 | 28 | 405 | 15.94 | 130 | | | 81.7 | 801 | 180.1 |
| RY4-350-8-530 | 355.6 | 530 | 25524 | 250 | 56269 | 50 | 35 | 417 | 16.42 | 120 | 100 | 680 | 128.2 | 1257 | 282.6 |
| RP5-350-8-530 | 355.6 | 530 | 25524 | 250 | 56269 | 50 | 35 | 415 | 16.34 | 180 | | | 114.6 | 1124 | 252.7 |
| RY4-350-9-530 | 355.6 | 530 | 55135 | 541 | 121552 | 70 | 49 | 562 | 22.13 | 148 | 130 | 744 | 275.8 | 2704 | 608.0 |
| RY4-350-10-530 | 355.6 | 530 | 70330 | 690 | 155050 | 80 | 55 | 616 | 24.25 | 166 | 150 | 778 | 381.8 | 3744 | 841.8 |
| RY4-350-11-530 | 355.6 | 530 | 90785 | 890 | 200144 | 90 | 60 | 634 | 24.96 | 214 | 170 | 846 | 526.7 | 5165 | 1161.2 |
| RY3-350-1-570 | 355.6 | 570 | 423 | 4.15 | 933 | 10 | 9 | 279 | 10.98 | 25 | 30 | 422 | 12.2 | 120 | 27.0 |
| RY4-350-1-570 | 355.6 | 570 | 423 | 4.15 | 933 | 10 | 9 | 278 | 10.94 | 36 | 30 | 458 | 11.4 | 112 | 25.2 |
| RP5-350-1-570 | 355.6 | 570 | 423 | 4.15 | 933 | 10 | 9 | 275 | 10.83 | 70 | | | 9.4 | 92 | 20.7 |
| RY3-350-2-570 | 355.6 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 279 | 10.98 | 30 | 40 | 436 | 16.4 | 161 | 36.2 |
| RY4-350-2-570 | 355.6 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 278 | 10.94 | 39 | 40 | 470 | 8.6 | 85 | 19.0 |
| RP5-350-2-570 | 355.6 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 275 | 10.83 | 80 | | | 13.7 | 134 | 30.2 |
| RY3-350-3-570 | 355.6 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 286 | 11.26 | 50 | 50 | 468 | 30.2 | 296 | 66.5 |
| RY4-350-3-570 | 355.6 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 291 | 11.46 | 51 | 50 | 520 | 16.3 | 160 | 35.9 |
| RP5-350-3-570 | 355.6 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 290 | 11.42 | 100 | | | 23.5 | 231 | 51.8 |
| RY3-350-4-570 | 355.6 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 301 | 11.85 | 60 | 70 | 489 | 40.9 | 401 | 90.1 |
| RY4-350-4-570 | 355.6 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 317 | 12.48 | 63 | 70 | 542 | 28.9 | 283 | 63.6 |
| RP5-350-4-570 | 355.6 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 320 | 12.60 | 110 | | | 35.0 | 344 | 77.2 |
| RY3-350-5-570 | 355.6 | 570 | 6324 | 62 | 13942 | 25 | 20 | 315 | 12.40 | 70 | 80 | 514 | 53.5 | 525 | 118.0 |
| RY4-350-5-570 | 355.6 | 570 | 6324 | 62 | 13942 | 25 | 20 | 344 | 13.54 | 79 | 80 | 578 | 58.5 | 574 | 129.0 |
| RP5-350-5-570 | 355.6 | 570 | 6324 | 62 | 13942 | 25 | 20 | 345 | 13.58 | 110 | | | 45.0 | 441 | 99.1 |
| RY4-350-6-570 | 355.6 | 570 | 12754 | 125 | 28117 | 35 | 25 | 385 | 15.16 | 86 | 90 | 610 | 73.0 | 716 | 160.9 |
| RP5-350-6-570 | 355.6 | 570 | 12754 | 125 | 28117 | 35 | 25 | 385 | 15.16 | 120 | | | 71.7 | 703 | 158.0 |
| RY4-350-7-570 | 355.6 | 570 | 18132 | 178 | 39974 | 40 | 28 | 398 | 15.67 | 102 | 100 | 638 | 99.2 | 973 | 218.7 |
| RP5-350-7-570 | 355.6 | 570 | 18132 | 178 | 39974 | 40 | 28 | 405 | 15.94 | 170 | | | 105.8 | 1038 | 233.3 |
| RY4-350-8-570 | 355.6 | 570 | 25524 | 250 | 56269 | 50 | 35 | 440 | 17.32 | 120 | 120 | 688 | 149.8 | 1469 | 330.2 |
| RP5-350-8-570 | 355.6 | 570 | 25524 | 250 | 56269 | 50 | 35 | 435 | 17.13 | 180 | | | 147.0 | 1442 | 324.1 |
| RY4-350-9-570 | 355.6 | 570 | 55135 | 541 | 121552 | 70 | 49 | 587 | 23.11 | 148 | 130 | 744 | 289.0 | 2834 | 637.1 |
| RY4-350-10-570 | 355.6 | 570 | 70330 | 690 | 155050 | 80 | 55 | 611 | 24.06 | 176 | 150 | 778 | 405.6 | 3978 | 894.2 |
| RY4-350-11-570 | 355.6 | 570 | 90785 | 890 | 200144 | 90 | 60 | 649 | 25.55 | 214 | 170 | 846 | 539.8 | 5294 | 1190.1 |




TYPE RY3 CLAMP

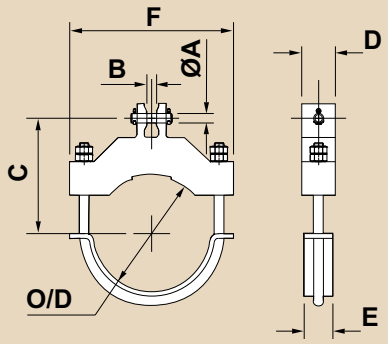



TYPE RY4 CLAMP

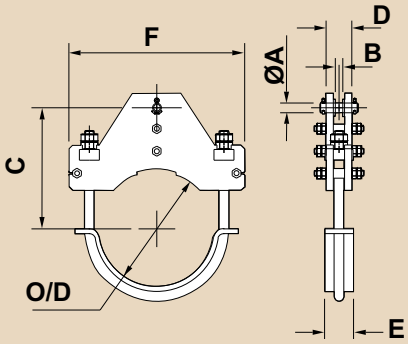



TYPE RP5 CLAMP

| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-400-1-400 | 406.4 | 400 | 423 | 4.15 | 933 | 10 | 9 | 304 | 11.97 | 20 | 20 | 454 | 10.7 | 104 | 23.5 |
| RY4-400-1-400 | 406.4 | 400 | 423 | 4.15 | 933 | 10 | 9 | 303 | 11.93 | 36 | 20 | 500 | 9.1 | 89 | 20.0 |
| RP5-400-1-400 | 406.4 | 400 | 423 | 4.15 | 933 | 10 | 9 | 300 | 11.81 | 50 | | | 6.2 | 61 | 13.7 |
| RY3-400-2-400 | 406.4 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 304 | 11.97 | 20 | 30 | 461 | 12.2 | 119 | 26.8 |
| RY4-400-2-400 | 406.4 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 303 | 11.93 | 39 | 30 | 510 | 8.0 | 79 | 17.7 |
| RP5-400-2-400 | 406.4 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 300 | 11.81 | 70 | | | 10.6 | 104 | 23.5 |
| RY3-400-3-400 | 406.4 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 311 | 12.24 | 30 | 40 | 486 | 20.6 | 202 | 45.5 |
| RY4-400-3-400 | 406.4 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 310 | 12.20 | 47 | 40 | 558 | 10.1 | 99 | 22.4 |
| RP5-400-3-400 | 406.4 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 315 | 12.40 | 100 | | | 20.1 | 197 | 44.3 |
| RY3-400-4-400 | 406.4 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 333 | 13.11 | 40 | 50 | 500 | 30.3 | 297 | 66.9 |
| RY4-400-4-400 | 406.4 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 320 | 12.60 | 57 | 50 | 578 | 16.3 | 160 | 35.9 |
| RP5-400-4-400 | 406.4 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 355 | 13.98 | 90 | | | 32.8 | 322 | 72.4 |
| RY3-400-5-400 | 406.4 | 400 | 6324 | 62 | 13942 | 25 | 20 | 347 | 13.66 | 50 | 50 | 518 | 40.5 | 397 | 89.3 |
| RY4-400-5-400 | 406.4 | 400 | 6324 | 62 | 13942 | 25 | 20 | 326 | 12.83 | 63 | 50 | 612 | 35.6 | 349 | 78.4 |
| RP5-400-5-400 | 406.4 | 400 | 6324 | 62 | 13942 | 25 | 20 | 370 | 14.57 | 120 | | | 45.7 | 448 | 100.8 |
| RY4-400-6-400 | 406.4 | 400 | 12754 | 125 | 28117 | 35 | 25 | 374 | 14.72 | 86 | 80 | 654 | 57.9 | 567 | 127.5 |
| RP5-400-6-400 | 406.4 | 400 | 12754 | 125 | 28117 | 35 | 25 | 430 | 16.93 | 120 | | | 82.9 | 813 | 182.9 |
| RY4-400-7-400 | 406.4 | 400 | 18132 | 178 | 39974 | 40 | 28 | 412 | 16.22 | 102 | 90 | 676 | 96.0 | 941 | 211.6 |
| RP5-400-7-400 | 406.4 | 400 | 18132 | 178 | 39974 | 40 | 28 | 435 | 17.13 | 140 | | | 97.0 | 951 | 213.8 |
| RY4-400-8-400 | 406.4 | 400 | 25524 | 250 | 56269 | 50 | 35 | 427 | 16.81 | 120 | 100 | 730 | 127.9 | 1254 | 282.0 |
| RP5-400-8-400 | 406.4 | 400 | 25524 | 250 | 56269 | 50 | 35 | 465 | 18.31 | 200 | | | 147.4 | 1445 | 324.9 |
| RY4-400-9-400 | 406.4 | 400 | 55135 | 541 | 121552 | 70 | 49 | 582 | 22.91 | 148 | 130 | 794 | 318.3 | 3122 | 701.8 |
| RY4-400-10-400 | 406.4 | 400 | 70330 | 690 | 155050 | 80 | 55 | 639 | 25.16 | 166 | 150 | 828 | 399.6 | 3919 | 881.0 |
| RY4-400-11-400 | 406.4 | 400 | 90785 | 890 | 200144 | 90 | 60 | 659 | 25.94 | 214 | 190 | 906 | 646.4 | 6339 | 1425.1 |
| RY3-400-1-490 | 406.4 | 490 | 423 | 4.15 | 933 | 10 | 9 | 304 | 11.97 | 20 | 20 | 454 | 10.7 | 104 | 23.5 |
| RY4-400-1-490 | 406.4 | 490 | 423 | 4.15 | 933 | 10 | 9 | 303 | 11.93 | 36 | 20 | 500 | 9.1 | 89 | 20.1 |
| RP5-400-1-490 | 406.4 | 490 | 423 | 4.15 | 933 | 10 | 9 | 300 | 11.81 | 50 | | | 6.2 | 61 | 13.7 |
| RY3-400-2-490 | 406.4 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 304 | 11.97 | 20 | 30 | 461 | 12.2 | 119 | 26.8 |
| RY4-400-2-490 | 406.4 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 303 | 11.93 | 39 | 30 | 510 | 8.0 | 79 | 17.7 |
| RP5-400-2-490 | 406.4 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 300 | 11.81 | 70 | | | 10.6 | 104 | 23.5 |
| RY3-400-3-490 | 406.4 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 311 | 12.24 | 30 | 40 | 486 | 20.5 | 201 | 45.2 |
| RY4-400-3-490 | 406.4 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 310 | 12.20 | 47 | 40 | 558 | 10.2 | 100 | 22.4 |
| RP5-400-3-490 | 406.4 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 310 | 12.20 | 100 | | | 19.7 | 193 | 43.4 |
| RY3-400-4-490 | 406.4 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 332 | 13.07 | 40 | 50 | 500 | 30.2 | 296 | 66.5 |
| RY4-400-4-490 | 406.4 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 320 | 12.60 | 57 | 50 | 578 | 15.9 | 156 | 35.1 |
| RP5-400-4-490 | 406.4 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 350 | 13.78 | 90 | | | 31.8 | 312 | 70.2 |
| RY3-400-5-490 | 406.4 | 490 | 6324 | 62 | 13942 | 25 | 20 | 345 | 13.58 | 50 | 50 | 518 | 40.3 | 396 | 89.0 |
| RY4-400-5-490 | 406.4 | 490 | 6324 | 62 | 13942 | 25 | 20 | 326 | 12.83 | 63 | 50 | 612 | 35.9 | 352 | 79.1 |
| RP5-400-5-490 | 406.4 | 490 | 6324 | 62 | 13942 | 25 | 20 | 365 | 14.37 | 110 | | | 40.7 | 399 | 89.8 |
| RY4-400-6-490 | 406.4 | 490 | 12754 | 125 | 28117 | 35 | 25 | 350 | 13.78 | 86 | 70 | 644 | 64.4 | 632 | 142.0 |
| RP5-400-6-490 | 406.4 | 490 | 12754 | 125 | 28117 | 35 | 25 | 395 | 15.55 | 160 | | | 75.7 | 743 | 167.0 |
| RY4-400-7-490 | 406.4 | 490 | 18132 | 178 | 39974 | 40 | 28 | 376 | 14.80 | 102 | 80 | 670 | 85.5 | 839 | 188.5 |
| RP5-400-7-490 | 406.4 | 490 | 18132 | 178 | 39974 | 40 | 28 | 430 | 16.93 | 130 | | | 87.8 | 861 | 193.6 |
| RY4-400-8-490 | 406.4 | 490 | 25524 | 250 | 56269 | 50 | 35 | 461 | 18.15 | 110 | 90 | 718 | 114.1 | 1119 | 251.6 |
| RP5-400-8-490 | 406.4 | 490 | 25524 | 250 | 56269 | 50 | 35 | 450 | 17.72 | 180 | | | 127.4 | 1250 | 280.9 |
| RY4-400-9-490 | 406.4 | 490 | 55135 | 541 | 121552 | 70 | 49 | 573 | 22.56 | 148 | 130 | 794 | 314.9 | 3088 | 694.3 |
| RY4-400-10-490 | 406.4 | 490 | 70330 | 690 | 155050 | 80 | 55 | 630 | 24.80 | 166 | 150 | 828 | 395.0 | 3873 | 870.7 |
| RY4-400-11-490 | 406.4 | 490 | 90785 | 890 | 200144 | 90 | 60 | 710 | 27.95 | 194 | 170 | 896 | 575.2 | 5641 | 1268.1 |




TYPE RY3 CLAMP

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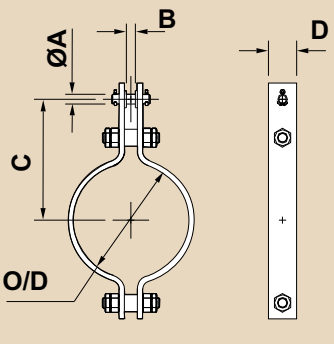
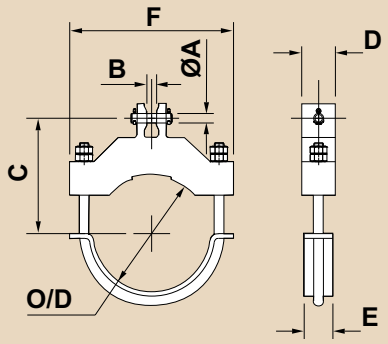
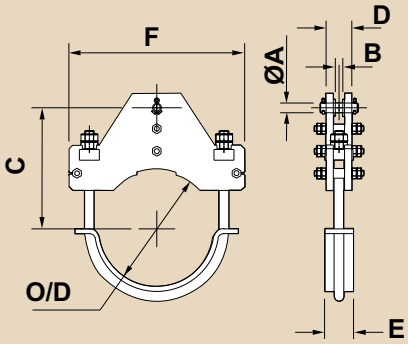



TYPE RP5 CLAMP

| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-400-1-530 | 406.4 | 530 | 423 | 4.15 | 933 | 10 | 9 | 304 | 11.97 | 20 | 30 | 461 | 11.4 | 112 | 25.2 |
| RY4-400-1-530 | 406.4 | 530 | 423 | 4.15 | 933 | 10 | 9 | 303 | 11.93 | 36 | 30 | 502 | 9.8 | 96 | 21.5 |
| RP5-400-1-530 | 406.4 | 530 | 423 | 4.15 | 933 | 10 | 9 | 300 | 11.81 | 50 | | | 6.2 | 61 | 13.7 |
| RY3-400-2-530 | 406.4 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 304 | 11.97 | 25 | 30 | 472 | 15.5 | 152 | 34.2 |
| RY4-400-2-530 | 406.4 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 303 | 11.93 | 39 | 30 | 516 | 7.5 | 74 | 16.6 |
| RP5-400-2-530 | 406.4 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 300 | 11.81 | 80 | | | 15.2 | 149 | 33.4 |
| RY3-400-3-530 | 406.4 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 311 | 12.24 | 40 | 50 | 500 | 27.5 | 270 | 60.6 |
| RY4-400-3-530 | 406.4 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 310 | 12.20 | 47 | 50 | 562 | 15.8 | 154 | 34.7 |
| RP5-400-3-530 | 406.4 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 320 | 12.60 | 100 | | | 26.5 | 260 | 58.5 |
| RY3-400-4-530 | 406.4 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 328 | 12.91 | 50 | 50 | 518 | 38.3 | 376 | 84.4 |
| RY4-400-4-530 | 406.4 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 321 | 12.64 | 57 | 50 | 586 | 24.8 | 244 | 54.8 |
| RP5-400-4-530 | 406.4 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 350 | 13.78 | 90 | | | 31.8 | 312 | 70.2 |
| RY3-400-5-530 | 406.4 | 530 | 6324 | 62 | 13942 | 25 | 20 | 342 | 13.46 | 60 | 70 | 539 | 50.4 | 494 | 111.2 |
| RY4-400-5-530 | 406.4 | 530 | 6324 | 62 | 13942 | 25 | 20 | 345 | 13.58 | 69 | 70 | 618 | 32.5 | 319 | 71.7 |
| RP5-400-5-530 | 406.4 | 530 | 6324 | 62 | 13942 | 25 | 20 | 375 | 14.76 | 100 | | | 45.0 | 442 | 99.3 |
| RY4-400-6-530 | 406.4 | 530 | 12754 | 125 | 28117 | 35 | 25 | 374 | 14.72 | 86 | 80 | 654 | 63.2 | 620 | 139.3 |
| RP5-400-6-530 | 406.4 | 530 | 12754 | 125 | 28117 | 35 | 25 | 410 | 16.14 | 120 | | | 77.3 | 758 | 170.4 |
| RY4-400-7-530 | 406.4 | 530 | 18132 | 178 | 39974 | 40 | 28 | 412 | 16.22 | 102 | 90 | 676 | 90.1 | 884 | 198.7 |
| RP5-400-7-530 | 406.4 | 530 | 18132 | 178 | 39974 | 40 | 28 | 430 | 16.93 | 150 | | | 100.8 | 989 | 222.3 |
| RY4-400-8-530 | 406.4 | 530 | 25524 | 250 | 56269 | 50 | 35 | 431 | 16.97 | 120 | 100 | 730 | 129.8 | 1273 | 286.3 |
| RP5-400-8-530 | 406.4 | 530 | 25524 | 250 | 56269 | 50 | 35 | 450 | 17.72 | 210 | | | 147.8 | 1449 | 325.8 |
| RY4-400-9-530 | 406.4 | 530 | 55135 | 541 | 121552 | 70 | 49 | 579 | 22.80 | 148 | 130 | 794 | 317.2 | 3111 | 699.3 |
| RY4-400-10-530 | 406.4 | 530 | 70330 | 690 | 155050 | 80 | 55 | 632 | 24.88 | 166 | 150 | 828 | 395.0 | 3873 | 870.8 |
| RY4-400-11-530 | 406.4 | 530 | 90785 | 890 | 200144 | 90 | 60 | 710 | 27.95 | 194 | 170 | 896 | 575.2 | 5641 | 1268.1 |
| RY3-400-1-570 | 406.4 | 570 | 423 | 4.15 | 933 | 10 | 9 | 304 | 11.97 | 25 | 30 | 472 | 14.8 | 145 | 32.7 |
| RY4-400-1-570 | 406.4 | 570 | 423 | 4.15 | 933 | 10 | 9 | 303 | 11.93 | 36 | 30 | 508 | 10.6 | 104 | 23.3 |
| RP5-400-1-570 | 406.4 | 570 | 423 | 4.15 | 933 | 10 | 9 | 300 | 11.81 | 70 | | | 10.4 | 102 | 23.0 |
| RY3-400-2-570 | 406.4 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 304 | 11.97 | 30 | 40 | 486 | 19.8 | 194 | 43.6 |
| RY4-400-2-570 | 406.4 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 303 | 11.93 | 39 | 40 | 520 | 8.7 | 86 | 19.3 |
| RP5-400-2-570 | 406.4 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 300 | 11.81 | 80 | | | 15.2 | 149 | 33.4 |
| RY3-400-3-570 | 406.4 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 311 | 12.24 | 50 | 50 | 518 | 35.8 | 351 | 78.9 |
| RY4-400-3-570 | 406.4 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 316 | 12.44 | 51 | 50 | 570 | 17.5 | 172 | 38.7 |
| RP5-400-3-570 | 406.4 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 320 | 12.60 | 100 | | | 26.5 | 260 | 58.5 |
| RY3-400-4-570 | 406.4 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 330 | 12.99 | 60 | 70 | 539 | 48.9 | 480 | 107.9 |
| RY4-400-4-570 | 406.4 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 342 | 13.46 | 63 | 70 | 592 | 29.6 | 291 | 65.3 |
| RP5-400-4-570 | 406.4 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 360 | 14.17 | 100 | | | 43.0 | 422 | 94.8 |
| RY3-400-5-570 | 406.4 | 570 | 6324 | 62 | 13942 | 25 | 20 | 344 | 13.54 | 70 | 80 | 564 | 63.6 | 623 | 140.2 |
| RY4-400-5-570 | 406.4 | 570 | 6324 | 62 | 13942 | 25 | 20 | 369 | 14.53 | 79 | 80 | 628 | 62.5 | 613 | 137.8 |
| RP5-400-5-570 | 406.4 | 570 | 6324 | 62 | 13942 | 25 | 20 | 375 | 14.76 | 130 | | | 58.2 | 571 | 128.4 |
| RY4-400-6-570 | 406.4 | 570 | 12754 | 125 | 28117 | 35 | 25 | 410 | 16.14 | 86 | 90 | 660 | 76.9 | 754 | 169.5 |
| RP5-400-6-570 | 406.4 | 570 | 12754 | 125 | 28117 | 35 | 25 | 410 | 16.14 | 130 | | | 83.6 | 820 | 184.3 |
| RY4-400-7-570 | 406.4 | 570 | 18132 | 178 | 39974 | 40 | 28 | 412 | 16.22 | 102 | 100 | 688 | 116.6 | 1144 | 257.1 |
| RP5-400-7-570 | 406.4 | 570 | 18132 | 178 | 39974 | 40 | 28 | 430 | 16.93 | 190 | | | 126.8 | 1244 | 279.6 |
| RY4-400-8-570 | 406.4 | 570 | 25524 | 250 | 56269 | 50 | 35 | 453 | 17.83 | 120 | 120 | 738 | 158.4 | 1554 | 349.3 |
| RP5-400-8-570 | 406.4 | 570 | 25524 | 250 | 56269 | 50 | 35 | 465 | 18.31 | 180 | | | 161.2 | 1581 | 355.3 |
| RY4-400-9-570 | 406.4 | 570 | 55135 | 541 | 121552 | 70 | 49 | 603 | 23.74 | 148 | 130 | 794 | 331.4 | 3250 | 730.6 |
| RY4-400-10-570 | 406.4 | 570 | 70330 | 690 | 155050 | 80 | 55 | 655 | 25.79 | 166 | 150 | 828 | 411.2 | 4032 | 906.5 |
| RY4-400-11-570 | 406.4 | 570 | 90785 | 890 | 200144 | 90 | 60 | 666 | 26.22 | 214 | 170 | 896 | 610.9 | 5991 | 1346.9 |




TYPE RY3 CLAMP

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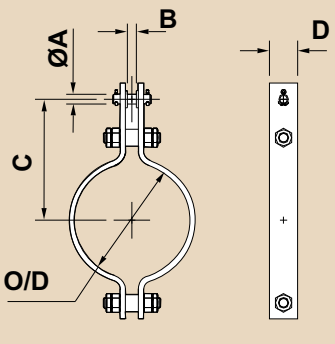
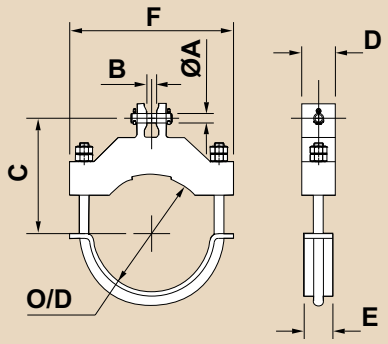
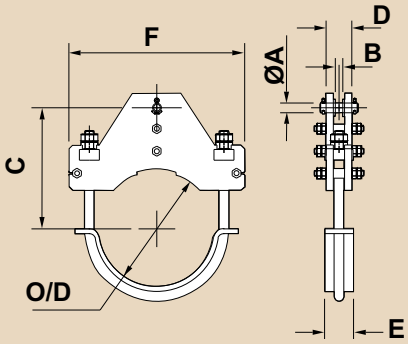



TYPE RP5 CLAMP

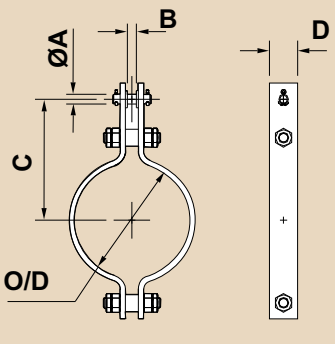
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-450-1-400 | 457.2 | 400 | 423 | 4.15 | 933 | 10 | 9 | 330 | 12.99 | 20 | 20 | 506 | 12.9 | 127 | 28.5 |
| RY4-450-1-400 | 457.2 | 400 | 423 | 4.15 | 933 | 10 | 9 | 329 | 12.95 | 36 | 20 | 552 | 7.5 | 74 | 16.6 |
| RP5-450-1-400 | 457.2 | 400 | 423 | 4.15 | 933 | 10 | 9 | 325 | 12.80 | 50 | | | 6.8 | 67 | 15.1 |
| RY3-450-2-400 | 457.2 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 330 | 12.99 | 20 | 30 | 513 | 14.7 | 144 | 32.3 |
| RY4-450-2-400 | 457.2 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 329 | 12.95 | 39 | 30 | 562 | 6.6 | 64 | 14.5 |
| RP5-450-2-400 | 457.2 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 325 | 12.80 | 80 | | | 13.6 | 133 | 30.0 |
| RY3-450-3-400 | 457.2 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 337 | 13.27 | 30 | 40 | 538 | 24.4 | 240 | 53.9 |
| RY4-450-3-400 | 457.2 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 336 | 13.23 | 47 | 40 | 610 | 12.4 | 121 | 27.3 |
| RP5-450-3-400 | 457.2 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 355 | 13.98 | 100 | | | 29.8 | 293 | 65.8 |
| RY3-450-4-400 | 457.2 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 364 | 14.33 | 40 | 50 | 552 | 36.4 | 357 | 80.3 |
| RY4-450-4-400 | 457.2 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 346 | 13.62 | 57 | 50 | 630 | 20.2 | 198 | 44.5 |
| RP5-450-4-400 | 457.2 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 380 | 14.96 | 90 | | | 35.6 | 349 | 78.5 |
| RY3-450-5-400 | 457.2 | 400 | 6324 | 62 | 13942 | 25 | 20 | 378 | 14.88 | 50 | 50 | 570 | 48.6 | 477 | 107.1 |
| RY4-450-5-400 | 457.2 | 400 | 6324 | 62 | 13942 | 25 | 20 | 352 | 13.86 | 63 | 50 | 664 | 40.4 | 397 | 89.2 |
| RP5-450-5-400 | 457.2 | 400 | 6324 | 62 | 13942 | 25 | 20 | 405 | 15.94 | 100 | | | 50.1 | 491 | 110.4 |
| RY4-450-6-400 | 457.2 | 400 | 12754 | 125 | 28117 | 35 | 25 | 400 | 15.75 | 86 | 80 | 706 | 60.6 | 595 | 133.7 |
| RP5-450-6-400 | 457.2 | 400 | 12754 | 125 | 28117 | 35 | 25 | 455 | 17.91 | 120 | | | 88.8 | 870 | 195.7 |
| RY4-450-7-400 | 457.2 | 400 | 18132 | 178 | 39974 | 40 | 28 | 438 | 17.24 | 92 | 90 | 728 | 109.0 | 1069 | 240.3 |
| RP5-450-7-400 | 457.2 | 400 | 18132 | 178 | 39974 | 40 | 28 | 485 | 19.09 | 160 | | | 124.8 | 1224 | 275.2 |
| RY4-450-8-400 | 457.2 | 400 | 25524 | 250 | 56269 | 50 | 35 | 478 | 18.82 | 110 | 100 | 782 | 133.2 | 1306 | 293.6 |
| RP5-450-8-400 | 457.2 | 400 | 25524 | 250 | 56269 | 50 | 35 | 500 | 19.69 | 220 | | | 178.5 | 1751 | 393.6 |
| RY4-450-9-400 | 457.2 | 400 | 55135 | 541 | 121552 | 70 | 49 | 598 | 23.54 | 148 | 130 | 846 | 301.0 | 2951 | 663.5 |
| RY4-450-10-400 | 457.2 | 400 | 70330 | 690 | 155050 | 80 | 55 | 656 | 25.83 | 166 | 150 | 880 | 426.6 | 4183 | 940.4 |
| RY4-450-11-400 | 457.2 | 400 | 90785 | 890 | 200144 | 90 | 60 | 736 | 28.98 | 194 | 190 | 958 | 601.2 | 5895 | 1325.3 |
| 513-450-1-490 | 457.2 | 490 | 423 | 4.15 | 933 | 10 | 9 | 330 | 12.99 | 20 | 20 | 506 | 12.9 | 127 | 28.5 |
| RY4-450-1-490 | 457.2 | 490 | 423 | 4.15 | 933 | 10 | 9 | 329 | 12.95 | 36 | 20 | 552 | 7.5 | 74 | 16.6 |
| RP5-450-1-490 | 457.2 | 490 | 423 | 4.15 | 933 | 10 | 9 | 325 | 12.80 | 50 | | | 6.8 | 67 | 15.1 |
| RY3-450-2-490 | 457.2 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 330 | 12.99 | 20 | 30 | 513 | 14.6 | 143 | 32.1 |
| RY4-450-2-490 | 457.2 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 329 | 12.95 | 39 | 30 | 562 | 6.6 | 65 | 14.5 |
| RP5-450-2-490 | 457.2 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 325 | 12.80 | 70 | | | 11.7 | 115 | 25.8 |
| RY3-450-3-490 | 457.2 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 337 | 13.27 | 30 | 40 | 538 | 24.4 | 240 | 53.9 |
| RY4-450-3-490 | 457.2 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 336 | 13.23 | 47 | 40 | 610 | 12.4 | 121 | 27.3 |
| RP5-450-3-490 | 457.2 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 335 | 13.19 | 100 | | | 21.5 | 211 | 47.5 |
| RY3-450-4-490 | 457.2 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 363 | 14.29 | 40 | 50 | 552 | 36.2 | 355 | 79.7 |
| RY4-450-4-490 | 457.2 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 346 | 13.62 | 57 | 50 | 630 | 19.4 | 190 | 42.8 |
| RP5-450-4-490 | 457.2 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 375 | 14.76 | 90 | | | 34.6 | 339 | 76.3 |
| RY3-450-5-490 | 457.2 | 490 | 6324 | 62 | 13942 | 25 | 20 | 376 | 14.80 | 50 | 50 | 570 | 48.3 | 473 | 106.4 |
| RY4-450-5-490 | 457.2 | 490 | 6324 | 62 | 13942 | 25 | 20 | 352 | 13.86 | 63 | 50 | 664 | 40.5 | 397 | 89.2 |
| RP5-450-5-490 | 457.2 | 490 | 6324 | 62 | 13942 | 25 | 20 | 390 | 15.35 | 120 | | | 48.0 | 471 | 105.8 |
| RY4-450-6-490 | 457.2 | 490 | 12754 | 125 | 28117 | 35 | 25 | 376 | 14.80 | 86 | 70 | 696 | 70.9 | 695 | 156.3 |
| RP5-450-6-490 | 457.2 | 490 | 12754 | 125 | 28117 | 35 | 25 | 440 | 17.32 | 120 | | | 83.9 | 823 | 184.9 |
| RY4-450-7-490 | 457.2 | 490 | 18132 | 178 | 39974 | 40 | 28 | 429 | 16.89 | 92 | 80 | 722 | 99.9 | 979 | 220.2 |
| RP5-450-7-490 | 457.2 | 490 | 18132 | 178 | 39974 | 40 | 28 | 460 | 18.11 | 140 | | | 102.0 | 1000 | 224.8 |
| RY4-450-8-490 | 457.2 | 490 | 25524 | 250 | 56269 | 50 | 35 | 475 | 18.70 | 110 | 90 | 770 | 119.6 | 1173 | 263.7 |
| RP5-450-8-490 | 457.2 | 490 | 25524 | 250 | 56269 | 50 | 35 | 480 | 18.90 | 200 | | | 151.8 | 1489 | 334.7 |
| RY4-450-9-490 | 457.2 | 490 | 55135 | 541 | 121552 | 70 | 49 | 590 | 23.23 | 148 | 130 | 846 | 297.1 | 2913 | 655.0 |
| RY4-450-10-490 | 457.2 | 490 | 70330 | 690 | 155050 | 80 | 55 | 648 | 25.51 | 166 | 150 | 880 | 423.3 | 4151 | 933.3 |
| RY4-450-11-490 | 457.2 | 490 | 90785 | 890 | 200144 | 90 | 60 | 728 | 28.66 | 194 | 170 | 948 | 553.5 | 5428 | 1220.2 |




TYPE RY3 CLAMP

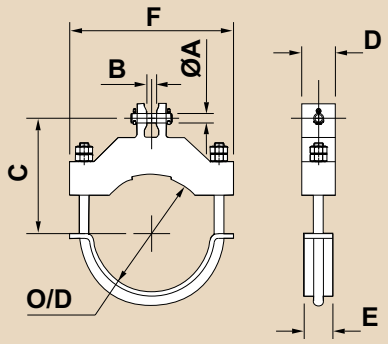



TYPE RY4 CLAMP

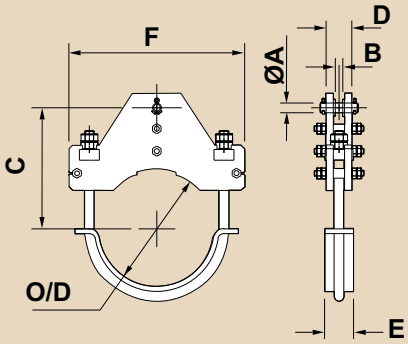



TYPE RP5 CLAMP

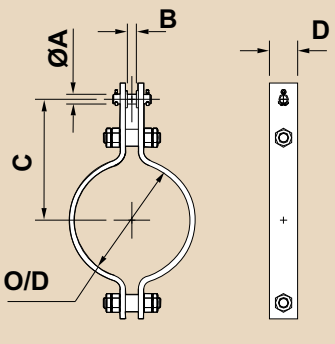
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-450-1-530 | 457.2 | 530 | 423 | 4.15 | 933 | 10 | 9 | 330 | 12.99 | 20 | 30 | 513 | 13.8 | 135 | 30.4 |
| RY4-450-1-530 | 457.2 | 530 | 423 | 4.15 | 933 | 10 | 9 | 329 | 12.95 | 36 | 30 | 554 | 8.3 | 81 | 18.2 |
| RP5-450-1-530 | 457.2 | 530 | 423 | 4.15 | 933 | 10 | 9 | 325 | 12.80 | 50 | | | 6.8 | 67 | 15.1 |
| RY3-450-2-530 | 457.2 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 330 | 12.99 | 25 | 30 | 524 | 18.5 | 182 | 40.9 |
| RY4-450-2-530 | 457.2 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 329 | 12.95 | 39 | 30 | 568 | 7.4 | 72 | 16.3 |
| RP5-450-2-530 | 457.2 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 325 | 12.80 | 80 | | | 16.6 | 163 | 36.7 |
| RY3-450-3-530 | 457.2 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 337 | 13.27 | 40 | 50 | 552 | 32.6 | 320 | 71.9 |
| RY4-450-3-530 | 457.2 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 336 | 13.23 | 47 | 50 | 614 | 20.5 | 201 | 45.2 |
| RP5-450-3-530 | 457.2 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 345 | 13.58 | 100 | | | 29.0 | 285 | 64.0 |
| RY3-450-4-530 | 457.2 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 358 | 14.09 | 50 | 50 | 570 | 45.3 | 445 | 99.9 |
| RY4-450-4-530 | 457.2 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 347 | 13.66 | 57 | 50 | 638 | 30.9 | 303 | 68.1 |
| RP5-450-4-530 | 457.2 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 375 | 14.76 | 90 | | | 34.6 | 339 | 76.3 |
| RY3-450-5-530 | 457.2 | 530 | 6324 | 62 | 13942 | 25 | 20 | 372 | 14.65 | 60 | 70 | 591 | 60.0 | 588 | 132.3 |
| RY4-450-5-530 | 457.2 | 530 | 6324 | 62 | 13942 | 25 | 20 | 371 | 14.61 | 69 | 70 | 670 | 36.0 | 353 | 79.4 |
| RP5-450-5-530 | 457.2 | 530 | 6324 | 62 | 13942 | 25 | 20 | 400 | 15.75 | 100 | | | 48.7 | 478 | 107.4 |
| RY4-450-6-530 | 457.2 | 530 | 12754 | 125 | 28117 | 35 | 25 | 400 | 15.75 | 86 | 80 | 706 | 68.4 | 671 | 150.8 |
| RP5-450-6-530 | 457.2 | 530 | 12754 | 125 | 28117 | 35 | 25 | 440 | 17.32 | 120 | | | 83.9 | 823 | 184.9 |
| RY4-450-7-530 | 457.2 | 530 | 18132 | 178 | 39974 | 40 | 28 | 438 | 17.24 | 92 | 90 | 728 | 113.9 | 1117 | 251.1 |
| RP5-450-7-530 | 457.2 | 530 | 18132 | 178 | 39974 | 40 | 28 | 460 | 18.11 | 160 | | | 116.1 | 1138 | 255.9 |
| RY4-450-8-530 | 457.2 | 530 | 25524 | 250 | 56269 | 50 | 35 | 479 | 18.86 | 110 | 100 | 782 | 133.9 | 1313 | 295.2 |
| RP5-450-8-530 | 457.2 | 530 | 25524 | 250 | 56269 | 50 | 35 | 495 | 19.49 | 180 | | | 173.4 | 1700 | 382.2 |
| RY4-450-9-530 | 457.2 | 530 | 55135 | 541 | 121552 | 70 | 49 | 594 | 23.39 | 148 | 130 | 846 | 298.8 | 2931 | 658.8 |
| RY4-450-10-530 | 457.2 | 530 | 70330 | 690 | 155050 | 80 | 55 | 649 | 25.55 | 166 | 150 | 880 | 423.9 | 4157 | 934.6 |
| RY4-450-11-530 | 457.2 | 530 | 90785 | 890 | 200144 | 90 | 60 | 728 | 28.66 | 194 | 170 | 948 | 553.5 | 5428 | 1220.2 |
| RY3-450-1-570 | 457.2 | 570 | 423 | 4.15 | 933 | 10 | 9 | 330 | 12.99 | 25 | 30 | 524 | 17.7 | 173 | 39.0 |
| RY4-450-1-570 | 457.2 | 570 | 423 | 4.15 | 933 | 10 | 9 | 329 | 12.95 | 36 | 30 | 560 | 8.0 | 79 | 17.7 |
| RP5-450-1-570 | 457.2 | 570 | 423 | 4.15 | 933 | 10 | 9 | 325 | 12.80 | 70 | | | 11.5 | 112 | 25.3 |
| RY3-450-2-570 | 457.2 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 330 | 12.99 | 30 | 40 | 538 | 23.5 | 231 | 51.9 |
| RY4-450-2-570 | 457.2 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 329 | 12.95 | 39 | 40 | 572 | 12.2 | 120 | 27.0 |
| RP5-450-2-570 | 457.2 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 325 | 12.80 | 100 | | | 20.8 | 204 | 45.8 |
| RY3-450-3-570 | 457.2 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 337 | 13.27 | 50 | 50 | 570 | 42.3 | 414 | 93.2 |
| RY4-450-3-570 | 457.2 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 342 | 13.46 | 51 | 50 | 622 | 22.4 | 220 | 49.4 |
| RP5-450-3-570 | 457.2 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 345 | 13.58 | 100 | | | 29.0 | 285 | 64.0 |
| RY3-450-4-570 | 457.2 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 359 | 14.13 | 60 | 70 | 591 | 58.2 | 571 | 128.3 |
| RY4-450-4-570 | 457.2 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 368 | 14.49 | 63 | 70 | 644 | 32.5 | 318 | 71.6 |
| RP5-450-4-570 | 457.2 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 385 | 15.16 | 100 | | | 46.6 | 457 | 102.8 |
| RY3-450-5-570 | 457.2 | 570 | 6324 | 62 | 13942 | 25 | 20 | 374 | 14.72 | 70 | 80 | 616 | 74.8 | 734 | 164.9 |
| RY4-450-5-570 | 457.2 | 570 | 6324 | 62 | 13942 | 25 | 20 | 395 | 15.55 | 79 | 80 | 680 | 62.5 | 613 | 137.7 |
| RP5-450-5-570 | 457.2 | 570 | 6324 | 62 | 13942 | 25 | 20 | 400 | 15.75 | 140 | | | 67.8 | 665 | 149.4 |
| RY4-450-6-570 | 457.2 | 570 | 12754 | 125 | 28117 | 35 | 25 | 436 | 17.17 | 86 | 90 | 712 | 81.2 | 797 | 179.1 |
| RP5-450-6-570 | 457.2 | 570 | 12754 | 125 | 28117 | 35 | 25 | 440 | 17.32 | 150 | | | 104.3 | 1023 | 230.0 |
| RY4-450-7-570 | 457.2 | 570 | 18132 | 178 | 39974 | 40 | 28 | 438 | 17.24 | 102 | 100 | 740 | 128.0 | 1255 | 282.2 |
| RP5-450-7-570 | 457.2 | 570 | 18132 | 178 | 39974 | 40 | 28 | 460 | 18.11 | 210 | | | 151.3 | 1484 | 333.6 |
| RY4-450-8-570 | 457.2 | 570 | 25524 | 250 | 56269 | 50 | 35 | 479 | 18.86 | 120 | 120 | 790 | 164.7 | 1615 | 363.1 |
| RP5-450-8-570 | 457.2 | 570 | 25524 | 250 | 56269 | 50 | 35 | 495 | 19.49 | 180 | | | 173.4 | 1700 | 382.2 |
| RY4-450-9-570 | 457.2 | 570 | 55135 | 541 | 121552 | 70 | 49 | 620 | 24.41 | 148 | 130 | 846 | 313.9 | 3079 | 692.1 |
| RY4-450-10-570 | 457.2 | 570 | 70330 | 690 | 155050 | 80 | 55 | 674 | 26.54 | 166 | 150 | 880 | 441.1 | 4326 | 972.4 |
| RY4-450-11-570 | 457.2 | 570 | 90785 | 890 | 200144 | 90 | 60 | 682 | 26.85 | 214 | 170 | 948 | 578.7 | 5675 | 1275.7 |




TYPE RY3 CLAMP

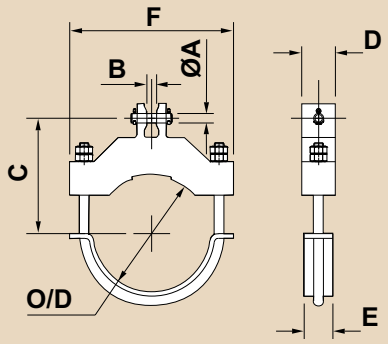



TYPE RY4 CLAMP

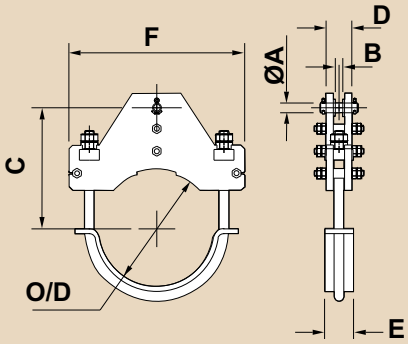



TYPE RP5 CLAMP

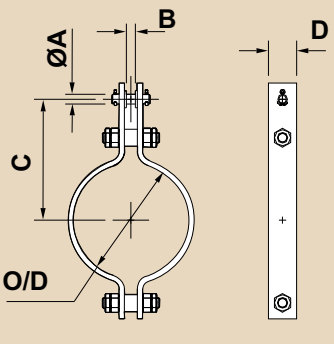
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-500-1-400 | 508 | 400 | 423 | 4.15 | 933 | 10 | 9 | 356 | 14.02 | 25 | 20 | 558 | 18.4 | 181 | 40.6 |
| RY4-500-1-400 | 508 | 400 | 423 | 4.15 | 933 | 10 | 9 | 356 | 14.02 | 40 | 20 | 604 | 7.5 | 73 | 16.4 |
| RP5-500-1-400 | 508 | 400 | 423 | 4.15 | 933 | 10 | 9 | 355 | 13.98 | 50 | | | 7.5 | 74 | 16.6 |
| RY3-500-2-400 | 508 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 356 | 14.02 | 25 | 30 | 565 | 20.6 | 202 | 45.5 |
| RY4-500-2-400 | 508 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 356 | 14.02 | 43 | 30 | 614 | 7.3 | 71 | 16.0 |
| RP5-500-2-400 | 508 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 355 | 13.98 | 80 | | | 14.9 | 146 | 32.8 |
| RY3-500-3-400 | 508 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 369 | 14.53 | 30 | 40 | 590 | 28.9 | 284 | 63.8 |
| RY4-500-3-400 | 508 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 362 | 14.25 | 51 | 40 | 662 | 15.5 | 152 | 34.2 |
| RP5-500-3-400 | 508 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 380 | 14.96 | 100 | | | 32.3 | 317 | 71.2 |
| RY3-500-4-400 | 508 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 397 | 15.63 | 40 | 50 | 604 | 42.8 | 420 | 94.4 |
| RY4-500-4-400 | 508 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 373 | 14.69 | 57 | 50 | 682 | 28.5 | 280 | 62.9 |
| RP5-500-4-400 | 508 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 410 | 16.14 | 90 | | | 38.7 | 380 | 85.4 |
| RY3-500-5-400 | 508 | 400 | 6324 | 62 | 13942 | 25 | 20 | 411 | 16.18 | 50 | 50 | 622 | 57.3 | 562 | 126.4 |
| RY4-500-5-400 | 508 | 400 | 6324 | 62 | 13942 | 25 | 20 | 378 | 14.88 | 63 | 50 | 716 | 39.4 | 386 | 86.8 |
| RP5-500-5-400 | 508 | 400 | 6324 | 62 | 13942 | 25 | 20 | 435 | 17.13 | 100 | | | 54.2 | 532 | 119.6 |
| RY4-500-6-400 | 508 | 400 | 12754 | 125 | 28117 | 35 | 25 | 428 | 16.85 | 86 | 80 | 758 | 64.1 | 629 | 141.4 |
| RP5-500-6-400 | 508 | 400 | 12754 | 125 | 28117 | 35 | 25 | 485 | 19.09 | 120 | | | 95.3 | 935 | 210.1 |
| RY4-500-7-400 | 508 | 400 | 18132 | 178 | 39974 | 40 | 28 | 466 | 18.35 | 92 | 90 | 780 | 115.0 | 1128 | 253.5 |
| RP5-500-7-400 | 508 | 400 | 18132 | 178 | 39974 | 40 | 28 | 510 | 20.08 | 170 | | | 140.5 | 1378 | 309.7 |
| RY4-500-8-400 | 508 | 400 | 25524 | 250 | 56269 | 50 | 35 | 494 | 19.45 | 110 | 100 | 834 | 156.7 | 1537 | 345.4 |
| RP5-500-8-400 | 508 | 400 | 25524 | 250 | 56269 | 50 | 35 | 545 | 21.46 | 180 | | | 197.8 | 1940 | 436.1 |
| RY4-500-9-400 | 508 | 400 | 55135 | 541 | 121552 | 70 | 49 | 613 | 24.13 | 148 | 130 | 898 | 348.1 | 3414 | 767.4 |
| RY4-500-10-400 | 508 | 400 | 70330 | 690 | 155050 | 80 | 55 | 672 | 26.46 | 166 | 150 | 932 | 423.2 | 4151 | 933.1 |
| RY4-500-11-400 | 508 | 400 | 90785 | 890 | 200144 | 90 | 60 | 752 | 29.61 | 194 | 190 | 1010 | 699.5 | 6860 | 1542.1 |
| RY3-500-1-490 | 508 | 490 | 423 | 4.15 | 933 | 10 | 9 | 356 | 14.02 | 25 | 20 | 558 | 18.4 | 181 | 40.6 |
| RY4-500-1-490 | 508 | 490 | 423 | 4.15 | 933 | 10 | 9 | 356 | 14.02 | 40 | 20 | 604 | 7.5 | 73 | 16.5 |
| RP5-500-1-490 | 508 | 490 | 423 | 4.15 | 933 | 10 | 9 | 355 | 13.98 | 50 | | | 7.5 | 74 | 16.6 |
| RY3-500-2-490 | 508 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 356 | 14.02 | 25 | 30 | 565 | 20.6 | 202 | 45.5 |
| RY4-500-2-490 | 508 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 356 | 14.02 | 43 | 30 | 614 | 7.3 | 71 | 16.0 |
| RP5-500-2-490 | 508 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 355 | 13.98 | 80 | | | 14.6 | 143 | 32.2 |
| RY3-500-3-490 | 508 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 368 | 14.49 | 30 | 40 | 590 | 28.9 | 283 | 63.7 |
| RY4-500-3-490 | 508 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 362 | 14.25 | 51 | 40 | 662 | 15.5 | 152 | 34.3 |
| RP5-500-3-490 | 508 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 370 | 14.57 | 100 | | | 31.5 | 309 | 69.5 |
| RY3-500-4-490 | 508 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 395 | 15.55 | 40 | 50 | 604 | 42.5 | 417 | 93.6 |
| RY4-500-4-490 | 508 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 373 | 14.69 | 57 | 50 | 682 | 28.5 | 280 | 62.9 |
| RP5-500-4-490 | 508 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 400 | 15.75 | 90 | | | 37.4 | 366 | 82.4 |
| RY3-500-5-490 | 508 | 490 | 6324 | 62 | 13942 | 25 | 20 | 409 | 16.10 | 50 | 50 | 622 | 56.9 | 558 | 125.4 |
| RY4-500-5-490 | 508 | 490 | 6324 | 62 | 13942 | 25 | 20 | 378 | 14.88 | 63 | 50 | 716 | 38.3 | 375 | 84.4 |
| RP5-500-5-490 | 508 | 490 | 6324 | 62 | 13942 | 25 | 20 | 430 | 16.93 | 100 | | | 52.9 | 518 | 116.5 |
| RY4-500-6-490 | 508 | 490 | 12754 | 125 | 28117 | 35 | 25 | 404 | 15.91 | 86 | 70 | 748 | 71.5 | 701 | 157.5 |
| RP5-500-6-490 | 508 | 490 | 12754 | 125 | 28117 | 35 | 25 | 480 | 18.90 | 120 | | | 93.0 | 912 | 205.0 |
| RY4-500-7-490 | 508 | 490 | 18132 | 178 | 39974 | 40 | 28 | 444 | 17.48 | 92 | 80 | 774 | 104.5 | 1025 | 230.3 |
| RP5-500-7-490 | 508 | 490 | 18132 | 178 | 39974 | 40 | 28 | 485 | 19.09 | 150 | | | 116.3 | 1140 | 256.4 |
| RY4-500-8-490 | 508 | 490 | 25524 | 250 | 56269 | 50 | 35 | 490 | 19.29 | 110 | 90 | 822 | 144.5 | 1417 | 318.5 |
| RP5-500-8-490 | 508 | 490 | 25524 | 250 | 56269 | 50 | 35 | 505 | 19.88 | 220 | | | 177.1 | 1737 | 390.4 |
| RY4-500-9-490 | 508 | 490 | 55135 | 541 | 121552 | 70 | 49 | 605 | 23.82 | 148 | 130 | 898 | 341.9 | 3353 | 753.7 |
| RY4-500-10-490 | 508 | 490 | 70330 | 690 | 155050 | 80 | 55 | 663 | 26.10 | 166 | 150 | 932 | 417.9 | 4098 | 921.3 |
| RY4-500-11-490 | 508 | 490 | 90785 | 890 | 200144 | 90 | 60 | 745 | 29.33 | 194 | 170 | 1000 | 639.3 | 6269 | 1409.3 |




TYPE RY3 CLAMP

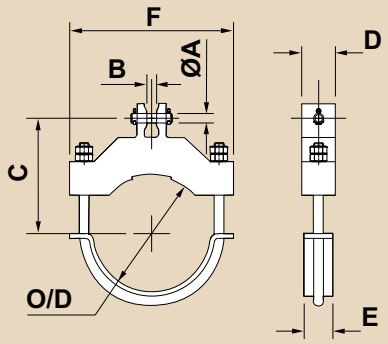



TYPE RY4 CLAMP

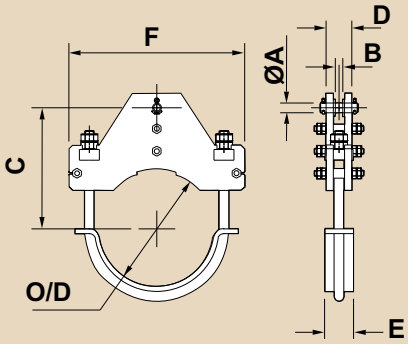



TYPE RP5 CLAMP

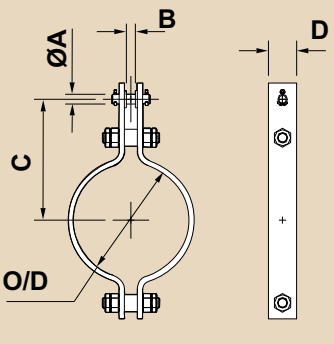
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-500-1-530 | 508 | 530 | 423 | 4.15 | 933 | 10 | 9 | 356 | 14.02 | 25 | 30 | 565 | 19.4 | 191 | 42.9 |
| RY4-500-1-530 | 508 | 530 | 423 | 4.15 | 933 | 10 | 9 | 356 | 14.02 | 40 | 30 | 606 | 8.3 | 81 | 18.2 |
| RP5-500-1-530 | 508 | 530 | 423 | 4.15 | 933 | 10 | 9 | 355 | 13.98 | 60 | | | 9.0 | 88 | 19.8 |
| RY3-500-2-530 | 508 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 356 | 14.02 | 25 | 30 | 576 | 21.7 | 213 | 47.9 |
| RY4-500-2-530 | 508 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 356 | 14.02 | 43 | 30 | 620 | 8.9 | 87 | 19.6 |
| RP5-500-2-530 | 508 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 355 | 13.98 | 80 | | | 18.3 | 180 | 40.4 |
| RY3-500-3-530 | 508 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 363 | 14.29 | 40 | 50 | 604 | 38.1 | 374 | 84.1 |
| RY4-500-3-530 | 508 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 362 | 14.25 | 51 | 50 | 666 | 25.1 | 246 | 55.2 |
| RP5-500-3-530 | 508 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 370 | 14.57 | 100 | | | 31.5 | 309 | 69.5 |
| RY3-500-4-530 | 508 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 390 | 15.35 | 50 | 50 | 622 | 53.2 | 522 | 117.3 |
| RY4-500-4-530 | 508 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 372 | 14.65 | 57 | 50 | 690 | 36.2 | 355 | 79.8 |
| RP5-500-4-530 | 508 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 400 | 15.75 | 100 | | | 41.4 | 406 | 91.4 |
| RY3-500-5-530 | 508 | 530 | 6324 | 62 | 13942 | 25 | 20 | 405 | 15.94 | 60 | 70 | 643 | 70.6 | 692 | 155.5 |
| RY4-500-5-530 | 508 | 530 | 6324 | 62 | 13942 | 25 | 20 | 399 | 15.71 | 69 | 70 | 722 | 38.9 | 381 | 85.7 |
| RP5-500-5-530 | 508 | 530 | 6324 | 62 | 13942 | 25 | 20 | 430 | 16.93 | 110 | | | 58.0 | 569 | 128.0 |
| RY4-500-6-530 | 508 | 530 | 12754 | 125 | 28117 | 35 | 25 | 428 | 16.85 | 86 | 80 | 758 | 69.3 | 680 | 152.8 |
| RP5-500-6-530 | 508 | 530 | 12754 | 125 | 28117 | 35 | 25 | 465 | 18.31 | 120 | | | 89.7 | 880 | 197.7 |
| RY4-500-7-530 | 508 | 530 | 18132 | 178 | 39974 | 40 | 28 | 466 | 18.35 | 92 | 90 | 780 | 121.7 | 1193 | 268.3 |
| RP5-500-7-530 | 508 | 530 | 18132 | 178 | 39974 | 40 | 28 | 485 | 19.09 | 170 | | | 131.4 | 1288 | 289.6 |
| RY4-500-8-530 | 508 | 530 | 25524 | 250 | 56269 | 50 | 35 | 494 | 19.45 | 110 | 100 | 834 | 157.1 | 1541 | 346.4 |
| RP5-500-8-530 | 508 | 530 | 25524 | 250 | 56269 | 50 | 35 | 525 | 20.67 | 180 | | | 185.5 | 1819 | 409.0 |
| RY4-500-9-530 | 508 | 530 | 55135 | 541 | 121552 | 70 | 49 | 610 | 24.02 | 148 | 130 | 898 | 345.0 | 3383 | 760.5 |
| RY4-500-10-530 | 508 | 530 | 70330 | 690 | 155050 | 80 | 55 | 665 | 26.18 | 166 | 150 | 932 | 417.3 | 4092 | 919.9 |
| RY4-500-11-530 | 508 | 530 | 90785 | 890 | 200144 | 90 | 60 | 745 | 29.33 | 194 | 170 | 1000 | 639.3 | 6269 | 1409.3 |
| RY3-500-1-570 | 508 | 570 | 423 | 4.15 | 933 | 10 | 9 | 356 | 14.02 | 25 | 30 | 576 | 20.8 | 204 | 45.9 |
| RY4-500-1-570 | 508 | 570 | 423 | 4.15 | 933 | 10 | 9 | 356 | 14.02 | 40 | 30 | 612 | 9.0 | 88 | 19.7 |
| RP5-500-1-570 | 508 | 570 | 423 | 4.15 | 933 | 10 | 9 | 355 | 13.98 | 70 | | | 12.6 | 123 | 27.7 |
| RY3-500-2-570 | 508 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 356 | 14.02 | 30 | 40 | 590 | 27.5 | 270 | 60.6 |
| RY4-500-2-570 | 508 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 356 | 14.02 | 43 | 40 | 624 | 15.3 | 150 | 33.7 |
| RP5-500-2-570 | 508 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 355 | 13.98 | 100 | | | 22.9 | 224 | 50.4 |
| RY3-500-3-570 | 508 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 364 | 14.33 | 50 | 50 | 622 | 49.1 | 481 | 108.2 |
| RY4-500-3-570 | 508 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 370 | 14.57 | 51 | 50 | 674 | 35.6 | 350 | 78.6 |
| RP5-500-3-570 | 508 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 370 | 14.57 | 110 | | | 34.6 | 340 | 76.4 |
| RY3-500-4-570 | 508 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 390 | 15.35 | 60 | 70 | 643 | 67.5 | 662 | 148.9 |
| RY4-500-4-570 | 508 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 396 | 15.59 | 63 | 70 | 696 | 35.6 | 349 | 78.5 |
| RP5-500-4-570 | 508 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 410 | 16.14 | 100 | | | 50.3 | 494 | 111.0 |
| RY3-500-5-570 | 508 | 570 | 6324 | 62 | 13942 | 25 | 20 | 406 | 15.98 | 70 | 80 | 668 | 87.2 | 855 | 192.2 |
| RY4-500-5-570 | 508 | 570 | 6324 | 62 | 13942 | 25 | 20 | 423 | 16.65 | 79 | 80 | 732 | 64.9 | 636 | 143.0 |
| RP5-500-5-570 | 508 | 570 | 6324 | 62 | 13942 | 25 | 20 | 430 | 16.93 | 150 | | | 78.8 | 773 | 173.7 |
| RY4-500-6-570 | 508 | 570 | 12754 | 125 | 28117 | 35 | 25 | 464 | 18.27 | 86 | 90 | 764 | 85.0 | 833 | 187.4 |
| RP5-500-6-570 | 508 | 570 | 12754 | 125 | 28117 | 35 | 25 | 465 | 18.31 | 150 | | | 111.6 | 1094 | 246.0 |
| RY4-500-7-570 | 508 | 570 | 18132 | 178 | 39974 | 40 | 28 | 466 | 18.35 | 102 | 100 | 792 | 129.4 | 1268 | 285.2 |
| RP5-500-7-570 | 508 | 570 | 18132 | 178 | 39974 | 40 | 28 | 485 | 19.09 | 220 | | | 169.0 | 1658 | 372.6 |
| RY4-500-8-570 | 508 | 570 | 25524 | 250 | 56269 | 50 | 35 | 516 | 20.31 | 110 | 120 | 842 | 187.8 | 1842 | 414.1 |
| RP5-500-8-570 | 508 | 570 | 25524 | 250 | 56269 | 50 | 35 | 525 | 20.67 | 190 | | | 195.5 | 1917 | 431.1 |
| RY4-500-9-570 | 508 | 570 | 55135 | 541 | 121552 | 70 | 49 | 636 | 25.04 | 148 | 130 | 898 | 360.9 | 3539 | 795.6 |
| RY4-500-10-570 | 508 | 570 | 70330 | 690 | 155050 | 80 | 55 | 688 | 27.09 | 166 | 150 | 932 | 436.0 | 4275 | 961.1 |
| RY4-500-11-570 | 508 | 570 | 90785 | 890 | 200144 | 90 | 60 | 757 | 29.80 | 194 | 170 | 1000 | 651.1 | 6385 | 1435.3 |




TYPE RY3 CLAMP

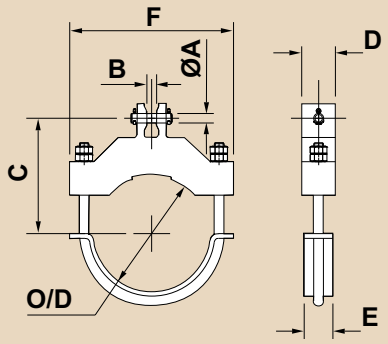



TYPE RY4 CLAMP

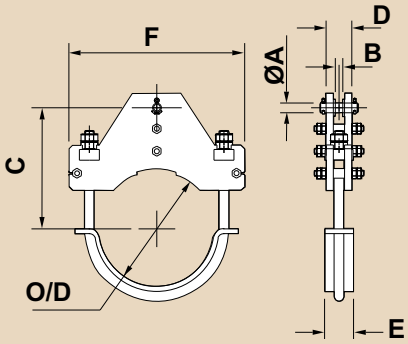



TYPE RP5 CLAMP

| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-550-1-400 | 558.8 | 400 | 423 | 4.15 | 933 | 10 | 9 | 381 | 15.00 | 25 | 20 | 608 | 21.7 | 213 | 47.8 |
| RY4-550-1-400 | 558.8 | 400 | 423 | 4.15 | 933 | 10 | 9 | 381 | 15.00 | 40 | 20 | 654 | 6.3 | 62 | 14.0 |
| RP5-550-1-400 | 558.8 | 400 | 423 | 4.15 | 933 | 10 | 9 | 380 | 14.96 | 50 | | | 8.3 | 81 | 18.2 |
| RY3-550-2-400 | 558.8 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 381 | 15.00 | 25 | 30 | 615 | 24.0 | 236 | 53.0 |
| RY4-550-2-400 | 558.8 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 381 | 15.00 | 43 | 30 | 664 | 8.2 | 81 | 18.1 |
| RP5-550-2-400 | 558.8 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 380 | 14.96 | 80 | | | 20.0 | 196 | 44.1 |
| RY3-550-3-400 | 558.8 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 398 | 15.67 | 30 | 40 | 640 | 33.7 | 331 | 74.4 |
| RY4-550-3-400 | 558.8 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 387 | 15.24 | 51 | 40 | 712 | 22.1 | 216 | 48.6 |
| RP5-550-3-400 | 558.8 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 405 | 15.94 | 100 | | | 34.7 | 341 | 76.6 |
| RY3-550-4-400 | 558.8 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 426 | 16.77 | 40 | 50 | 654 | 49.6 | 486 | 109.2 |
| RY4-550-4-400 | 558.8 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 398 | 15.67 | 57 | 50 | 732 | 34.8 | 341 | 76.7 |
| RP5-550-4-400 | 558.8 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 435 | 17.13 | 100 | | | 46.0 | 451 | 101.4 |
| RY3-550-5-400 | 558.8 | 400 | 6324 | 62 | 13942 | 25 | 20 | 441 | 17.36 | 50 | 50 | 672 | 66.2 | 649 | 145.8 |
| RY4-550-5-400 | 558.8 | 400 | 6324 | 62 | 13942 | 25 | 20 | 403 | 15.87 | 63 | 50 | 766 | 42.4 | 416 | 93.6 |
| RP5-550-5-400 | 558.8 | 400 | 6324 | 62 | 13942 | 25 | 20 | 460 | 18.11 | 100 | | | 57.9 | 568 | 127.6 |
| RY4-550-6-400 | 558.8 | 400 | 12754 | 125 | 28117 | 35 | 25 | 453 | 17.83 | 86 | 80 | 808 | 69.6 | 682 | 153.3 |
| RP5-550-6-400 | 558.8 | 400 | 12754 | 125 | 28117 | 35 | 25 | 510 | 20.08 | 120 | | | 101.1 | 992 | 222.9 |
| RY4-550-7-400 | 558.8 | 400 | 18132 | 178 | 39974 | 40 | 28 | 491 | 19.33 | 92 | 90 | 830 | 124.3 | 1219 | 274.1 |
| RP5-550-7-400 | 558.8 | 400 | 18132 | 178 | 39974 | 40 | 28 | 535 | 21.06 | 180 | | | 157.0 | 1540 | 346.1 |
| RY4-550-8-400 | 558.8 | 400 | 25524 | 250 | 56269 | 50 | 35 | 508 | 20.00 | 110 | 100 | 884 | 185.5 | 1819 | 409.0 |
| RP5-550-8-400 | 558.8 | 400 | 25524 | 250 | 56269 | 50 | 35 | 570 | 22.44 | 180 | | | 208.4 | 2044 | 459.5 |
| RY4-550-9-400 | 558.8 | 400 | 55135 | 541 | 121552 | 70 | 49 | 628 | 24.72 | 148 | 130 | 948 | 352.6 | 3458 | 777.3 |
| RY4-550-10-400 | 558.8 | 400 | 70330 | 690 | 155050 | 80 | 55 | 688 | 27.09 | 166 | 150 | 982 | 492.2 | 4827 | 1085.2 |
| RY4-550-11-400 | 558.8 | 400 | 90785 | 890 | 200144 | 90 | 60 | 768 | 30.24 | 194 | 190 | 1060 | 654.0 | 6413 | 1441.8 |
| RY3-550-1-490 | 558.8 | 490 | 423 | 4.15 | 933 | 10 | 9 | 381 | 15.00 | 25 | 20 | 608 | 21.7 | 213 | 47.8 |
| RY4-550-1-490 | 558.8 | 490 | 423 | 4.15 | 933 | 10 | 9 | 381 | 15.00 | 40 | 20 | 654 | 6.3 | 62 | 14.0 |
| RP5-550-1-490 | 558.8 | 490 | 423 | 4.15 | 933 | 10 | 9 | 380 | 14.96 | 50 | | | 8.1 | 80 | 17.9 |
| RY3-550-2-490 | 558.8 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 381 | 15.00 | 25 | 30 | 615 | 24.0 | 236 | 53.0 |
| RY4-550-2-490 | 558.8 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 381 | 15.00 | 43 | 30 | 664 | 8.2 | 81 | 18.1 |
| RP5-550-2-490 | 558.8 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 380 | 14.96 | 80 | | | 15.8 | 155 | 34.8 |
| RY3-550-3-490 | 558.8 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 397 | 15.63 | 30 | 40 | 640 | 33.5 | 329 | 73.9 |
| RY4-550-3-490 | 558.8 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 387 | 15.24 | 51 | 40 | 712 | 22.1 | 217 | 48.7 |
| RP5-550-3-490 | 558.8 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 400 | 15.75 | 100 | | | 34.2 | 336 | 75.5 |
| RY3-550-4-490 | 558.8 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 424 | 16.69 | 40 | 50 | 654 | 49.1 | 482 | 108.3 |
| RY4-550-4-490 | 558.8 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 398 | 15.67 | 57 | 50 | 732 | 34.8 | 341 | 76.7 |
| RP5-550-4-490 | 558.8 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 425 | 16.73 | 90 | | | 40.1 | 393 | 88.4 |
| RY3-550-5-490 | 558.8 | 490 | 6324 | 62 | 13942 | 25 | 20 | 439 | 17.28 | 50 | 50 | 672 | 65.6 | 643 | 144.6 |
| RY4-550-5-490 | 558.8 | 490 | 6324 | 62 | 13942 | 25 | 20 | 403 | 15.87 | 63 | 50 | 766 | 41.2 | 404 | 90.9 |
| RP5-550-5-490 | 558.8 | 490 | 6324 | 62 | 13942 | 25 | 20 | 455 | 17.91 | 100 | | | 56.5 | 554 | 124.5 |
| RY4-550-6-490 | 558.8 | 490 | 12754 | 125 | 28117 | 35 | 25 | 434 | 17.09 | 76 | 70 | 798 | 54.9 | 538 | 121.0 |
| RP5-550-6-490 | 558.8 | 490 | 12754 | 125 | 28117 | 35 | 25 | 505 | 19.88 | 120 | | | 98.8 | 969 | 217.8 |
| RY4-550-7-490 | 558.8 | 490 | 18132 | 178 | 39974 | 40 | 28 | 455 | 17.91 | 92 | 80 | 824 | 89.8 | 881 | 198.1 |
| RP5-550-7-490 | 558.8 | 490 | 18132 | 178 | 39974 | 40 | 28 | 515 | 20.28 | 170 | | | 140.6 | 1378 | 309.9 |
| RY4-550-8-490 | 558.8 | 490 | 25524 | 250 | 56269 | 50 | 35 | 505 | 19.88 | 110 | 90 | 872 | 170.7 | 1674 | 376.4 |
| RP5-550-8-490 | 558.8 | 490 | 25524 | 250 | 56269 | 50 | 35 | 550 | 21.65 | 180 | | | 196.1 | 1923 | 432.4 |
| RY4-550-9-490 | 558.8 | 490 | 55135 | 541 | 121552 | 70 | 49 | 619 | 24.37 | 148 | 130 | 948 | 345.3 | 3387 | 761.3 |
| RY4-550-10-490 | 558.8 | 490 | 70330 | 690 | 155050 | 80 | 55 | 679 | 26.73 | 166 | 150 | 982 | 486.6 | 4772 | 1072.7 |
| RY4-550-11-490 | 558.8 | 490 | 90785 | 890 | 200144 | 90 | 60 | 761 | 29.96 | 194 | 170 | 1050 | 628.4 | 6163 | 1385.4 |




TYPE RY3 CLAMP

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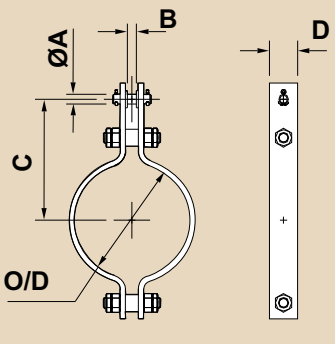
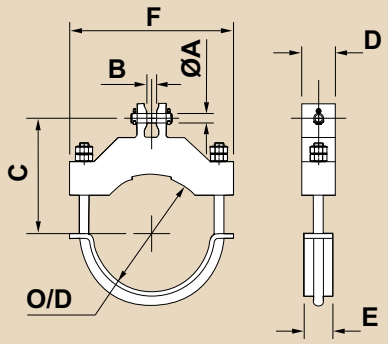
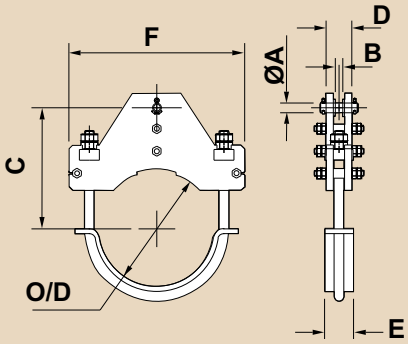



TYPE RP5 CLAMP

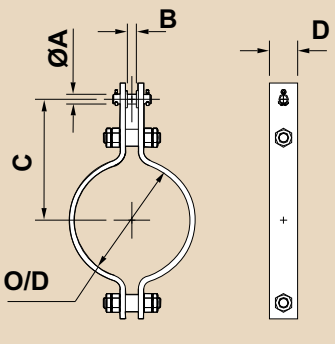
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-550-1-530 | 558.8 | 530 | 423 | 4.15 | 933 | 10 | 9 | 381 | 15.00 | 25 | 30 | 615 | 22.7 | 223 | 50.2 |
| RY4-550-1-530 | 558.8 | 530 | 423 | 4.15 | 933 | 10 | 9 | 381 | 15.00 | 40 | 30 | 656 | 7.2 | 71 | 15.9 |
| RP5-550-1-530 | 558.8 | 530 | 423 | 4.15 | 933 | 10 | 9 | 380 | 14.96 | 60 | | | 9.7 | 95 | 21.5 |
| RY3-550-2-530 | 558.8 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 381 | 15.00 | 25 | 30 | 626 | 25.2 | 247 | 55.6 |
| RY4-550-2-530 | 558.8 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 381 | 15.00 | 43 | 30 | 670 | 12.0 | 118 | 26.5 |
| RP5-550-2-530 | 558.8 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 380 | 14.96 | 80 | | | 19.8 | 194 | 43.6 |
| RY3-550-3-530 | 558.8 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 390 | 15.35 | 40 | 50 | 654 | 44.1 | 432 | 97.1 |
| RY4-550-3-530 | 558.8 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 387 | 15.24 | 51 | 50 | 716 | 33.4 | 328 | 73.7 |
| RP5-550-3-530 | 558.8 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 400 | 15.75 | 100 | | | 34.2 | 336 | 75.5 |
| RY3-550-4-530 | 558.8 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 418 | 16.46 | 50 | 50 | 672 | 61.2 | 600 | 134.8 |
| RY4-550-4-530 | 558.8 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 397 | 15.63 | 57 | 50 | 740 | 39.2 | 384 | 86.4 |
| RP5-550-4-530 | 558.8 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 425 | 16.73 | 110 | | | 48.9 | 480 | 107.8 |
| RY3-550-5-530 | 558.8 | 530 | 6324 | 62 | 13942 | 25 | 20 | 433 | 17.05 | 60 | 70 | 693 | 80.6 | 790 | 177.6 |
| RY4-550-5-530 | 558.8 | 530 | 6324 | 62 | 13942 | 25 | 20 | 424 | 16.69 | 69 | 70 | 772 | 45.6 | 447 | 100.5 |
| RP5-550-5-530 | 558.8 | 530 | 6324 | 62 | 13942 | 25 | 20 | 455 | 17.91 | 120 | | | 67.6 | 663 | 149.0 |
| RY4-550-6-530 | 558.8 | 530 | 12754 | 125 | 28117 | 35 | 25 | 453 | 17.83 | 86 | 80 | 808 | 79.7 | 782 | 175.7 |
| RP5-550-6-530 | 558.8 | 530 | 12754 | 125 | 28117 | 35 | 25 | 495 | 19.49 | 130 | | | 104.1 | 1021 | 229.5 |
| RY4-550-7-530 | 558.8 | 530 | 18132 | 178 | 39974 | 40 | 28 | 491 | 19.33 | 92 | 90 | 830 | 131.6 | 1291 | 290.1 |
| RP5-550-7-530 | 558.8 | 530 | 18132 | 178 | 39974 | 40 | 28 | 515 | 20.28 | 190 | | | 156.7 | 1537 | 345.5 |
| RY4-550-8-530 | 558.8 | 530 | 25524 | 250 | 56269 | 50 | 35 | 508 | 20.00 | 110 | 100 | 884 | 185.9 | 1823 | 409.9 |
| RP5-550-8-530 | 558.8 | 530 | 25524 | 250 | 56269 | 50 | 35 | 550 | 21.65 | 180 | | | 196.1 | 1923 | 432.4 |
| RY4-550-9-530 | 558.8 | 530 | 55135 | 541 | 121552 | 70 | 49 | 624 | 24.57 | 148 | 130 | 948 | 348.6 | 3418 | 768.5 |
| RY4-550-10-530 | 558.8 | 530 | 70330 | 690 | 155050 | 80 | 55 | 679 | 26.73 | 166 | 150 | 982 | 484.8 | 4755 | 1068.9 |
| RY4-550-11-530 | 558.8 | 530 | 90785 | 890 | 200144 | 90 | 60 | 761 | 29.96 | 194 | 170 | 1050 | 628.4 | 6163 | 1385.4 |
| RY3-550-1-570 | 558.8 | 570 | 423 | 4.15 | 933 | 10 | 9 | 381 | 15.00 | 25 | 30 | 626 | 24.2 | 238 | 53.4 |
| RY4-550-1-570 | 558.8 | 570 | 423 | 4.15 | 933 | 10 | 9 | 381 | 15.00 | 40 | 30 | 662 | 8.4 | 83 | 18.6 |
| RP5-550-1-570 | 558.8 | 570 | 423 | 4.15 | 933 | 10 | 9 | 380 | 14.96 | 70 | | | 13.6 | 134 | 30.0 |
| RY3-550-2-570 | 558.8 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 381 | 15.00 | 30 | 40 | 640 | 31.7 | 311 | 70.0 |
| RY4-550-2-570 | 558.8 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 381 | 15.00 | 43 | 40 | 674 | 21.3 | 209 | 47.1 |
| RP5-550-2-570 | 558.8 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 380 | 14.96 | 100 | | | 24.7 | 242 | 54.5 |
| RY3-550-3-570 | 558.8 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 391 | 15.39 | 50 | 50 | 672 | 56.6 | 555 | 124.8 |
| RY4-550-3-570 | 558.8 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 395 | 15.55 | 51 | 50 | 724 | 43.7 | 428 | 96.2 |
| RP5-550-3-570 | 558.8 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 410 | 16.14 | 90 | | | 39.0 | 382 | 85.9 |
| RY3-550-4-570 | 558.8 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 418 | 16.46 | 60 | 70 | 693 | 77.3 | 758 | 170.5 |
| RY4-550-4-570 | 558.8 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 421 | 16.57 | 63 | 70 | 746 | 41.2 | 404 | 90.9 |
| RP5-550-4-570 | 558.8 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 440 | 17.32 | 100 | | | 54.4 | 534 | 120.0 |
| RY3-550-5-570 | 558.8 | 570 | 6324 | 62 | 13942 | 25 | 20 | 434 | 17.09 | 70 | 80 | 718 | 99.8 | 979 | 220.0 |
| RY4-550-5-570 | 558.8 | 570 | 6324 | 62 | 13942 | 25 | 20 | 448 | 17.64 | 79 | 80 | 782 | 62.2 | 610 | 137.0 |
| RP5-550-5-570 | 558.8 | 570 | 6324 | 62 | 13942 | 25 | 20 | 455 | 17.91 | 160 | | | 89.8 | 880 | 197.9 |
| RY4-550-6-570 | 558.8 | 570 | 12754 | 125 | 28117 | 35 | 25 | 489 | 19.25 | 86 | 90 | 814 | 88.8 | 870 | 195.7 |
| RP5-550-6-570 | 558.8 | 570 | 12754 | 125 | 28117 | 35 | 25 | 495 | 19.49 | 170 | | | 135.5 | 1329 | 298.7 |
| RY4-550-7-570 | 558.8 | 570 | 18132 | 178 | 39974 | 40 | 28 | 491 | 19.33 | 92 | 100 | 842 | 129.9 | 1274 | 286.4 |
| RP5-550-7-570 | 558.8 | 570 | 18132 | 178 | 39974 | 40 | 28 | 530 | 20.87 | 180 | | | 187.9 | 1843 | 414.3 |
| RY4-550-8-570 | 558.8 | 570 | 25524 | 250 | 56269 | 50 | 35 | 532 | 20.94 | 110 | 120 | 892 | 216.5 | 2123 | 477.3 |
| RP5-550-8-570 | 558.8 | 570 | 25524 | 250 | 56269 | 50 | 35 | 550 | 21.65 | 200 | | | 217.3 | 2131 | 479.1 |
| RY4-550-9-570 | 558.8 | 570 | 55135 | 541 | 121552 | 70 | 49 | 649 | 25.55 | 148 | 130 | 948 | 364.7 | 3577 | 804.1 |
| RY4-550-10-570 | 558.8 | 570 | 70330 | 690 | 155050 | 80 | 55 | 703 | 27.68 | 166 | 150 | 982 | 503.1 | 4934 | 1109.1 |
| RY4-550-11-570 | 558.8 | 570 | 90785 | 890 | 200144 | 90 | 60 | 772 | 30.39 | 194 | 170 | 1050 | 635.0 | 6228 | 1400.0 |




TYPE RY3 CLAMP

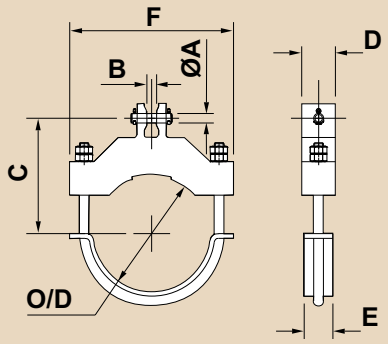



TYPE RY4 CLAMP

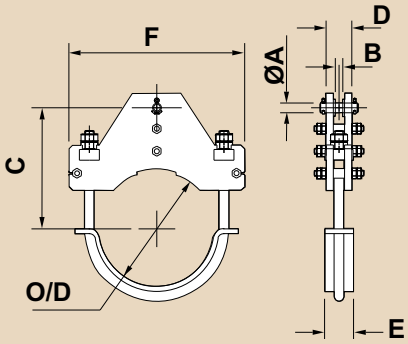



TYPE RP5 CLAMP

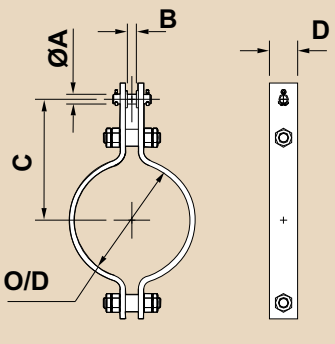
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-600-1-400 | 609.6 | 400 | 423 | 4.15 | 933 | 10 | 9 | 407 | 16.02 | 25 | 20 | 660 | 25.1 | 246 | 55.4 |
| RY4-600-1-400 | 609.6 | 400 | 423 | 4.15 | 933 | 10 | 9 | 407 | 16.02 | 46 | 20 | 706 | 8.1 | 80 | 17.9 |
| RP5-600-1-400 | 609.6 | 400 | 423 | 4.15 | 933 | 10 | 9 | 405 | 15.94 | 50 | | | 8.9 | 87 | 19.6 |
| RY3-600-2-400 | 609.6 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 407 | 16.02 | 25 | 30 | 667 | 27.6 | 271 | 60.9 |
| RY4-600-2-400 | 609.6 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 407 | 16.02 | 49 | 30 | 716 | 10.9 | 107 | 24.1 |
| RP5-600-2-400 | 609.6 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 410 | 16.14 | 80 | | | 21.7 | 213 | 47.8 |
| RY3-600-3-400 | 609.6 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 427 | 16.81 | 30 | 40 | 692 | 38.6 | 379 | 85.1 |
| RY4-600-3-400 | 609.6 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 413 | 16.26 | 57 | 40 | 764 | 28.0 | 275 | 61.7 |
| RP5-600-3-400 | 609.6 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 435 | 17.13 | 100 | | | 37.5 | 368 | 82.8 |
| RY3-600-4-400 | 609.6 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 456 | 17.95 | 40 | 50 | 706 | 56.7 | 556 | 125.0 |
| RY4-600-4-400 | 609.6 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 424 | 16.69 | 63 | 50 | 784 | 42.6 | 418 | 94.0 |
| RP5-600-4-400 | 609.6 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 470 | 18.50 | 110 | | | 55.4 | 544 | 122.2 |
| RY3-600-5-400 | 609.6 | 400 | 6324 | 62 | 13942 | 25 | 20 | 471 | 18.54 | 50 | 50 | 724 | 75.3 | 739 | 166.1 |
| RY4-600-5-400 | 609.6 | 400 | 6324 | 62 | 13942 | 25 | 20 | 429 | 16.89 | 69 | 50 | 818 | 64.3 | 630 | 141.7 |
| RP5-600-5-400 | 609.6 | 400 | 6324 | 62 | 13942 | 25 | 20 | 485 | 19.09 | 110 | | | 67.6 | 663 | 149.1 |
| RY4-600-6-400 | 609.6 | 400 | 12754 | 125 | 28117 | 35 | 25 | 479 | 18.86 | 86 | 80 | 860 | 77.3 | 758 | 170.4 |
| RP5-600-6-400 | 609.6 | 400 | 12754 | 125 | 28117 | 35 | 25 | 535 | 21.06 | 130 | | | 115.5 | 1133 | 254.7 |
| RY4-600-7-400 | 609.6 | 400 | 18132 | 178 | 39974 | 40 | 28 | 517 | 20.35 | 92 | 90 | 882 | 129.6 | 1271 | 285.7 |
| RP5-600-7-400 | 609.6 | 400 | 18132 | 178 | 39974 | 40 | 28 | 565 | 22.24 | 190 | | | 175.9 | 1725 | 387.8 |
| RY4-600-8-400 | 609.6 | 400 | 25524 | 250 | 56269 | 50 | 35 | 522 | 20.55 | 110 | 100 | 936 | 198.8 | 1950 | 438.4 |
| RP5-600-8-400 | 609.6 | 400 | 25524 | 250 | 56269 | 50 | 35 | 600 | 23.62 | 180 | | | 220.7 | 2165 | 486.6 |
| RY4-600-9-400 | 609.6 | 400 | 55135 | 541 | 121552 | 70 | 49 | 642 | 25.28 | 148 | 130 | 1000 | 336.7 | 3302 | 742.3 |
| RY4-600-10-400 | 609.6 | 400 | 70330 | 690 | 155050 | 80 | 55 | 704 | 27.72 | 166 | 150 | 1034 | 481.9 | 4725 | 1062.3 |
| RY4-600-11-400 | 609.6 | 400 | 90785 | 890 | 200144 | 90 | 60 | 785 | 30.91 | 194 | 190 | 1112 | 712.1 | 6983 | 1569.8 |
| RY3-600-1-490 | 609.6 | 490 | 423 | 4.15 | 933 | 10 | 9 | 407 | 16.02 | 25 | 20 | 660 | 25.1 | 246 | 55.4 |
| RY4-600-1-490 | 609.6 | 490 | 423 | 4.15 | 933 | 10 | 9 | 407 | 16.02 | 46 | 20 | 706 | 8.1 | 80 | 17.9 |
| RP5-600-1-490 | 609.6 | 490 | 423 | 4.15 | 933 | 10 | 9 | 405 | 15.94 | 50 | | | 8.8 | 86 | 19.4 |
| RY3-600-2-490 | 609.6 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 407 | 16.02 | 25 | 30 | 667 | 27.6 | 271 | 60.9 |
| RY4-600-2-490 | 609.6 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 407 | 16.02 | 49 | 30 | 716 | 10.9 | 107 | 24.1 |
| RP5-600-2-490 | 609.6 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 405 | 15.94 | 80 | | | 17.0 | 167 | 37.4 |
| RY3-600-3-490 | 609.6 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 426 | 16.77 | 30 | 40 | 692 | 38.6 | 378 | 85.0 |
| RY4-600-3-490 | 609.6 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 413 | 16.26 | 57 | 40 | 764 | 29.6 | 290 | 65.2 |
| RP5-600-3-490 | 609.6 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 425 | 16.73 | 100 | | | 36.7 | 360 | 81.0 |
| RY3-600-4-490 | 609.6 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 455 | 17.91 | 40 | 50 | 706 | 56.4 | 553 | 124.3 |
| RY4-600-4-490 | 609.6 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 424 | 16.69 | 63 | 50 | 784 | 42.7 | 418 | 94.1 |
| RP5-600-4-490 | 609.6 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 460 | 18.11 | 100 | | | 49.1 | 481 | 108.2 |
| RY3-600-5-490 | 609.6 | 490 | 6324 | 62 | 13942 | 25 | 20 | 470 | 18.50 | 50 | 50 | 724 | 74.9 | 734 | 165.1 |
| RY4-600-5-490 | 609.6 | 490 | 6324 | 62 | 13942 | 25 | 20 | 429 | 16.89 | 69 | 50 | 818 | 64.3 | 631 | 141.8 |
| RP5-600-5-490 | 609.6 | 490 | 6324 | 62 | 13942 | 25 | 20 | 480 | 18.90 | 100 | | | 60.2 | 591 | 132.8 |
| RY4-600-6-490 | 609.6 | 490 | 12754 | 125 | 28117 | 35 | 25 | 455 | 17.91 | 86 | 70 | 850 | 96.3 | 944 | 212.2 |
| RP5-600-6-490 | 609.6 | 490 | 12754 | 125 | 28117 | 35 | 25 | 530 | 20.87 | 120 | | | 104.6 | 1026 | 230.6 |
| RY4-600-7-490 | 609.6 | 490 | 18132 | 178 | 39974 | 40 | 28 | 481 | 18.94 | 92 | 80 | 876 | 105.9 | 1039 | 233.5 |
| RP5-600-7-490 | 609.6 | 490 | 18132 | 178 | 39974 | 40 | 28 | 545 | 21.46 | 180 | | | 160.6 | 1575 | 354.0 |
| RY4-600-8-490 | 609.6 | 490 | 25524 | 250 | 56269 | 50 | 35 | 522 | 20.55 | 110 | 90 | 924 | 185.5 | 1819 | 408.8 |
| RP5-600-8-490 | 609.6 | 490 | 25524 | 250 | 56269 | 50 | 35 | 590 | 23.23 | 180 | | | 214.0 | 2099 | 471.8 |
| RY4-600-9-490 | 609.6 | 490 | 55135 | 541 | 121552 | 70 | 49 | 633 | 24.92 | 148 | 130 | 1000 | 331.2 | 3248 | 730.2 |
| RY4-600-10-490 | 609.6 | 490 | 70330 | 690 | 155050 | 80 | 55 | 693 | 27.28 | 166 | 150 | 1034 | 471.6 | 4625 | 1039.8 |
| RY4-600-11-490 | 609.6 | 490 | 90785 | 890 | 200144 | 90 | 60 | 777 | 30.59 | 194 | 170 | 1102 | 626.1 | 6140 | 1380.3 |




TYPE RY3 CLAMP

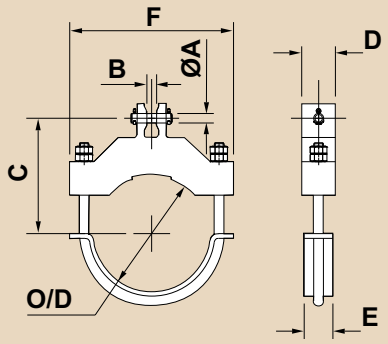



TYPE RY4 CLAMP

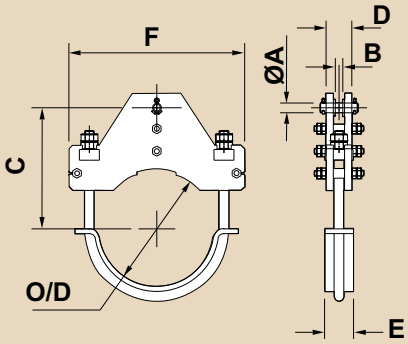



TYPE RP5 CLAMP

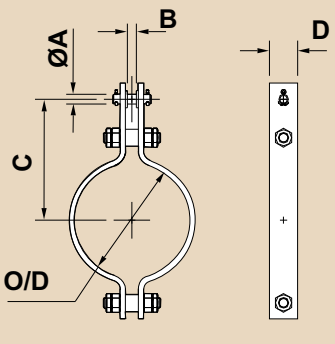
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-600-1-530 | 609.6 | 530 | 423 | 4.15 | 933 | 10 | 9 | 407 | 16.02 | 25 | 30 | 667 | 26.3 | 258 | 57.9 |
| RY4-600-1-530 | 609.6 | 530 | 423 | 4.15 | 933 | 10 | 9 | 407 | 16.02 | 46 | 30 | 708 | 9.1 | 89 | 20.0 |
| RP5-600-1-530 | 609.6 | 530 | 423 | 4.15 | 933 | 10 | 9 | 405 | 15.94 | 70 | | | 14.7 | 144 | 32.5 |
| RY3-600-2-530 | 609.6 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 407 | 16.02 | 25 | 30 | 678 | 28.9 | 283 | 63.7 |
| RY4-600-2-530 | 609.6 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 407 | 16.02 | 49 | 30 | 722 | 17.4 | 171 | 38.5 |
| RP5-600-2-530 | 609.6 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 405 | 15.94 | 80 | | | 21.3 | 209 | 46.9 |
| RY3-600-3-530 | 609.6 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 419 | 16.50 | 40 | 50 | 706 | 50.5 | 495 | 111.3 |
| RY4-600-3-530 | 609.6 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 413 | 16.26 | 57 | 50 | 768 | 42.7 | 419 | 94.1 |
| RP5-600-3-530 | 609.6 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 425 | 16.73 | 100 | | | 36.7 | 360 | 81.0 |
| RY3-600-4-530 | 609.6 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 448 | 17.64 | 50 | 50 | 724 | 70.0 | 687 | 154.4 |
| RY4-600-4-530 | 609.6 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 423 | 16.65 | 63 | 50 | 792 | 61.4 | 602 | 135.3 |
| RP5-600-4-530 | 609.6 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 460 | 18.11 | 120 | | | 58.7 | 576 | 129.5 |
| RY3-600-5-530 | 609.6 | 530 | 6324 | 62 | 13942 | 25 | 20 | 463 | 18.23 | 60 | 70 | 745 | 91.7 | 899 | 202.1 |
| RY4-600-5-530 | 609.6 | 530 | 6324 | 62 | 13942 | 25 | 20 | 450 | 17.72 | 69 | 70 | 824 | 76.2 | 747 | 167.9 |
| RP5-600-5-530 | 609.6 | 530 | 6324 | 62 | 13942 | 25 | 20 | 480 | 18.90 | 120 | | | 72.1 | 707 | 158.9 |
| RY4-600-6-530 | 609.6 | 530 | 12754 | 125 | 28117 | 35 | 25 | 479 | 18.86 | 86 | 80 | 860 | 91.0 | 892 | 200.6 |
| RP5-600-6-530 | 609.6 | 530 | 12754 | 125 | 28117 | 35 | 25 | 530 | 20.87 | 140 | | | 121.6 | 1192 | 268.0 |
| RY4-600-7-530 | 609.6 | 530 | 18132 | 178 | 39974 | 40 | 28 | 517 | 20.35 | 92 | 90 | 882 | 138.5 | 1358 | 305.3 |
| RP5-600-7-530 | 609.6 | 530 | 18132 | 178 | 39974 | 40 | 28 | 545 | 21.46 | 200 | | | 177.9 | 1745 | 392.3 |
| RY4-600-8-530 | 609.6 | 530 | 25524 | 250 | 56269 | 50 | 35 | 522 | 20.55 | 110 | 100 | 936 | 198.4 | 1945 | 437.3 |
| RP5-600-8-530 | 609.6 | 530 | 25524 | 250 | 56269 | 50 | 35 | 590 | 23.23 | 180 | | | 214.0 | 2099 | 471.8 |
| RY4-600-9-530 | 609.6 | 530 | 55135 | 541 | 121552 | 70 | 49 | 638 | 25.12 | 148 | 130 | 1000 | 334.6 | 3281 | 737.6 |
| RY4-600-10-530 | 609.6 | 530 | 70330 | 690 | 155050 | 80 | 55 | 695 | 27.36 | 166 | 150 | 1034 | 475.9 | 4667 | 1049.1 |
| RY4-600-11-530 | 609.6 | 530 | 90785 | 890 | 200144 | 90 | 60 | 777 | 30.59 | 194 | 170 | 1102 | 626.1 | 6140 | 1380.3 |
| RY3-600-1-570 | 609.6 | 570 | 423 | 4.15 | 933 | 10 | 9 | 407 | 16.02 | 25 | 30 | 678 | 27.9 | 273 | 61.4 |
| RY4-600-1-570 | 609.6 | 570 | 423 | 4.15 | 933 | 10 | 9 | 407 | 16.02 | 46 | 30 | 714 | 10.3 | 101 | 22.8 |
| RP5-600-1-570 | 609.6 | 570 | 423 | 4 | 933 | 10 | 9 | 405 | 15.94 | 70 | | | 14.7 | 144.5 | 32.5 |
| RY3-600-2-570 | 609.6 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 407 | 16.02 | 30 | 40 | 692 | 36.3 | 356 | 79.9 |
| RY4-600-2-570 | 609.6 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 407 | 16.02 | 49 | 40 | 726 | 28.9 | 283 | 63.7 |
| RP5-600-2-570 | 609.6 | 570 | 985 | 10 | 2172 | 10 | 9 | 405 | 15.94 | 100 | | | 26.6 | 260.6 | 58.6 |
| RY3-600-3-570 | 609.6 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 420 | 16.54 | 50 | 50 | 724 | 64.7 | 635 | 142.7 |
| RY4-600-3-570 | 609.6 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 421 | 16.57 | 57 | 50 | 776 | 54.4 | 534 | 120.0 |
| RP5-600-3-570 | 609.6 | 570 | 2125 | 21 | 4684 | 15 | 12 | 435 | 17.13 | 90 | | | 41.7 | 409.4 | 92.0 |
| RY3-600-4-570 | 609.6 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 448 | 17.64 | 60 | 70 | 745 | 87.8 | 861 | 193.6 |
| RY4-600-4-570 | 609.6 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 447 | 17.60 | 63 | 70 | 798 | 69.1 | 678 | 152.4 |
| RP5-600-4-570 | 609.6 | 570 | 4293 | 42 | 9465 | 20 | 16 | 465 | 18.31 | 110 | | | 63.9 | 626.4 | 140.8 |
| RY3-600-5-570 | 609.6 | 570 | 6324 | 62 | 13942 | 25 | 20 | 464 | 18.27 | 70 | 80 | 770 | 112.6 | 1105 | 248.3 |
| RY4-600-5-570 | 609.6 | 570 | 6324 | 62 | 13942 | 25 | 20 | 474 | 18.66 | 79 | 80 | 834 | 61.7 | 605 | 136.1 |
| RP5-600-5-570 | 609.6 | 570 | 6324 | 62 | 13942 | 25 | 20 | 480 | 18.90 | 160 | | | 95.7 | 938.8 | 211.0 |
| RY4-600-6-570 | 609.6 | 570 | 12754 | 125 | 28117 | 35 | 25 | 515 | 20.28 | 86 | 90 | 866 | 95.1 | 933 | 209.8 |
| RP5-600-6-570 | 609.6 | 570 | 12754 | 125 | 28117 | 35 | 25 | 530 | 20.87 | 180 | | | 155.5 | 1525 | 342.8 |
| RY4-600-7-570 | 609.6 | 570 | 18132 | 178 | 39974 | 40 | 28 | 517 | 20.35 | 92 | 100 | 894 | 146.4 | 1435 | 322.7 |
| RP5-600-7-570 | 609.6 | 570 | 18132 | 178 | 39974 | 40 | 28 | 565 | 22.24 | 180 | | | 203.9 | 1999 | 449.5 |
| RY4-600-8-570 | 609.6 | 570 | 25524 | 250 | 56269 | 50 | 35 | 558 | 21.97 | 110 | 120 | 944 | 229.3 | 2248 | 505.4 |
| RP5-600-8-570 | 609.6 | 570 | 25524 | 250 | 56269 | 50 | 35 | 580 | 22.83 | 210 | | | 242.3 | 2376 | 534.1 |
| RY4-600-9-570 | 609.6 | 570 | 55135 | 541 | 121552 | 70 | 49 | 664 | 26.14 | 148 | 130 | 1000 | 352.4 | 3456 | 777.0 |
| RY4-600-10-570 | 609.6 | 570 | 70330 | 690 | 155050 | 80 | 55 | 720 | 28.35 | 166 | 150 | 1034 | 495.7 | 4861 | 1092.9 |
| RY4-600-11-570 | 609.6 | 570 | 90785 | 890 | 200144 | 90 | 60 | 789 | 31.06 | 194 | 170 | 1102 | 640.3 | 6279 | 1411.5 |




TYPE RY3 CLAMP

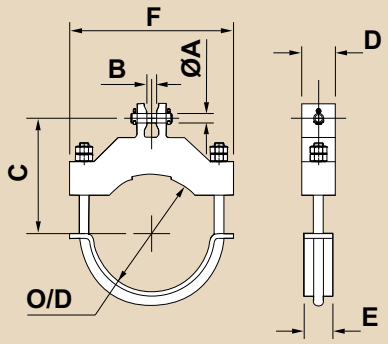



TYPE RY4 CLAMP

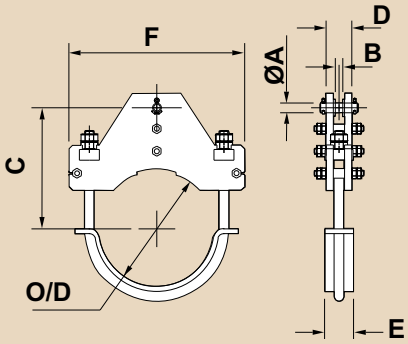



TYPE RP5 CLAMP

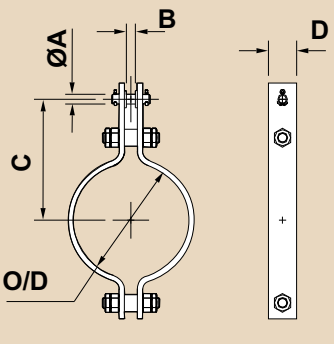
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-650-1-400 | 660.4 | 400 | 423 | 4.15 | 933 | 10 | 9 | 457 | 17.99 | 30 | 20 | 710 | 35.2 | 345 | 77.6 |
| RY4-650-1-400 | 660.4 | 400 | 423 | 4.15 | 933 | 10 | 9 | 457 | 17.99 | 46 | 20 | 756 | 16.8 | 165 | 37.0 |
| RP5-650-1-400 | 660.4 | 400 | 423 | 4.15 | 933 | 10 | 9 | 455 | 17.91 | 50 | | | 9.7 | 95 | 21.4 |
| RY3-650-2-400 | 660.4 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 457 | 17.99 | 30 | 30 | 717 | 38.3 | 376 | 84.5 |
| RY4-650-2-400 | 660.4 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 457 | 17.99 | 49 | 30 | 766 | 14.6 | 144 | 32.3 |
| RP5-650-2-400 | 660.4 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 455 | 17.91 | 80 | | | 23.5 | 231 | 51.9 |
| RY3-650-3-400 | 660.4 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 464 | 18.27 | 30 | 40 | 742 | 44.7 | 439 | 98.6 |
| RY4-650-3-400 | 660.4 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 463 | 18.23 | 57 | 40 | 814 | 18.9 | 185 | 41.7 |
| RP5-650-3-400 | 660.4 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 460 | 18.11 | 100 | | | 40.0 | 392 | 88.2 |
| RY3-650-4-400 | 660.4 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 485 | 19.09 | 40 | 50 | 756 | 64.4 | 631 | 141.9 |
| RY4-650-4-400 | 660.4 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 474 | 18.66 | 63 | 50 | 834 | 28.6 | 280 | 63.0 |
| RP5-650-4-400 | 660.4 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 495 | 19.49 | 110 | | | 58.8 | 576 | 129.5 |
| RY3-650-5-400 | 660.4 | 400 | 6324 | 62 | 13942 | 25 | 20 | 500 | 19.69 | 50 | 50 | 774 | 85.2 | 835 | 187.8 |
| RY4-650-5-400 | 660.4 | 400 | 6324 | 62 | 13942 | 25 | 20 | 479 | 18.86 | 69 | 50 | 868 | 47.5 | 466 | 104.7 |
| RP5-650-5-400 | 660.4 | 400 | 6324 | 62 | 13942 | 25 | 20 | 510 | 20.08 | 110 | | | 71.6 | 702 | 157.9 |
| RY4-650-6-400 | 660.4 | 400 | 12754 | 125 | 28117 | 35 | 25 | 504 | 19.84 | 86 | 80 | 910 | 89.0 | 873 | 196.3 |
| RP5-650-6-400 | 660.4 | 400 | 12754 | 125 | 28117 | 35 | 25 | 565 | 22.24 | 140 | | | 131.8 | 1293 | 290.6 |
| RY4-650-7-400 | 660.4 | 400 | 18132 | 178 | 39974 | 40 | 28 | 542 | 21.34 | 92 | 90 | 932 | 139.5 | 1368 | 307.5 |
| RP5-650-7-400 | 660.4 | 400 | 18132 | 178 | 39974 | 40 | 28 | 590 | 23.23 | 200 | | | 194.4 | 1907 | 428.6 |
| RY4-650-8-400 | 660.4 | 400 | 25524 | 250 | 56269 | 50 | 35 | 547 | 21.54 | 110 | 100 | 986 | 214.5 | 2104 | 472.9 |
| RP5-650-8-400 | 660.4 | 400 | 25524 | 250 | 56269 | 50 | 35 | 625 | 24.61 | 190 | | | 243.8 | 2391 | 537.5 |
| RY4-650-9-400 | 660.4 | 400 | 55135 | 541 | 121552 | 70 | 49 | 656 | 25.83 | 148 | 130 | 1050 | 344.6 | 3379 | 759.7 |
| RY4-650-10-400 | 660.4 | 400 | 70330 | 690 | 155050 | 80 | 55 | 717 | 28.23 | 166 | 150 | 1084 | 462.0 | 4531 | 1018.5 |
| RY4-650-11-400 | 660.4 | 400 | 90785 | 890 | 200144 | 90 | 60 | 800 | 31.50 | 194 | 190 | 1162 | 763.7 | 7489 | 1683.6 |
| RY3-650-1-490 | 660.4 | 490 | 423 | 4.15 | 933 | 10 | 9 | 457 | 17.99 | 30 | 20 | 710 | 35.2 | 345 | 77.6 |
| RY4-650-1-490 | 660.4 | 490 | 423 | 4.15 | 933 | 10 | 9 | 457 | 17.99 | 46 | 20 | 756 | 16.8 | 165 | 37.1 |
| RP5-650-1-490 | 660.4 | 490 | 423 | 4.15 | 933 | 10 | 9 | 455 | 17.91 | 50 | | | 9.6 | 94 | 21.2 |
| RY3-650-2-490 | 660.4 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 457 | 17.99 | 30 | 30 | 717 | 38.3 | 376 | 84.5 |
| RY4-650-2-490 | 660.4 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 457 | 17.99 | 49 | 30 | 766 | 14.7 | 144 | 32.3 |
| RP5-650-2-490 | 660.4 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 455 | 17.91 | 80 | | | 23.2 | 228 | 51.2 |
| RY3-650-3-490 | 660.4 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 464 | 18.27 | 30 | 40 | 742 | 44.5 | 437 | 98.2 |
| RY4-650-3-490 | 660.4 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 463 | 18.23 | 57 | 40 | 814 | 18.9 | 186 | 41.7 |
| RP5-650-3-490 | 660.4 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 460 | 18.11 | 100 | | | 39.5 | 387 | 87.1 |
| RY3-650-4-490 | 660.4 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 484 | 19.06 | 40 | 50 | 756 | 64.0 | 628 | 141.1 |
| RY4-650-4-490 | 660.4 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 474 | 18.66 | 63 | 50 | 834 | 28.6 | 280 | 63.0 |
| RP5-650-4-490 | 660.4 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 485 | 19.09 | 110 | | | 57.2 | 561 | 126.2 |
| RY3-650-5-490 | 660.4 | 490 | 6324 | 62 | 13942 | 25 | 20 | 499 | 19.65 | 50 | 50 | 774 | 84.7 | 831 | 186.8 |
| RY4-650-5-490 | 660.4 | 490 | 6324 | 62 | 13942 | 25 | 20 | 479 | 18.86 | 69 | 50 | 868 | 47.6 | 466 | 104.9 |
| RP5-650-5-490 | 660.4 | 490 | 6324 | 62 | 13942 | 25 | 20 | 505 | 19.88 | 110 | | | 70.1 | 688 | 154.6 |
| RY4-650-6-490 | 660.4 | 490 | 12754 | 125 | 28117 | 35 | 25 | 494 | 19.45 | 86 | 70 | 900 | 87.7 | 860 | 193.3 |
| RP5-650-6-490 | 660.4 | 490 | 12754 | 125 | 28117 | 35 | 25 | 555 | 21.85 | 130 | | | 119.4 | 1171 | 263.2 |
| RY4-650-7-490 | 660.4 | 490 | 18132 | 178 | 39974 | 40 | 28 | 506 | 19.92 | 92 | 80 | 926 | 120.4 | 1180 | 265.3 |
| RP5-650-7-490 | 660.4 | 490 | 18132 | 178 | 39974 | 40 | 28 | 570 | 22.44 | 190 | | | 178.3 | 1749 | 393.2 |
| RY4-650-8-490 | 660.4 | 490 | 25524 | 250 | 56269 | 50 | 35 | 547 | 21.54 | 110 | 90 | 974 | 200.0 | 1962 | 441.0 |
| RP5-650-8-490 | 660.4 | 490 | 25524 | 250 | 56269 | 50 | 35 | 620 | 24.41 | 180 | | | 226.2 | 2218 | 498.6 |
| RY4-650-9-490 | 660.4 | 490 | 55135 | 541 | 121552 | 70 | 49 | 689 | 27.13 | 138 | 130 | 1050 | 338.8 | 3323 | 747.0 |
| RY4-650-10-490 | 660.4 | 490 | 70330 | 690 | 155050 | 80 | 55 | 708 | 27.87 | 166 | 150 | 1084 | 455.5 | 4466 | 1004.1 |
| RY4-650-11-490 | 660.4 | 490 | 90785 | 890 | 200144 | 90 | 60 | 793 | 31.22 | 194 | 170 | 1152 | 710.6 | 6968 | 1566.6 |




TYPE RY3 CLAMP

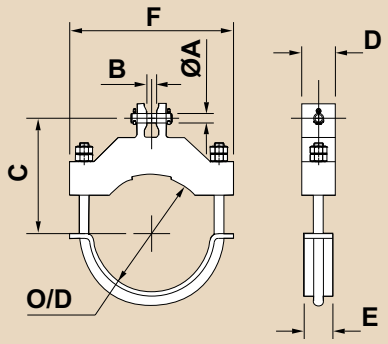



TYPE RY4 CLAMP

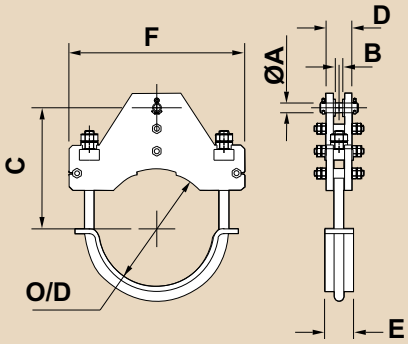



TYPE RP5 CLAMP

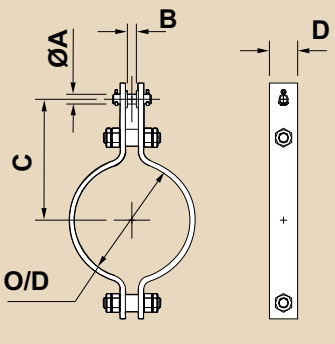
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-650-1-530 | 660.4 | 530 | 423 | 4.15 | 933 | 10 | 9 | 457 | 17.99 | 30 | 30 | 717 | 36.6 | 359 | 80.6 |
| RY4-650-1-530 | 660.4 | 530 | 423 | 4.15 | 933 | 10 | 9 | 457 | 17.99 | 46 | 30 | 758 | 17.8 | 175 | 39.3 |
| RP5-650-1-530 | 660.4 | 530 | 423 | 4.15 | 933 | 10 | 9 | 455 | 17.91 | 70 | | | 16.1 | 158 | 35.5 |
| RY3-650-2-530 | 660.4 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 457 | 17.99 | 30 | 30 | 728 | 39.8 | 390 | 87.7 |
| RY4-650-2-530 | 660.4 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 457 | 17.99 | 49 | 30 | 772 | 13.9 | 136 | 30.6 |
| RP5-650-2-530 | 660.4 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 455 | 17.91 | 80 | | | 23.2 | 228 | 51.2 |
| RY3-650-3-530 | 660.4 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 464 | 18.27 | 40 | 50 | 756 | 59.0 | 579 | 130.1 |
| RY4-650-3-530 | 660.4 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 462 | 18.19 | 57 | 50 | 818 | 27.3 | 268 | 60.3 |
| RP5-650-3-530 | 660.4 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 460 | 18.11 | 100 | | | 39.5 | 387 | 87.1 |
| RY3-650-4-530 | 660.4 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 476 | 18.74 | 50 | 50 | 774 | 79.1 | 775 | 174.3 |
| RY4-650-4-530 | 660.4 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 473 | 18.62 | 63 | 50 | 842 | 49.0 | 481 | 108.1 |
| RP5-650-4-530 | 660.4 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 495 | 19.49 | 100 | | | 63.0 | 618 | 138.9 |
| RY3-650-5-530 | 660.4 | 530 | 6324 | 62 | 13942 | 25 | 20 | 492 | 19.37 | 60 | 70 | 795 | 103.1 | 1011 | 227.3 |
| RY4-650-5-530 | 660.4 | 530 | 6324 | 62 | 13942 | 25 | 20 | 479 | 18.86 | 69 | 70 | 874 | 85.7 | 841 | 189.0 |
| RP5-650-5-530 | 660.4 | 530 | 6324 | 62 | 13942 | 25 | 20 | 505 | 19.88 | 130 | | | 82.7 | 811 | 182.3 |
| RY4-650-6-530 | 660.4 | 530 | 12754 | 125 | 28117 | 35 | 25 | 504 | 19.84 | 86 | 80 | 910 | 104.1 | 1021 | 229.4 |
| RP5-650-6-530 | 660.4 | 530 | 12754 | 125 | 28117 | 35 | 25 | 555 | 21.85 | 150 | | | 137.3 | 1346 | 302.7 |
| RY4-650-7-530 | 660.4 | 530 | 18132 | 178 | 39974 | 40 | 28 | 542 | 21.34 | 92 | 90 | 932 | 147.0 | 1442 | 324.1 |
| RP5-650-7-530 | 660.4 | 530 | 18132 | 178 | 39974 | 40 | 28 | 570 | 22.44 | 210 | | | 196.7 | 1929 | 433.5 |
| RY4-650-8-530 | 660.4 | 530 | 25524 | 250 | 56269 | 50 | 35 | 547 | 21.54 | 110 | 100 | 986 | 215.0 | 2108 | 473.9 |
| RP5-650-8-530 | 660.4 | 530 | 25524 | 250 | 56269 | 50 | 35 | 620 | 24.41 | 190 | | | 238.3 | 2337 | 525.4 |
| RY4-650-9-530 | 660.4 | 530 | 55135 | 541 | 121552 | 70 | 49 | 691 | 27.20 | 138 | 130 | 1050 | 340.0 | 3334 | 749.5 |
| RY4-650-10-530 | 660.4 | 530 | 70330 | 690 | 155050 | 80 | 55 | 708 | 27.87 | 166 | 150 | 1084 | 455.7 | 4469 | 1004.6 |
| RY4-650-11-530 | 660.4 | 530 | 90785 | 890 | 200144 | 90 | 60 | 793 | 31.22 | 194 | 170 | 1152 | 710.6 | 6968 | 1566.6 |
| RY3-650-1-570 | 660.4 | 570 | 423 | 4.15 | 933 | 10 | 9 | 457 | 17.99 | 30 | 30 | 728 | 38.3 | 376 | 84.4 |
| RY4-650-1-570 | 660.4 | 570 | 423 | 4.15 | 933 | 10 | 9 | 457 | 17.99 | 46 | 30 | 764 | 18.4 | 180 | 40.5 |
| RP5-650-1-570 | 660.4 | 570 | 423 | 4 | 933 | 10 | 9 | 455 | 17.91 | 70 | | | 16.1 | 157.8 | 35.5 |
| RY3-650-2-570 | 660.4 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 457 | 17.99 | 30 | 40 | 742 | 42.9 | 420 | 94.5 |
| RY4-650-2-570 | 660.4 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 457 | 17.99 | 49 | 40 | 776 | 16.9 | 166 | 37.3 |
| RP5-650-2-570 | 660.4 | 570 | 985 | 10 | 2172 | 10 | 9 | 455 | 17.91 | 100 | | | 38.7 | 379.4 | 85.3 |
| RY3-650-3-570 | 660.4 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 464 | 18.27 | 50 | 50 | 774 | 75.4 | 739 | 166.2 |
| RY4-650-3-570 | 660.4 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 463 | 18.23 | 57 | 50 | 826 | 47.5 | 466 | 104.8 |
| RP5-650-3-570 | 660.4 | 570 | 2125 | 21 | 4684 | 15 | 12 | 460 | 18.11 | 90 | | | 44.5 | 436.4 | 98.1 |
| RY3-650-4-570 | 660.4 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 476 | 18.74 | 60 | 70 | 795 | 99.3 | 974 | 219.0 |
| RY4-650-4-570 | 660.4 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 472 | 18.58 | 63 | 70 | 848 | 74.4 | 729 | 163.9 |
| RP5-650-4-570 | 660.4 | 570 | 4293 | 42 | 9465 | 20 | 16 | 490 | 19.29 | 110 | | | 67.9 | 666.1 | 149.7 |
| RY3-650-5-570 | 660.4 | 570 | 6324 | 62 | 13942 | 25 | 20 | 492 | 19.37 | 70 | 80 | 820 | 126.2 | 1238 | 278.2 |
| RY4-650-5-570 | 660.4 | 570 | 6324 | 62 | 13942 | 25 | 20 | 499 | 19.65 | 79 | 80 | 884 | 63.8 | 625 | 140.6 |
| RP5-650-5-570 | 660.4 | 570 | 6324 | 62 | 13942 | 25 | 20 | 525 | 20.67 | 120 | | | 103.7 | 1016 | 228.5 |
| RY4-650-6-570 | 660.4 | 570 | 12754 | 125 | 28117 | 35 | 25 | 540 | 21.26 | 86 | 90 | 916 | 105.1 | 1031 | 231.8 |
| RP5-650-6-570 | 660.4 | 570 | 12754 | 125 | 28117 | 35 | 25 | 555 | 21.85 | 190 | | | 173.2 | 1698 | 381.8 |
| RY4-650-7-570 | 660.4 | 570 | 18132 | 178 | 39974 | 40 | 28 | 542 | 21.34 | 92 | 100 | 944 | 161.8 | 1587 | 356.7 |
| RP5-650-7-570 | 660.4 | 570 | 18132 | 178 | 39974 | 40 | 28 | 590 | 23.23 | 180 | | | 214.6 | 2105 | 473.2 |
| RY4-650-8-570 | 660.4 | 570 | 25524 | 250 | 56269 | 50 | 35 | 583 | 22.95 | 110 | 120 | 994 | 244.4 | 2396 | 538.7 |
| RP5-650-8-570 | 660.4 | 570 | 25524 | 250 | 56269 | 50 | 35 | 620 | 24.41 | 240 | | | 299.2 | 2934 | 659.5 |
| RY4-650-9-570 | 660.4 | 570 | 55135 | 541 | 121552 | 70 | 49 | 679 | 26.73 | 148 | 130 | 1050 | 359.7 | 3527 | 792.9 |
| RY4-650-10-570 | 660.4 | 570 | 70330 | 690 | 155050 | 80 | 55 | 734 | 28.90 | 166 | 150 | 1084 | 477.0 | 4677 | 1051.5 |
| RY4-650-11-570 | 660.4 | 570 | 90785 | 890 | 200144 | 90 | 60 | 805 | 31.69 | 194 | 170 | 1152 | 719.6 | 7056 | 1586.3 |




TYPE RY3 CLAMP

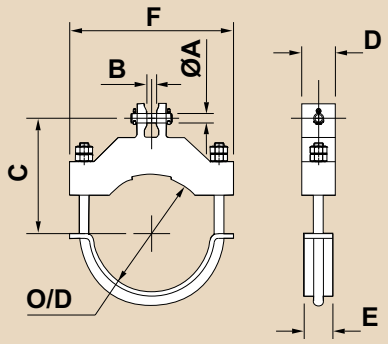



TYPE RY4 CLAMP

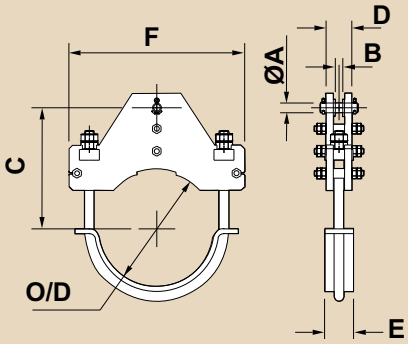



TYPE RP5 CLAMP

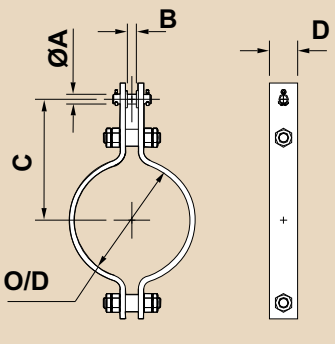
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-700-1-400 | 711.2 | 400 | 423 | 4.15 | 933 | 10 | 9 | 482 | 18.98 | 30 | 20 | 760 | 39.9 | 392 | 88.0 |
| RY4-700-1-400 | 711.2 | 400 | 423 | 4.15 | 933 | 10 | 9 | 482 | 18.98 | 46 | 20 | 806 | 13.4 | 132 | 29.6 |
| RP5-700-1-400 | 711.2 | 400 | 423 | 4.15 | 933 | 10 | 9 | 480 | 18.90 | 60 | | | 12.4 | 121 | 27.3 |
| RY3-700-2-400 | 711.2 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 482 | 18.98 | 30 | 30 | 767 | 43.2 | 423 | 95.1 |
| RY4-700-2-400 | 711.2 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 482 | 18.98 | 49 | 30 | 816 | 12.4 | 121 | 27.3 |
| RP5-700-2-400 | 711.2 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 480 | 18.90 | 80 | | | 25.0 | 245 | 55.1 |
| RY3-700-3-400 | 711.2 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 489 | 19.25 | 30 | 40 | 792 | 49.9 | 490 | 110.1 |
| RY4-700-3-400 | 711.2 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 488 | 19.21 | 57 | 40 | 864 | 22.0 | 215 | 48.4 |
| RP5-700-3-400 | 711.2 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 485 | 19.09 | 100 | | | 42.4 | 416 | 93.6 |
| RY3-700-4-400 | 711.2 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 514 | 20.24 | 40 | 50 | 806 | 72.0 | 706 | 158.8 |
| RY4-700-4-400 | 711.2 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 499 | 19.65 | 63 | 50 | 884 | 35.7 | 350 | 78.8 |
| RP5-700-4-400 | 711.2 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 520 | 20.47 | 120 | | | 67.7 | 663 | 149.1 |
| RY3-700-5-400 | 711.2 | 400 | 6324 | 62 | 13942 | 25 | 20 | 530 | 20.87 | 50 | 50 | 824 | 95.5 | 937 | 210.6 |
| RY4-700-5-400 | 711.2 | 400 | 6324 | 62 | 13942 | 25 | 20 | 504 | 19.84 | 69 | 50 | 918 | 60.5 | 593 | 133.3 |
| RP5-700-5-400 | 711.2 | 400 | 6324 | 62 | 13942 | 25 | 20 | 550 | 21.65 | 130 | | | 91.9 | 901 | 202.6 |
| RY4-700-6-400 | 711.2 | 400 | 12754 | 125 | 28117 | 35 | 25 | 529 | 20.83 | 86 | 80 | 960 | 126.0 | 1235 | 277.7 |
| RP5-700-6-400 | 711.2 | 400 | 12754 | 125 | 28117 | 35 | 25 | 590 | 23.23 | 150 | | | 148.2 | 1453 | 326.8 |
| RY4-700-7-400 | 711.2 | 400 | 18132 | 178 | 39974 | 40 | 28 | 567 | 22.32 | 92 | 90 | 982 | 170.9 | 1676 | 376.8 |
| RP5-700-7-400 | 711.2 | 400 | 18132 | 178 | 39974 | 40 | 28 | 615 | 24.21 | 210 | | | 214.0 | 2099 | 471.8 |
| RY4-700-8-400 | 711.2 | 400 | 25524 | 250 | 56269 | 50 | 35 | 572 | 22.52 | 110 | 100 | 1036 | 230.4 | 2260 | 508.0 |
| RP5-700-8-400 | 711.2 | 400 | 25524 | 250 | 56269 | 50 | 35 | 655 | 25.79 | 200 | | | 269.8 | 2646 | 594.9 |
| RY4-700-9-400 | 711.2 | 400 | 55135 | 541 | 121552 | 70 | 49 | 714 | 28.11 | 138 | 130 | 1100 | 377.8 | 3705 | 832.9 |
| RY4-700-10-400 | 711.2 | 400 | 70330 | 690 | 155050 | 80 | 55 | 732 | 28.82 | 166 | 150 | 1134 | 473.1 | 4639 | 1043.0 |
| RY4-700-11-400 | 711.2 | 400 | 90785 | 890 | 200144 | 90 | 60 | 816 | 32.13 | 194 | 190 | 1212 | 748.3 | 7338 | 1649.7 |
| RY3-700-1-490 | 711.2 | 490 | 423 | 4.15 | 933 | 10 | 9 | 482 | 18.98 | 30 | 20 | 760 | 39.7 | 389 | 87.5 |
| RY4-700-1-490 | 711.2 | 490 | 423 | 4.15 | 933 | 10 | 9 | 482 | 18.98 | 46 | 20 | 806 | 13.4 | 132 | 29.6 |
| RP5-700-1-490 | 711.2 | 490 | 423 | 4.15 | 933 | 10 | 9 | 480 | 18.90 | 60 | | | 12.2 | 120 | 27.0 |
| RY3-700-2-490 | 711.2 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 482 | 18.98 | 30 | 30 | 767 | 43.2 | 423 | 95.1 |
| RY4-700-2-490 | 711.2 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 482 | 18.98 | 49 | 30 | 816 | 12.4 | 121 | 27.3 |
| RP5-700-2-490 | 711.2 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 480 | 18.90 | 80 | | | 24.7 | 242 | 54.5 |
| RY3-700-3-490 | 711.2 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 489 | 19.25 | 30 | 40 | 792 | 49.7 | 488 | 109.6 |
| RY4-700-3-490 | 711.2 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 488 | 19.21 | 57 | 40 | 864 | 22.0 | 215 | 48.4 |
| RP5-700-3-490 | 711.2 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 485 | 19.09 | 100 | | | 41.9 | 411 | 92.5 |
| RY3-700-4-490 | 711.2 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 512 | 20.16 | 40 | 50 | 806 | 71.8 | 704 | 158.3 |
| RY4-700-4-490 | 711.2 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 499 | 19.65 | 63 | 50 | 884 | 35.8 | 351 | 78.8 |
| RP5-700-4-490 | 711.2 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 510 | 20.08 | 110 | | | 60.6 | 594 | 133.6 |
| RY3-700-5-490 | 711.2 | 490 | 6324 | 62 | 13942 | 25 | 20 | 528 | 20.79 | 50 | 50 | 824 | 94.9 | 930 | 209.1 |
| RY4-700-5-490 | 711.2 | 490 | 6324 | 62 | 13942 | 25 | 20 | 504 | 19.84 | 69 | 50 | 918 | 60.5 | 594 | 133.5 |
| RP5-700-5-490 | 711.2 | 490 | 6324 | 62 | 13942 | 25 | 20 | 530 | 20.87 | 110 | | | 74.2 | 727 | 163.5 |
| RY4-700-6-490 | 711.2 | 490 | 12754 | 125 | 28117 | 35 | 25 | 519 | 20.43 | 86 | 70 | 950 | 101.2 | 992 | 223.0 |
| RP5-700-6-490 | 711.2 | 490 | 12754 | 125 | 28117 | 35 | 25 | 585 | 23.03 | 140 | | | 136.0 | 1334 | 299.8 |
| RY4-700-7-490 | 711.2 | 490 | 18132 | 178 | 39974 | 40 | 28 | 531 | 20.91 | 92 | 80 | 976 | 96.5 | 946 | 212.7 |
| RP5-700-7-490 | 711.2 | 490 | 18132 | 178 | 39974 | 40 | 28 | 600 | 23.62 | 200 | | | 198.4 | 1946 | 437.5 |
| RY4-700-8-490 | 711.2 | 490 | 25524 | 250 | 56269 | 50 | 35 | 572 | 22.52 | 110 | 90 | 1024 | 213.7 | 2096 | 471.1 |
| RP5-700-8-490 | 711.2 | 490 | 25524 | 250 | 56269 | 50 | 35 | 645 | 25.39 | 190 | | | 249.8 | 2450 | 550.8 |
| RY4-700-9-490 | 711.2 | 490 | 55135 | 541 | 121552 | 70 | 49 | 704 | 27.72 | 138 | 130 | 1100 | 371.9 | 3647 | 819.9 |
| RY4-700-10-490 | 711.2 | 490 | 70330 | 690 | 155050 | 80 | 55 | 763 | 30.04 | 156 | 150 | 1134 | 465.1 | 4562 | 1025.5 |
| RY4-700-11-490 | 711.2 | 490 | 90785 | 890 | 200144 | 90 | 60 | 806 | 31.73 | 194 | 170 | 1202 | 684.4 | 6712 | 1508.8 |




TYPE RY3 CLAMP

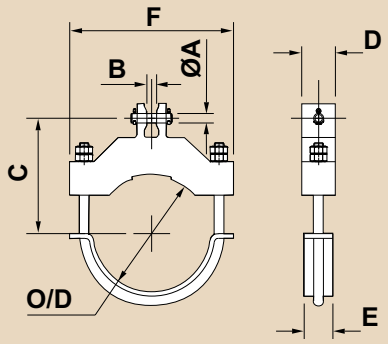



TYPE RY4 CLAMP

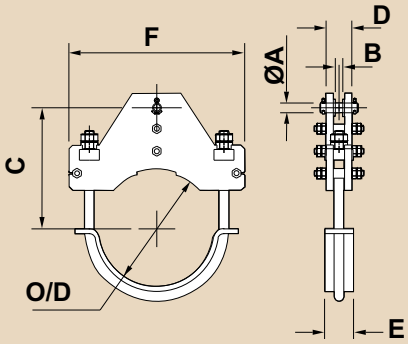



TYPE RP5 CLAMP

| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-700-1-530 | 711.2 | 530 | 423 | 4.15 | 933 | 10 | 9 | 482 | 18.98 | 30 | 30 | 767 | 41.1 | 403 | 90.7 |
| RY4-700-1-530 | 711.2 | 530 | 423 | 4.15 | 933 | 10 | 9 | 482 | 18.98 | 46 | 30 | 808 | 14.5 | 143 | 32.0 |
| RP5-700-1-530 | 711.2 | 530 | 423 | 4.15 | 933 | 10 | 9 | 480 | 18.90 | 70 | | | 17.1 | 168 | 37.7 |
| RY3-700-2-530 | 711.2 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 482 | 18.98 | 30 | 30 | 778 | 44.7 | 439 | 98.6 |
| RY4-700-2-530 | 711.2 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 482 | 18.98 | 49 | 30 | 822 | 14.1 | 138 | 31.1 |
| RP5-700-2-530 | 711.2 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 480 | 18.90 | 80 | | | 24.7 | 242 | 54.5 |
| RY3-700-3-530 | 711.2 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 489 | 19.25 | 40 | 50 | 806 | 65.9 | 646 | 145.3 |
| RY4-700-3-530 | 711.2 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 487 | 19.17 | 57 | 50 | 868 | 36.7 | 360 | 80.8 |
| RP5-700-3-530 | 711.2 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 485 | 19.09 | 100 | | | 41.9 | 411 | 92.5 |
| RY3-700-4-530 | 711.2 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 504 | 19.84 | 50 | 50 | 824 | 88.7 | 870 | 195.6 |
| RY4-700-4-530 | 711.2 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 498 | 19.61 | 63 | 50 | 892 | 62.6 | 614 | 137.9 |
| RP5-700-4-530 | 711.2 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 520 | 20.47 | 100 | | | 66.7 | 654 | 147.0 |
| RY3-700-5-530 | 711.2 | 530 | 6324 | 62 | 13942 | 25 | 20 | 520 | 20.47 | 60 | 70 | 845 | 115.2 | 1129 | 253.9 |
| RY4-700-5-530 | 711.2 | 530 | 6324 | 62 | 13942 | 25 | 20 | 504 | 19.84 | 69 | 70 | 924 | 92.5 | 907 | 204.0 |
| RP5-700-5-530 | 711.2 | 530 | 6324 | 62 | 13942 | 25 | 20 | 530 | 20.87 | 130 | | | 87.5 | 858 | 192.8 |
| RY4-700-6-530 | 711.2 | 530 | 12754 | 125 | 28117 | 35 | 25 | 529 | 20.83 | 86 | 80 | 960 | 92.2 | 904 | 203.3 |
| RP5-700-6-530 | 711.2 | 530 | 12754 | 125 | 28117 | 35 | 25 | 585 | 23.03 | 160 | | | 155.0 | 1520 | 341.8 |
| RY4-700-7-530 | 711.2 | 530 | 18132 | 178 | 39974 | 40 | 28 | 567 | 22.32 | 102 | 90 | 982 | 121.0 | 1187 | 266.8 |
| RP5-700-7-530 | 711.2 | 530 | 18132 | 178 | 39974 | 40 | 28 | 620 | 24.41 | 180 | | | 227.0 | 2226 | 500.3 |
| RY4-700-8-530 | 711.2 | 530 | 25524 | 250 | 56269 | 50 | 35 | 572 | 22.52 | 110 | 100 | 1036 | 230.9 | 2264 | 509.0 |
| RP5-700-8-530 | 711.2 | 530 | 25524 | 250 | 56269 | 50 | 35 | 645 | 25.39 | 200 | | | 262.6 | 2575 | 578.9 |
| RY4-700-9-530 | 711.2 | 530 | 55135 | 541 | 121552 | 70 | 49 | 705 | 27.76 | 138 | 130 | 1100 | 372.8 | 3656 | 821.8 |
| RY4-700-10-530 | 711.2 | 530 | 70330 | 690 | 155050 | 80 | 55 | 763 | 30.04 | 156 | 150 | 1134 | 465.1 | 4562 | 1025.5 |
| RY4-700-11-530 | 711.2 | 530 | 90785 | 890 | 200144 | 90 | 60 | 806 | 31.73 | 194 | 170 | 1202 | 684.4 | 6712 | 1508.8 |
| RY3-700-1-570 | 711.2 | 570 | 423 | 4.15 | 933 | 10 | 9 | 482 | 18.98 | 30 | 30 | 778 | 43.2 | 423 | 95.2 |
| RY4-700-1-570 | 711.2 | 570 | 423 | 4.15 | 933 | 10 | 9 | 482 | 18.98 | 46 | 30 | 814 | 15.4 | 151 | 33.9 |
| RP5-700-1-570 | 711.2 | 570 | 423 | 4 | 933 | 10 | 9 | 480 | 18.9 | 80 | | | 19.6 | 191.8 | 43.1 |
| RY3-700-2-570 | 711.2 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 482 | 18.98 | 30 | 40 | 792 | 48.0 | 471 | 105.8 |
| RY4-700-2-570 | 711.2 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 482 | 18.98 | 49 | 40 | 826 | 21.3 | 208 | 46.8 |
| RP5-700-2-570 | 711.2 | 570 | 985 | 10 | 2172 | 10 | 9 | 480 | 18.9 | 100 | | | 41.2 | 403.7 | 90.8 |
| RY3-700-3-570 | 711.2 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 489 | 19.25 | 50 | 50 | 824 | 84.1 | 825 | 185.4 |
| RY4-700-3-570 | 711.2 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 488 | 19.21 | 57 | 50 | 876 | 59.1 | 580 | 130.3 |
| RP5-700-3-570 | 711.2 | 570 | 2125 | 21 | 4684 | 15 | 12 | 485 | 19.09 | 90 | | | 47.3 | 463.5 | 104.2 |
| RY3-700-4-570 | 711.2 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 503 | 19.80 | 60 | 70 | 845 | 110.6 | 1084 | 243.8 |
| RY4-700-4-570 | 711.2 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 497 | 19.57 | 63 | 70 | 898 | 79.4 | 779 | 175.1 |
| RP5-700-4-570 | 711.2 | 570 | 4293 | 42 | 9465 | 20 | 16 | 520 | 20.47 | 120 | | | 79.8 | 782.7 | 176.0 |
| RY3-700-5-570 | 711.2 | 570 | 6324 | 62 | 13942 | 25 | 20 | 520 | 20.47 | 70 | 80 | 870 | 140.6 | 1378 | 309.9 |
| RY4-700-5-570 | 711.2 | 570 | 6324 | 62 | 13942 | 25 | 20 | 524 | 20.63 | 79 | 80 | 934 | 134.9 | 1323 | 297.4 |
| RP5-700-5-570 | 711.2 | 570 | 6324 | 62 | 13942 | 25 | 20 | 550 | 21.65 | 120 | | | 109.5 | 1073 | 241.3 |
| RY4-700-6-570 | 711.2 | 570 | 12754 | 125 | 28117 | 35 | 25 | 565 | 22.24 | 96 | 90 | 966 | 110.4 | 1083 | 243.4 |
| RP5-700-6-570 | 711.2 | 570 | 12754 | 125 | 28117 | 35 | 25 | 585 | 23.03 | 210 | | | 202.6 | 1987 | 446.6 |
| RY4-700-7-570 | 711.2 | 570 | 18132 | 178 | 39974 | 40 | 28 | 567 | 22.32 | 102 | 100 | 994 | 187.5 | 1838 | 413.3 |
| RP5-700-7-570 | 711.2 | 570 | 18132 | 178 | 39974 | 40 | 28 | 620 | 24.41 | 180 | | | 227.0 | 2226 | 500.3 |
| RY4-700-8-570 | 711.2 | 570 | 25524 | 250 | 56269 | 50 | 35 | 608 | 23.94 | 110 | 120 | 1044 | 255.2 | 2503 | 562.7 |
| RP5-700-8-570 | 711.2 | 570 | 25524 | 250 | 56269 | 50 | 35 | 645 | 25.39 | 250 | | | 326.5 | 3201 | 719.7 |
| RY4-700-9-570 | 711.2 | 570 | 55135 | 541 | 121552 | 70 | 49 | 692 | 27.24 | 148 | 130 | 1100 | 401.6 | 3938 | 885.3 |
| RY4-700-10-570 | 711.2 | 570 | 70330 | 690 | 155050 | 80 | 55 | 748 | 29.45 | 166 | 150 | 1134 | 488.8 | 4794 | 1077.7 |
| RY4-700-11-570 | 711.2 | 570 | 90785 | 890 | 200144 | 90 | 60 | 820 | 32.28 | 194 | 170 | 1202 | 698.8 | 6853 | 1540.5 |




TYPE RY3 CLAMP

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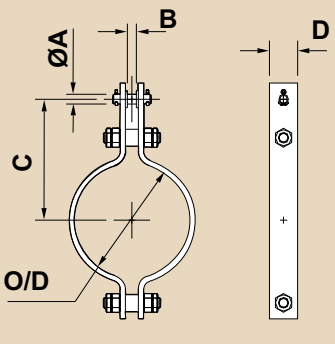
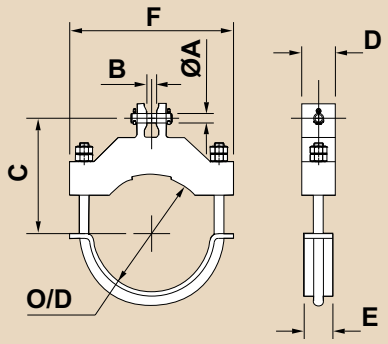
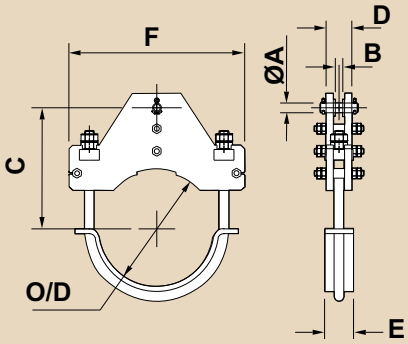



TYPE RP5 CLAMP

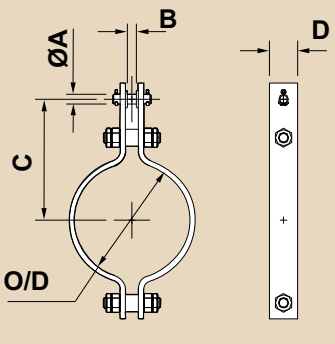
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-750-1-400 | 762 | 400 | 423 | 4.15 | 933 | 10 | 9 | 508 | 20.00 | 35 | 20 | 812 | 51.9 | 509 | 114.4 |
| RY4-750-1-400 | 762 | 400 | 423 | 4.15 | 933 | 10 | 9 | 508 | 20.00 | 56 | 20 | 858 | 14.1 | 138 | 31.0 |
| RP5-750-1-400 | 762 | 400 | 423 | 4.15 | 933 | 10 | 9 | 505 | 19.88 | 60 | | | 13.2 | 129 | 29.0 |
| RY3-750-2-400 | 762 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 508 | 20.00 | 35 | 30 | 819 | 55.7 | 546 | 122.8 |
| RY4-750-2-400 | 762 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 508 | 20.00 | 59 | 30 | 868 | 15.0 | 147 | 33.0 |
| RP5-750-2-400 | 762 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 505 | 19.88 | 80 | | | 26.5 | 260 | 58.5 |
| RY3-750-3-400 | 762 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 515 | 20.28 | 35 | 40 | 844 | 63.3 | 620 | 139.5 |
| RY4-750-3-400 | 762 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 514 | 20.24 | 67 | 40 | 916 | 27.9 | 274 | 61.5 |
| RP5-750-3-400 | 762 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 515 | 20.28 | 100 | | | 45.9 | 450 | 101.1 |
| RY3-750-4-400 | 762 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 544 | 21.42 | 40 | 50 | 858 | 80.9 | 793 | 178.3 |
| RY4-750-4-400 | 762 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 525 | 20.67 | 73 | 50 | 936 | 42.0 | 412 | 92.7 |
| RP5-750-4-400 | 762 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 560 | 22.05 | 100 | | | 72.5 | 711 | 159.7 |
| RY3-750-5-400 | 762 | 400 | 6324 | 62 | 13942 | 25 | 20 | 560 | 22.05 | 50 | 50 | 876 | 106.5 | 1045 | 234.8 |
| RY4-750-5-400 | 762 | 400 | 6324 | 62 | 13942 | 25 | 20 | 530 | 20.87 | 79 | 50 | 970 | 68.1 | 668 | 150.1 |
| RP5-750-5-400 | 762 | 400 | 6324 | 62 | 13942 | 25 | 20 | 575 | 22.64 | 130 | | | 96.7 | 948 | 213.1 |
| RY4-750-6-400 | 762 | 400 | 12754 | 125 | 28117 | 35 | 25 | 555 | 21.85 | 86 | 80 | 1012 | 142.7 | 1400 | 314.6 |
| RP5-750-6-400 | 762 | 400 | 12754 | 125 | 28117 | 35 | 25 | 635 | 25.00 | 160 | | | 171.5 | 1682 | 378.1 |
| RY4-750-7-400 | 762 | 400 | 18132 | 178 | 39974 | 40 | 28 | 593 | 23.35 | 92 | 90 | 1034 | 182.9 | 1794 | 403.3 |
| RP5-750-7-400 | 762 | 400 | 18132 | 178 | 39974 | 40 | 28 | 665 | 26.18 | 180 | | | 245.6 | 2408 | 541.4 |
| RY4-750-8-400 | 762 | 400 | 25524 | 250 | 56269 | 50 | 35 | 598 | 23.54 | 110 | 100 | 1088 | 246.4 | 2417 | 543.3 |
| RP5-750-8-400 | 762 | 400 | 25524 | 250 | 56269 | 50 | 35 | 680 | 26.77 | 210 | | | 295.7 | 2900 | 652.0 |
| RY4-750-9-400 | 762 | 400 | 55135 | 541 | 121552 | 70 | 49 | 728 | 28.66 | 138 | 130 | 1152 | 439.6 | 4311 | 969.2 |
| RY4-750-10-400 | 762 | 400 | 70330 | 690 | 155050 | 80 | 55 | 789 | 31.06 | 156 | 150 | 1186 | 518.7 | 5087 | 1143.6 |
| RY4-750-11-400 | 762 | 400 | 90785 | 890 | 200144 | 90 | 60 | 831 | 32.72 | 194 | 190 | 1264 | 732.1 | 7180 | 1614.1 |
| RY3-750-1-490 | 762 | 490 | 423 | 4.15 | 933 | 10 | 9 | 508 | 20.00 | 35 | 20 | 812 | 51.6 | 506 | 113.8 |
| RY4-750-1-490 | 762 | 490 | 423 | 4.15 | 933 | 10 | 9 | 508 | 20.00 | 56 | 20 | 858 | 14.1 | 138 | 31.0 |
| RP5-750-1-490 | 762 | 490 | 423 | 4.15 | 933 | 10 | 9 | 505 | 19.88 | 60 | | | 13.0 | 127 | 28.6 |
| RY3-750-2-490 | 762 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 508 | 20.00 | 35 | 30 | 819 | 55.7 | 546 | 122.8 |
| RY4-750-2-490 | 762 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 508 | 20.00 | 59 | 30 | 868 | 15.0 | 147 | 33.0 |
| RP5-750-2-490 | 762 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 505 | 19.88 | 80 | | | 26.2 | 257 | 57.8 |
| RY3-750-3-490 | 762 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 515 | 20.28 | 35 | 40 | 844 | 63.0 | 618 | 138.9 |
| RY4-750-3-490 | 762 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 514 | 20.24 | 67 | 40 | 916 | 27.9 | 274 | 61.5 |
| RP5-750-3-490 | 762 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 510 | 20.08 | 100 | | | 44.5 | 436 | 98.0 |
| RY3-750-4-490 | 762 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 542 | 21.34 | 40 | 50 | 858 | 80.4 | 788 | 177.2 |
| RY4-750-4-490 | 762 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 525 | 20.67 | 73 | 50 | 936 | 42.1 | 413 | 92.7 |
| RP5-750-4-490 | 762 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 535 | 21.06 | 120 | | | 69.8 | 684 | 153.8 |
| RY3-750-5-490 | 762 | 490 | 6324 | 62 | 13942 | 25 | 20 | 558 | 21.97 | 50 | 50 | 876 | 105.8 | 1038 | 233.3 |
| RY4-750-5-490 | 762 | 490 | 6324 | 62 | 13942 | 25 | 20 | 530 | 20.87 | 79 | 50 | 970 | 68.1 | 668 | 150.2 |
| RP5-750-5-490 | 762 | 490 | 6324 | 62 | 13942 | 25 | 20 | 560 | 22.05 | 120 | | | 85.8 | 841 | 189.2 |
| RY4-750-6-490 | 762 | 490 | 12754 | 125 | 28117 | 35 | 25 | 545 | 21.46 | 86 | 70 | 1002 | 140.6 | 1379 | 309.9 |
| RP5-750-6-490 | 762 | 490 | 12754 | 125 | 28117 | 35 | 25 | 610 | 24.02 | 150 | | | 152.9 | 1499 | 337.0 |
| RY4-750-7-490 | 762 | 490 | 18132 | 178 | 39974 | 40 | 28 | 557 | 21.93 | 92 | 80 | 1028 | 97.9 | 960 | 215.9 |
| RP5-750-7-490 | 762 | 490 | 18132 | 178 | 39974 | 40 | 28 | 625 | 24.61 | 210 | | | 218.6 | 2143 | 481.9 |
| RY4-750-8-490 | 762 | 490 | 25524 | 250 | 56269 | 50 | 35 | 598 | 23.54 | 110 | 90 | 1076 | 228.8 | 2244 | 504.4 |
| RP5-750-8-490 | 762 | 490 | 25524 | 250 | 56269 | 50 | 35 | 670 | 26.38 | 190 | | | 261.5 | 2564 | 576.4 |
| RY4-750-9-490 | 762 | 490 | 55135 | 541 | 121552 | 70 | 49 | 717 | 28.23 | 138 | 130 | 1152 | 434.1 | 4257 | 956.9 |
| RY4-750-10-490 | 762 | 490 | 70330 | 690 | 155050 | 80 | 55 | 778 | 30.63 | 156 | 150 | 1186 | 511.1 | 5012 | 1126.8 |
| RY4-750-11-490 | 762 | 490 | 90785 | 890 | 200144 | 90 | 60 | 822 | 32.36 | 194 | 170 | 1254 | 670.7 | 6577 | 1478.5 |




TYPE RY3 CLAMP

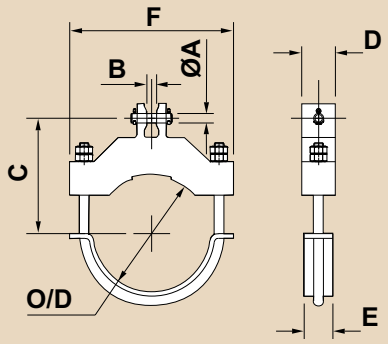



TYPE RY4 CLAMP

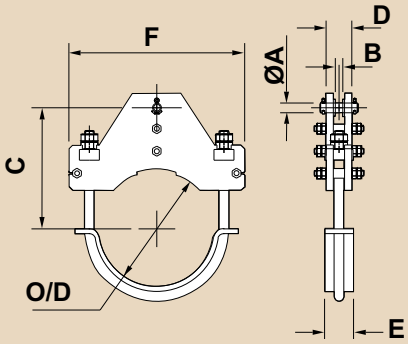



TYPE RP5 CLAMP

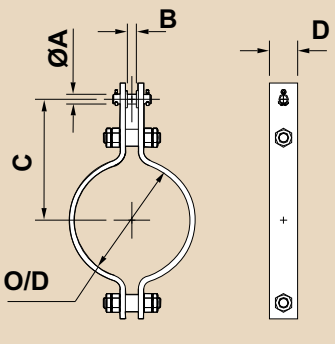
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-750-1-530 | 762 | 530 | 423 | 4.15 | 933 | 10 | 9 | 508 | 20.00 | 35 | 30 | 819 | 53.2 | 522 | 117.3 |
| RY4-750-1-530 | 762 | 530 | 423 | 4.15 | 933 | 10 | 9 | 508 | 20.00 | 56 | 30 | 860 | 15.3 | 150 | 33.7 |
| RP5-750-1-530 | 762 | 530 | 423 | 4.15 | 933 | 10 | 9 | 505 | 19.88 | 70 | | | 18.2 | 178 | 40.1 |
| RY3-750-2-530 | 762 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 508 | 20.00 | 35 | 30 | 830 | 57.5 | 564 | 126.7 |
| RY4-750-2-530 | 762 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 508 | 20.00 | 59 | 30 | 874 | 18.0 | 176 | 39.6 |
| RP5-750-2-530 | 762 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 505 | 19.88 | 80 | | | 26.2 | 257 | 57.8 |
| RY3-750-3-530 | 762 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 515 | 20.28 | 40 | 50 | 858 | 73.6 | 722 | 162.4 |
| RY4-750-3-530 | 762 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 513 | 20.20 | 67 | 50 | 920 | 43.4 | 426 | 95.8 |
| RP5-750-3-530 | 762 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 510 | 20.08 | 100 | | | 44.5 | 436 | 98.0 |
| RY3-750-4-530 | 762 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 533 | 20.98 | 50 | 50 | 876 | 99.1 | 972 | 218.6 |
| RY4-750-4-530 | 762 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 524 | 20.63 | 73 | 50 | 944 | 74.0 | 726 | 163.2 |
| RP5-750-4-530 | 762 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 550 | 21.65 | 100 | | | 70.9 | 695 | 156.2 |
| RY3-750-5-530 | 762 | 530 | 6324 | 62 | 13942 | 25 | 20 | 550 | 21.65 | 60 | 70 | 897 | 128.3 | 1258 | 282.9 |
| RY4-750-5-530 | 762 | 530 | 6324 | 62 | 13942 | 25 | 20 | 530 | 20.87 | 79 | 70 | 976 | 108.5 | 1064 | 239.1 |
| RP5-750-5-530 | 762 | 530 | 6324 | 62 | 13942 | 25 | 20 | 560 | 22.05 | 140 | | | 99.9 | 980 | 220.3 |
| RY4-750-6-530 | 762 | 530 | 12754 | 125 | 28117 | 35 | 25 | 555 | 21.85 | 86 | 80 | 1012 | 97.1 | 952 | 214.1 |
| RP5-750-6-530 | 762 | 530 | 12754 | 125 | 28117 | 35 | 25 | 610 | 24.02 | 160 | | | 162.9 | 1597 | 359.1 |
| RY4-750-7-530 | 762 | 530 | 18132 | 178 | 39974 | 40 | 28 | 593 | 23.35 | 102 | 90 | 1034 | 133.6 | 1310 | 294.4 |
| RP5-750-7-530 | 762 | 530 | 18132 | 178 | 39974 | 40 | 28 | 645 | 25.39 | 180 | | | 238.0 | 2334 | 524.7 |
| RY4-750-8-530 | 762 | 530 | 25524 | 250 | 56269 | 50 | 35 | 598 | 23.54 | 110 | 100 | 1088 | 246.9 | 2421 | 544.3 |
| RP5-750-8-530 | 762 | 530 | 25524 | 250 | 56269 | 50 | 35 | 670 | 26.38 | 210 | | | 288.2 | 2827 | 635.5 |
| RY4-750-9-530 | 762 | 530 | 55135 | 541 | 121552 | 70 | 49 | 718 | 28.27 | 138 | 130 | 1152 | 434.7 | 4263 | 958.3 |
| RY4-750-10-530 | 762 | 530 | 70330 | 690 | 155050 | 80 | 55 | 778 | 30.63 | 156 | 150 | 1186 | 511.1 | 5012 | 1126.8 |
| RY4-750-11-530 | 762 | 530 | 90785 | 890 | 200144 | 90 | 60 | 822 | 32.36 | 194 | 170 | 1254 | 670.7 | 6577 | 1478.5 |
| RY3-750-1-570 | 762 | 570 | 423 | 4.15 | 933 | 10 | 9 | 508 | 20.00 | 35 | 30 | 830 | 55.5 | 545 | 122.5 |
| RY4-750-1-570 | 762 | 570 | 423 | 4.15 | 933 | 10 | 9 | 508 | 20.00 | 56 | 30 | 866 | 16.9 | 166 | 37.3 |
| RP5-750-1-570 | 762 | 570 | 423 | 4 | 933 | 10 | 9 | 505 | 19.88 | 80 | | | 20.8 | 203.6 | 45.8 |
| RY3-750-2-570 | 762 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 508 | 20.00 | 35 | 40 | 844 | 60.8 | 597 | 134.1 |
| RY4-750-2-570 | 762 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 508 | 20.00 | 59 | 40 | 878 | 27.4 | 268 | 60.3 |
| RP5-750-2-570 | 762 | 570 | 985 | 10 | 2172 | 10 | 9 | 505 | 19.88 | 100 | | | 43.7 | 428.1 | 96.2 |
| RY3-750-3-570 | 762 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 515 | 20.28 | 50 | 50 | 876 | 93.8 | 920 | 206.9 |
| RY4-750-3-570 | 762 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 514 | 20.24 | 67 | 50 | 928 | 70.1 | 688 | 154.6 |
| RP5-750-3-570 | 762 | 570 | 2125 | 21 | 4684 | 15 | 12 | 510 | 20.08 | 90 | | | 50.1 | 490.9 | 110.4 |
| RY3-750-4-570 | 762 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 532 | 20.94 | 60 | 70 | 897 | 123.3 | 1209 | 271.8 |
| RY4-750-4-570 | 762 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 523 | 20.59 | 73 | 70 | 950 | 117.5 | 1152 | 259.0 |
| RP5-750-4-570 | 762 | 570 | 4293 | 42 | 9465 | 20 | 16 | 550 | 21.65 | 130 | | | 91.9 | 900.8 | 202.5 |
| RY3-750-5-570 | 762 | 570 | 6324 | 62 | 13942 | 25 | 20 | 549 | 21.61 | 70 | 80 | 922 | 156.0 | 1530 | 344.0 |
| RY4-750-5-570 | 762 | 570 | 6324 | 62 | 13942 | 25 | 20 | 550 | 21.65 | 79 | 80 | 986 | 147.3 | 1444 | 324.6 |
| RP5-750-5-570 | 762 | 570 | 6324 | 62 | 13942 | 25 | 20 | 580 | 22.83 | 120 | | | 116.2 | 1139 | 256.1 |
| RY4-750-6-570 | 762 | 570 | 12754 | 125 | 28117 | 35 | 25 | 591 | 23.27 | 96 | 90 | 1018 | 113.9 | 1117 | 251.2 |
| RP5-750-6-570 | 762 | 570 | 12754 | 125 | 28117 | 35 | 25 | 610 | 24.02 | 210 | | | 212.9 | 2088 | 469.3 |
| RY4-750-7-570 | 762 | 570 | 18132 | 178 | 39974 | 40 | 28 | 593 | 23.35 | 102 | 100 | 1046 | 207.8 | 2038 | 458.1 |
| RP5-750-7-570 | 762 | 570 | 18132 | 178 | 39974 | 40 | 28 | 645 | 25.39 | 180 | | | 238.0 | 2334 | 524.7 |
| RY4-750-8-570 | 762 | 570 | 25524 | 250 | 56269 | 50 | 35 | 634 | 24.96 | 110 | 120 | 1096 | 270.2 | 2650 | 595.8 |
| RP5-750-8-570 | 762 | 570 | 25524 | 250 | 56269 | 50 | 35 | 670 | 26.38 | 260 | | | 355.2 | 3483 | 783.0 |
| RY4-750-9-570 | 762 | 570 | 55135 | 541 | 121552 | 70 | 49 | 707 | 27.83 | 148 | 130 | 1152 | 467.2 | 4581 | 1029.9 |
| RY4-750-10-570 | 762 | 570 | 70330 | 690 | 155050 | 80 | 55 | 762 | 30.00 | 166 | 150 | 1186 | 543.0 | 5325 | 1197.2 |
| RY4-750-11-570 | 762 | 570 | 90785 | 890 | 200144 | 90 | 60 | 835 | 32.87 | 194 | 170 | 1254 | 683.9 | 6706 | 1507.7 |




TYPE RY3 CLAMP

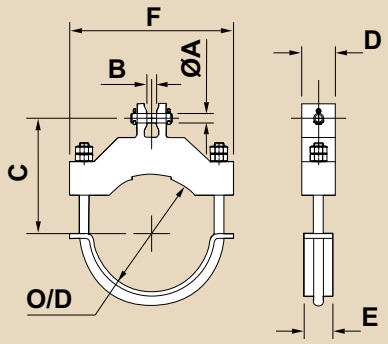



TYPE RY4 CLAMP

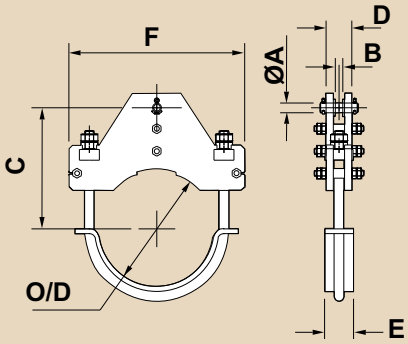



TYPE RP5 CLAMP

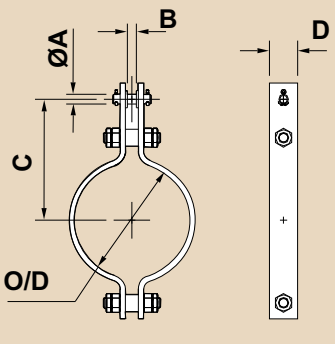
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-800-1-400 | 812.8 | 400 | 423 | 4.15 | 933 | 10 | 9 | 534 | 21.02 | 35 | 20 | 864 | 57.8 | 567 | 127.5 |
| RY4-800-1-400 | 812.8 | 400 | 423 | 4.15 | 933 | 10 | 9 | 534 | 21.02 | 56 | 20 | 910 | 13.7 | 135 | 30.3 |
| RP5-800-1-400 | 812.8 | 400 | 423 | 4.15 | 933 | 10 | 9 | 530 | 20.87 | 60 | | | 13.9 | 136 | 30.7 |
| RY3-800-2-400 | 812.8 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 534 | 21.02 | 35 | 30 | 871 | 62.2 | 610 | 137.1 |
| RY4-800-2-400 | 812.8 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 534 | 21.02 | 59 | 30 | 920 | 15.9 | 156 | 35.1 |
| RP5-800-2-400 | 812.8 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 530 | 20.87 | 80 | | | 28.0 | 275 | 61.7 |
| RY3-800-3-400 | 812.8 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 541 | 21.30 | 35 | 40 | 896 | 70.1 | 688 | 154.6 |
| RY4-800-3-400 | 812.8 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 541 | 21.30 | 67 | 40 | 968 | 34.5 | 339 | 76.1 |
| RP5-800-3-400 | 812.8 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 540 | 21.26 | 100 | | | 48.4 | 474 | 106.6 |
| RY3-800-4-400 | 812.8 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 575 | 22.64 | 40 | 50 | 910 | 90.1 | 883 | 198.6 |
| RY4-800-4-400 | 812.8 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 551 | 21.69 | 73 | 50 | 988 | 53.9 | 529 | 118.9 |
| RP5-800-4-400 | 812.8 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 585 | 23.03 | 100 | | | 76.2 | 747 | 168.0 |
| RY3-800-5-400 | 812.8 | 400 | 6324 | 62 | 13942 | 25 | 20 | 592 | 23.31 | 50 | 50 | 928 | 118.5 | 1162 | 261.2 |
| RY4-800-5-400 | 812.8 | 400 | 6324 | 62 | 13942 | 25 | 20 | 557 | 21.93 | 79 | 50 | 1022 | 83.8 | 821 | 184.6 |
| RP5-800-5-400 | 812.8 | 400 | 6324 | 62 | 13942 | 25 | 20 | 600 | 23.62 | 140 | | | 109.1 | 1070 | 240.6 |
| RY4-800-6-400 | 812.8 | 400 | 12754 | 125 | 28117 | 35 | 25 | 583 | 22.95 | 86 | 80 | 1064 | 153.7 | 1507 | 338.8 |
| RP5-800-6-400 | 812.8 | 400 | 12754 | 125 | 28117 | 35 | 25 | 660 | 25.98 | 170 | | | 190.3 | 1866 | 419.6 |
| RY4-800-7-400 | 812.8 | 400 | 18132 | 178 | 39974 | 40 | 28 | 621 | 24.45 | 92 | 90 | 1086 | 197.2 | 1934 | 434.7 |
| RP5-800-7-400 | 812.8 | 400 | 18132 | 178 | 39974 | 40 | 28 | 700 | 27.56 | 180 | | | 263.1 | 2580 | 580.1 |
| RY4-800-8-400 | 812.8 | 400 | 25524 | 250 | 56269 | 50 | 35 | 626 | 24.65 | 110 | 100 | 1140 | 263.9 | 2588 | 581.7 |
| RP5-800-8-400 | 812.8 | 400 | 25524 | 250 | 56269 | 50 | 35 | 705 | 27.76 | 220 | | | 322.7 | 3165 | 711.4 |
| RY4-800-9-400 | 812.8 | 400 | 55135 | 541 | 121552 | 70 | 49 | 740 | 29.13 | 138 | 130 | 1204 | 497.0 | 4874 | 1095.8 |
| RY4-800-10-400 | 812.8 | 400 | 70330 | 690 | 155050 | 80 | 55 | 802 | 31.57 | 156 | 150 | 1238 | 593.5 | 5820 | 1308.4 |
| RY4-800-11-400 | 812.8 | 400 | 90785 | 890 | 200144 | 90 | 60 | 845 | 33.27 | 194 | 190 | 1316 | 751.2 | 7367 | 1656.2 |
| RY3-800-1-490 | 812.8 | 490 | 423 | 4.15 | 933 | 10 | 9 | 534 | 21.02 | 35 | 20 | 864 | 57.8 | 567 | 127.5 |
| RY4-800-1-490 | 812.8 | 490 | 423 | 4.15 | 933 | 10 | 9 | 534 | 21.02 | 56 | 20 | 910 | 13.8 | 135 | 30.3 |
| RP5-800-1-490 | 812.8 | 490 | 423 | 4.15 | 933 | 10 | 9 | 530 | 20.87 | 60 | | | 13.7 | 135 | 30.3 |
| RY3-800-2-490 | 812.8 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 534 | 21.02 | 35 | 30 | 871 | 61.9 | 607 | 136.5 |
| RY4-800-2-490 | 812.8 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 534 | 21.02 | 59 | 30 | 920 | 15.9 | 156 | 35.1 |
| RP5-800-2-490 | 812.8 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 530 | 20.87 | 80 | | | 27.7 | 272 | 61.1 |
| RY3-800-3-490 | 812.8 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 541 | 21.30 | 35 | 40 | 896 | 69.9 | 685 | 154.0 |
| RY4-800-3-490 | 812.8 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 541 | 21.30 | 67 | 40 | 968 | 34.5 | 339 | 76.2 |
| RP5-800-3-490 | 812.8 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 535 | 21.06 | 100 | | | 46.9 | 460 | 103.5 |
| RY3-800-4-490 | 812.8 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 574 | 22.60 | 40 | 50 | 910 | 89.7 | 879 | 197.7 |
| RY4-800-4-490 | 812.8 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 551 | 21.69 | 73 | 50 | 988 | 53.9 | 529 | 118.9 |
| RP5-800-4-490 | 812.8 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 565 | 22.24 | 120 | | | 74.0 | 725 | 163.1 |
| RY3-800-5-490 | 812.8 | 490 | 6324 | 62 | 13942 | 25 | 20 | 590 | 23.23 | 50 | 50 | 928 | 117.7 | 1154 | 259.5 |
| RY4-800-5-490 | 812.8 | 490 | 6324 | 62 | 13942 | 25 | 20 | 557 | 21.93 | 79 | 50 | 1022 | 83.8 | 822 | 184.8 |
| RP5-800-5-490 | 812.8 | 490 | 6324 | 62 | 13942 | 25 | 20 | 585 | 23.03 | 120 | | | 90.3 | 885 | 199.0 |
| RY4-800-6-490 | 812.8 | 490 | 12754 | 125 | 28117 | 35 | 25 | 571 | 22.48 | 86 | 70 | 1054 | 153.1 | 1501 | 337.4 |
| RP5-800-6-490 | 812.8 | 490 | 12754 | 125 | 28117 | 35 | 25 | 635 | 25.00 | 150 | | | 160.3 | 1572 | 353.4 |
| RY4-800-7-490 | 812.8 | 490 | 18132 | 178 | 39974 | 40 | 28 | 585 | 23.03 | 92 | 80 | 1080 | 102.1 | 1001 | 225.0 |
| RP5-800-7-490 | 812.8 | 490 | 18132 | 178 | 39974 | 40 | 28 | 650 | 25.59 | 220 | | | 239.6 | 2349 | 528.2 |
| RY4-800-8-490 | 812.8 | 490 | 25524 | 250 | 56269 | 50 | 35 | 626 | 24.65 | 110 | 90 | 1128 | 239.9 | 2353 | 528.9 |
| RP5-800-8-490 | 812.8 | 490 | 25524 | 250 | 56269 | 50 | 35 | 700 | 27.56 | 200 | | | 288.5 | 2830 | 636.1 |
| RY4-800-9-490 | 812.8 | 490 | 55135 | 541 | 121552 | 70 | 49 | 731 | 28.78 | 138 | 130 | 1204 | 487.8 | 4784 | 1075.4 |
| RY4-800-10-490 | 812.8 | 490 | 70330 | 690 | 155050 | 80 | 55 | 792 | 31.18 | 156 | 150 | 1238 | 580.4 | 5692 | 1279.6 |
| RY4-800-11-490 | 812.8 | 490 | 90785 | 890 | 200144 | 90 | 60 | 837 | 32.95 | 194 | 170 | 1306 | 689.0 | 6757 | 1519.0 |




TYPE RY3 CLAMP

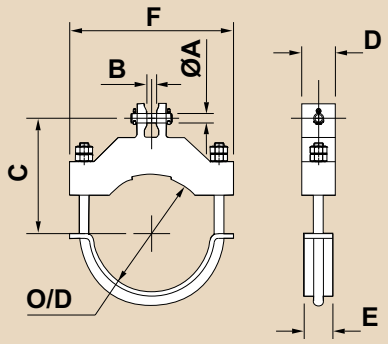



TYPE RY4 CLAMP

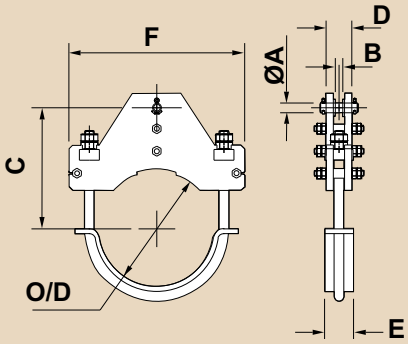



TYPE RP5 CLAMP

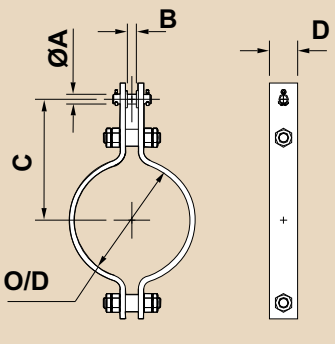
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-800-1-530 | 812.8 | 530 | 423 | 4.15 | 933 | 10 | 9 | 534 | 21.02 | 35 | 30 | 871 | 59.6 | 584 | 131.4 |
| RY4-800-1-530 | 812.8 | 530 | 423 | 4.15 | 933 | 10 | 9 | 534 | 21.02 | 56 | 30 | 912 | 15.0 | 147 | 33.1 |
| RP5-800-1-530 | 812.8 | 530 | 423 | 4.15 | 933 | 10 | 9 | 530 | 20.87 | 70 | | | 19.2 | 189 | 42.4 |
| RY3-800-2-530 | 812.8 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 534 | 21.02 | 35 | 30 | 882 | 64.0 | 628 | 141.2 |
| RY4-800-2-530 | 812.8 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 534 | 21.02 | 59 | 30 | 926 | 21.5 | 211 | 47.4 |
| RP5-800-2-530 | 812.8 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 530 | 20.87 | 80 | | | 27.7 | 272 | 61.1 |
| RY3-800-3-530 | 812.8 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 541 | 21.30 | 40 | 50 | 910 | 81.9 | 803 | 180.5 |
| RY4-800-3-530 | 812.8 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 541 | 21.30 | 67 | 50 | 972 | 51.8 | 508 | 114.3 |
| RP5-800-3-530 | 812.8 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 535 | 21.06 | 100 | | | 46.9 | 460 | 103.5 |
| RY3-800-4-530 | 812.8 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 564 | 22.20 | 50 | 50 | 928 | 110.1 | 1080 | 242.8 |
| RY4-800-4-530 | 812.8 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 550 | 21.65 | 73 | 50 | 996 | 90.2 | 885 | 198.9 |
| RP5-800-4-530 | 812.8 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 575 | 22.64 | 100 | | | 74.6 | 731 | 164.4 |
| RY3-800-5-530 | 812.8 | 530 | 6324 | 62 | 13942 | 25 | 20 | 581 | 22.87 | 60 | 70 | 949 | 142.5 | 1397 | 314.1 |
| RY4-800-5-530 | 812.8 | 530 | 6324 | 62 | 13942 | 25 | 20 | 557 | 21.93 | 79 | 70 | 1028 | 125.6 | 1232 | 276.9 |
| RP5-800-5-530 | 812.8 | 530 | 6324 | 62 | 13942 | 25 | 20 | 585 | 23.03 | 140 | | | 105.2 | 1031 | 231.8 |
| RY4-800-6-530 | 812.8 | 530 | 12754 | 125 | 28117 | 35 | 25 | 583 | 22.95 | 86 | 80 | 1064 | 112.0 | 1099 | 247.0 |
| RP5-800-6-530 | 812.8 | 530 | 12754 | 125 | 28117 | 35 | 25 | 635 | 25.00 | 170 | | | 181.3 | 1778 | 399.7 |
| RY4-800-7-530 | 812.8 | 530 | 18132 | 178 | 39974 | 40 | 28 | 621 | 24.45 | 102 | 90 | 1086 | 143.2 | 1404 | 315.6 |
| RP5-800-7-530 | 812.8 | 530 | 18132 | 178 | 39974 | 40 | 28 | 675 | 26.57 | 180 | | | 250.3 | 2455 | 551.8 |
| RY4-800-8-530 | 812.8 | 530 | 25524 | 250 | 56269 | 50 | 35 | 626 | 24.65 | 110 | 100 | 1140 | 264.3 | 2592 | 582.7 |
| RP5-800-8-530 | 812.8 | 530 | 25524 | 250 | 56269 | 50 | 35 | 700 | 27.56 | 220 | | | 316.7 | 3105 | 698.1 |
| RY4-800-9-530 | 812.8 | 530 | 55135 | 541 | 121552 | 70 | 49 | 731 | 28.78 | 138 | 130 | 1204 | 491.2 | 4817 | 1083.0 |
| RY4-800-10-530 | 812.8 | 530 | 70330 | 690 | 155050 | 80 | 55 | 792 | 31.18 | 156 | 150 | 1238 | 580.4 | 5692 | 1279.6 |
| RY4-800-11-530 | 812.8 | 530 | 90785 | 890 | 200144 | 90 | 60 | 837 | 32.95 | 194 | 170 | 1306 | 689.0 | 6757 | 1519.0 |
| RY3-800-1-570 | 812.8 | 570 | 423 | 4.15 | 933 | 10 | 9 | 534 | 21.02 | 35 | 30 | 882 | 62.0 | 608 | 136.8 |
| RY4-800-1-570 | 812.8 | 570 | 423 | 4.15 | 933 | 10 | 9 | 534 | 21.02 | 56 | 30 | 918 | 16.8 | 164 | 36.9 |
| RP5-800-1-570 | 812.8 | 570 | 423 | 4 | 933 | 10 | 9 | 530 | 20.87 | 80 | | | 22.0 | 215.3 | 48.4 |
| RY3-800-2-570 | 812.8 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 534 | 21.02 | 35 | 40 | 896 | 67.6 | 663 | 149.0 |
| RY4-800-2-570 | 812.8 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 534 | 21.02 | 59 | 40 | 930 | 36.8 | 361 | 81.2 |
| RP5-800-2-570 | 812.8 | 570 | 985 | 10 | 2172 | 10 | 9 | 530 | 20.87 | 100 | | | 46.3 | 454 | 102.1 |
| RY3-800-3-570 | 812.8 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 541 | 21.30 | 50 | 50 | 928 | 103.8 | 1018 | 228.8 |
| RY4-800-3-570 | 812.8 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 541 | 21.30 | 67 | 50 | 980 | 86.5 | 848 | 190.7 |
| RP5-800-3-570 | 812.8 | 570 | 2125 | 21 | 4684 | 15 | 12 | 540 | 21.26 | 90 | | | 53.2 | 521.8 | 117.3 |
| RY3-800-4-570 | 812.8 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 563 | 22.17 | 60 | 70 | 949 | 136.7 | 1341 | 301.4 |
| RY4-800-4-570 | 812.8 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 551 | 21.69 | 73 | 70 | 1002 | 131.2 | 1287 | 289.3 |
| RP5-800-4-570 | 812.8 | 570 | 4293 | 42 | 9465 | 20 | 16 | 575 | 22.64 | 130 | | | 96.7 | 948.2 | 213.2 |
| RY3-800-5-570 | 812.8 | 570 | 6324 | 62 | 13942 | 25 | 20 | 580 | 22.83 | 70 | 80 | 974 | 172.3 | 1690 | 379.9 |
| RY4-800-5-570 | 812.8 | 570 | 6324 | 62 | 13942 | 25 | 20 | 578 | 22.76 | 79 | 80 | 1038 | 159.9 | 1568 | 352.5 |
| RP5-800-5-570 | 812.8 | 570 | 6324 | 62 | 13942 | 25 | 20 | 605 | 23.82 | 120 | | | 122.1 | 1197 | 269.1 |
| RY4-800-6-570 | 812.8 | 570 | 12754 | 125 | 28117 | 35 | 25 | 619 | 24.37 | 96 | 90 | 1070 | 119.0 | 1167 | 262.3 |
| RP5-800-6-570 | 812.8 | 570 | 12754 | 125 | 28117 | 35 | 25 | 635 | 25 | 210 | | | 223.3 | 2190 | 492.3 |
| RY4-800-7-570 | 812.8 | 570 | 18132 | 178 | 39974 | 40 | 28 | 621 | 24.45 | 102 | 100 | 1098 | 222.5 | 2182 | 490.6 |
| RP5-800-7-570 | 812.8 | 570 | 18132 | 178 | 39974 | 40 | 28 | 675 | 26.57 | 190 | | | 264.0 | 2589 | 581.9 |
| RY4-800-8-570 | 812.8 | 570 | 25524 | 250 | 56269 | 50 | 35 | 662 | 26.06 | 110 | 120 | 1148 | 276.3 | 2710 | 609.2 |
| RP5-800-8-570 | 812.8 | 570 | 25524 | 250 | 56269 | 50 | 35 | 700 | 27.56 | 270 | | | 387.0 | 3795 | 853.2 |
| RY4-800-9-570 | 812.8 | 570 | 55135 | 541 | 121552 | 70 | 49 | 759 | 29.88 | 138 | 130 | 1204 | 507.6 | 4978 | 1119.0 |
| RY4-800-10-570 | 812.8 | 570 | 70330 | 690 | 155050 | 80 | 55 | 813 | 32.01 | 156 | 150 | 1238 | 598.0 | 5865 | 1318.4 |
| RY4-800-11-570 | 812.8 | 570 | 90785 | 890 | 200144 | 90 | 60 | 850 | 33.46 | 194 | 170 | 1306 | 703.5 | 6899 | 1551.0 |




TYPE RY3 CLAMP

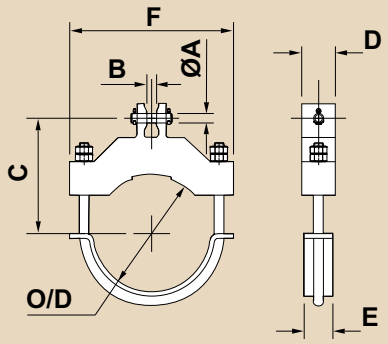



TYPE RY4 CLAMP

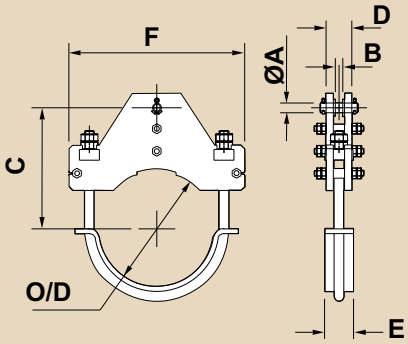



TYPE RP5 CLAMP

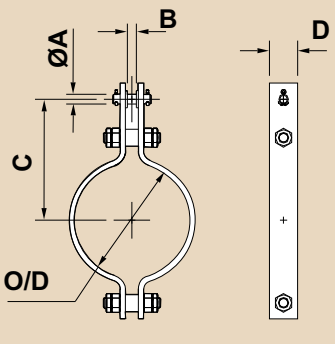
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-850-1-400 | 863.6 | 400 | 423 | 4.15 | 933 | 10 | 9 | 559 | 22.01 | 35 | 20 | 914 | 64.5 | 633 | 142.3 |
| RY4-850-1-400 | 863.6 | 400 | 423 | 4.15 | 933 | 10 | 9 | 559 | 22.01 | 56 | 20 | 960 | 16.0 | 157 | 35.3 |
| RP5-850-1-400 | 863.6 | 400 | 423 | 4.15 | 933 | 10 | 9 | 555 | 21.85 | 70 | | | 20.5 | 201 | 45.1 |
| RY3-850-2-400 | 863.6 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 559 | 22.01 | 35 | 30 | 921 | 68.8 | 674 | 151.6 |
| RY4-850-2-400 | 863.6 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 559 | 22.01 | 59 | 30 | 970 | 20.9 | 205 | 46.0 |
| RP5-850-2-400 | 863.6 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 555 | 21.85 | 80 | | | 29.5 | 289 | 65.0 |
| RY3-850-3-400 | 863.6 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 566 | 22.28 | 35 | 40 | 946 | 77.4 | 759 | 170.5 |
| RY4-850-3-400 | 863.6 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 566 | 22.28 | 67 | 40 | 1018 | 45.9 | 450 | 101.3 |
| RP5-850-3-400 | 863.6 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 565 | 22.24 | 100 | | | 50.8 | 498 | 112.0 |
| RY3-850-4-400 | 863.6 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 604 | 23.78 | 40 | 50 | 960 | 99.4 | 975 | 219.1 |
| RY4-850-4-400 | 863.6 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 576 | 22.68 | 73 | 50 | 1038 | 71.0 | 697 | 156.6 |
| RP5-850-4-400 | 863.6 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 610 | 24.02 | 100 | | | 79.9 | 783 | 176.1 |
| RY3-850-5-400 | 863.6 | 400 | 6324 | 62 | 13942 | 25 | 20 | 620 | 24.41 | 50 | 50 | 978 | 130.6 | 1280 | 287.8 |
| RY4-850-5-400 | 863.6 | 400 | 6324 | 62 | 13942 | 25 | 20 | 582 | 22.91 | 79 | 50 | 1072 | 104.6 | 1026 | 230.6 |
| RP5-850-5-400 | 863.6 | 400 | 6324 | 62 | 13942 | 25 | 20 | 625 | 24.61 | 140 | | | 114.3 | 1121 | 252.0 |
| RY4-850-6-400 | 863.6 | 400 | 12754 | 125 | 28117 | 35 | 25 | 608 | 23.94 | 86 | 80 | 1114 | 170.0 | 1668 | 374.9 |
| RP5-850-6-400 | 863.6 | 400 | 12754 | 125 | 28117 | 35 | 25 | 685 | 26.97 | 170 | | | 198.6 | 1947 | 437.7 |
| RY4-850-7-400 | 863.6 | 400 | 18132 | 178 | 39974 | 40 | 28 | 646 | 25.43 | 92 | 90 | 1136 | 209.6 | 2055 | 462.1 |
| RP5-850-7-400 | 863.6 | 400 | 18132 | 178 | 39974 | 40 | 28 | 725 | 28.54 | 180 | | | 274.0 | 2687 | 604.1 |
| RY4-850-8-400 | 863.6 | 400 | 25524 | 250 | 56269 | 50 | 35 | 651 | 25.63 | 110 | 100 | 1190 | 283.3 | 2779 | 624.6 |
| RP5-850-8-400 | 863.6 | 400 | 25524 | 250 | 56269 | 50 | 35 | 745 | 29.33 | 230 | | | 360.3 | 3533 | 794.3 |
| RY4-850-9-400 | 863.6 | 400 | 55135 | 541 | 121552 | 70 | 49 | 753 | 29.65 | 138 | 130 | 1254 | 535.0 | 5247 | 1179.6 |
| RY4-850-10-400 | 863.6 | 400 | 70330 | 690 | 155050 | 80 | 55 | 817 | 32.17 | 156 | 150 | 1288 | 664.8 | 6520 | 1465.7 |
| RY4-850-11-400 | 863.6 | 400 | 90785 | 890 | 200144 | 90 | 60 | 858 | 33.78 | 194 | 190 | 1366 | 825.5 | 8095 | 1819.8 |
| RY3-850-1-490 | 863.6 | 490 | 423 | 4.15 | 933 | 10 | 9 | 559 | 22.01 | 35 | 20 | 914 | 64.5 | 633 | 142.3 |
| RY4-850-1-490 | 863.6 | 490 | 423 | 4.15 | 933 | 10 | 9 | 559 | 22.01 | 56 | 20 | 960 | 16.0 | 157 | 35.3 |
| RP5-850-1-490 | 863.6 | 490 | 423 | 4.15 | 933 | 10 | 9 | 555 | 21.85 | 60 | | | 14.5 | 142 | 31.9 |
| RY3-850-2-490 | 863.6 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 559 | 22.01 | 35 | 30 | 921 | 68.8 | 674 | 151.6 |
| RY4-850-2-490 | 863.6 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 559 | 22.01 | 59 | 30 | 970 | 20.9 | 205 | 46.1 |
| RP5-850-2-490 | 863.6 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 555 | 21.85 | 80 | | | 29.2 | 286 | 64.4 |
| RY3-850-3-490 | 863.6 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 566 | 22.28 | 35 | 40 | 946 | 77.4 | 759 | 170.5 |
| RY4-850-3-490 | 863.6 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 566 | 22.28 | 67 | 40 | 1018 | 45.9 | 451 | 101.3 |
| RP5-850-3-490 | 863.6 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 560 | 22.05 | 100 | | | 49.9 | 489 | 110.0 |
| RY3-850-4-490 | 863.6 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 602 | 23.70 | 40 | 50 | 960 | 98.8 | 969 | 217.8 |
| RY4-850-4-490 | 863.6 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 576 | 22.68 | 73 | 50 | 1038 | 71.8 | 704 | 158.2 |
| RP5-850-4-490 | 863.6 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 600 | 23.62 | 100 | | | 78.3 | 767 | 172.5 |
| RY3-850-5-490 | 863.6 | 490 | 6324 | 62 | 13942 | 25 | 20 | 619 | 24.37 | 50 | 50 | 978 | 130.0 | 1275 | 286.6 |
| RY4-850-5-490 | 863.6 | 490 | 6324 | 62 | 13942 | 25 | 20 | 582 | 22.91 | 79 | 50 | 1072 | 104.7 | 1026 | 230.7 |
| RP5-850-5-490 | 863.6 | 490 | 6324 | 62 | 13942 | 25 | 20 | 615 | 24.21 | 130 | | | 104.2 | 1021 | 229.6 |
| RY4-850-6-490 | 863.6 | 490 | 12754 | 125 | 28117 | 35 | 25 | 596 | 23.46 | 86 | 70 | 1104 | 165.8 | 1626 | 365.4 |
| RP5-850-6-490 | 863.6 | 490 | 12754 | 125 | 28117 | 35 | 25 | 665 | 26.18 | 160 | | | 179.6 | 1761 | 395.9 |
| RY4-850-7-490 | 863.6 | 490 | 18132 | 178 | 39974 | 40 | 28 | 610 | 24.02 | 92 | 80 | 1130 | 106.1 | 1041 | 234.0 |
| RP5-850-7-490 | 863.6 | 490 | 18132 | 178 | 39974 | 40 | 28 | 700 | 27.56 | 180 | | | 261.2 | 2561 | 575.8 |
| RY4-850-8-490 | 863.6 | 490 | 25524 | 250 | 56269 | 50 | 35 | 651 | 25.63 | 110 | 90 | 1178 | 261.3 | 2563 | 576.2 |
| RP5-850-8-490 | 863.6 | 490 | 25524 | 250 | 56269 | 50 | 35 | 725 | 28.54 | 210 | | | 315.3 | 3092 | 695.1 |
| RY4-850-9-490 | 863.6 | 490 | 55135 | 541 | 121552 | 70 | 49 | 743 | 29.25 | 138 | 130 | 1254 | 528.3 | 5181 | 1164.7 |
| RY4-850-10-490 | 863.6 | 490 | 70330 | 690 | 155050 | 80 | 55 | 805 | 31.69 | 156 | 150 | 1288 | 655.4 | 6427 | 1444.9 |
| RY4-850-11-490 | 863.6 | 490 | 90785 | 890 | 200144 | 90 | 60 | 893 | 35.16 | 184 | 170 | 1356 | 749.5 | 7350 | 1652.2 |




TYPE RY3 CLAMP

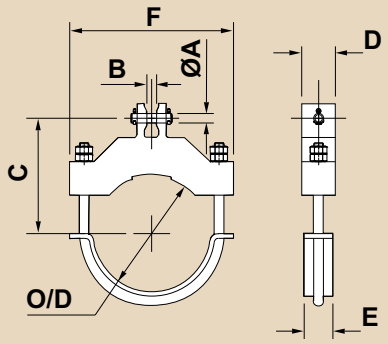



TYPE RY4 CLAMP

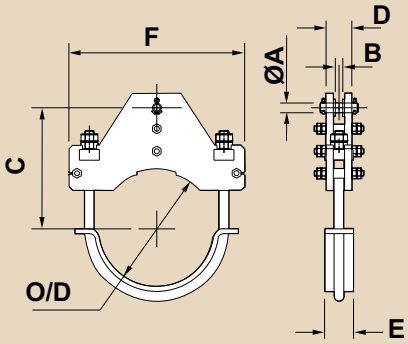



TYPE RP5 CLAMP

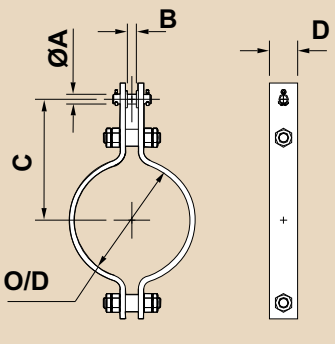
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-850-1-530 | 863.6 | 530 | 423 | 4.15 | 933 | 10 | 9 | 559 | 22.01 | 35 | 30 | 921 | 66.1 | 648 | 145.6 |
| RY4-850-1-530 | 863.6 | 530 | 423 | 4.15 | 933 | 10 | 9 | 559 | 22.01 | 56 | 30 | 962 | 17.3 | 170 | 38.2 |
| RP5-850-1-530 | 863.6 | 530 | 423 | 4.15 | 933 | 10 | 9 | 555 | 21.85 | 70 | | | 20.3 | 199 | 44.7 |
| RY3-850-2-530 | 863.6 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 559 | 22.01 | 35 | 30 | 932 | 70.7 | 693 | 155.9 |
| RY4-850-2-530 | 863.6 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 559 | 22.01 | 59 | 30 | 976 | 29.7 | 291 | 65.5 |
| RP5-850-2-530 | 863.6 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 555 | 21.85 | 80 | | | 29.2 | 286 | 64.4 |
| RY3-850-3-530 | 863.6 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 566 | 22.28 | 40 | 50 | 960 | 90.2 | 885 | 198.9 |
| RY4-850-3-530 | 863.6 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 566 | 22.28 | 67 | 50 | 1022 | 67.0 | 657 | 147.7 |
| RP5-850-3-530 | 863.6 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 560 | 22.05 | 110 | | | 54.8 | 538 | 120.9 |
| RY3-850-4-530 | 863.6 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 592 | 23.31 | 50 | 50 | 978 | 121.9 | 1195 | 268.6 |
| RY4-850-4-530 | 863.6 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 575 | 22.64 | 73 | 50 | 1046 | 109.0 | 1069 | 240.2 |
| RP5-850-4-530 | 863.6 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 600 | 23.62 | 100 | | | 78.3 | 767 | 172.5 |
| RY3-850-5-530 | 863.6 | 530 | 6324 | 62 | 13942 | 25 | 20 | 609 | 23.98 | 60 | 70 | 999 | 156.6 | 1536 | 345.2 |
| RY4-850-5-530 | 863.6 | 530 | 6324 | 62 | 13942 | 25 | 20 | 582 | 22.91 | 79 | 70 | 1078 | 144.7 | 1419 | 318.9 |
| RP5-850-5-530 | 863.6 | 530 | 6324 | 62 | 13942 | 25 | 20 | 615 | 24.21 | 160 | | | 127.8 | 1254 | 281.8 |
| RY4-850-6-530 | 863.6 | 530 | 12754 | 125 | 28117 | 35 | 25 | 608 | 23.94 | 86 | 80 | 1114 | 117.6 | 1153 | 259.2 |
| RP5-850-6-530 | 863.6 | 530 | 12754 | 125 | 28117 | 35 | 25 | 665 | 26.18 | 180 | | | 201.7 | 1978 | 444.6 |
| RY4-850-7-530 | 863.6 | 530 | 18132 | 178 | 39974 | 40 | 28 | 646 | 25.43 | 92 | 90 | 1136 | 217.0 | 2128 | 478.3 |
| RP5-850-7-530 | 863.6 | 530 | 18132 | 178 | 39974 | 40 | 28 | 700 | 27.56 | 180 | | | 261.2 | 2561 | 575.8 |
| RY4-850-8-530 | 863.6 | 530 | 25524 | 250 | 56269 | 50 | 35 | 651 | 25.63 | 110 | 100 | 1190 | 283.8 | 2783 | 625.6 |
| RP5-850-8-530 | 863.6 | 530 | 25524 | 250 | 56269 | 50 | 35 | 725 | 28.54 | 230 | | | 344.7 | 3380 | 759.8 |
| RY4-850-9-530 | 863.6 | 530 | 55135 | 541 | 121552 | 70 | 49 | 744 | 29.29 | 138 | 130 | 1254 | 529.2 | 5190 | 1166.8 |
| RY4-850-10-530 | 863.6 | 530 | 70330 | 690 | 155050 | 80 | 55 | 805 | 31.69 | 156 | 150 | 1288 | 655.4 | 6427 | 1444.9 |
| RY4-850-11-530 | 863.6 | 530 | 90785 | 890 | 200144 | 90 | 60 | 893 | 35.16 | 184 | 170 | 1356 | 749.5 | 7350 | 1652.2 |
| RY3-850-1-570 | 863.6 | 570 | 423 | 4.15 | 933 | 10 | 9 | 559 | 22.01 | 35 | 30 | 932 | 68.6 | 673 | 151.3 |
| RY4-850-1-570 | 863.6 | 570 | 423 | 4.15 | 933 | 10 | 9 | 559 | 22.01 | 56 | 30 | 968 | 19.2 | 188 | 42.2 |
| RP5-850-1-570 | 863.6 | 570 | 423 | 4 | 933 | 10 | 9 | 555 | 21.85 | 80 | | | 23.2 | 227 | 51.0 |
| RY3-850-2-570 | 863.6 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 559 | 22.01 | 35 | 40 | 946 | 74.4 | 730 | 164.1 |
| RY4-850-2-570 | 863.6 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 559 | 22.01 | 59 | 40 | 980 | 50.0 | 490 | 110.2 |
| RP5-850-2-570 | 863.6 | 570 | 985 | 10 | 2172 | 10 | 9 | 555 | 21.85 | 100 | | | 48.7 | 478 | 107.5 |
| RY3-850-3-570 | 863.6 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 566 | 22.28 | 50 | 50 | 978 | 113.9 | 1117 | 251.1 |
| RY4-850-3-570 | 863.6 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 566 | 22.28 | 67 | 50 | 1030 | 104.3 | 1023 | 230.0 |
| RP5-850-3-570 | 863.6 | 570 | 2125 | 21 | 4684 | 15 | 12 | 565 | 22.24 | 100 | | | 62.1 | 609.5 | 137.0 |
| RY3-850-4-570 | 863.6 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 590 | 23.23 | 60 | 70 | 999 | 150.3 | 1474 | 331.3 |
| RY4-850-4-570 | 863.6 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 576 | 22.68 | 73 | 70 | 1052 | 146.1 | 1433 | 322.2 |
| RP5-850-4-570 | 863.6 | 570 | 4293 | 42 | 9465 | 20 | 16 | 600 | 23.62 | 140 | | | 109.2 | 1071 | 240.8 |
| RY3-850-5-570 | 863.6 | 570 | 6324 | 62 | 13942 | 25 | 20 | 608 | 23.94 | 70 | 80 | 1024 | 188.9 | 1852 | 416.5 |
| RY4-850-5-570 | 863.6 | 570 | 6324 | 62 | 13942 | 25 | 20 | 603 | 23.74 | 79 | 80 | 1088 | 172.9 | 1696 | 381.2 |
| RP5-850-5-570 | 863.6 | 570 | 6324 | 62 | 13942 | 25 | 20 | 630 | 24.8 | 120 | | | 127.9 | 1255 | 282.1 |
| RY4-850-6-570 | 863.6 | 570 | 12754 | 125 | 28117 | 35 | 25 | 644 | 25.35 | 86 | 90 | 1120 | 227.2 | 2228 | 500.9 |
| RP5-850-6-570 | 863.6 | 570 | 12754 | 125 | 28117 | 35 | 25 | 685 | 26.97 | 180 | | | 255.3 | 2504 | 562.9 |
| RY4-850-7-570 | 863.6 | 570 | 18132 | 178 | 39974 | 40 | 28 | 646 | 25.43 | 102 | 100 | 1148 | 247.1 | 2423 | 544.8 |
| RP5-850-7-570 | 863.6 | 570 | 18132 | 178 | 39974 | 40 | 28 | 700 | 27.56 | 200 | | | 289.7 | 2841 | 638.8 |
| RY4-850-8-570 | 863.6 | 570 | 25524 | 250 | 56269 | 50 | 35 | 687 | 27.05 | 110 | 120 | 1198 | 300.5 | 2947 | 662.5 |
| RP5-850-8-570 | 863.6 | 570 | 25524 | 250 | 56269 | 50 | 35 | 725 | 28.54 | 280 | | | 418.0 | 4100 | 921.6 |
| RY4-850-9-570 | 863.6 | 570 | 55135 | 541 | 121552 | 70 | 49 | 771 | 30.35 | 138 | 130 | 1254 | 549.1 | 5385 | 1210.6 |
| RY4-850-10-570 | 863.6 | 570 | 70330 | 690 | 155050 | 80 | 55 | 826 | 32.52 | 156 | 150 | 1288 | 678.5 | 6654 | 1495.9 |
| RY4-850-11-570 | 863.6 | 570 | 90785 | 890 | 200144 | 90 | 60 | 863 | 33.98 | 194 | 170 | 1356 | 776.2 | 7612 | 1711.2 |




TYPE RY3 CLAMP

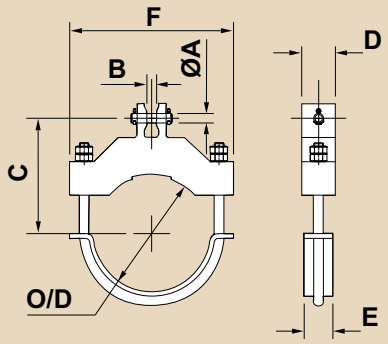



TYPE RY4 CLAMP

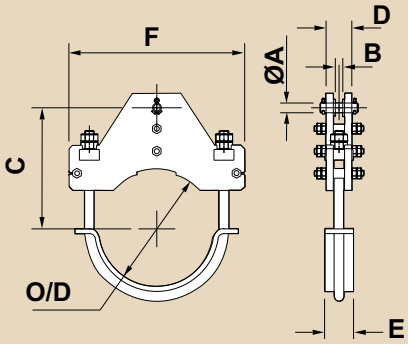



TYPE RP5 CLAMP

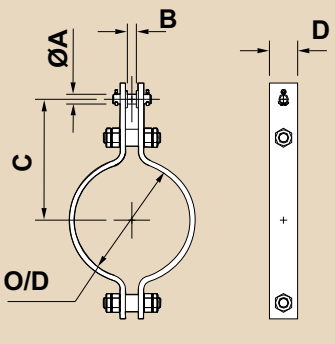
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-900-1-400 | 914.4 | 400 | 423 | 4.15 | 933 | 10 | 9 | 585 | 23.03 | 40 | 20 | 966 | 80.6 | 791 | 177.8 |
| RY4-900-1-400 | 914.4 | 400 | 423 | 4.15 | 933 | 10 | 9 | 585 | 23.03 | 56 | 20 | 1012 | 20.5 | 201 | 45.2 |
| RP5-900-1-400 | 914.4 | 400 | 423 | 4.15 | 933 | 10 | 9 | 580 | 22.83 | 70 | | | 21.5 | 211 | 47.4 |
| RY3-900-2-400 | 914.4 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 585 | 23.03 | 40 | 30 | 973 | 85.5 | 839 | 188.5 |
| RY4-900-2-400 | 914.4 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 585 | 23.03 | 59 | 30 | 1022 | 29.3 | 288 | 64.7 |
| RP5-900-2-400 | 914.4 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 580 | 22.83 | 80 | | | 31.0 | 304 | 68.3 |
| RY3-900-3-400 | 914.4 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 592 | 23.31 | 40 | 40 | 998 | 95.0 | 931 | 209.3 |
| RY4-900-3-400 | 914.4 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 592 | 23.31 | 67 | 40 | 1070 | 63.0 | 617 | 138.8 |
| RP5-900-3-400 | 914.4 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 595 | 23.43 | 100 | | | 53.6 | 526 | 118.2 |
| RY3-900-4-400 | 914.4 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 633 | 24.92 | 40 | 50 | 1012 | 109.3 | 1072 | 240.9 |
| RY4-900-4-400 | 914.4 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 602 | 23.70 | 73 | 50 | 1090 | 88.8 | 871 | 195.8 |
| RP5-900-4-400 | 914.4 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 635 | 25.00 | 100 | | | 83.6 | 820 | 184.3 |
| RY3-900-5-400 | 914.4 | 400 | 6324 | 62 | 13942 | 25 | 20 | 650 | 25.59 | 50 | 50 | 1030 | 143.4 | 1406 | 316.2 |
| RY4-900-5-400 | 914.4 | 400 | 6324 | 62 | 13942 | 25 | 20 | 608 | 23.94 | 79 | 50 | 1124 | 123.9 | 1215 | 273.1 |
| RP5-900-5-400 | 914.4 | 400 | 6324 | 62 | 13942 | 25 | 20 | 655 | 25.79 | 150 | | | 128.6 | 1261 | 283.5 |
| RY4-900-6-400 | 914.4 | 400 | 12754 | 125 | 28117 | 35 | 25 | 634 | 24.96 | 86 | 80 | 1166 | 186.4 | 1828 | 411.0 |
| RP5-900-6-400 | 914.4 | 400 | 12754 | 125 | 28117 | 35 | 25 | 715 | 28.15 | 180 | | | 220.0 | 2157 | 485.0 |
| RY4-900-7-400 | 914.4 | 400 | 18132 | 178 | 39974 | 40 | 28 | 672 | 26.46 | 92 | 90 | 1188 | 222.5 | 2182 | 490.5 |
| RP5-900-7-400 | 914.4 | 400 | 18132 | 178 | 39974 | 40 | 28 | 750 | 29.53 | 180 | | | 285.2 | 2797 | 628.7 |
| RY4-900-8-400 | 914.4 | 400 | 25524 | 250 | 56269 | 50 | 35 | 677 | 26.65 | 110 | 100 | 1242 | 302.6 | 2968 | 667.1 |
| RP5-900-8-400 | 914.4 | 400 | 25524 | 250 | 56269 | 50 | 35 | 775 | 30.51 | 250 | | | 407.9 | 4000 | 899.2 |
| RY4-900-9-400 | 914.4 | 400 | 55135 | 541 | 121552 | 70 | 49 | 768 | 30.24 | 138 | 130 | 1306 | 547.2 | 5366 | 1206.4 |
| RY4-900-10-400 | 914.4 | 400 | 70330 | 690 | 155050 | 80 | 55 | 829 | 32.64 | 156 | 150 | 1340 | 719.8 | 7058 | 1586.8 |
| RY4-900-11-400 | 914.4 | 400 | 90785 | 890 | 200144 | 90 | 60 | 916 | 36.06 | 184 | 190 | 1418 | 913.1 | 8955 | 2013.1 |
| RY3-900-1-490 | 914.4 | 490 | 423 | 4.15 | 933 | 10 | 9 | 585 | 23.03 | 40 | 20 | 966 | 80.6 | 791 | 177.8 |
| RY4-900-1-490 | 914.4 | 490 | 423 | 4.15 | 933 | 10 | 9 | 585 | 23.03 | 56 | 20 | 1012 | 20.5 | 201 | 45.3 |
| RP5-900-1-490 | 914.4 | 490 | 423 | 4.15 | 933 | 10 | 9 | 580 | 22.83 | 60 | | | 15.2 | 149 | 33.6 |
| RY3-900-2-490 | 914.4 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 585 | 23.03 | 40 | 30 | 973 | 85.5 | 839 | 188.5 |
| RY4-900-2-490 | 914.4 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 585 | 23.03 | 59 | 30 | 1022 | 29.4 | 288 | 64.7 |
| RP5-900-2-490 | 914.4 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 580 | 22.83 | 80 | | | 30.8 | 302 | 67.8 |
| RY3-900-3-490 | 914.4 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 592 | 23.31 | 40 | 40 | 998 | 95.0 | 931 | 209.3 |
| RY4-900-3-490 | 914.4 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 592 | 23.31 | 67 | 40 | 1070 | 63.0 | 618 | 138.8 |
| RP5-900-3-490 | 914.4 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 590 | 23.23 | 100 | | | 52.7 | 517 | 116.2 |
| RY3-900-4-490 | 914.4 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 631 | 24.84 | 40 | 50 | 1012 | 108.7 | 1066 | 239.5 |
| RY4-900-4-490 | 914.4 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 602 | 23.70 | 73 | 50 | 1090 | 88.8 | 871 | 195.8 |
| RP5-900-4-490 | 914.4 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 625 | 24.61 | 100 | | | 82.0 | 804 | 180.7 |
| RY3-900-5-490 | 914.4 | 490 | 6324 | 62 | 13942 | 25 | 20 | 648 | 25.51 | 50 | 50 | 1030 | 142.6 | 1399 | 314.4 |
| RY4-900-5-490 | 914.4 | 490 | 6324 | 62 | 13942 | 25 | 20 | 608 | 23.94 | 79 | 50 | 1124 | 123.9 | 1215 | 273.2 |
| RP5-900-5-490 | 914.4 | 490 | 6324 | 62 | 13942 | 25 | 20 | 640 | 25.20 | 140 | | | 117.3 | 1150 | 258.5 |
| RY4-900-6-490 | 914.4 | 490 | 12754 | 125 | 28117 | 35 | 25 | 622 | 24.49 | 86 | 70 | 1156 | 178.6 | 1751 | 393.7 |
| RP5-900-6-490 | 914.4 | 490 | 12754 | 125 | 28117 | 35 | 25 | 690 | 27.17 | 160 | | | 187.5 | 1839 | 413.4 |
| RY4-900-7-490 | 914.4 | 490 | 18132 | 178 | 39974 | 40 | 28 | 636 | 25.04 | 92 | 80 | 1182 | 109.9 | 1078 | 242.3 |
| RP5-900-7-490 | 914.4 | 490 | 18132 | 178 | 39974 | 40 | 28 | 725 | 28.54 | 180 | | | 272.4 | 2671 | 600.5 |
| RY4-900-8-490 | 914.4 | 490 | 25524 | 250 | 56269 | 50 | 35 | 677 | 26.65 | 110 | 90 | 1230 | 281.3 | 2759 | 620.2 |
| RP5-900-8-490 | 914.4 | 490 | 25524 | 250 | 56269 | 50 | 35 | 750 | 29.53 | 220 | | | 343.5 | 3368 | 757.2 |
| RY4-900-9-490 | 914.4 | 490 | 55135 | 541 | 121552 | 70 | 49 | 756 | 29.76 | 138 | 130 | 1306 | 535.5 | 5252 | 1180.7 |
| RY4-900-10-490 | 914.4 | 490 | 70330 | 690 | 155050 | 80 | 55 | 818 | 32.20 | 156 | 150 | 1340 | 711.1 | 6973 | 1567.7 |
| RY4-900-11-490 | 914.4 | 490 | 90785 | 890 | 200144 | 90 | 60 | 907 | 35.71 | 184 | 170 | 1408 | 838.8 | 8226 | 1849.3 |




TYPE RY3 CLAMP

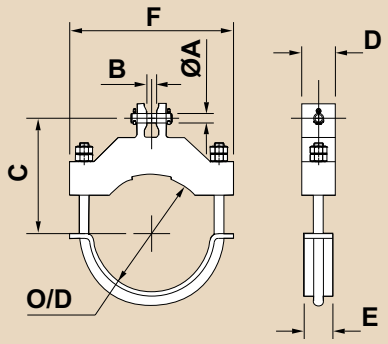



TYPE RY4 CLAMP

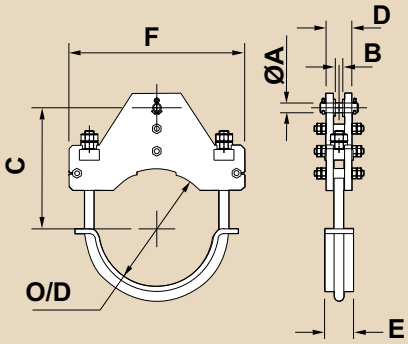



TYPE RP5 CLAMP

| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-900-1-530 | 914.4 | 530 | 423 | 4.15 | 933 | 10 | 9 | 585 | 23.03 | 40 | 30 | 973 | 82.6 | 810 | 182.2 |
| RY4-900-1-530 | 914.4 | 530 | 423 | 4.15 | 933 | 10 | 9 | 585 | 23.03 | 56 | 30 | 1014 | 21.9 | 215 | 48.4 |
| RP5-900-1-530 | 914.4 | 530 | 423 | 4.15 | 933 | 10 | 9 | 580 | 22.83 | 70 | | | 21.3 | 209 | 47.0 |
| RY3-900-2-530 | 914.4 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 585 | 23.03 | 40 | 30 | 984 | 87.7 | 860 | 193.2 |
| RY4-900-2-530 | 914.4 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 585 | 23.03 | 59 | 30 | 1028 | 41.0 | 402 | 90.5 |
| RP5-900-2-530 | 914.4 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 580 | 22.83 | 100 | | | 38.4 | 377 | 84.7 |
| RY3-900-3-530 | 914.4 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 592 | 23.31 | 40 | 50 | 1012 | 98.9 | 970 | 218.1 |
| RY4-900-3-530 | 914.4 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 592 | 23.31 | 67 | 50 | 1074 | 87.0 | 853 | 191.8 |
| RP5-900-3-530 | 914.4 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 600 | 23.62 | 90 | | | 59.6 | 585 | 131.5 |
| RY3-900-4-530 | 914.4 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 621 | 24.45 | 50 | 50 | 1030 | 133.7 | 1311 | 294.7 |
| RY4-900-4-530 | 914.4 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 601 | 23.66 | 73 | 50 | 1098 | 129.6 | 1271 | 285.7 |
| RP5-900-4-530 | 914.4 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 625 | 24.61 | 110 | | | 90.1 | 884 | 198.6 |
| RY3-900-5-530 | 914.4 | 530 | 6324 | 62 | 13942 | 25 | 20 | 638 | 25.12 | 60 | 70 | 1051 | 171.7 | 1684 | 378.6 |
| RY4-900-5-530 | 914.4 | 530 | 6324 | 62 | 13942 | 25 | 20 | 608 | 23.94 | 79 | 70 | 1130 | 162.1 | 1590 | 357.4 |
| RP5-900-5-530 | 914.4 | 530 | 6324 | 62 | 13942 | 25 | 20 | 640 | 25.20 | 160 | | | 133.8 | 1312 | 295.0 |
| RY4-900-6-530 | 914.4 | 530 | 12754 | 125 | 28117 | 35 | 25 | 634 | 24.96 | 86 | 80 | 1166 | 122.0 | 1197 | 269.0 |
| RP5-900-6-530 | 914.4 | 530 | 12754 | 125 | 28117 | 35 | 25 | 690 | 27.17 | 180 | | | 210.6 | 2065 | 464.3 |
| RY4-900-7-530 | 914.4 | 530 | 18132 | 178 | 39974 | 40 | 28 | 672 | 26.46 | 92 | 90 | 1188 | 211.2 | 2071 | 465.6 |
| RP5-900-7-530 | 914.4 | 530 | 18132 | 178 | 39974 | 40 | 28 | 725 | 28.54 | 180 | | | 272.4 | 2671 | 600.5 |
| RY4-900-8-530 | 914.4 | 530 | 25524 | 250 | 56269 | 50 | 35 | 677 | 26.65 | 110 | 100 | 1242 | 303.1 | 2972 | 668.1 |
| RP5-900-8-530 | 914.4 | 530 | 25524 | 250 | 56269 | 50 | 35 | 750 | 29.53 | 240 | | | 374.1 | 3668 | 824.6 |
| RY4-900-9-530 | 914.4 | 530 | 55135 | 541 | 121552 | 70 | 49 | 758 | 29.84 | 138 | 130 | 1306 | 540.2 | 5297 | 1190.9 |
| RY4-900-10-530 | 914.4 | 530 | 70330 | 690 | 155050 | 80 | 55 | 818 | 32.20 | 156 | 150 | 1340 | 711.1 | 6973 | 1567.7 |
| RY4-900-11-530 | 914.4 | 530 | 90785 | 890 | 200144 | 90 | 60 | 907 | 35.71 | 184 | 170 | 1408 | 838.8 | 8226 | 1849.3 |
| RY3-900-1-570 | 914.4 | 570 | 423 | 4.15 | 933 | 10 | 9 | 585 | 23.03 | 40 | 30 | 984 | 85.1 | 835 | 187.7 |
| RY4-900-1-570 | 914.4 | 570 | 423 | 4.15 | 933 | 10 | 9 | 585 | 23.03 | 56 | 30 | 1020 | 25.4 | 249 | 56.1 |
| RP5-900-1-570 | 914.4 | 570 | 423 | 4 | 933 | 10 | 9 | 580 | 22.83 | 80 | | | 24.3 | 238.7 | 53.7 |
| RY3-900-2-570 | 914.4 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 585 | 23.03 | 40 | 40 | 998 | 91.8 | 900 | 202.3 |
| RY4-900-2-570 | 914.4 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 585 | 23.03 | 59 | 40 | 1032 | 65.3 | 641 | 144.0 |
| RP5-900-2-570 | 914.4 | 570 | 985 | 10 | 2172 | 10 | 9 | 580 | 22.83 | 100 | | | 51.3 | 502.7 | 113.0 |
| RY3-900-3-570 | 914.4 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 592 | 23.31 | 50 | 50 | 1030 | 124.8 | 1224 | 275.2 |
| RY4-900-3-570 | 914.4 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 592 | 23.31 | 67 | 50 | 1082 | 124.8 | 1223 | 275.0 |
| RP5-900-3-570 | 914.4 | 570 | 2125 | 21 | 4684 | 15 | 12 | 590 | 23.23 | 100 | | | 65.3 | 639.9 | 143.9 |
| RY3-900-4-570 | 914.4 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 619 | 24.37 | 60 | 70 | 1051 | 164.6 | 1614 | 362.9 |
| RY4-900-4-570 | 914.4 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 602 | 23.70 | 73 | 70 | 1104 | 158.9 | 1559 | 350.4 |
| RP5-900-4-570 | 914.4 | 570 | 4293 | 42 | 9465 | 20 | 16 | 625 | 24.61 | 140 | | | 114.4 | 1122 | 252.3 |
| RY3-900-5-570 | 914.4 | 570 | 6324 | 62 | 13942 | 25 | 20 | 636 | 25.04 | 70 | 80 | 1076 | 206.1 | 2021 | 454.3 |
| RY4-900-5-570 | 914.4 | 570 | 6324 | 62 | 13942 | 25 | 20 | 629 | 24.76 | 79 | 80 | 1140 | 186.2 | 1826 | 410.4 |
| RP5-900-5-570 | 914.4 | 570 | 6324 | 62 | 13942 | 25 | 20 | 660 | 25.98 | 120 | | | 134.6 | 1320 | 296.7 |
| RY4-900-6-570 | 914.4 | 570 | 12754 | 125 | 28117 | 35 | 25 | 670 | 26.38 | 86 | 90 | 1172 | 239.9 | 2353 | 529.0 |
| RP5-900-6-570 | 914.4 | 570 | 12754 | 125 | 28117 | 35 | 25 | 710 | 27.95 | 180 | | | 266.5 | 2614 | 587.6 |
| RY4-900-7-570 | 914.4 | 570 | 18132 | 178 | 39974 | 40 | 28 | 672 | 26.46 | 102 | 100 | 1200 | 269.5 | 2643 | 594.2 |
| RP5-900-7-570 | 914.4 | 570 | 18132 | 178 | 39974 | 40 | 28 | 725 | 28.54 | 200 | | | 302.2 | 2963 | 666.1 |
| RY4-900-8-570 | 914.4 | 570 | 25524 | 250 | 56269 | 50 | 35 | 713 | 28.07 | 110 | 120 | 1250 | 324.9 | 3187 | 716.4 |
| RP5-900-8-570 | 914.4 | 570 | 25524 | 250 | 56269 | 50 | 35 | 750 | 29.53 | 290 | | | 450.5 | 4418 | 993.1 |
| RY4-900-9-570 | 914.4 | 570 | 55135 | 541 | 121552 | 70 | 49 | 786 | 30.94 | 138 | 130 | 1306 | 561.8 | 5509 | 1238.5 |
| RY4-900-10-570 | 914.4 | 570 | 70330 | 690 | 155050 | 80 | 55 | 841 | 33.11 | 156 | 150 | 1340 | 730.4 | 7163 | 1610.2 |
| RY4-900-11-570 | 914.4 | 570 | 90785 | 890 | 200144 | 90 | 60 | 916 | 36.06 | 184 | 170 | 1408 | 856.0 | 8395 | 1887.2 |




TYPE RY3 CLAMP

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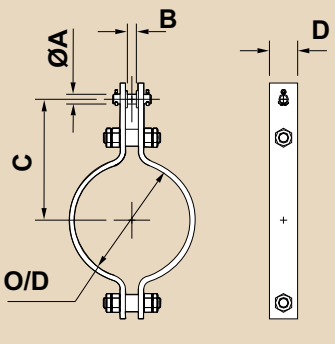
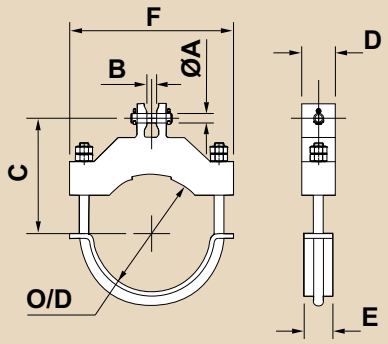
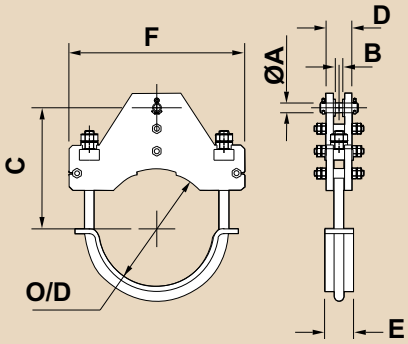



TYPE RP5 CLAMP

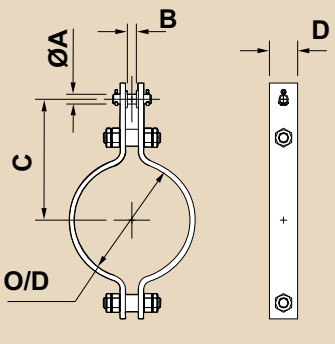
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-950-1-400 | 965 | 400 | 423 | 4.15 | 933 | 10 | 9 | 611 | 24.06 | 40 | 20 | 1018 | 88.9 | 871 | 195.9 |
| RY4-950-1-400 | 965 | 400 | 423 | 4.15 | 933 | 10 | 9 | 611 | 24.06 | 56 | 20 | 1064 | 29.2 | 286 | 64.3 |
| RP5-950-1-400 | 965 | 400 | 423 | 4.15 | 933 | 10 | 9 | 605 | 23.82 | 70 | | | 22.6 | 221 | 49.8 |
| RY3-950-2-400 | 965 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 611 | 24.06 | 40 | 30 | 1025 | 94.3 | 925 | 207.9 |
| RY4-950-2-400 | 965 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 611 | 24.06 | 59 | 30 | 1074 | 40.7 | 399 | 89.8 |
| RP5-950-2-400 | 965 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 605 | 23.82 | 80 | | | 32.6 | 320 | 71.8 |
| RY3-950-3-400 | 965 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 618 | 24.33 | 40 | 40 | 1050 | 104.2 | 1022 | 229.7 |
| RY4-950-3-400 | 965 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 618 | 24.33 | 67 | 40 | 1122 | 80.1 | 786 | 176.6 |
| RP5-950-3-400 | 965 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 620 | 24.41 | 110 | | | 61.7 | 605 | 135.9 |
| RY3-950-4-400 | 965 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 663 | 26.10 | 40 | 50 | 1064 | 120.1 | 1178 | 264.8 |
| RY4-950-4-400 | 965 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 628 | 24.72 | 73 | 50 | 1142 | 111.1 | 1089 | 244.9 |
| RP5-950-4-400 | 965 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 665 | 26.18 | 100 | | | 87.8 | 861 | 193.5 |
| RY3-950-5-400 | 965 | 400 | 6324 | 62 | 13942 | 25 | 20 | 680 | 26.77 | 50 | 50 | 1082 | 156.8 | 1538 | 345.8 |
| RY4-950-5-400 | 965 | 400 | 6324 | 62 | 13942 | 25 | 20 | 634 | 24.96 | 79 | 50 | 1176 | 148.0 | 1451 | 326.3 |
| RP5-950-5-400 | 965 | 400 | 6324 | 62 | 13942 | 25 | 20 | 680 | 26.77 | 150 | | | 134.2 | 1316 | 295.8 |
| RY4-950-6-400 | 965 | 400 | 12754 | 125 | 28117 | 35 | 25 | 660 | 25.98 | 86 | 80 | 1218 | 204.5 | 2006 | 450.9 |
| RP5-950-6-400 | 965 | 400 | 12754 | 125 | 28117 | 35 | 25 | 740 | 29.13 | 190 | | | 241.4 | 2367 | 532.1 |
| RY4-950-7-400 | 965 | 400 | 18132 | 178 | 39974 | 40 | 28 | 698 | 27.48 | 102 | 90 | 1240 | 229.3 | 2249 | 505.5 |
| RP5-950-7-400 | 965 | 400 | 18132 | 178 | 39974 | 40 | 28 | 780 | 30.71 | 180 | | | 297.6 | 2919 | 656.2 |
| RY4-950-8-400 | 965 | 400 | 25524 | 250 | 56269 | 50 | 35 | 703 | 27.68 | 110 | 100 | 1294 | 282.5 | 2770 | 622.8 |
| RP5-950-8-400 | 965 | 400 | 25524 | 250 | 56269 | 50 | 35 | 800 | 31.50 | 250 | | | 423.4 | 4152 | 933.4 |
| RY4-950-9-400 | 965 | 400 | 55135 | 541 | 121552 | 70 | 49 | 780 | 30.71 | 138 | 130 | 1358 | 524.7 | 5145 | 1156.7 |
| RY4-950-10-400 | 965 | 400 | 70330 | 690 | 155050 | 80 | 55 | 844 | 33.23 | 156 | 150 | 1392 | 744.4 | 7300 | 1641.1 |
| RY4-950-11-400 | 965 | 400 | 90785 | 890 | 200144 | 90 | 60 | 931 | 36.65 | 184 | 190 | 1470 | 1010.3 | 9907 | 2227.2 |
| RY3-950-1-490 | 965 | 490 | 423 | 4.15 | 933 | 10 | 9 | 611 | 24.06 | 40 | 20 | 1018 | 88.9 | 871 | 195.9 |
| RY4-950-1-490 | 965 | 490 | 423 | 4.15 | 933 | 10 | 9 | 611 | 24.06 | 56 | 20 | 1064 | 29.2 | 286 | 64.4 |
| RP5-950-1-490 | 965 | 490 | 423 | 4.15 | 933 | 10 | 9 | 605 | 23.82 | 70 | | | 22.4 | 220 | 49.5 |
| RY3-950-2-490 | 965 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 611 | 24.06 | 40 | 30 | 1025 | 94.3 | 925 | 207.9 |
| RY4-950-2-490 | 965 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 611 | 24.06 | 59 | 30 | 1074 | 40.8 | 400 | 89.8 |
| RP5-950-2-490 | 965 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 605 | 23.82 | 80 | | | 32.3 | 317 | 71.2 |
| RY3-950-3-490 | 965 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 618 | 24.33 | 40 | 40 | 1050 | 104.2 | 1022 | 229.7 |
| RY4-950-3-490 | 965 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 618 | 24.33 | 67 | 40 | 1122 | 80.1 | 786 | 176.6 |
| RP5-950-3-490 | 965 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 615 | 24.21 | 100 | | | 55.2 | 541 | 121.7 |
| RY3-950-4-490 | 965 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 661 | 26.02 | 40 | 50 | 1064 | 119.5 | 1172 | 263.4 |
| RY4-950-4-490 | 965 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 628 | 24.72 | 73 | 50 | 1142 | 111.1 | 1089 | 244.9 |
| RP5-950-4-490 | 965 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 655 | 25.79 | 100 | | | 86.2 | 845 | 190.0 |
| RY3-950-5-490 | 965 | 490 | 6324 | 62 | 13942 | 25 | 20 | 678 | 26.69 | 50 | 50 | 1082 | 156.0 | 1530 | 343.9 |
| RY4-950-5-490 | 965 | 490 | 6324 | 62 | 13942 | 25 | 20 | 634 | 24.96 | 79 | 50 | 1176 | 148.1 | 1452 | 326.5 |
| RP5-950-5-490 | 965 | 490 | 6324 | 62 | 13942 | 25 | 20 | 670 | 26.38 | 150 | | | 131.8 | 1293 | 290.6 |
| RY4-950-6-490 | 965 | 490 | 12754 | 125 | 28117 | 35 | 25 | 648 | 25.51 | 86 | 70 | 1208 | 191.3 | 1876 | 421.8 |
| RP5-950-6-490 | 965 | 490 | 12754 | 125 | 28117 | 35 | 25 | 715 | 28.15 | 170 | | | 207.5 | 2035 | 457.5 |
| RY4-950-7-490 | 965 | 490 | 18132 | 178 | 39974 | 40 | 28 | 662 | 26.06 | 92 | 80 | 1234 | 114.5 | 1123 | 252.5 |
| RP5-950-7-490 | 965 | 490 | 18132 | 178 | 39974 | 40 | 28 | 750 | 29.53 | 180 | | | 283.4 | 2779 | 624.8 |
| RY4-950-8-490 | 965 | 490 | 25524 | 250 | 56269 | 50 | 35 | 703 | 27.68 | 110 | 90 | 1282 | 263.3 | 2582 | 580.5 |
| RP5-950-8-490 | 965 | 490 | 25524 | 250 | 56269 | 50 | 35 | 780 | 30.71 | 230 | | | 374.9 | 3676 | 826.4 |
| RY4-950-9-490 | 965 | 490 | 55135 | 541 | 121552 | 70 | 49 | 772 | 30.39 | 138 | 130 | 1358 | 518.8 | 5088 | 1143.8 |
| RY4-950-10-490 | 965 | 490 | 70330 | 690 | 155050 | 80 | 55 | 832 | 32.76 | 156 | 150 | 1392 | 734.5 | 7203 | 1619.3 |
| RY4-950-11-490 | 965 | 490 | 90785 | 890 | 200144 | 90 | 60 | 922 | 36.30 | 184 | 170 | 1460 | 935.6 | 9175 | 2062.7 |




TYPE RY3 CLAMP

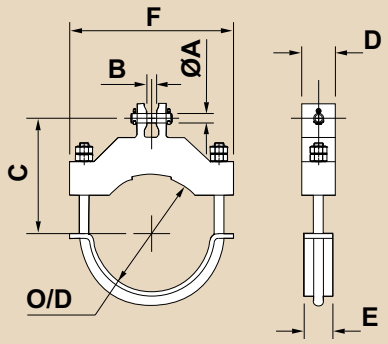



TYPE RY4 CLAMP

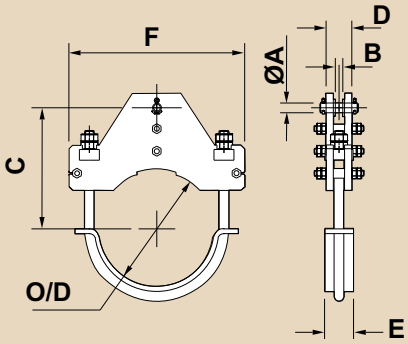



TYPE RP5 CLAMP

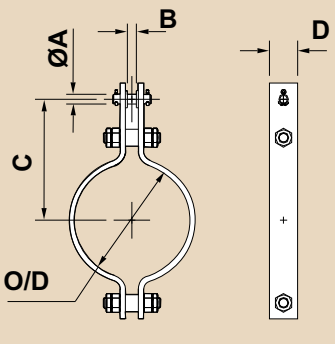
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-950-1-530 | 965 | 530 | 423 | 4.15 | 933 | 10 | 9 | 611 | 24.06 | 40 | 30 | 1025 | 90.9 | 892 | 200.5 |
| RY4-950-1-530 | 965 | 530 | 423 | 4.15 | 933 | 10 | 9 | 611 | 24.06 | 56 | 30 | 1066 | 30.7 | 301 | 67.6 |
| RP5-950-1-530 | 965 | 530 | 423 | 4.15 | 933 | 10 | 9 | 605 | 23.82 | 70 | | | 22.4 | 220 | 49.5 |
| RY3-950-2-530 | 965 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 611 | 24.06 | 40 | 30 | 1036 | 96.6 | 947 | 212.9 |
| RY4-950-2-530 | 965 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 611 | 24.06 | 59 | 30 | 1080 | 55.5 | 545 | 122.5 |
| RP5-950-2-530 | 965 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 605 | 23.82 | 100 | | | 40.3 | 395 | 88.9 |
| RY3-950-3-530 | 965 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 618 | 24.33 | 40 | 50 | 1064 | 108.3 | 1062 | 238.8 |
| RY4-950-3-530 | 965 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 618 | 24.33 | 67 | 50 | 1126 | 105.9 | 1038 | 233.4 |
| RP5-950-3-530 | 965 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 625 | 24.61 | 90 | | | 62.5 | 613 | 137.7 |
| RY3-950-4-530 | 965 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 650 | 25.59 | 50 | 50 | 1082 | 146.4 | 1436 | 322.7 |
| RY4-950-4-530 | 965 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 627 | 24.69 | 73 | 50 | 1150 | 150.1 | 1472 | 331.0 |
| RP5-950-4-530 | 965 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 655 | 25.79 | 110 | | | 94.7 | 929 | 208.8 |
| RY3-950-5-530 | 965 | 530 | 6324 | 62 | 13942 | 25 | 20 | 668 | 26.30 | 60 | 70 | 1103 | 187.7 | 1841 | 413.9 |
| RY4-950-5-530 | 965 | 530 | 6324 | 62 | 13942 | 25 | 20 | 634 | 24.96 | 79 | 70 | 1182 | 178.2 | 1747 | 392.8 |
| RP5-950-5-530 | 965 | 530 | 6324 | 62 | 13942 | 25 | 20 | 690 | 27.17 | 120 | | | 142.5 | 1397 | 314.1 |
| RY4-950-6-530 | 965 | 530 | 12754 | 125 | 28117 | 35 | 25 | 660 | 25.98 | 86 | 80 | 1218 | 128.7 | 1262 | 283.7 |
| RP5-950-6-530 | 965 | 530 | 12754 | 125 | 28117 | 35 | 25 | 715 | 28.15 | 190 | | | 231.6 | 2271 | 510.6 |
| RY4-950-7-530 | 965 | 530 | 18132 | 178 | 39974 | 40 | 28 | 698 | 27.48 | 102 | 90 | 1240 | 229.9 | 2255 | 506.9 |
| RP5-950-7-530 | 965 | 530 | 18132 | 178 | 39974 | 40 | 28 | 750 | 29.53 | 180 | | | 283.4 | 2779 | 624.8 |
| RY4-950-8-530 | 965 | 530 | 25524 | 250 | 56269 | 50 | 35 | 726 | 28.58 | 110 | 100 | 1294 | 319.0 | 3129 | 703.3 |
| RP5-950-8-530 | 965 | 530 | 25524 | 250 | 56269 | 50 | 35 | 780 | 30.71 | 250 | | | 406.8 | 3990 | 896.9 |
| RY4-950-9-530 | 965 | 530 | 55135 | 541 | 121552 | 70 | 49 | 772 | 30.39 | 138 | 130 | 1358 | 517.5 | 5075 | 1140.8 |
| RY4-950-10-530 | 965 | 530 | 70330 | 690 | 155050 | 80 | 55 | 832 | 32.76 | 156 | 150 | 1392 | 734.5 | 7203 | 1619.3 |
| RY4-950-11-530 | 965 | 530 | 90785 | 890 | 200144 | 90 | 60 | 922 | 36.30 | 184 | 170 | 1460 | 935.6 | 9175 | 2062.7 |
| RY3-950-1-570 | 965 | 570 | 423 | 4.15 | 933 | 10 | 9 | 611 | 24.06 | 40 | 30 | 1036 | 93.9 | 921 | 207.1 |
| RY4-950-1-570 | 965 | 570 | 423 | 4.15 | 933 | 10 | 9 | 611 | 24.06 | 56 | 30 | 1072 | 34.9 | 342 | 77.0 |
| RP5-950-1-570 | 965 | 570 | 423 | 4 | 933 | 10 | 9 | 605 | 23.82 | 80 | | | 32.0 | 313.9 | 70.6 |
| RY3-950-2-570 | 965 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 611 | 24.06 | 40 | 40 | 1050 | 100.9 | 989 | 222.4 |
| RY4-950-2-570 | 965 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 611 | 24.06 | 59 | 40 | 1084 | 85.6 | 839 | 188.7 |
| RP5-950-2-570 | 965 | 570 | 985 | 10 | 2172 | 10 | 9 | 605 | 23.82 | 100 | | | 53.7 | 527.1 | 118.5 |
| RY3-950-3-570 | 965 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 618 | 24.33 | 50 | 50 | 1082 | 136.6 | 1340 | 301.2 |
| RY4-950-3-570 | 965 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 618 | 24.33 | 67 | 50 | 1134 | 145.0 | 1422 | 319.7 |
| RP5-950-3-570 | 965 | 570 | 2125 | 21 | 4684 | 15 | 12 | 615 | 24.21 | 100 | | | 68.4 | 670.7 | 150.8 |
| RY3-950-4-570 | 965 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 647 | 25.47 | 60 | 70 | 1103 | 179.9 | 1764 | 396.7 |
| RY4-950-4-570 | 965 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 628 | 24.72 | 73 | 70 | 1156 | 168.9 | 1656 | 372.4 |
| RP5-950-4-570 | 965 | 570 | 4293 | 42 | 9465 | 20 | 16 | 655 | 25.79 | 150 | | | 128.8 | 1263 | 284.0 |
| RY3-950-5-570 | 965 | 570 | 6324 | 62 | 13942 | 25 | 20 | 665 | 26.18 | 70 | 80 | 1128 | 225.4 | 2210 | 496.9 |
| RY4-950-5-570 | 965 | 570 | 6324 | 62 | 13942 | 25 | 20 | 655 | 25.79 | 79 | 80 | 1192 | 199.2 | 1953 | 439.1 |
| RP5-950-5-570 | 965 | 570 | 6324 | 62 | 13942 | 25 | 20 | 685 | 26.97 | 120 | | | 140.5 | 1378 | 309.9 |
| RY4-950-6-570 | 965 | 570 | 12754 | 125 | 28117 | 35 | 25 | 696 | 27.40 | 96 | 90 | 1224 | 197.1 | 1933 | 434.4 |
| RP5-950-6-570 | 965 | 570 | 12754 | 125 | 28117 | 35 | 25 | 735 | 28.94 | 180 | | | 277.6 | 2722 | 611.9 |
| RY4-950-7-570 | 965 | 570 | 18132 | 178 | 39974 | 40 | 28 | 718 | 28.27 | 102 | 100 | 1252 | 326.6 | 3202 | 719.9 |
| RP5-950-7-570 | 965 | 570 | 18132 | 178 | 39974 | 40 | 28 | 750 | 29.53 | 200 | | | 314.4 | 3083 | 693.2 |
| RY4-950-8-570 | 965 | 570 | 25524 | 250 | 56269 | 50 | 35 | 739 | 29.09 | 120 | 120 | 1302 | 287.9 | 2824 | 634.8 |
| RP5-950-8-570 | 965 | 570 | 25524 | 250 | 56269 | 50 | 35 | 780 | 30.71 | 300 | | | 486.8 | 4774 | 1073.1 |
| RY4-950-9-570 | 965 | 570 | 55135 | 541 | 121552 | 70 | 49 | 799 | 31.46 | 138 | 130 | 1358 | 540.2 | 5298 | 1191.0 |
| RY4-950-10-570 | 965 | 570 | 70330 | 690 | 155050 | 80 | 55 | 855 | 33.66 | 156 | 150 | 1392 | 755.9 | 7413 | 1666.5 |
| RY4-950-11-570 | 965 | 570 | 90785 | 890 | 200144 | 90 | 60 | 931 | 36.65 | 184 | 170 | 1460 | 952.2 | 9338 | 2099.3 |




TYPE RY3 CLAMP

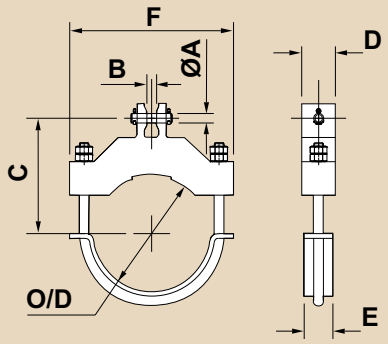



TYPE RY4 CLAMP

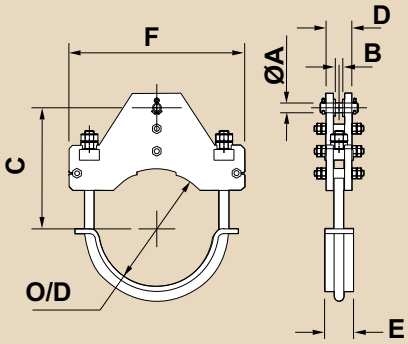



TYPE RP5 CLAMP

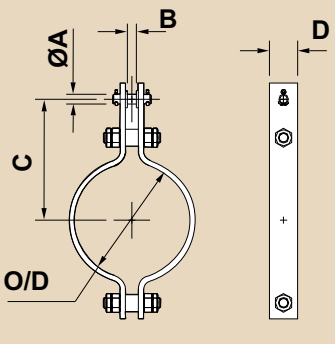
| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-1000-1-400 | 1016 | 400 | 423 | 4.15 | 933 | 10 | 9 | 636 | 25.04 | 45 | 20 | 1068 | 108.7 | 1066 | 239.7 |
| RY4-1000-1-400 | 1016 | 400 | 423 | 4.15 | 933 | 10 | 9 | 636 | 25.04 | 66 | 20 | 1114 | 48.2 | 473 | 106.4 |
| RP5-1000-1-400 | 1016 | 400 | 423 | 4.15 | 933 | 10 | 9 | 630 | 24.80 | 70 | | | 23.6 | 231 | 52.0 |
| RY3-1000-2-400 | 1016 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 636 | 25.04 | 45 | 30 | 1075 | 114.5 | 1123 | 252.5 |
| RY4-1000-2-400 | 1016 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 636 | 25.04 | 69 | 30 | 1124 | 57.4 | 563 | 126.6 |
| RP5-1000-2-400 | 1016 | 400 | 985 | 9.66 | 2172 | 10 | 9 | 630 | 24.80 | 80 | | | 34.1 | 334 | 75.1 |
| RY3-1000-3-400 | 1016 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 643 | 25.31 | 45 | 40 | 1100 | 125.5 | 1231 | 276.7 |
| RY4-1000-3-400 | 1016 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 643 | 25.31 | 77 | 40 | 1172 | 103.2 | 1012 | 227.5 |
| RP5-1000-3-400 | 1016 | 400 | 2125 | 20.8 | 4684 | 15 | 12 | 645 | 25.39 | 110 | | | 64.4 | 631 | 141.9 |
| RY3-1000-4-400 | 1016 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 683 | 26.89 | 45 | 50 | 1114 | 142.1 | 1394 | 313.3 |
| RY4-1000-4-400 | 1016 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 653 | 25.71 | 83 | 50 | 1192 | 137.1 | 1345 | 302.3 |
| RP5-1000-4-400 | 1016 | 400 | 4293 | 42.1 | 9465 | 20 | 16 | 690 | 27.17 | 110 | | | 100.5 | 985 | 221.5 |
| RY3-1000-5-400 | 1016 | 400 | 6324 | 62 | 13942 | 25 | 20 | 708 | 27.87 | 50 | 50 | 1132 | 170.3 | 1670 | 375.5 |
| RY4-1000-5-400 | 1016 | 400 | 6324 | 62 | 13942 | 25 | 20 | 659 | 25.94 | 89 | 50 | 1226 | 178.4 | 1749 | 393.3 |
| RP5-1000-5-400 | 1016 | 400 | 6324 | 62 | 13942 | 25 | 20 | 705 | 27.76 | 160 | | | 148.9 | 1460 | 328.2 |
| RY4-1000-6-400 | 1016 | 400 | 12754 | 125 | 28117 | 35 | 25 | 685 | 26.97 | 96 | 80 | 1268 | 234.5 | 2300 | 517.0 |
| RP5-1000-6-400 | 1016 | 400 | 12754 | 125 | 28117 | 35 | 25 | 765 | 30.12 | 190 | | | 250.6 | 2457 | 552.4 |
| RY4-1000-7-400 | 1016 | 400 | 18132 | 178 | 39974 | 40 | 28 | 723 | 28.46 | 102 | 90 | 1290 | 253.6 | 2486 | 559.0 |
| RP5-1000-7-400 | 1016 | 400 | 18132 | 178 | 39974 | 40 | 28 | 805 | 31.69 | 180 | | | 308.5 | 3026 | 680.2 |
| RY4-1000-8-400 | 1016 | 400 | 25524 | 250 | 56269 | 50 | 35 | 728 | 28.66 | 110 | 100 | 1344 | 294.6 | 2889 | 649.4 |
| RP5-1000-8-400 | 1016 | 400 | 25524 | 250 | 56269 | 50 | 35 | 825 | 32.48 | 260 | | | 455.6 | 4468 | 1004.4 |
| RY4-1000-9-400 | 1016 | 400 | 55135 | 541 | 121552 | 70 | 49 | 797 | 31.38 | 138 | 130 | 1408 | 495.2 | 4857 | 1091.8 |
| RY4-1000-10-400 | 1016 | 400 | 70330 | 690 | 155050 | 80 | 55 | 857 | 33.74 | 156 | 150 | 1442 | 732.4 | 7182 | 1614.7 |
| RY4-1000-11-400 | 1016 | 400 | 90785 | 890 | 200144 | 90 | 60 | 944 | 37.17 | 184 | 190 | 1520 | 1086.5 | 10655 | 2395.4 |
| RY3-1000-1-490 | 1016 | 490 | 423 | 4.15 | 933 | 10 | 9 | 636 | 25.04 | 45 | 20 | 1068 | 108.7 | 1066 | 239.7 |
| RY4-1000-1-490 | 1016 | 490 | 423 | 4.15 | 933 | 10 | 9 | 636 | 25.04 | 66 | 20 | 1114 | 48.3 | 473 | 106.4 |
| RP5-1000-1-490 | 1016 | 490 | 423 | 4.15 | 933 | 10 | 9 | 630 | 24.80 | 70 | | | 23.5 | 230 | 51.7 |
| RY3-1000-2-490 | 1016 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 636 | 25.04 | 45 | 30 | 1075 | 114.5 | 1123 | 252.5 |
| RY4-1000-2-490 | 1016 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 636 | 25.04 | 69 | 30 | 1124 | 57.4 | 563 | 126.6 |
| RP5-1000-2-490 | 1016 | 490 | 985 | 9.66 | 2172 | 10 | 9 | 630 | 24.80 | 80 | | | 33.8 | 331 | 74.4 |
| RY3-1000-3-490 | 1016 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 643 | 25.31 | 45 | 40 | 1100 | 125.1 | 1227 | 275.8 |
| RY4-1000-3-490 | 1016 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 643 | 25.31 | 77 | 40 | 1172 | 103.2 | 1012 | 227.5 |
| RP5-1000-3-490 | 1016 | 490 | 2125 | 20.8 | 4684 | 15 | 12 | 640 | 25.20 | 100 | | | 57.7 | 565 | 127.1 |
| RY3-1000-4-490 | 1016 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 682 | 26.85 | 45 | 50 | 1114 | 141.6 | 1388 | 312.1 |
| RY4-1000-4-490 | 1016 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 653 | 25.71 | 83 | 50 | 1192 | 137.1 | 1345 | 302.3 |
| RP5-1000-4-490 | 1016 | 490 | 4293 | 42.1 | 9465 | 20 | 16 | 680 | 26.77 | 100 | | | 89.9 | 881 | 198.1 |
| RY3-1000-5-490 | 1016 | 490 | 6324 | 62 | 13942 | 25 | 20 | 706 | 27.80 | 50 | 50 | 1132 | 169.5 | 1662 | 373.6 |
| RY4-1000-5-490 | 1016 | 490 | 6324 | 62 | 13942 | 25 | 20 | 659 | 25.94 | 89 | 50 | 1226 | 178.5 | 1750 | 393.4 |
| RP5-1000-5-490 | 1016 | 490 | 6324 | 62 | 13942 | 25 | 20 | 695 | 27.36 | 150 | | | 137.3 | 1347 | 302.8 |
| RY4-1000-6-490 | 1016 | 490 | 12754 | 125 | 28117 | 35 | 25 | 673 | 26.50 | 96 | 70 | 1258 | 238.6 | 2339 | 525.9 |
| RP5-1000-6-490 | 1016 | 490 | 12754 | 125 | 28117 | 35 | 25 | 740 | 29.13 | 170 | | | 215.7 | 2116 | 475.6 |
| RY4-1000-7-490 | 1016 | 490 | 18132 | 178 | 39974 | 40 | 28 | 687 | 27.05 | 102 | 80 | 1284 | 260.5 | 2555 | 574.4 |
| RP5-1000-7-490 | 1016 | 490 | 18132 | 178 | 39974 | 40 | 28 | 795 | 31.30 | 180 | | | 301.9 | 2960 | 665.5 |
| RY4-1000-8-490 | 1016 | 490 | 25524 | 250 | 56269 | 50 | 35 | 728 | 28.66 | 110 | 90 | 1332 | 274.8 | 2695 | 605.9 |
| RP5-1000-8-490 | 1016 | 490 | 25524 | 250 | 56269 | 50 | 35 | 805 | 31.69 | 240 | | | 405.4 | 3975 | 893.7 |
| RY4-1000-9-490 | 1016 | 490 | 55135 | 541 | 121552 | 70 | 49 | 788 | 31.02 | 138 | 130 | 1408 | 481.5 | 4722 | 1061.5 |
| RY4-1000-10-490 | 1016 | 490 | 70330 | 690 | 155050 | 80 | 55 | 845 | 33.27 | 156 | 150 | 1442 | 721.8 | 7079 | 1591.3 |
| RY4-1000-11-490 | 1016 | 490 | 90785 | 890 | 200144 | 90 | 60 | 935 | 36.81 | 184 | 170 | 1510 | 1016.8 | 9971 | 2241.6 |




TYPE RY3 CLAMP




TYPE RY4 CLAMP




TYPE RP5 CLAMP

| Fig. No. | Pipe O/D | Max. Pipe Temp | Max. Load | | | Dia. A | B | C | | D | E | F | Clamp Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | °C | kgf | kN | lbs | mm | mm | mm | in | mm | mm | mm | kgf | N | lbs |
| RY3-1000-1-530 | 1016 | 530 | 423 | 4.15 | 933 | 10 | 9 | 636 | 25.04 | 45 | 30 | 1075 | 110.6 | 1084 | 243.8 |
| RY4-1000-1-530 | 1016 | 530 | 423 | 4.15 | 933 | 10 | 9 | 636 | 25.04 | 66 | 30 | 1116 | 49.9 | 489 | 109.9 |
| RP5-1000-1-530 | 1016 | 530 | 423 | 4.15 | 933 | 10 | 9 | 630 | 24.80 | 70 | | | 23.5 | 230 | 51.7 |
| RY3-1000-2-530 | 1016 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 636 | 25.04 | 45 | 30 | 1086 | 117.0 | 1147 | 257.9 |
| RY4-1000-2-530 | 1016 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 636 | 25.04 | 69 | 30 | 1130 | 76.1 | 747 | 167.9 |
| RP5-1000-2-530 | 1016 | 530 | 985 | 9.66 | 2172 | 10 | 9 | 630 | 24.80 | 100 | | | 42.2 | 413 | 92.9 |
| RY3-1000-3-530 | 1016 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 643 | 25.31 | 45 | 50 | 1114 | 129.5 | 1270 | 285.6 |
| RY4-1000-3-530 | 1016 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 643 | 25.31 | 77 | 50 | 1176 | 131.6 | 1290 | 290.1 |
| RP5-1000-3-530 | 1016 | 530 | 2125 | 20.8 | 4684 | 15 | 12 | 650 | 25.59 | 90 | | | 65.2 | 640 | 143.8 |
| RY3-1000-4-530 | 1016 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 677 | 26.65 | 50 | 50 | 1132 | 159.3 | 1562 | 351.2 |
| RY4-1000-4-530 | 1016 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 652 | 25.67 | 83 | 50 | 1200 | 186.4 | 1828 | 410.9 |
| RP5-1000-4-530 | 1016 | 530 | 4293 | 42.1 | 9465 | 20 | 16 | 680 | 26.77 | 120 | | | 107.7 | 1056 | 237.3 |
| RY3-1000-5-530 | 1016 | 530 | 6324 | 62 | 13942 | 25 | 20 | 695 | 27.36 | 60 | 70 | 1153 | 203.7 | 1997 | 449.0 |
| RY4-1000-5-530 | 1016 | 530 | 6324 | 62 | 13942 | 25 | 20 | 659 | 25.94 | 89 | 70 | 1232 | 225.4 | 2211 | 497.0 |
| RP5-1000-5-530 | 1016 | 530 | 6324 | 62 | 13942 | 25 | 20 | 715 | 28.15 | 120 | | | 148.4 | 1455 | 327.1 |
| RY4-1000-6-530 | 1016 | 530 | 12754 | 125 | 28117 | 35 | 25 | 685 | 26.97 | 96 | 80 | 1268 | 269.4 | 2642 | 593.9 |
| RP5-1000-6-530 | 1016 | 530 | 12754 | 125 | 28117 | 35 | 25 | 740 | 29.13 | 190 | | | 240.8 | 2361 | 530.8 |
| RY4-1000-7-530 | 1016 | 530 | 18132 | 178 | 39974 | 40 | 28 | 723 | 28.46 | 102 | 90 | 1290 | 239.9 | 2352 | 528.8 |
| RP5-1000-7-530 | 1016 | 530 | 18132 | 178 | 39974 | 40 | 28 | 795 | 31.30 | 190 | | | 318.3 | 3122 | 701.8 |
| RY4-1000-8-530 | 1016 | 530 | 25524 | 250 | 56269 | 50 | 35 | 738 | 29.06 | 110 | 100 | 1344 | 364.0 | 3570 | 802.5 |
| RP5-1000-8-530 | 1016 | 530 | 25524 | 250 | 56269 | 50 | 35 | 805 | 31.69 | 260 | | | 438.5 | 4301 | 966.8 |
| RY4-1000-9-530 | 1016 | 530 | 55135 | 541 | 121552 | 70 | 49 | 790 | 31.10 | 138 | 130 | 1408 | 490.2 | 4807 | 1080.7 |
| RY4-1000-10-530 | 1016 | 530 | 70330 | 690 | 155050 | 80 | 55 | 845 | 33.27 | 156 | 150 | 1442 | 721.8 | 7079 | 1591.3 |
| RY4-1000-11-530 | 1016 | 530 | 90785 | 890 | 200144 | 90 | 60 | 935 | 36.81 | 184 | 170 | 1510 | 1016.8 | 9971 | 2241.6 |
| RY3-1000-1-570 | 1016 | 570 | 423 | 4.15 | 933 | 10 | 9 | 636 | 25.04 | 45 | 30 | 1086 | 113.9 | 1117 | 251.1 |
| RY4-1000-1-570 | 1016 | 570 | 423 | 4.15 | 933 | 10 | 9 | 636 | 25.04 | 66 | 30 | 1122 | 52.1 | 511 | 114.8 |
| RP5-1000-1-570 | 1016 | 570 | 423 | 4 | 933 | 10 | 9 | 630 | 24.8 | 80 | | | 33.5 | 328.4 | 73.8 |
| RY3-1000-2-570 | 1016 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 636 | 25.04 | 45 | 40 | 1100 | 121.7 | 1193 | 268.2 |
| RY4-1000-2-570 | 1016 | 570 | 985 | 9.66 | 2172 | 10 | 9 | 636 | 25.04 | 69 | 40 | 1134 | 107.3 | 1052 | 236.5 |
| RP5-1000-2-570 | 1016 | 570 | 985 | 10 | 2172 | 10 | 9 | 630 | 24.8 | 100 | | | 56.2 | 551.1 | 123.9 |
| RY3-1000-3-570 | 1016 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 643 | 25.31 | 50 | 50 | 1132 | 148.2 | 1453 | 326.6 |
| RY4-1000-3-570 | 1016 | 570 | 2125 | 20.8 | 4684 | 15 | 12 | 643 | 25.31 | 77 | 50 | 1184 | 183.3 | 1798 | 404.2 |
| RP5-1000-3-570 | 1016 | 570 | 2125 | 21 | 4684 | 15 | 12 | 650 | 25.59 | 110 | | | 79.6 | 780.9 | 175.6 |
| RY3-1000-4-570 | 1016 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 674 | 26.54 | 60 | 70 | 1153 | 194.9 | 1911 | 429.7 |
| RY4-1000-4-570 | 1016 | 570 | 4293 | 42.1 | 9465 | 20 | 16 | 653 | 25.71 | 83 | 70 | 1206 | 224.2 | 2198 | 494.2 |
| RP5-1000-4-570 | 1016 | 570 | 4293 | 42 | 9465 | 20 | 16 | 680 | 26.77 | 160 | | | 143.3 | 1405 | 315.8 |
| RY3-1000-5-570 | 1016 | 570 | 6324 | 62 | 13942 | 25 | 20 | 693 | 27.28 | 70 | 80 | 1178 | 243.9 | 2392 | 537.7 |
| RY4-1000-5-570 | 1016 | 570 | 6324 | 62 | 13942 | 25 | 20 | 680 | 26.77 | 89 | 80 | 1242 | 252.0 | 2471 | 555.5 |
| RP5-1000-5-570 | 1016 | 570 | 6324 | 62 | 13942 | 25 | 20 | 715 | 28.15 | 120 | | | 148.4 | 1455 | 327.1 |
| RY4-1000-6-570 | 1016 | 570 | 12754 | 125 | 28117 | 35 | 25 | 721 | 28.39 | 96 | 90 | 1274 | 205.6 | 2016 | 453.2 |
| RP5-1000-6-570 | 1016 | 570 | 12754 | 125 | 28117 | 35 | 25 | 765 | 30.12 | 180 | | | 289.9 | 2843 | 639.0 |
| RY4-1000-7-570 | 1016 | 570 | 18132 | 178 | 39974 | 40 | 28 | 734 | 28.90 | 102 | 100 | 1302 | 313.9 | 3079 | 692.1 |
| RP5-1000-7-570 | 1016 | 570 | 18132 | 178 | 39974 | 40 | 28 | 780 | 30.71 | 220 | | | 360.5 | 3535 | 794.7 |
| RY4-1000-8-570 | 1016 | 570 | 25524 | 250 | 56269 | 50 | 35 | 764 | 30.08 | 120 | 120 | 1352 | 315.4 | 3093 | 695.3 |
| RP5-1000-8-570 | 1016 | 570 | 25524 | 250 | 56269 | 50 | 35 | 805 | 31.69 | 310 | | | 521.5 | 5114 | 1149.7 |
| RY4-1000-9-570 | 1016 | 570 | 55135 | 541 | 121552 | 70 | 49 | 811 | 31.93 | 138 | 130 | 1408 | 500.5 | 4909 | 1103.5 |
| RY4-1000-10-570 | 1016 | 570 | 70330 | 690 | 155050 | 80 | 55 | 866 | 34.09 | 156 | 150 | 1442 | 736.1 | 7219 | 1622.8 |
| RY4-1000-11-570 | 1016 | 570 | 90785 | 890 | 200144 | 90 | 60 | 946 | 37.24 | 184 | 170 | 1510 | 1025.6 | 10057 | 2260.9 |

# PIPE CLAMPS AND ANCILLARIES — LOAD GROUP BASIS

Hanger / Support accessories like clamps, hanger rods, turn buckles, clevis etc. which form part of the spring hanger or rod hanger are designed on the Load Group Basis with standardized load bearing capacities.

Metric Hanger rods from M8 to M80 are categorized into 13 load groups as given below :

| Load Group | Rod Thread Size | Load Capacity | |
|---|---|---|---|
| | | kgf | KN |
| 0 | M8 | 230 | 2.3 |
| 1 | M10 | 360 | 3.5 |
| 2 | M12 | 530 | 5.2 |
| 3 | M16 | 1010 | 9.9 |
| 4 | M20 | 1580 | 15.5 |
| 5 | M24 | 2280 | 22.4 |
| 6 | M30 | 3650 | 35.8 |
| 7 | M36 | 5340 | 52.4 |
| 8 | M42 | 7400 | 72.6 |
| 9 | M48 | 9650 | 94.6 |
| 10 | M56 | 13350 | 130.9 |
| 11 | M64 | 18000 | 176.5 |
| 12 | M72 | 23025 | 225.8 |
| 13 | M80 | 28125 | 275.8 |
| 14 | M90 | 35500 | 348.3 |
| 15 | M100 | 45000 | 441.5 |
| 16 | M110 | 55000 | 539.6 |
| 17 | M120 | 66500 | 652.4 |

As a typical example for an operating load of 3300 Kgs the selection will be load group 6. All the components that form the complete assembly like Welded Beam attachment, eye nuts, hanger rod, turnbuckle etc. (Items not covered by pipe lagging or thermal insulation and hence not exposed to pipe temperature) will have the same max load bearing capacity of Load Group 6 for M30 which is 3650 Kgs. The dimensions and design of individual components forming the assembly will fit properly without the need for an interference check or compatibility check as they belong to same load group.

The pipe clamps like 3 Bolt, riser clamps & pipe shoes have a part numbering system which contains the load group, design temperature and description.

Typical Example :

Part Number : PA3-500-5-530

PA3 - Three bolt pipe clamp

500 - 500 NB Pipe Size

5 - Load Group 5

530 - 530°C Design Temperature.

The pipe clamp is made from standard materials and components, hence the load capacity at design temperature will be slightly higher than standard load capacity for the given load group.

With reference to the part number given above the max load capacity of the clamp is 2960 Kg, whereas the max load for Load Group 5 is 2280 Kgs. Note that load capacities for this product number are provided at temperatures above and below the rated design temperature. Load capacities at intermediate temperatures can be obtained by interpolation. As a rule the clamp is not to be used at a temperature above the maximum temperature for the quoted load capacity. For example for the clamp number shown above at 560 °C do not exceed 2140 kgs operating load.

To get the most cost effective and efficient selection of pipe clamps, riser or pipe base several possible selections for a given load and temperature can be made. If the design temperature is inbetween standard design temperatures shown in the catalogue it is possible to make a cost effective economic choice by selecting a lower load group or lower temperature.

Lets us consider an example below to illustrate the selection process:

Pipe Size : 250 NB
Load : 1690 Kg
Temperature : 540 °C

The table below gives possible selections along with MOC & Weights :

| Size | Catalogue Values | | Load @ 540 °C by Interpolation | MOC | Weight |
|---|---|---|---|---|---|
| | Load @ 530 °C | Load @ 560 °C | | | |
| 250-5-490 | 2100 | 1380 | 1860 | P11 | 13.8 Kg |
| 250-4-530 | 1830 | 1360 | 1673 | P11 | 13.5 Kg |
| 250-5-530 | 2480 | 1720 | 2226 | P11 | 17.1 Kg |
| 250-4-560 | 1830 | 1830 | 1830 | P22 | 16.8 Kg |
| 250-5-560 | 2720 | 2720 | 2720 | P22 | 22.8 Kg |

From the above table it is clear that 250-4-530 will not satisfy the working load criteria.

Hence amongst the balance clearly 250-5-490 is the economic choice as it is the lightest and MOC is P11 which is economic with respect to P22.

Therefore when selecting components to make up an assembly it is quite possible that the clamp load group may or may not be the same as the load group of the hanger rods or turnbuckles. This is also true when using clamps with variable effort supports as they have rod sizes designed to withstand maximum load on the spring box.

With this in mind the range of clamps have been designed carefully to be compatible with a range of rod sizes. On the clamp data table the compatible rod sizes are clearly mentioned, this is to be used with the standard catalogue pattern weldless eye nuts and clevis in the case of flat plate type riser clamps.

The clamps and all accessories like rods, eyenuts, welded beam attachments etc. are designed to withstand short time over loads of upto 2 times the rated load capacity, which typically occurs during hydrostatic tests of the pipeline.

Clamp part nos shown in bold letters in the table means they are stocked items.

For combined loading situations where load capacities are given in vertical, lateral and axial directions, the following formula should be applied:

$$\frac{P(v)}{LC(v)} + \frac{P(lat)}{LC(lat)} + \frac{P(ax)}{LC(ax)} = 1$$

Where P represents the actual applied load in the specified direction and LC is the quoted load capacity in the specified direction.

## STANDARDS

The pipe clamps and riser clamps are designed to comply with ASME B31.1 / MSS-SP58. Metric hanger rods load capacity are derived from BS-3974. Most other items are BS3974 std items with stress levels also complying with ASME B31.1 / MSS-SP58. Where components are not standard items of BS3974, they are designed in accordance with ASME B31.1 / MSS-SP58.

## MATERIALS

Pipe Hangers & Supports Private Limited supply to a number of sites worldwide. Materials are selected from the following equivalent or similar specifications suiting availability:

Carbon Steel Items manufactured from Plate or sections, Pipe Clamps to 400$^{O}$C
Euro BS EN10025: S275JR
ASTM ASTM A36
IS IS:2062 E250 Gr BR
JIS JIS G3101 SS400

Carbon Steel Hanger Rods
Euro BS EN10025: S275JR/S355JR
ASTM ASTM A36
IS IS: 2062 E250 Gr BR
JIS JIS G3101 SS400

Carbon Steel for Forgings
Euro BS 970 Grade 080A27
ASTM ASTM A105
IS IS:1875 Gr.2
JIS JIS G3202 SFVC2A

Alloy Steel Plate for clamps with design temperature 401$^{O}$C to 530$^{O}$C
Euro BS EN10028-2 Grade 13CrMo4-5
ASTM ASTM A387 Grade 12 Class 2/Grade 11 Class 2

Alloy Steel Plate for clamps with design temperature 531$^{O}$C to 600$^{O}$C
Euro BS EN10028-2 Grade 10CrMo9-10
ASTM ASTM A387 Grade 22 Class 2

Carbon Steel bolts and nuts
Euro BS 4190/DIN 601 Gr. 4.6 and BS 4190/DIN 555 Gr. 4
IS IS: 1367 (Part III) Gr. 4.6 and IS: 1367 (Part VI) Gr. 4
ASTM ASTM A193B7 and A194 Gr 2H

Bolts and nuts for pipe clamps above 400$^{O}$C
Euro BS 4882 Grade B16/Grade 4
ASTM ASTM A193 Grade B16/A194 Grade 4/Grade 7
JIS JISG4107 SNB16

Where required by client or to suit special operating conditions, pipe clamps, rods, accessories etc. are designed with other materials, for example Alloy steel hanger rods for Boiler Integral Pipe work, clamps with MOC of Gr91, Austenitic stainless steel, Nickel alloys like Incolloy or low temperature carbon steel grades.

Spring Material is a function of design, availability of raw material & hardenability for the given size/application. We recommend that this aspect be left to us/spring vendor

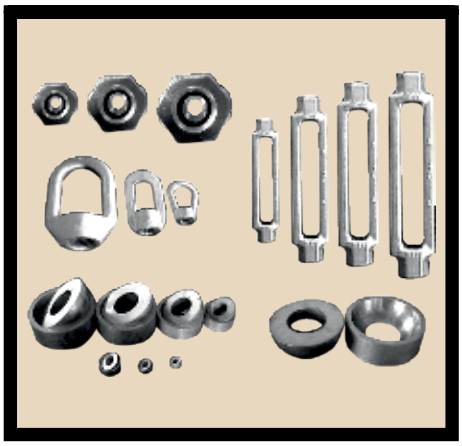
## FINISH

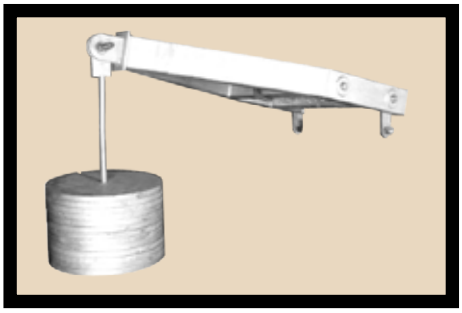
The std finish for pipe clamps and accessories is a coat of zinc rich metal primer, other finishes are available on request to suit site / project requirements.

Zinc Plated
Hot dip Galvanized
Zinc Silicate primer
Silicone based Heat Resistant Aluminum paints
Epoxy & Polyurethane coatings
Customer specific requirements

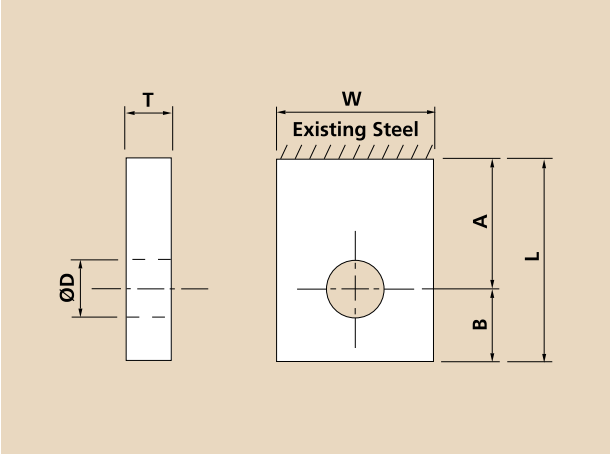
## THREAD FORM

All components are threaded to ISO Metric Coarse pitch unless otherwise stated. Other thread forms can be provided at extra cost / additional delivery times.





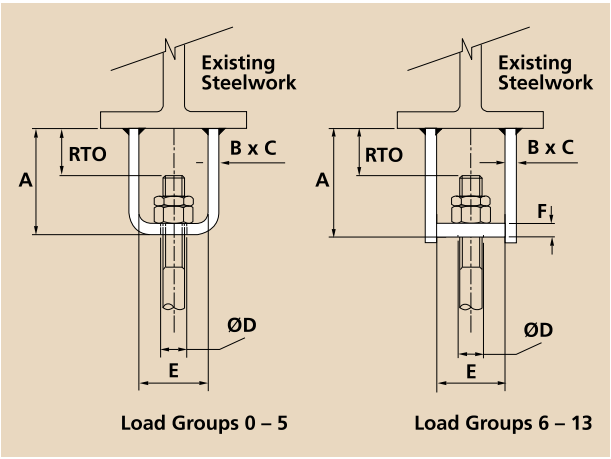
## UA1 LUG ATTACHMENT




*Material: Carbon Steel*

| PART NUMBER | PIN DIA | D DIA | A | B | W | L | T | WEIGHT kgf | LOAD CAPACITY | | LOAD GROUP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Kgf | KN | |
| UA1 M08 | 8 | 10 | 30 | 20 | 50 | 50 | 6 | 0.11 | 230 | 2.3 | 0 |
| UA1 M10 | 10 | 12 | 30 | 20 | 50 | 50 | 6 | 0.11 | 360 | 3.5 | 1 |
| UA1 M12 | 12 | 14 | 30 | 20 | 50 | 50 | 8 | 0.15 | 530 | 5.2 | 2 |
| UA1 M16 | 16 | 18 | 42 | 30 | 60 | 72 | 10 | 0.32 | 1010 | 9.9 | 3 |
| UA1 M20 | 20 | 22 | 50 | 35 | 60 | 85 | 10 | 0.37 | 1580 | 15.5 | 4 |
| UA1 M24 | 24 | 26 | 60 | 45 | 80 | 105 | 12 | 0.74 | 2280 | 22.4 | 5 |
| UA1 M30 | 30 | 33 | 70 | 55 | 100 | 125 | 16 | 1.6 | 3650 | 35.8 | 6 |
| UA1 M36 | 36 | 39 | 80 | 65 | 100 | 145 | 20 | 2.1 | 5340 | 52.4 | 7 |
| UA1 M42 | 42 | 45 | 90 | 75 | 110 | 165 | 25 | 3.3 | 7400 | 72.6 | 8 |
| UA1 M48 | 48 | 52 | 105 | 85 | 130 | 190 | 25 | 4.4 | 9650 | 94.6 | 9 |
| UA1 M56 | 56 | 60 | 120 | 100 | 150 | 220 | 32 | 7.6 | 13350 | 130.9 | 10 |
| UA1 M64 | 64 | 68 | 140 | 115 | 180 | 255 | 36 | 12.0 | 18000 | 176.5 | 11 |
| UA1 M72 | 72 | 76 | 155 | 130 | 200 | 285 | 40 | 16.5 | 23025 | 225.8 | 12 |
| UA1 M80 | 80 | 85 | 175 | 150 | 240 | 325 | 40 | 22.7 | 28125 | 275.8 | 13 |
| UA1 M90 | 90 | 94 | 200 | 170 | 270 | 370 | 50 | 36.5 | 35500 | 348.3 | 14 |
| UA1 M100 | 100 | 104 | 220 | 190 | 300 | 410 | 60 | 53.9 | 45000 | 441.5 | 15 |
| UA1M110 | 110 | 116 | 240 | 210 | 330 | 450 | 60 | 65.0 | 55000 | 539.6 | 16 |
| UA1M120 | 120 | 126 | 275 | 225 | 360 | 500 | 60 | 78.9 | 66500 | 652.4 | 17 |

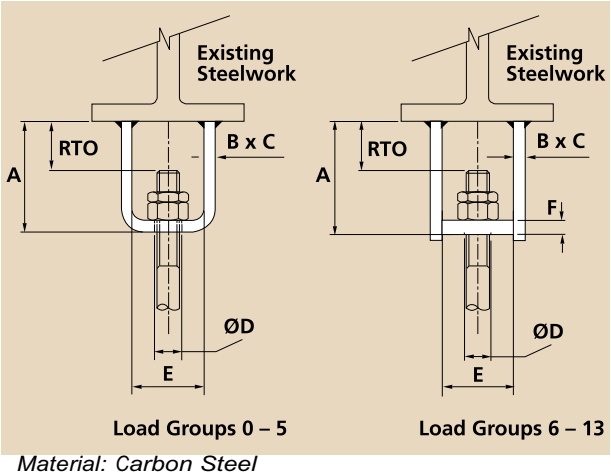
## UA2 BEAM WELDING ATTACHMENT




*Material: Carbon Steel*

| PART NUMBER | ROD THREAD SIZE | A | B | C | D | E | F | R.T.O. | WEIGHT kgf | LOAD CAPACITY | | LOAD GROUP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | kgf | kN | |
| UA2M08 | M8 | 75 | 50 | 6 | 10 | 40 | — | 31 | 0.45 | 230 | 2.3 | 0 |
| UA2M10 | M10 | 75 | 50 | 6 | 12 | 40 | — | 36 | 0.44 | 360 | 3.5 | 1 |
| UA2M12 | M12 | 75 | 50 | 6 | 14 | 40 | — | 33 | 0.44 | 530 | 5.2 | 2 |
| UA2M16 | M16 | 85 | 75 | 10 | 18 | 60 | — | 39 | 1.3 | 1010 | 9.9 | 3 |
| UA2M20 | M20 | 85 | 75 | 12 | 22 | 70 | — | 25 | 1.7 | 1580 | 15.5 | 4 |
| UA2M24 | M24 | 115 | 100 | 12 | 27 | 75 | — | 51 | 2.8 | 2280 | 22.4 | 5 |
| UA2M30 | M30 | 125 | 125 | 16 | 33 | 100 | 16 | 54 | 5.3 | 3650 | 35.8 | 6 |
| UA2M36 | M36 | 165 | 150 | 20 | 39 | 125 | 20 | 72 | 11.0 | 5340 | 52.4 | 7 |
| UA2M42 | M42 | 195 | 150 | 20 | 46 | 135 | 20 | 95 | 12.6 | 7400 | 72.6 | 8 |
| UA2M48 | M48 | 210 | 150 | 20 | 52 | 150 | 25 | 79 | 14.5 | 9650 | 94.6 | 9 |
| UA2M56 | M56 | 240 | 200 | 20 | 60 | 180 | 25 | 78 | 22.4 | 13350 | 130.9 | 10 |
| UA2M64 | M64 | 250 | 200 | 20 | 68 | 215 | 30 | 80 | 25.9 | 18000 | 176.5 | 11 |
| UA2M72 | M72 | 275 | 200 | 25 | 76 | 230 | 40 | 90 | 36.2 | 23025 | 225.8 | 12 |
| UA2M80 | M80 | 300 | 220 | 25 | 85 | 250 | 40 | 100 | 43.1 | 28125 | 275.8 | 13 |

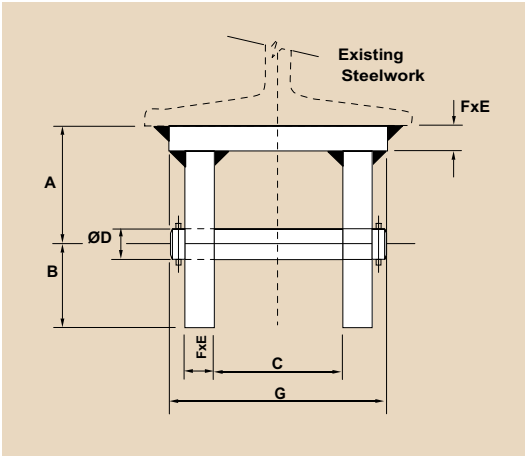
## UA3 BEAM WELDING ATTACHMENT FOR USE WITH DUAL FACED ROCKING WASHER




*Material: Carbon Steel*

| PART NUMBER | ROD THREAD SIZE | A | B | C | D | E | F | R.T.O. | WEIGHT kgf | LOAD CAPACITY | | LOAD GROUP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | kgf | kN | |
| UA3M12 | M12 | 103 | 50 | 6 | 38 | 70 | 10 | 25 | 0.83 | 530 | 5.2 | 2 |
| UA3M16 | M16 | 107 | 75 | 10 | 38 | 70 | 10 | 25 | 1.6 | 1010 | 9.9 | 3 |
| UA3M20 | M20 | 176 | 75 | 12 | 49 | 85 | 12 | 50 | 3.2 | 1580 | 15.5 | 4 |
| UA3M24 | M24 | 183 | 100 | 12 | 49 | 85 | 16 | 50 | 4.4 | 2280 | 22.4 | 5 |
| UA3M30 | M30 | 207 | 125 | 16 | 66 | 120 | 16 | 50 | 8.0 | 3650 | 35.8 | 6 |
| UA3M36 | M36 | 219 | 150 | 20 | 66 | 120 | 20 | 50 | 13.1 | 5340 | 52.4 | 7 |
| UA3M42 | M42 | 242 | 150 | 20 | 74 | 140 | 25 | 50 | 15.3 | 7400 | 72.6 | 8 |
| UA3M48 | M48 | 259 | 150 | 20 | 82 | 160 | 25 | 50 | 17.4 | 9650 | 94.6 | 9 |
| UA3M56 | M56 | 283 | 200 | 20 | 93 | 180 | 25 | 50 | 25.3 | 13350 | 130.9 | 10 |
| UA3M64 | M64 | 309 | 200 | 25 | 104 | 210 | 30 | 50 | 35.8 | 18000 | 176.5 | 11 |

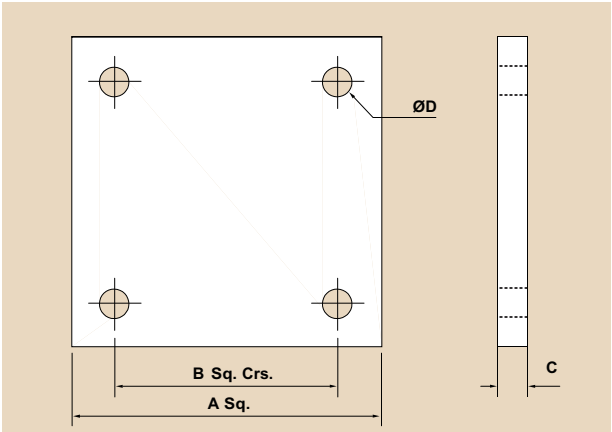
## UA4 INVERTED BEAM WELDING ATTACHMENT




*Material: Carbon Steel*

| UA4 INVERTED BEAM WELDING ATTACHMENT | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PART NUMBER | PIN SIZE | A | B | C | ØD | E | F | G | WEIGHT kgf | LOAD CAPACITY | | LOAD GROUP |
| | | | | | | | | | | kgf | KN | |
| UA4M08 | 8 | 36 | 20 | 30 | 10 | 50 | 6 | 54 | 0.38 | 230 | 2.3 | 0 |
| UA4M10 | 10 | 36 | 20 | 30 | 12 | 50 | 6 | 54 | 0.39 | 360 | 3.5 | 1 |
| UA4M12 | 12 | 36 | 20 | 30 | 14 | 50 | 6 | 54 | 0.4 | 530 | 5.2 | 2 |
| UA4M16 | 16 | 42 | 30 | 30 | 18 | 50 | 6 | 54 | 0.51 | 1010 | 9.9 | 3 |
| UA4M20 | 20 | 60 | 35 | 35 | 22 | 60 | 10 | 71 | 1.1 | 1580 | 15.5 | 4 |
| UA4M24 | 24 | 70 | 45 | 40 | 26 | 80 | 10 | 76 | 2.0 | 2280 | 22.4 | 5 |
| UA4M30 | 30 | 82 | 55 | 40 | 32 | 100 | 12 | 80 | 3.5 | 3650 | 35.8 | 6 |
| UA4M36 | 36 | 95 | 65 | 55 | 39 | 110 | 16 | 101 | 5.8 | 5340 | 52.4 | 7 |
| UA4M42 | 42 | 105 | 75 | 65 | 45 | 130 | 16 | 115 | 7.9 | 7400 | 72.6 | 8 |
| UA4M48 | 48 | 125 | 85 | 70 | 51 | 150 | 20 | 130 | 13.6 | 9650 | 94.6 | 9 |
| UA4M56 | 56 | 140 | 100 | 80 | 60 | 180 | 20 | 140 | 18.7 | 13350 | 130.9 | 10 |
| UA4M64 | 64 | 160 | 115 | 90 | 68 | 200 | 20 | 154 | 24.2 | 18000 | 176.5 | 11 |
| UA4M72 | 72 | 180 | 130 | 100 | 76 | 220 | 25 | 174 | 35.5 | 23025 | 225.8 | 12 |
| UA4M80 | 80 | 200 | 150 | 100 | 84 | 240 | 25 | 180 | 43.0 | 28125 | 275.8 | 13 |
| UA4M90 | 90 | 225 | 165 | 110 | 94 | 260 | 30 | 210 | 57.0 | 35500 | 348.3 | 14 |
| UA4M100 | 100 | 250 | 180 | 120 | 104 | 280 | 35 | 230 | 79.0 | 45000 | 441.5 | 15 |
| UA4M110 | 110 | 275 | 200 | 130 | 116 | 300 | 40 | 250 | 106.0 | 55000 | 539.6 | 16 |
| UA4M120 | 120 | 290 | 230 | 140 | 126 | 340 | 40 | 260 | 130.0 | 66500 | 652.4 | 17 |

## UA5 CEILING PLATE



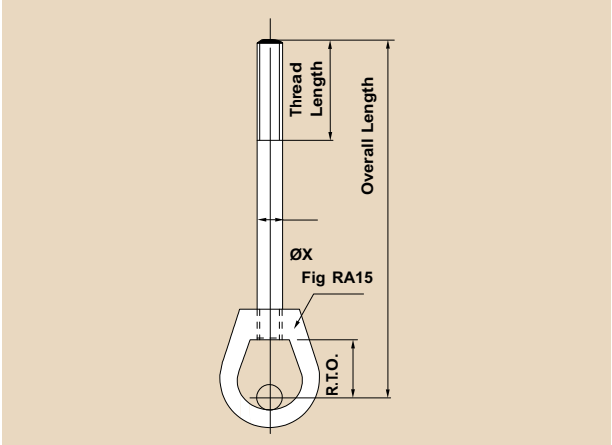

*Material: Carbon Steel*

| PART NUMBER | ROD SIZE | A | B | C | DIA. D | RECOMMENDED FIXING BOLT | WEIGHT kgf | LOAD CAPACITY | | LOAD GROUP |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | kgf | kN | |
| UA5M08 | 8 | 130 | 100 | 8 | 9 | F287–M8/95 | 1.1 | 230 | 2.3 | 0 |
| UA5M10 | 10 | 130 | 100 | 8 | 9 | F287–M8/95 | 1.1 | 360 | 3.5 | 1 |
| UA5M12 | 12 | 150 | 120 | 8 | 9 | F287–M8/95 | 1.4 | 530 | 5.2 | 2 |
| UA5M16 | 16 | 170 | 140 | 12 | 9 | F287–M8/95 | 2.7 | 1010 | 9.9 | 3 |
| UA5M20 | 20 | 190 | 150 | 16 | 12 | F287–M10/110 | 4.3 | 1580 | 15.5 | 4 |
| UA5M24 | 24 | 220 | 180 | 20 | 14 | F287–M12/145 | 7.6 | 2280 | 22.4 | 5 |
| UA5M30 | 30 | 270 | 220 | 20 | 18 | F287–M16/165 | 11.5 | 3650 | 35.8 | 6 |
| UA5M36 | 36 | 320 | 260 | 25 | 22 | F287–M20/200 | 20.1 | 5340 | 52.4 | 7 |
| UA5M42 | 42 | 370 | 300 | 30 | 26 | F288–M16/50 | 32.3 | 7400 | 72.6 | 8 |
| UA5M48 | 48 | 450 | 360 | 35 | 31 | F288–M20/60 | 55.7 | 9650 | 94.6 | 9 |
| UA5M56 | 56 | 580 | 480 | 40 | 35 | F288–M24/60 | 105.7 | 13350 | 130.9 | 10 |
| UA5M64 | 64 | 580 | 480 | 45 | 35 | F289–M20x 220/60 | 118.9 | 18000 | 176.5 | 11 |

FOR USE IN CONJUNCTION WITH PART NUMBER UA1, UA2, UA3 OR UA4

WHEN ORDERED WITH ONE OF THESE PARTS,
THIS IS SUPPLIED AS A WELDED ASSEMBLY

## RA1 EYE ROD

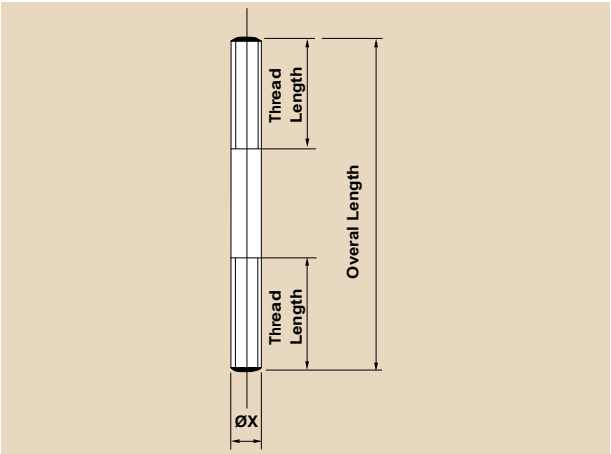



*Material: Forged Steel and Carbon Steel*

| PART NUMBER | DIA X | R.T.O. | LOAD CAPACITY | | LOAD GROUP |
|---|---|---|---|---|---|
| | | | kgf | kN | |
| RA1M08 | 8 | 34 | 230 | 2.3 | 0 |
| RA1M10 | 10 | 33 | 360 | 3.5 | 1 |
| RA1M12 | 12 | 45 | 530 | 5.2 | 2 |
| RA1M16 | 16 | 43 | 1010 | 9.9 | 3 |
| RA1M20 | 20 | 69 | 1580 | 15.5 | 4 |
| RA1M24 | 24 | 67 | 2280 | 22.4 | 5 |
| RA1M30 | 30 | 80 | 3650 | 35.8 | 6 |
| RA1M36 | 36 | 77 | 5340 | 52.4 | 7 |
| RA1M42 | 42 | 138 | 7400 | 72.6 | 8 |
| RA1M48 | 48 | 135 | 9650 | 94.6 | 9 |
| RA1M56 | 56 | 131 | 13350 | 130.9 | 10 |
| RA1M64 | 64 | 127 | 18000 | 176.5 | 11 |
| RA1M72 | 72 | 186 | 23025 | 225.8 | 12 |
| RA1M80 | 80 | 182 | 28125 | 275.8 | 13 |

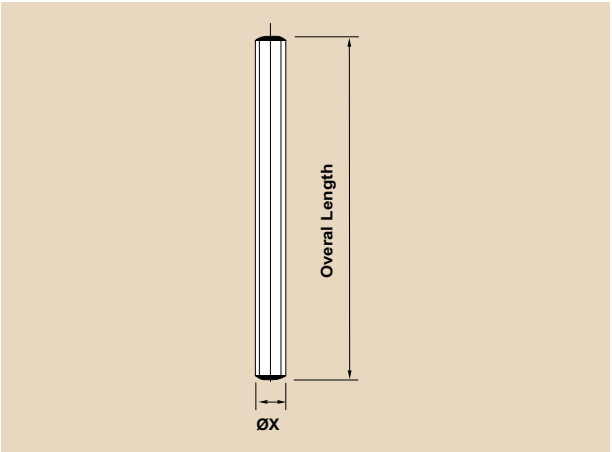
ORDER BY:
PART NUMBER AND OVERALL LENGTH AS SHOWN
FOR THREAD LENGTH, SEE TYPE RA2 HANGER ROD

## RA2 Hanger Rod




*Material: Carbon Steel*

## RA3 ALL THREAD ROD

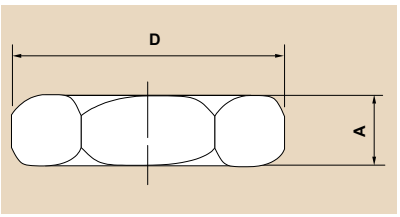



*Material: Carbon Steel*

| HANGER ROD PART NUMBER | ALL THREAD ROD PART NUMBER | DIA X | LOAD CAPACITY | | LOAD GROUP | STANDARD THREAD LENGTHS FOR TYPE RA2 HANGER RODS WHEN USED WITH COMPONENTS SHOWN | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | kgf | KN | | VARIABLE EFFORT SUPPORT | TURNBUCKLE & NUT | ROD COUPLING & NUT | CLEVIS & NUT | WELDLESS EYE & NUT/SPADE END & NUT | WELDLESS EYE(ONLY)/SPADE END (ONLY) | TWO NUTS |
| RA2M08 | RA3M08 | 8 | 230 | 2.3 | 0 | - | 100 | 23 | 40 | 24 | 16 | 64 |
| RA2M10 | RA3M10 | 10 | 360 | 3.5 | 1 | - | 100 | 24 | 41 | 25 | 16 | 66 |
| RA2M12 | RA3M12 | 12 | 530 | 5.2 | 2 | 182 | 106 | 29 | 43 | 28 | 17 | 70 |
| RA2M16 | RA3M16 | 16 | 1010 | 9.9 | 3 | 191 | 115 | 39 | 46 | 31 | 17 | 76 |
| RA2M20 | RA3M20 | 20 | 1580 | 15.5 | 4 | 199 | 123 | 47 | 49 | 45 | 28 | 132 |
| RA2M24 | RA3M24 | 24 | 2280 | 22.4 | 5 | 210 | 134 | 55 | 52 | 48 | 28 | 138 |
| RA2M30 | RA3M30 | 30 | 3650 | 35.8 | 6 | 228 | 152 | 70 | 57 | 72 | 47 | 148 |
| RA2M36 | RA3M36 | 36 | 5340 | 52.4 | 7 | 243 | 167 | 85 | 71 | 77 | 47 | 158 |
| RA2M42 | RA3M42 | 42 | 7400 | 72.6 | 8 | 248 | 172 | 95 | 79 | 92 | 57 | 168 |
| RA2M48 | RA3M48 | 48 | 9650 | 94.6 | 9 | 267 | 191 | 104 | 96 | 96 | 57 | 226 |
| RA2M56 | RA3M56 | 56 | 13350 | 130.9 | 10 | 293 | 217 | 126 | 116 | 103 | 57 | 240 |
| RA2M64 | RA3M64 | 64 | 18000 | 176.5 | 11 | 299 | 223 | 147 | 122 | 109 | 57 | 252 |
| RA2M72 | RA3M72 | 72 | 23025 | 225.8 | 12 | 320 | 244 | 164 | 149 | 159 | 101 | 266 |
| RA2M80 | RA3M80 | 80 | 28125 | 275.8 | 13 | 336 | 260 | 180 | 165 | 185 | 121 | 278 |
| RA2M90 | RA3M90 | 90 | 35500 | 348.3 | 14 | 357 | 281 | 256 | 190 | 240 | 150 | 330 |
| RA2M100 | RA3M100 | 100 | 45000 | 441.5 | 15 | 367 | 291 | 266 | 205 | 255 | 160 | 340 |
| RA2M110 | RA3M110 | 110 | 55000 | 539.6 | 16 | 397 | 321 | 301 | 230 | 290 | 180 | 370 |
| RA2M120 | RA3M120 | 120 | 66500 | 652.4 | 17 | 417 | 341 | 321 | 250 | 320 | 200 | 390 |

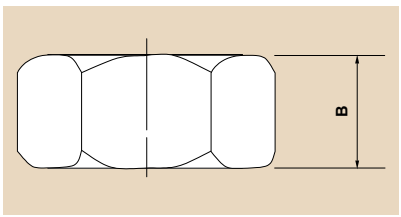
ORDER BY: PART NUMBER AND OVERALL LENGTH. HANGER ROD WILL BE SUPPLIED WITH RIGHT/RIGHT OR LEFT/RIGHT THREADS BASED ON REQUIREMENT. NORMAL SUPPLY IS ALL THREADED ROD UP TO M 36 AND HANGER ROD THEREAFTER

## RA4 LOCKNUT



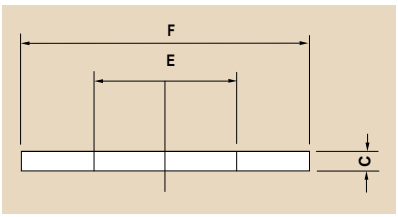

*Material: Carbon Steel*

## RA5 FULL NUT




*Material: Carbon Steel*

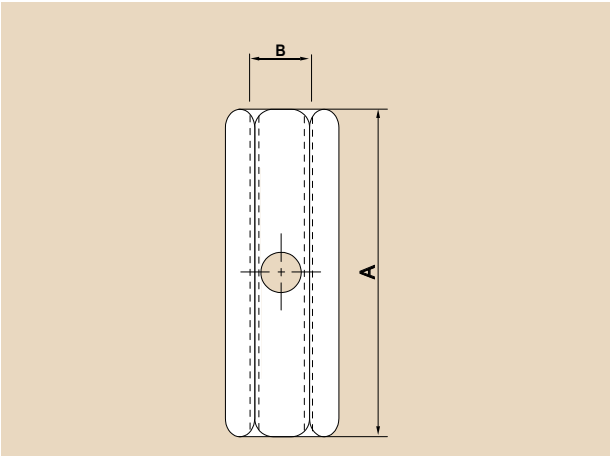
## RA6 FLAT WASHER




*Material: Carbon Steel*

| LOCKNUT PART NUMBER | FULL NUT PART NUMBER | FLAT WASHER PART NUMBER | THREAD SIZE | A | B | C | D | E | F | LOAD GROUP | WEIGHTS kgf | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | LOCKNUT | FULL NUT | WASHER |
| RA4M08 | RA5M08 | RA6M08 | M8 | 5 | 6.5 | 1.6 | 16 | 9 | 17 | 0 | 0.004 | 0.005 | 0.002 |
| RA4M10 | RA5M10 | RA6M10 | M10 | 6 | 8.0 | 2.0 | 20 | 11 | 21 | 1 | 0.009 | 0.011 | 0.004 |
| RA4M12 | RA5M12 | RA6M12 | M12 | 7 | 10.0 | 2.5 | 22 | 14 | 24 | 2 | 0.011 | 0.016 | 0.006 |
| RA4M16 | RA5M16 | RA6M16 | M16 | 8 | 13.0 | 3.0 | 28 | 18 | 30 | 3 | 0.019 | 0.031 | 0.011 |
| RA4M20 | RA5M20 | RA6M20 | M20 | 9 | 16.0 | 3.0 | 35 | 22 | 37 | 4 | 0.034 | 0.061 | 0.016 |
| RA4M24 | RA5M24 | RA6M24 | M24 | 10 | 19.0 | 4.0 | 42 | 26 | 44 | 5 | 0.054 | 0.104 | 0.031 |
| RA4M30 | RA5M30 | RA6M30 | M30 | 12 | 24.0 | 4.0 | 53 | 33 | 56 | 6 | 0.105 | 0.211 | 0.051 |
| RA4M36 | RA5M36 | RA6M36 | M36 | 14 | 29.0 | 5.0 | 64 | 39 | 66 | 7 | 0.181 | 0.374 | 0.088 |
| RA4M42 | RA5M42 | RA6M42 | M42 | 16 | 34.0 | 7.0 | 75 | 45 | 78 | 8 | 0.285 | 0.606 | 0.150 |
| RA4M48 | RA5M48 | RA6M48 | M48 | 18 | 38.0 | 8.0 | 87 | 52 | 92 | 9 | 0.440 | 0.928 | 0.284 |
| RA4M56 | RA5M56 | RA6M56 | M56 | 22 | 45.0 | 9.0 | 99 | 62 | 105 | 10 | 0.675 | 1.380 | 0.399 |
| RA4M64 | RA5M64 | RA6M64 | M64 | 24 | 51.0 | 9.0 | 110 | 70 | 115 | 11 | 0.876 | 1.861 | 0.463 |
| RA4M72 | RA5M72 | RA6M72 | M72 | 28 | 58.0 | 10.0 | 120 | 78 | 125 | 12 | 1.023 | 2.197 | 0.569 |
| RA4M80 | RA5M80 | RA6M80 | M80 | 32 | 64.0 | 12.0 | 131 | 86 | 140 | 13 | 1.324 | 2.825 | 0.781 |

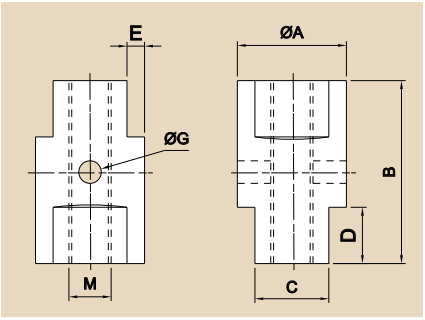
## RA7 ROD COUPLING




| PART NUMBER | ROD THREAD SIZE B | LENGTH A | SIGHT HOLE Ø | WEIGHT kgf | LOAD CAPACITY | | LOAD GROUP |
|---|---|---|---|---|---|---|---|
| | | | | | kgf | kN | |
| RA7M08 | M8 | 30 | 6 | 0.04 | 230 | 2.3 | 0 |
| RA7M10 | M10 | 30 | 6 | 0.04 | 360 | 3.5 | 1 |
| RA7M12 | M12 | 36 | 6 | 0.06 | 530 | 5.2 | 2 |
| RA7M16 | M16 | 50 | 8 | 0.1 | 1010 | 9.9 | 3 |
| RA7M20 | M20 | 60 | 10 | 0.2 | 1580 | 15.5 | 4 |
| RA7M24 | M24 | 70 | 12 | 0.4 | 2280 | 22.4 | 5 |
| RA7M30 | M30 | 90 | 12 | 0.8 | 3650 | 35.8 | 6 |
| RA7M36 | M36 | 110 | 12 | 1.4 | 5340 | 52.4 | 7 |
| RA7M42 | M42 | 120 | 14 | 2.1 | 7400 | 72.6 | 8 |
| RA7M48 | M48 | 130 | 14 | 3.2 | 9650 | 94.6 | 9 |
| RA7M56 | M56 | 160 | 14 | 4.9 | 13350 | 130.9 | 10 |
| RA7M64 | M64 | 190 | 14 | 6.9 | 18000 | 176.5 | 11 |
| RA7M72 | M72 | 210 | 14 | 9.7 | 23025 | 225.8 | 12 |
| RA7M80 | M80 | 230 | 14 | 13.1 | 28125 | 275.8 | 13 |

*Material: Carbon Steel*

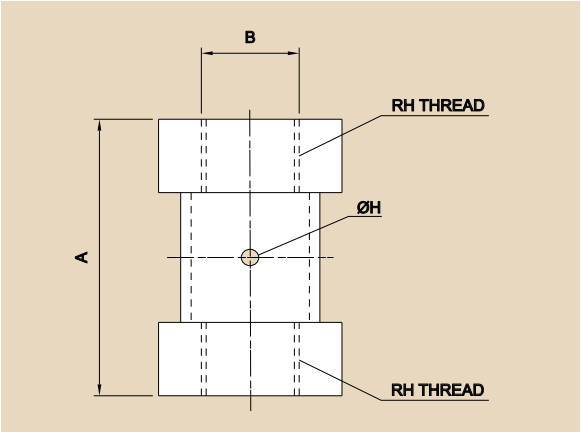
## RA7A ROUND ROD COUPLING




*Material: Forged Steel or Carbon Steel*
*This item may be forged or profiled*

| PART NUMBER | ROD THREAD SIZE | ROD SIZE ØA | M | LENGTH B | C | D | E | SIGHT HOLE ØG | Weight in kgf | LOAD CAPACITY | | LOAD GROUP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | kgf | KN | |
| RA7A M12 | 12 | 28 | M12 | 50 | 19 | 12 | 4.5 | 8 | 0.17 | 530 | 5.2 | 2 |
| RA7A M16 | 16 | 40 | M16 | 60 | 28 | 15 | 6 | 8 | 0.43 | 1010 | 9.9 | 3 |
| RA7A M20 | 20 | 50 | M20 | 70 | 38 | 17 | 6 | 10 | 0.82 | 1580 | 15.5 | 4 |
| RA7A M24 | 24 | 50 | M24 | 80 | 38 | 20 | 6 | 10 | 0.85 | 2280 | 22.4 | 5 |
| RA7A M30 | 30 | 60 | M30 | 100 | 47 | 20 | 6.5 | 12 | 1.54 | 3650 | 35.8 | 6 |
| RA7A M36 | 36 | 70 | M36 | 110 | 57 | 25 | 6.5 | 12 | 2.30 | 5340 | 52.4 | 7 |
| RA7A M42 | 42 | 80 | M42 | 120 | 68 | 40 | 6 | 14 | 3.26 | 7400 | 72.6 | 8 |
| RA7A M48 | 48 | 90 | M48 | 130 | 77 | 50 | 6.5 | 14 | 4.42 | 9650 | 94.6 | 9 |
| RA7A M56 | 56 | 100 | M56 | 160 | 86 | 50 | 7 | 14 | 6.54 | 13350 | 130.9 | 10 |
| RA7A M64 | 64 | 120 | M64 | 190 | 102 | 50 | 9 | 16 | 11.63 | 18000 | 176.5 | 11 |
| RA7A M72 | 72 | 135 | M72 | 210 | 115 | 70 | 10 | 16 | 16.19 | 23025 | 225.8 | 12 |
| RA7A M80 | 80 | 155 | M80 | 260 | 135 | 80 | 10 | 16 | 27.73 | 28125 | 275.8 | 13 |

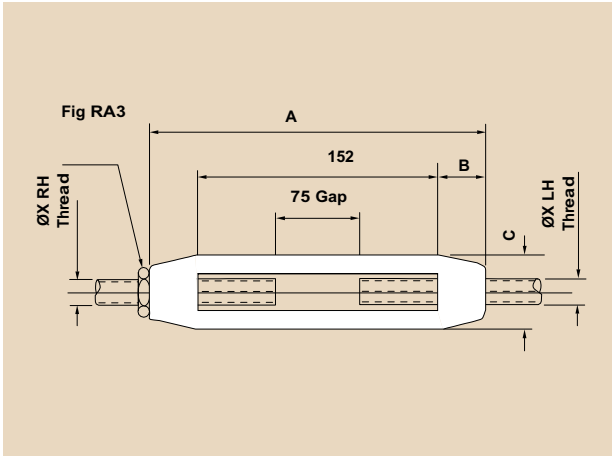
## RA7B PIPE ROD COUPLING




*Material: Cast Iron or Carbon Steel*

| PART NUMBER | ROD THREAD SIZE B | LENGTH A | SIGHT HOLE ØH | WEIGHT kgf | LOAD CAPACITY | | LOAD GROUP |
|---|---|---|---|---|---|---|---|
| | | | | | kgf | KN | |
| RA7B M90 | M90 | 330 | 14 | 83.3 | 35500 | 348.3 | 14 |
| RA7B M100 | M100 | 340 | 14 | 88.7 | 45000 | 441.5 | 15 |
| RA7B M110 | M110 | 380 | 14 | 98.3 | 55000 | 539.6 | 16 |
| RA7B M120 | M120 | 400 | 14 | 103 | 66500 | 652.4 | 17 |

## RA8 TURNBUCKLE THREADED RIGHT HAND/LEFT HAND
## RA8A TURNBUCKLETHREADED RIGHT HAND BOTH ENDS

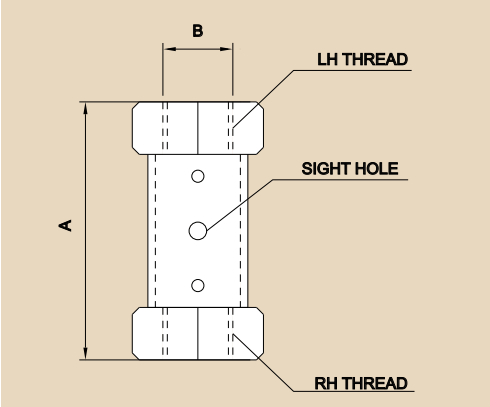



| PART NUMBER RH/LH | PART NUMBER RH/RH | ROD THREAD SIZE X | A | B | C | Wt. kgf | LOAD CAPACITY kgf | LOAD CAPACITY kN | LOAD GROUP |
|---|---|---|---|---|---|---|---|---|---|
| RA8M08 | RA8AM08 | M8 | 182 | 15 | 28 | 0.50 | 230 | 2.3 | 0 |
| RA8M10 | RA8AM10 | M10 | 182 | 15 | 28 | 0.50 | 360 | 3.5 | 1 |
| RA8M12 | RA8AM12 | M12 | 192 | 20 | 32 | 0.64 | 530 | 5.2 | 2 |
| RA8M16 | RA8AM16 | M16 | 204 | 26 | 42 | 0.92 | 1010 | 9.9 | 3 |
| RA8M20 | RA8AM20 | M20 | 214 | 31 | 50 | 1.4 | 1580 | 15.5 | 4 |
| RA8M24 | RA8AM24 | M24 | 230 | 39 | 60 | 2.4 | 2280 | 22.4 | 5 |
| RA8M30 | RA8AM30 | M30 | 256 | 52 | 68 | 4.0 | 3650 | 35.8 | 6 |
| RA8M36 | RA8AM36 | M36 | 276 | 62 | 84 | 6.0 | 5340 | 52.4 | 7 |
| RA8M42 | RA8AM42 | M42 | 276 | 62 | 84 | 6.0 | 7400 | 72.6 | 8 |
| RA8M48 | RA8AM48 | M48 | 305 | 77 | 108 | 11.9 | 9650 | 94.6 | 9 |
| RA8M56 | RA8AM56 | M56 | 343 | 96 | 145 | 17.6 | 13350 | 130.8 | 10 |
| RA8M64 | RA8AM64 | M64 | 343 | 96 | 145 | 23.6 | 18000 | 176.5 | 11 |
| RA8M72 | RA8AM72 | M72 | 372 | 110 | 156 | 27.3 | 23025 | 225.8 | 12 |
| RA8M80 | RA8AM80 | M80 | 392 | 120 | 172 | 38.7 | 28125 | 275.8 | 13 |

*Material: Forged Steel or Carbon Steel. This item may be forged or profiled*

*NORMAL SUPPLY FORGED UP TO M42 AND PROFILED FOR LARGER SIZES*

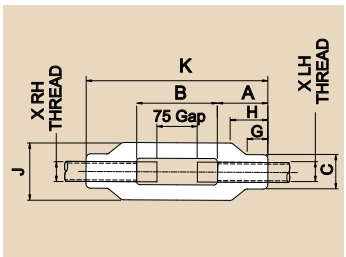
## RA8B-PIPE TURNBUCKLE THREADED RIGHT HAND / LEFT HAND
## RA8C-PIPE TURNBUCKLE THREADED RIGHT HAND BOTH ENDS




*Material: Carbon Steel*

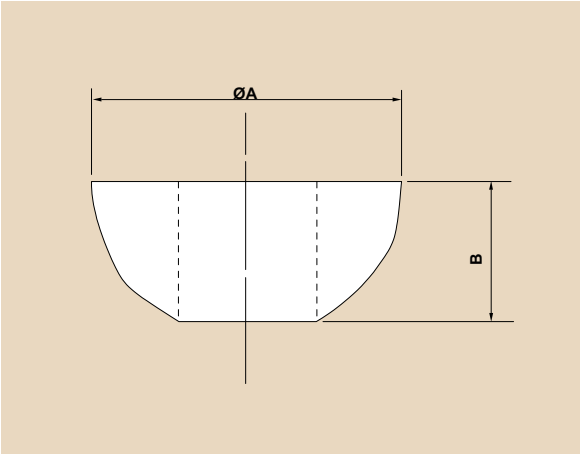
| PART NUMBER RH/LH | PART NUMBER RH/RH | ROD THREAD SIZE B | LENGTH A | WEIGHT kgf | LOAD CAPACITY kgf | LOAD CAPACITY KN | LOAD GROUP |
|---|---|---|---|---|---|---|---|
| RA8B M48 | RA8C M48 | M48 | 300 | 8.8 | 9650 | 94.6 | 9 |
| RA8B M56 | RA8C M56 | M56 | 320 | 9.5 | 13350 | 130.9 | 10 |
| RA8B M64 | RA8C M64 | M64 | 340 | 17.0 | 18000 | 176.5 | 11 |
| RA8B M72 | RA8C M72 | M72 | 360 | 20.8 | 23025 | 225.8 | 12 |
| RA8B M80 | RA8C M80 | M80 | 360 | 48.1 | 28125 | 275.8 | 13 |
| RA8B M90 | RA8C M90 | M90 | 380 | 51.2 | 35500 | 348.3 | 14 |
| RA8B M100 | RA8C M100 | M100 | 390 | 51.3 | 45000 | 441.5 | 15 |
| RA8B M110 | RA8C M110 | M110 | 420 | 101.6 | 55000 | 539.6 | 16 |
| RA8B M120 | RA8C M120 | M120 | 440 | 106.2 | 66500 | 652.4 | 17 |

## RA8D-PROFILED TURNBUCKLE THREADED RIGHT HAND / LEFT HAND
## RA8E-PROFILED TURNBUCKLE THREADED RIGHT HAND BOTH ENDS




| PART NUMBER RH/LH | PART NUMBER RH/RH | ROD THREAD SIZE X | A | B | C | G | H | J | K | WEIG HT kgf | LOAD CAPACITY kgf | LOAD CAPACITY KN | LOAD GROUP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RA8D M10 | RA8E M10 | M10 | 16 | 152 | 20 | 8 | 12 | 28 | 184 | 0.5 | 360 | 3.5 | 1 |
| RA8D M12 | RA8E M12 | M12 | 24 | 152 | 20 | 9 | 18 | 34 | 200 | 0.7 | 530 | 5.2 | 2 |
| RA8D M16 | RA8E M16 | M16 | 26 | 152 | 25 | 10 | 18 | 40 | 204 | 1.0 | 1010 | 9.9 | 3 |
| RA8D M20 | RA8E M20 | M20 | 32 | 152 | 30 | 11 | 24 | 48 | 216 | 1.6 | 1580 | 15.5 | 4 |
| RA8D M24 | RA8E M24 | M24 | 38 | 152 | 40 | 13 | 28 | 56 | 228 | 2.6 | 2280 | 22.4 | 5 |
| RA8D M30 | RA8E M30 | M30 | 50 | 152 | 50 | 17 | 37 | 68 | 252 | 4.4 | 3650 | 35.8 | 6 |
| RA8D M36 | RA8E M36 | M36 | 62 | 152 | 60 | 21 | 46 | 76 | 276 | 7.0 | 5340 | 52.4 | 7 |
| RA8D M42 | RA8E M42 | M42 | 77 | 152 | 65 | 26 | 57 | 90 | 306 | 9.6 | 7400 | 72.6 | 8 |
| RA8D M48 | RA8E M48 | M48 | 77 | 152 | 75 | 26 | 57 | 108 | 306 | 13.3 | 9650 | 94.6 | 9 |
| RA8D M56 | RA8E M56 | M56 | 96 | 152 | 85 | 32 | 72 | 122 | 344 | 20.0 | 13350 | 130.9 | 10 |
| RA8D M64 | RA8E M64 | M64 | 96 | 152 | 100 | 32 | 72 | 136 | 344 | 26.7 | 18000 | 176.5 | 11 |
| RA8D M72 | RA8E M72 | M72 | 110 | 152 | 110 | 37 | 82 | 156 | 372 | 36.7 | 23025 | 225.8 | 12 |
| RA8D M80 | RA8E M80 | M80 | 120 | 152 | 130 | 40 | 90 | 172 | 392 | 51.7 | 28125 | 275.8 | 13 |

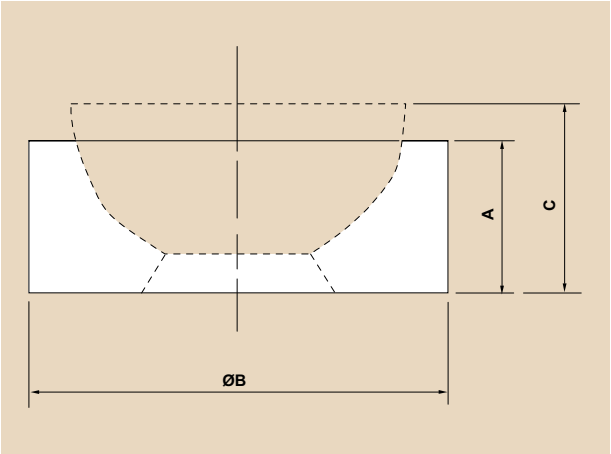
## RA9 SPHERICAL WASHER




*Material: Cast Iron or Carbon Steel*

| PART NUMBER | ROD SIZE | ØA | B | WEIGHT kgf | LOAD CAPACITY | | LOAD GROUP |
|---|---|---|---|---|---|---|---|
| | | | | | kgf | KN | |
| RA9M08 | 8 | 20 | 8 | 0.01 | 230 | 2.3 | 0 |
| RA9M10 | 10 | 24 | 10 | 0.02 | 360 | 3.5 | 1 |
| RA9M12 | 12 | 30 | 13 | 0.04 | 530 | 5.2 | 2 |
| RA9M16 | 16 | 38 | 16 | 0.09 | 1010 | 9.9 | 3 |
| RA9M20 | 20 | 48 | 21 | 0.18 | 1580 | 15.5 | 4 |
| RA9M24 | 24 | 56 | 24 | 0.28 | 2280 | 22.4 | 5 |
| RA9M30 | 30 | 70 | 30 | 0.54 | 3650 | 35.8 | 6 |
| RA9M36 | 36 | 84 | 36 | 0.93 | 5340 | 52.4 | 7 |
| RA9M42 | 42 | 96 | 42 | 1.4 | 7400 | 72.6 | 8 |
| RA9M48 | 48 | 114 | 49 | 2.4 | 9650 | 94.6 | 9 |
| RA9M56 | 56 | 134 | 57 | 3.8 | 13350 | 130.9 | 10 |
| RA9M64 | 64 | 150 | 66 | 5.3 | 18000 | 176.5 | 11 |
| RA9M72 | 72 | 170 | 74 | 7.7 | 23025 | 225.8 | 12 |
| RA9M80 | 80 | 188 | 82 | 10.6 | 28125 | 275.8 | 13 |
| RA9M90 | 90 | 206 | 90 | 13.1 | 35500 | 348.3 | 14 |
| RA9M100 | 100 | 224 | 98 | 16.5 | 45000 | 441.5 | 15 |
| RA9M110 | 110 | 242 | 106 | 20.9 | 55000 | 539.6 | 16 |
| RA9M120 | 120 | 260 | 114 | 25.7 | 66500 | 652.4 | 17 |

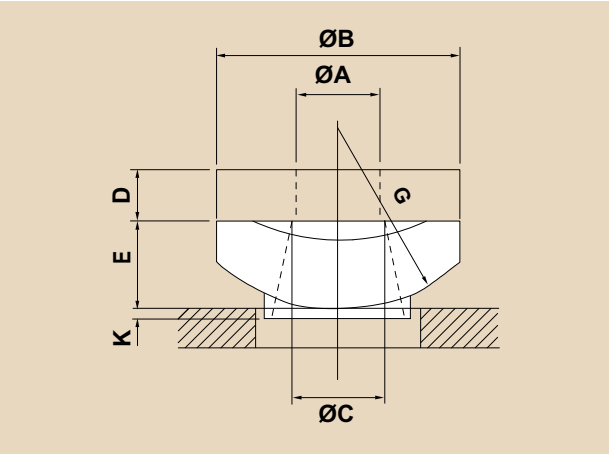
## RA 10 CUP FOR SPHERICAL WASHER




*Material: Cast Iron or Carbon Steel*

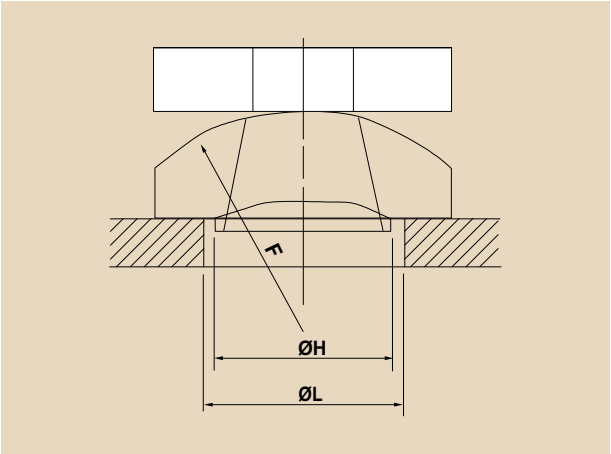
| PART NUMBER | ROD SIZE | A | ØB | C | WEIGHT kgf | LOAD CAPACITY | | LOAD GROUP |
|---|---|---|---|---|---|---|---|---|
| | | | | | | kgf | KN | |
| RA10M08 | 8 | 10 | 29 | 13 | 0.05 | 230 | 2.3 | 0 |
| RA10M10 | 10 | 12 | 32 | 14 | 0.06 | 360 | 3.5 | 1 |
| RA10M12 | 12 | 13 | 35 | 16 | 0.06 | 530 | 5.2 | 2 |
| RA10M16 | 16 | 16 | 41 | 19 | 0.09 | 1010 | 9.9 | 3 |
| RA10M20 | 20 | 19 | 54 | 24 | 0.18 | 1580 | 15.5 | 4 |
| RA10M24 | 24 | 25 | 63 | 32 | 0.37 | 2280 | 22.4 | 5 |
| RA10M30 | 30 | 29 | 76 | 35 | 0.54 | 3650 | 35.8 | 6 |
| RA10M36 | 36 | 35 | 95 | 44 | 1.1 | 5340 | 52.4 | 7 |
| RA10M42 | 42 | 44 | 105 | 49 | 1.8 | 7400 | 72.6 | 8 |
| RA10M48 | 48 | 48 | 130 | 58 | 3.0 | 9650 | 94.6 | 9 |
| RA10M56 | 56 | 51 | 152 | 68 | 3.8 | 13350 | 130.9 | 10 |
| RA10M64 | 64 | 60 | 172 | 78 | 6.2 | 18000 | 176.5 | 11 |
| RA10M72 | 72 | 68 | 194 | 88 | 8.8 | 23025 | 225.8 | 12 |
| RA10M80 | 80 | 76 | 215 | 98 | 12.1 | 28125 | 275.8 | 13 |
| RA10M90 | 90 | 84 | 236 | 108 | 16 | 35500 | 348.3 | 14 |
| RA10M100 | 100 | 92 | 257 | 118 | 20.5 | 45000 | 441.5 | 15 |
| RA10M110 | 110 | 100 | 278 | 128 | 26 | 55000 | 539.6 | 16 |
| RA10M120 | 120 | 108 | 300 | 138 | 33 | 66500 | 652.4 | 17 |

## RA11 DUAL FACED ROCKING WASHER




*Material: Cast Iron*

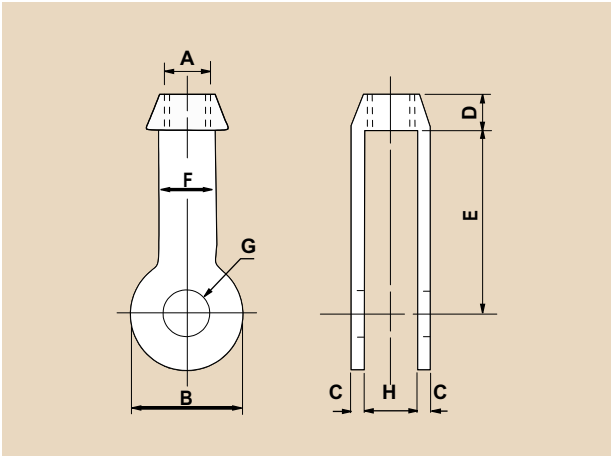
## RA12 PLATE FOR DUAL FACED ROCKINGWASHER




*Material: Carbon Steel*

| PART NUMBER ROCKING WASHER | PART NUMBER PLATE | ROD DIA | ØA | ØB | ØC | D | E | F | G | ØH | K | ØL | WEIGHT kgf ROCKER WASHER | WEIGHT kgf PLATE | LOAD CAPACITY kgf | LOAD CAPACITY kN | LOAD GROUP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RA11M12 | RA12M12 | M12 | 13 | 50 | 20 | 10 | 16 | 32 | 32 | 33 | 5 | 38 | 0.12 | 0.14 | 530 | 5.2 | 2 |
| RA11M16 | RA12M16 | M16 | 17 | 50 | 20 | 10 | 16 | 32 | 32 | 33 | 5 | 38 | 0.11 | 0.14 | 1010 | 9.9 | 3 |
| RA11M20 | RA12M20 | M20 | 21 | 65 | 28 | 15 | 24 | 48 | 48 | 44 | 5 | 49 | 0.28 | 0.35 | 1580 | 15.5 | 4 |
| RA11M24 | RA12M24 | M24 | 26 | 65 | 28 | 15 | 24 | 48 | 48 | 44 | 5 | 49 | 0.26 | 0.33 | 2280 | 22.4 | 5 |
| RA11M30 | RA12M30 | M30 | 32 | 98 | 40 | 20 | 36 | 72 | 72 | 59 | 5 | 66 | 0.95 | 1.1 | 3650 | 35.8 | 6 |
| RA11M36 | RA12M36 | M36 | 38 | 98 | 40 | 20 | 36 | 72 | 72 | 59 | 5 | 66 | 0.91 | 1.0 | 5340 | 52.4 | 7 |
| RA11M42 | RA12M42 | M42 | 45 | 114 | 46 | 25 | 42 | 84 | 84 | 67 | 6 | 74 | 1.4 | 1.7 | 7400 | 72.6 | 8 |
| RA11M48 | RA12M48 | M48 | 52 | 130 | 52 | 30 | 48 | 96 | 96 | 75 | 7 | 82 | 2.1 | 2.6 | 9650 | 94.6 | 9 |
| RA11M56 | RA12M56 | M56 | 60 | 151 | 60 | 35 | 56 | 112 | 112 | 89 | 8 | 93 | 3.3 | 4.1 | 13350 | 130.9 | 10 |
| RA11M64 | RA12M64 | M64 | 68 | 173 | 69 | 40 | 64 | 128 | 128 | 96 | 10 | 104 | 5.0 | 6.2 | 18000 | 176.5 | 11 |

## RA13 CLEVIS

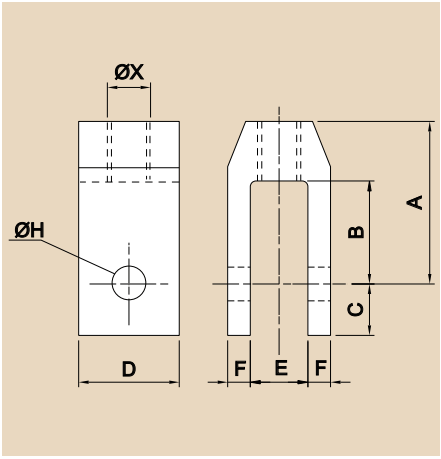



| PART NUMBER | ROD THREAD SIZE A | B | C | D | E | F | G | H | Wt. kgf | LOAD CAPACITY kgf | LOAD CAPACITY kN | LOAD GROUP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RA13M08 | M8 | 38 | 13 | 32 | 95 | 30 | 10 | 18 | 1.2 | 230 | 2.3 | 0 |
| RA13M10 | M10 | 38 | 13 | 32 | 95 | 30 | 12 | 18 | 1.2 | 360 | 3.5 | 1 |
| RA13M12 | M12 | 38 | 13 | 32 | 95 | 30 | 14 | 18 | 1.1 | 530 | 5.2 | 2 |
| RA13M16 | M16 | 38 | 13 | 32 | 95 | 30 | 18 | 18 | 1.1 | 1010 | 9.9 | 3 |
| RA13M20 | M20 | 63 | 16 | 32 | 102 | 30 | 22 | 24 | 1.8 | 1580 | 15.5 | 4 |
| RA13M24 | M24 | 76 | 18 | 32 | 127 | 38 | 26 | 28 | 2.9 | 2280 | 22.4 | 5 |
| RA13M30 | M30 | 76 | 18 | 32 | 127 | 38 | 32 | 28 | 2.8 | 3650 | 35.8 | 6 |
| RA13M36 | M36 | 89 | 20 | 41 | 152 | 44 | 38 | 48 | 4.6 | 5340 | 52.4 | 7 |
| RA13M42 | M42 | 102 | 22 | 44 | 152 | 50 | 44 | 56 | 6.1 | 7400 | 72.6 | 8 |
| RA13M48 | M48 | 127 | 28 | 57 | 178 | 64 | 50 | 58 | 12.0 | 9650 | 94.6 | 9 |
| RA13M56 | M56 | 152 | 33 | 70 | 203 | 76 | 58 | 75 | 20.4 | 13350 | 130.9 | 10 |
| RA13M64 | M64 | 152 | 33 | 70 | 203 | 76 | 66 | 75 | 19.6 | 18000 | 176.5 | 11 |
| RA13M72 | M72 | 150 | 38 | 90 | 200 | 150 | 74 | 80 | 41.1 | 23025 | 225.8 | 12 |
| RA13M80 | M80 | 180 | 40 | 100 | 200 | 180 | 82 | 90 | 57.3 | 28125 | 275.8 | 13 |

*Material: Forged Steel or Carbon Steel. This item may be forged or profiled*

*NORMAL SUPPLY IS FORGED UP TO M12 AND PROFILED FOR LARGER SIZES*

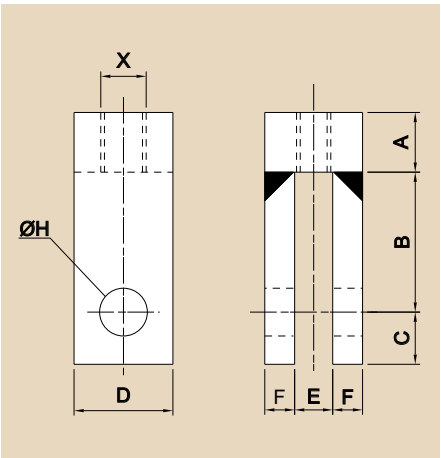
## RA13A-PROFILED CLEVIS




| PART NUMBER | ROD DIA. X | A | B | C | D | E | F | ØH | Weight kgf | LOAD CAPACITY | | LOAD GROUP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | kgf | KN | |
| RA13A M10 | 10 | 127 | 95 | 18 | 32 | 14 | 11 | 12 | 0.8 | 360 | 3.5 | 1 |
| RA13A M12 | 12 | 127 | 95 | 20 | 36 | 16 | 12 | 14 | 0.9 | 530 | 5.2 | 2 |
| RA13A M16 | 16 | 127 | 95 | 24 | 40 | 21 | 13 | 18 | 1.1 | 1010 | 9.9 | 3 |
| RA13A M20 | 20 | 134 | 102 | 32 | 50 | 26 | 15 | 22 | 1.8 | 1580 | 15.5 | 4 |
| RA13A M24 | 24 | 159 | 127 | 38 | 50 | 30 | 18 | 26 | 2.4 | 2280 | 22.4 | 5 |
| RA13A M30 | 30 | 159 | 125 | 42 | 63 | 36 | 20 | 32 | 3.3 | 3650 | 35.8 | 6 |
| RA13A M36 | 36 | 193 | 152 | 48 | 71 | 44 | 22 | 38 | 5.0 | 5340 | 52.4 | 7 |
| RA13A M42 | 42 | 196 | 146 | 55 | 80 | 52 | 24 | 44 | 6.4 | 7400 | 72.6 | 8 |
| RA13A M48 | 48 | 235 | 175 | 68 | 90 | 58 | 26 | 50 | 9.5 | 9650 | 94.6 | 9 |
| RA13A M56 | 56 | 273 | 203 | 78 | 110 | 66 | 34 | 58 | 17.4 | 13350 | 130.9 | 10 |
| RA13A M64 | 64 | 273 | 193 | 86 | 130 | 74 | 36 | 66 | 22.3 | 18000 | 176.5 | 11 |
| RA13A M72 | 72 | 290 | 200 | 94 | 150 | 80 | 38 | 74 | 29.2 | 23025 | 225.8 | 12 |
| RA13A M80 | 80 | 300 | 200 | 110 | 180 | 90 | 40 | 82 | 41.5 | 28125 | 275.8 | 13 |

*Material: Carbon Steel*

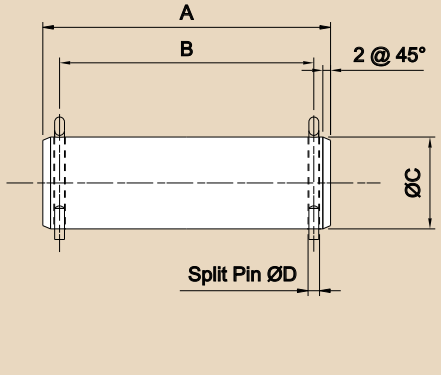
## RA13B (FABRICATED CLEVIS)




| PART NUMBER | ROD THREAD SIZE X | A | B | C | D | E | F | H | Weight kgf | LOAD CAPACITY | | LOAD GROUP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | kgf | KN | |
| RA13B M10 | M10 | 15 | 95 | 18 | 32 | 14 | 10 | 12 | 0.7 | 360 | 3.5 | 1 |
| RA13B M12 | M12 | 15 | 95 | 20 | 36 | 16 | 12 | 14 | 0.9 | 530 | 5.2 | 2 |
| RA13B M16 | M16 | 20 | 95 | 24 | 40 | 21 | 16 | 18 | 1.5 | 1010 | 9.9 | 3 |
| RA13B M20 | M20 | 20 | 102 | 32 | 50 | 26 | 16 | 22 | 2.1 | 1580 | 15.5 | 4 |
| RA13B M24 | M24 | 25 | 127 | 38 | 50 | 30 | 18 | 26 | 2.9 | 2280 | 22.4 | 5 |
| RA13B M30 | M30 | 30 | 125 | 42 | 63 | 36 | 20 | 32 | 4.4 | 3650 | 35.8 | 6 |
| RA13B M36 | M36 | 40 | 152 | 48 | 71 | 44 | 22 | 38 | 6.8 | 5340 | 52.4 | 7 |
| RA13B M42 | M42 | 45 | 146 | 55 | 80 | 52 | 25 | 44 | 9.1 | 7400 | 72.6 | 8 |
| RA13B M48 | M48 | 50 | 175 | 68 | 100 | 58 | 28 | 50 | 15.0 | 9650 | 94.6 | 9 |
| RA13B M56 | M56 | 60 | 203 | 78 | 110 | 66 | 36 | 58 | 24.4 | 13350 | 131 | 10 |
| RA13B M64 | M64 | 60 | 193 | 86 | 130 | 74 | 36 | 66 | 29.2 | 18000 | 177 | 11 |
| RA13B M72 | M72 | 70 | 200 | 94 | 150 | 80 | 36 | 74 | 37.2 | 23025 | 226 | 12 |
| RA13B M80 | M80 | 80 | 200 | 110 | 180 | 90 | 40 | 82 | 53.9 | 28125 | 276 | 13 |
| RA13B M90 | M90 | 100 | 220 | 120 | 190 | 100 | 45 | 94 | 73.5 | 35500 | 348.3 | 14 |
| RA13B M100 | M100 | 110 | 240 | 130 | 210 | 110 | 50 | 104 | 98.5 | 45000 | 441.5 | 15 |
| RA13B M110 | M110 | 120 | 260 | 140 | 230 | 120 | 55 | 116 | 128.6 | 55000 | 539.6 | 16 |
| RA13B M120 | M120 | 130 | 275 | 150 | 250 | 130 | 60 | 126 | 163.1 | 66500 | 652.4 | 17 |

*Material: Carbon Steel*

## RA14(CLEVIS PIN)

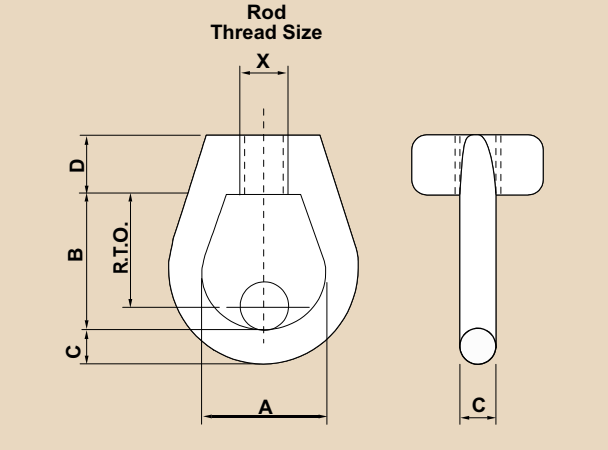



*Material: Forged Steel*

| PART NUMBER | ROD DIA. | A | B | PIN ØC | SPLIT PIN ØD | WEIGHT kgf | LOAD CAPACITY | | LOAD GROUP |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | kgf | KN | |
| RA14M08 | 8 | 70 | 55 | 8 | 4 | 0.03 | 230 | 2.3 | 0 |
| RA14M10 | 10 | 70 | 55 | 10 | 5 | 0.04 | 360 | 3.5 | 1 |
| RA14M12 | 12 | 75 | 60 | 12 | 5 | 0.07 | 530 | 5.2 | 2 |
| RA14M16 | 16 | 75 | 60 | 16 | 5 | 0.12 | 1010 | 9.9 | 3 |
| RA14M20 | 20 | 90 | 75 | 20 | 5 | 0.22 | 1580 | 15.5 | 4 |
| RA14M24 | 24 | 95 | 80 | 24 | 6 | 0.34 | 2280 | 22.4 | 5 |
| RA14M30 | 30 | 105 | 90 | 30 | 6 | 0.58 | 3650 | 35.8 | 6 |
| RA14M36 | 36 | 125 | 110 | 36 | 6 | 1.0 | 5340 | 52.4 | 7 |
| RA14M42 | 42 | 130 | 115 | 42 | 6 | 1.4 | 7400 | 72.6 | 8 |
| RA14M48 | 48 | 150 | 130 | 48 | 8 | 2.1 | 9650 | 94.6 | 9 |
| RA14M56 | 56 | 175 | 155 | 56 | 8 | 3.4 | 13350 | 130.9 | 10 |
| RA14M64 | 64 | 185 | 165 | 64 | 8 | 4.7 | 18000 | 176.5 | 11 |
| RA14M72 | 72 | 205 | 185 | 72 | 8 | 6.6 | 23025 | 225.8 | 12 |
| RA14M80 | 80 | 210 | 190 | 80 | 8 | 8.3 | 28125 | 275.8 | 13 |
| RA14M90 | 90 | 240 | 215 | 90 | 10 | 11.9 | 35500 | 348.3 | 14 |
| RA14M100 | 100 | 265 | 240 | 100 | 10 | 16.2 | 45000 | 441.5 | 15 |
| RA14M110 | 110 | 285 | 260 | 110 | 10 | 21.1 | 55000 | 539.6 | 16 |
| RA14M120 | 120 | 305 | 280 | 120 | 10 | 27 | 66500 | 652.4 | 17 |

R.T.O. ASSUMES USE IN CONJUNCTION WITH A PIN HAVING THE SAME DIAMETER AS THE HANGER ROD

## RA15 WELDLESS EYE NUT

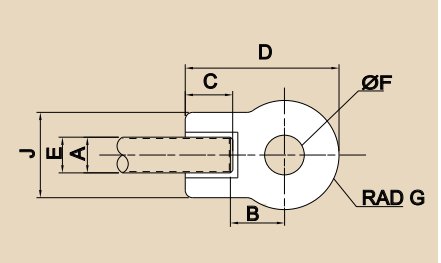



*Material: Forged Steel*

| PART NUMBER | ROD THREAD SIZE X | A | B | C | D | R.T.O. | WEIGHT kgf | LOAD CAPACITY | | LOAD GROUP |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | kgf | kN | |
| RA15M08 | M8 | 25 | 38 | 10 | 16 | 34 | 0.10 | 230 | 2.3 | 0 |
| RA15M10 | M10 | 25 | 38 | 10 | 16 | 33 | 0.10 | 360 | 3.5 | 1 |
| RA15M12 | M12 | 38 | 51 | 13 | 17 | 45 | 0.27 | 530 | 5.2 | 2 |
| RA15M16 | M16 | 38 | 51 | 13 | 17 | 43 | 0.25 | 1010 | 9.9 | 3 |
| RA15M20 | M20 | 50 | 79 | 17 | 28 | 69 | 0.84 | 1580 | 15.5 | 4 |
| RA15M24 | M24 | 50 | 79 | 17 | 28 | 67 | 0.81 | 2280 | 22.4 | 5 |
| RA15M30 | M30 | 47 | 95 | 20 | 47 | 80 | 2.1 | 3650 | 35.8 | 6 |
| RA15M36 | M36 | 47 | 95 | 20 | 47 | 77 | 2.0 | 5340 | 52.4 | 7 |
| RA15M42 | M42 | 101 | 159 | 38 | 57 | 138 | 7.5 | 7400 | 72.6 | 8 |
| RA15M48 | M48 | 101 | 159 | 38 | 57 | 135 | 7.3 | 9650 | 94.6 | 9 |
| RA15M56 | M56 | 101 | 159 | 38 | 57 | 131 | 7.1 | 13350 | 130.9 | 10 |
| RA15M64 | M64 | 101 | 159 | 38 | 57 | 127 | 6.8 | 18000 | 176.5 | 11 |
| RA15M72 | M72 | 101 | 222 | 49 | 89 | 186 | 18.0 | 23025 | 225.8 | 12 |
| RA15M80 | M80 | 101 | 222 | 49 | 89 | 182 | 17.4 | 28125 | 275.8 | 13 |

R.T.O. ASSUMES USE IN CONJUNCTION WITH A PIN HAVING THE SAME DIAMETER AS THE HANGER ROD.
FOR THREAD SIZES M72 AND ABOVE, PROFILED SPADE ENDS CAN BE SUPPLIED INSTEAD OF EYENUT.

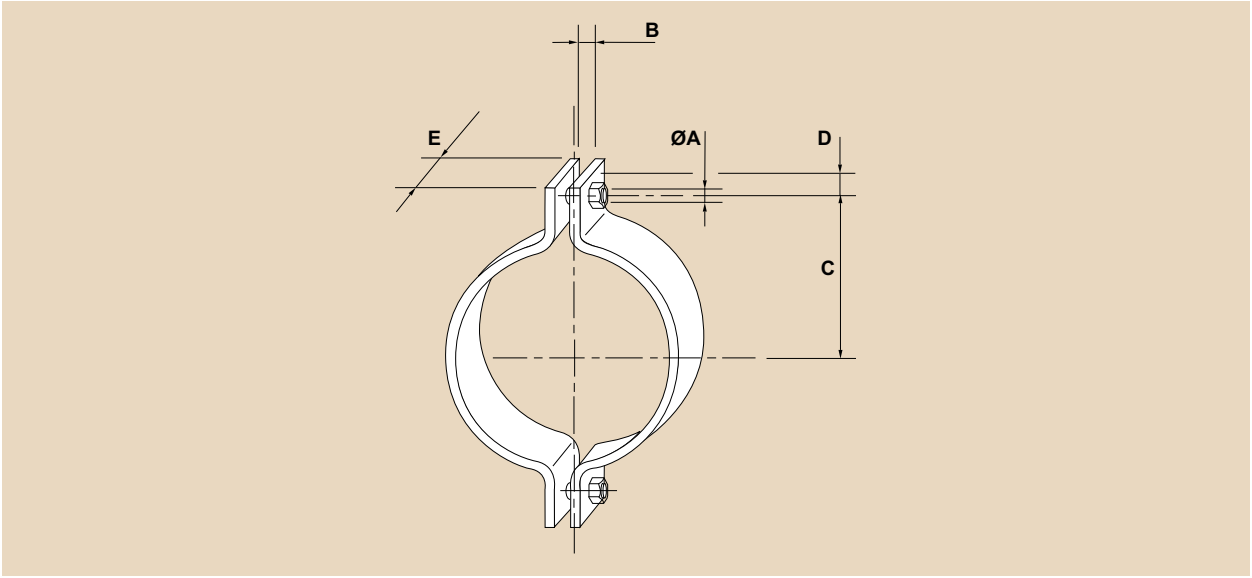
## RA15A-SPADE END




*Material: Carbon Steel*

| PART NUMBER | ROD THREAD SIZE A | B | C | D | E | HOLE ØF | G | J | WEIGHT kg | LOAD CAPACITY | | LOAD GROUP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | kgf | KN | |
| RA15A M72 | M72 | 186 | 101 | 392 | 74 | 84 | 110 | 180 | 18.4 | 23025 | 225.8 | 12 |
| RA15A M80 | M80 | 182 | 121 | 408 | 82 | 90 | 110 | 180 | 22.8 | 28125 | 275.8 | 13 |
| RA15A M90 | M90 | 200 | 150 | 475 | 92 | 100 | 130 | 220 | 32.7 | 35500 | 348.3 | 14 |
| RA15A M100 | M100 | 225 | 160 | 510 | 102 | 110 | 130 | 220 | 41 | 45000 | 441.5 | 15 |
| RA15A M110 | M110 | 245 | 180 | 580 | 112 | 120 | 160 | 260 | 59.2 | 55000 | 539.6 | 16 |
| RA15A M120 | M120 | 270 | 200 | 645 | 122 | 130 | 180 | 300 | 74.3 | 66500 | 652.4 | 17 |

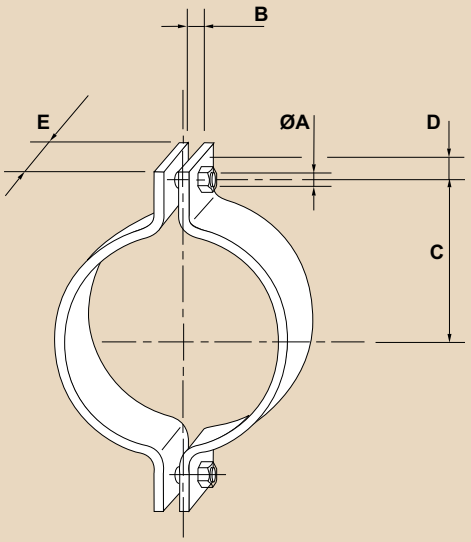
# PA2 PIPE CLAMP FOR UNLAGGED PIPE TWO BOLT TYPE




*Material: Carbon Steel*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity at 350C | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | kgf | |
| **PA2-15-0** | 21.3 | 0.839 | 12 | 15 | 30 | 1 3/16 | 18 | 35 | 0.3 | 390 | M8–M16 |
| **PA2-20-0** | 26.7 | 1.051 | 12 | 15 | 35 | 1 3/8 | 18 | 35 | 0.4 | 390 | M8–M16 |
| **PA2-25-0** | 33.4 | 1.315 | 12 | 15 | 40 | 1 9/16 | 18 | 35 | 0.4 | 390 | M8–M16 |
| **PA2-32-0** | 42.2 | 1.661 | 12 | 15 | 45 | 1 3/4 | 18 | 35 | 0.4 | 390 | M8–M16 |
| **PA2-40-0** | 48.3 | 1.902 | 12 | 15 | 45 | 1 3/4 | 18 | 35 | 0.5 | 390 | M8–M16 |
| **PA2-50-0** | 60.3 | 2.375 | 12 | 15 | 55 | 2 3/16 | 18 | 35 | 0.5 | 390 | M8–M16 |
| PA2-50-1 | 60.3 | 2.375 | 16 | 17 | 60 | 2 3/8 | 24 | 40 | 0.9 | 740 | M8–M16 |
| PA2-50-2 | 60.3 | 2.375 | 16 | 17 | 60 | 2 3/8 | 24 | 40 | 0.9 | 740 | M8–M16 |
| PA2-65-0 | 73.0 | 2.875 | 12 | 15 | 65 | 2 9/16 | 18 | 35 | 0.6 | 370 | M8–M16 |
| PA2-65-1 | 73.0 | 2.875 | 16 | 17 | 70 | 2 3/4 | 24 | 40 | 1.0 | 590 | M8–M16 |
| **PA2-65-2** | 73.0 | 2.875 | 16 | 17 | 70 | 2 3/4 | 24 | 40 | 1.0 | 590 | M8–M16 |
| PA2-80-0 | 88.9 | 3.500 | 12 | 15 | 70 | 2 3/4 | 18 | 35 | 0.7 | 340 | M8–M16 |
| PA2-80-1 | 88.9 | 3.500 | 16 | 17 | 75 | 2 15/16 | 24 | 40 | 1.0 | 530 | M8–M16 |
| **PA2-80-2** | 88.9 | 3.500 | 16 | 17 | 75 | 2 15/16 | 24 | 40 | 1.0 | 530 | M8–M16 |
| PA2-90-0 | 101.6 | 4.000 | 12 | 15 | 75 | 2 15/16 | 18 | 35 | 0.7 | 320 | M8–M16 |
| PA2-90-1 | 101.6 | 4.000 | 16 | 17 | 80 | 3 1/8 | 24 | 40 | 1.1 | 500 | M8–M16 |
| PA2-90-2 | 101.6 | 4.000 | 16 | 17 | 85 | 3 3/8 | 24 | 40 | 1.4 | 800 | M8–M16 |
| **PA2-100-0** | 114.3 | 4.500 | 12 | 15 | 85 | 3 3/8 | 18 | 35 | 0.8 | 270 | M8–M16 |
| PA2-100-1 | 114.3 | 4.500 | 16 | 17 | 90 | 3 9/16 | 24 | 40 | 1.2 | 420 | M8–M16 |
| **PA2-100-2** | 114.3 | 4.500 | 16 | 17 | 95 | 3 3/4 | 24 | 40 | 1.6 | 740 | M8–M16 |
| PA2-100-3 | 114.3 | 4.500 | 20 | 20 | 105 | 4 1/8 | 30 | 60 | 3.8 | 1320 | M12–M24 |
| PA2-125-0 | 141.3 | 5.563 | 12 | 15 | 95 | 3 3/4 | 18 | 35 | 0.9 | 260 | M8–M16 |
| PA2-125-1 | 141.3 | 5.563 | 16 | 17 | 105 | 4 1/8 | 24 | 40 | 1.7 | 680 | M8–M16 |
| PA2-125-2 | 141.3 | 5.563 | 16 | 17 | 105 | 4 1/8 | 24 | 40 | 1.7 | 680 | M8–M16 |
| PA2-125-3 | 141.3 | 5.563 | 20 | 20 | 120 | 4 3/4 | 30 | 60 | 4.3 | 1320 | M12–M24 |
| **PA2-150-0** | 168.3 | 6.625 | 12 | 15 | 115 | 4 1/2 | 18 | 40 | 1.4 | 340 | M8–M16 |
| PA2-150-1 | 168.3 | 6.625 | 16 | 17 | 120 | 4 3/4 | 24 | 40 | 2.0 | 590 | M8–M16 |
| **PA2-150-2** | 168.3 | 6.625 | 16 | 17 | 120 | 4 3/4 | 24 | 40 | 2.0 | 590 | M8–M16 |
| PA2-150-3 | 168.3 | 6.625 | 20 | 20 | 135 | 5 5/16 | 30 | 60 | 4.8 | 1320 | M12–M24 |
| PA2-150-4 | 168.3 | 6.625 | 24 | 25 | 135 | 5 5/16 | 36 | 60 | 5.1 | 1800 | M12–M36 |

# PA2 PIPE CLAMP FOR UNLAGGED PIPE TWO BOLT TYPE



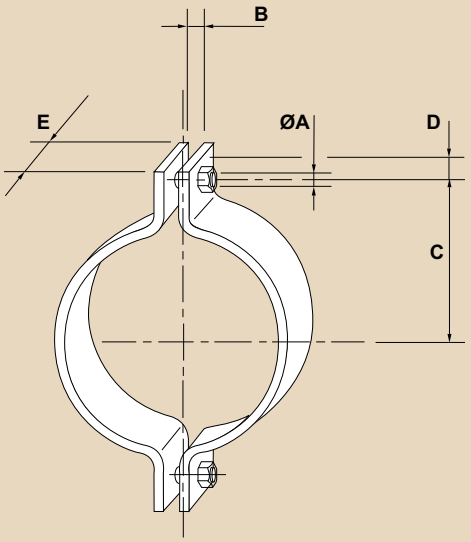

*Material: Carbon Steel*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity at 350C | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | kgf | |
| PA2-175-0 | 193.7 | 7.625 | 12 | 15 | 125 | 4 15/16 | 18 | 40 | 1.5 | 330 | M8–M16 |
| PA2-175-1 | 193.7 | 7.625 | 16 | 17 | 135 | 5 5/16 | 24 | 40 | 2.2 | 510 | M8–M16 |
| PA2-175-2 | 193.7 | 7.625 | 16 | 17 | 140 | 5 1/2 | 24 | 45 | 3.1 | 800 | M8–M16 |
| PA2-175-3 | 193.7 | 7.625 | 20 | 20 | 145 | 5 11/16 | 30 | 60 | 5.2 | 1320 | M12–M24 |
| PA2-175-4 | 193.7 | 7.625 | 24 | 25 | 150 | 5 7/8 | 36 | 60 | 5.6 | 1590 | M12–M36 |
| PA2-175-5 | 193.7 | 7.625 | 30 | 29 | 170 | 6 11/16 | 45 | 90 | 15.1 | 3050 | M12–M36 |
| PA2-200-0 | 219.1 | 8.625 | 12 | 15 | 140 | 5 1/2 | 18 | 40 | 1.7 | 290 | M8–M16 |
| **PA2-200-1** | 219.1 | 8.625 | 16 | 17 | 150 | 5 7/8 | 24 | 40 | 2.4 | 460 | M8–M16 |
| **PA2-200-2** | 219.1 | 8.625 | 16 | 17 | 155 | 6 1/8 | 24 | 45 | 3.4 | 790 | M8–M16 |
| PA2-200-3 | 219.1 | 8.625 | 20 | 20 | 160 | 6 5/16 | 30 | 60 | 5.7 | 1320 | M12–M24 |
| PA2-200-4 | 219.1 | 8.625 | 24 | 25 | 180 | 7 1/16 | 36 | 65 | 11.1 | 1830 | M12–M36 |
| PA2-200-5 | 219.1 | 8.625 | 30 | 29 | 185 | 7 5/16 | 45 | 90 | 16.3 | 3050 | M12–M36 |
| PA2-200-6 | 219.1 | 8.625 | 36 | 41 | 185 | 7 5/16 | 54 | 90 | 17.5 | 3810 | M20–M64 |
| PA2-225-0 | 244.5 | 9.625 | 12 | 15 | 150 | 5 7/8 | 18 | 40 | 1.8 | 290 | M8–M16 |
| PA2-225-1 | 244.5 | 9.625 | 16 | 17 | 160 | 6 5/16 | 24 | 40 | 2.6 | 440 | M8–M16 |
| PA2-225-2 | 244.5 | 9.625 | 16 | 17 | 165 | 6 1/2 | 24 | 45 | 3.6 | 760 | M8–M16 |
| PA2-225-3 | 244.5 | 9.625 | 20 | 20 | 175 | 6 7/8 | 30 | 60 | 6.2 | 1320 | M12–M24 |
| PA2-225-4 | 244.5 | 9.625 | 24 | 25 | 190 | 7 1/2 | 36 | 65 | 11.7 | 1830 | M12–M36 |
| PA2-225-5 | 244.5 | 9.625 | 30 | 29 | 195 | 7 11/16 | 45 | 90 | 17.2 | 3050 | M12–M36 |
| PA2-225-6 | 244.5 | 9.625 | 36 | 41 | 200 | 7 7/8 | 54 | 90 | 18.7 | 3810 | M20–M64 |
| PA2-250-0 | 273.0 | 10.75 | 12 | 15 | 170 | 6 11/16 | 18 | 40 | 2.0 | 240 | M8–M16 |
| **PA2-250-1** | 273.0 | 10.75 | 16 | 17 | 175 | 6 7/8 | 24 | 40 | 2.8 | 410 | M8–M16 |
| PA2-250-2 | 273.0 | 10.75 | 16 | 17 | 180 | 7 1/16 | 24 | 45 | 4.0 | 710 | M8–M16 |
| **PA2-250-3** | 273.0 | 10.75 | 20 | 20 | 190 | 7 1/2 | 30 | 60 | 6.7 | 1240 | M12–M24 |
| PA2-250-4 | 273.0 | 10.75 | 24 | 25 | 205 | 8 1/16 | 36 | 65 | 12.7 | 1830 | M12–M36 |
| PA2-250-5 | 273.0 | 10.75 | 30 | 29 | 215 | 8 7/16 | 45 | 90 | 18.8 | 3050 | M12–M36 |
| PA2-250-6 | 273.0 | 10.75 | 36 | 41 | 215 | 8 7/16 | 54 | 90 | 20.0 | 3810 | M20–M64 |
| PA2-250-7 | 273.0 | 10.75 | 42 | 45 | 220 | 8 11/16 | 63 | 110 | 26.0 | 5470 | M30–M64 |



Bold part numbers indicate a stocked Item.

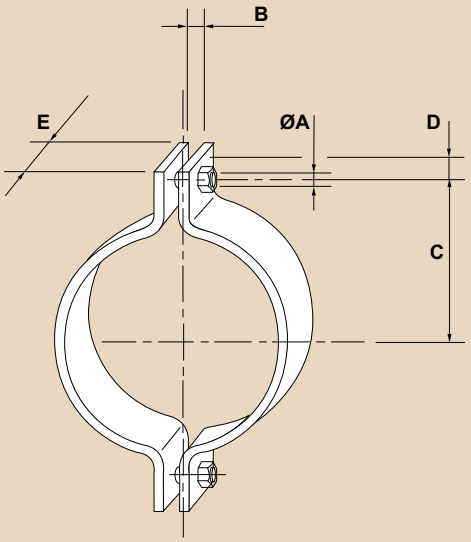
# PA2 PIPE CLAMP FOR UNLAGGED PIPE TWO BOLT TYPE




*Material: Carbon Steel*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity at 350C | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | kgf | |
| PA2-300-1 | 323.9 | 12.75 | 16 | 17 | 200 | 7 7/8 | 24 | 40 | 3.2 | 380 | M8–M16 |
| **PA2-300-2** | 323.9 | 12.75 | 16 | 17 | 205 | 8 1/16 | 24 | 45 | 4.5 | 650 | M8–M16 |
| PA2-300-3 | 323.9 | 12.75 | 20 | 20 | 215 | 8 7/16 | 30 | 60 | 7.6 | 1130 | M12–M24 |
| **PA2-300-4** | 323.9 | 12.75 | 24 | 25 | 235 | 9 1/4 | 36 | 65 | 14.4 | 1830 | M12–M36 |
| PA2-300-5 | 323.9 | 12.75 | 30 | 29 | 240 | 9 7/16 | 45 | 90 | 21.0 | 3050 | M12–M36 |
| PA2-300-6 | 323.9 | 12.75 | 36 | 41 | 245 | 9 5/8 | 54 | 90 | 22.5 | 3810 | M20–M64 |
| PA2-300-7 | 323.9 | 12.75 | 42 | 45 | 260 | 10 1/4 | 63 | 110 | 36.1 | 5470 | M30–M64 |
| PA2-300-8 | 323.9 | 12.75 | 48 | 52 | 265 | 10 7/16 | 72 | 130 | 44.9 | 8760 | M42–M80 |
| PA2-350-1 | 355.6 | 14.00 | 16 | 17 | 225 | 8 7/8 | 24 | 45 | 4.9 | 570 | M8–M16 |
| PA2-350-2 | 355.6 | 14.00 | 16 | 17 | 225 | 8 7/8 | 24 | 45 | 4.9 | 570 | M8–M16 |
| PA2-350-3 | 355.6 | 14.00 | 20 | 20 | 230 | 9 1/16 | 30 | 60 | 8.1 | 1080 | M12–M24 |
| PA2-350-4 | 355.6 | 14.00 | 24 | 25 | 250 | 9 13/16 | 36 | 65 | 15.4 | 1830 | M12–M36 |
| PA2-350-5 | 355.6 | 14.00 | 30 | 29 | 255 | 10 1/16 | 45 | 90 | 22.3 | 3050 | M12–M36 |
| PA2-350-6 | 355.6 | 14.00 | 36 | 41 | 260 | 10 1/4 | 54 | 90 | 23.8 | 3810 | M20–M64 |
| PA2-350-7 | 355.6 | 14.00 | 42 | 45 | 275 | 10 13/16 | 63 | 110 | 38.1 | 5470 | M30–M64 |
| PA2-350-8 | 355.6 | 14.00 | 48 | 52 | 280 | 11 | 72 | 130 | 47.2 | 8250 | M42–M80 |
| PA2-350-9 | 355.6 | 14.00 | 56 | 58 | 295 | 11 5/8 | 84 | 150 | 69.5 | 10000 | M42–M80 |
| PA2-400-1 | 406.4 | 16.00 | 16 | 17 | 250 | 9 13/16 | 24 | 45 | 5.5 | 530 | M8–M16 |
| PA2-400-2 | 406.4 | 16.00 | 16 | 17 | 255 | 10 1/16 | 24 | 60 | 8.7 | 800 | M8–M16 |
| PA2-400-3 | 406.4 | 16.00 | 20 | 20 | 265 | 10 7/16 | 30 | 55 | 10.5 | 1320 | M12–M24 |
| PA2-400-4 | 406.4 | 16.00 | 24 | 25 | 275 | 10 13/16 | 36 | 65 | 17.0 | 1830 | M12–M36 |
| PA2-400-5 | 406.4 | 16.00 | 30 | 29 | 285 | 11 1/4 | 45 | 90 | 24.8 | 3050 | M12–M36 |
| PA2-400-6 | 406.4 | 16.00 | 36 | 41 | 285 | 11 1/4 | 54 | 110 | 31.3 | 3810 | M20–M64 |
| PA2-400-7 | 406.4 | 16.00 | 42 | 45 | 300 | 11 13/16 | 63 | 110 | 41.4 | 5470 | M30–M64 |
| PA2-400-8 | 406.4 | 16.00 | 48 | 52 | 305 | 12 | 72 | 130 | 51.1 | 7530 | M42–M80 |
| PA2-400-9 | 406.4 | 16.00 | 56 | 58 | 325 | 12 13/16 | 84 | 150 | 75.5 | 10000 | M42–M80 |
| PA2-400-10 | 406.4 | 16.00 | 64 | 65 | 345 | 13 9/16 | 96 | 180 | 125.9 | 20510 | M42–M80 |

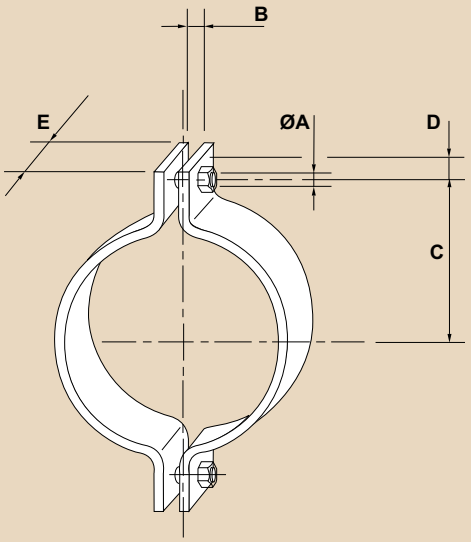
# PA2 PIPE CLAMP FOR UNLAGGED PIPE TWO BOLT TYPE




*Material: Carbon Steel*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity at 350C | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | kgf | |
| PA2-450-2 | 457.2 | 18.00 | 16 | 17 | 280 | 11 | 24 | 60 | 9.6 | 800 | M8–M16 |
| PA2-450-3 | 457.2 | 18.00 | 20 | 20 | 290 | 11 7/16 | 30 | 55 | 11.5 | 1260 | M12–M24 |
| PA2-450-4 | 457.2 | 18.00 | 24 | 25 | 305 | 12 | 36 | 65 | 18.8 | 1830 | M12–M36 |
| PA2-450-5 | 457.2 | 18.00 | 30 | 29 | 310 | 12 3/16 | 45 | 90 | 27.0 | 3050 | M12–M36 |
| PA2-450-6 | 457.2 | 18.00 | 36 | 41 | 315 | 12 3/8 | 54 | 110 | 34.3 | 3810 | M20–M64 |
| PA2-450-7 | 457.2 | 18.00 | 42 | 45 | 330 | 13 | 63 | 110 | 45.2 | 5470 | M30–M64 |
| PA2-450-8 | 457.2 | 18.00 | 48 | 52 | 335 | 13 3/16 | 72 | 150 | 63.4 | 7780 | M42–M80 |
| PA2-450-9 | 457.2 | 18.00 | 56 | 58 | 350 | 13 3/4 | 84 | 150 | 81.0 | 10000 | M42–M80 |
| PA2-450-10 | 457.2 | 18.00 | 64 | 65 | 375 | 14 3/4 | 96 | 180 | 135.7 | 20510 | M42–M80 |
| PA2-450-11 | 457.2 | 18.00 | 72 | 69 | 385 | 15 3/16 | 108 | 180 | 144.6 | 21500 | M42–M80 |
| PA2-500-2 | 508 | 20.00 | 16 | 17 | 305 | 12 | 24 | 60 | 10.5 | 800 | M8–M16 |
| PA2-500-3 | 508 | 20.00 | 20 | 20 | 315 | 12 3/8 | 30 | 55 | 12.5 | 1200 | M12–M24 |
| PA2-500-4 | 508 | 20.00 | 24 | 25 | 330 | 13 | 36 | 65 | 20.4 | 1830 | M12–M36 |
| PA2-500-5 | 508 | 20.00 | 30 | 29 | 335 | 13 3/16 | 45 | 90 | 29.2 | 3050 | M12–M36 |
| PA2-500-6 | 508 | 20.00 | 36 | 41 | 340 | 13 3/8 | 54 | 110 | 37.0 | 3680 | M20–M64 |
| PA2-500-7 | 508 | 20.00 | 42 | 45 | 355 | 14 | 63 | 110 | 48.6 | 5470 | M30–M64 |
| PA2-500-8 | 508 | 20.00 | 48 | 52 | 370 | 14 9/16 | 72 | 150 | 81.7 | 10420 | M42–M80 |
| PA2-500-9 | 508 | 20.00 | 56 | 58 | 380 | 14 15/16 | 84 | 150 | 87.2 | 9870 | M42–M80 |
| PA2-500-10 | 508 | 20.00 | 64 | 65 | 405 | 15 15/16 | 96 | 180 | 145.4 | 20380 | M42–M80 |
| PA2-500-11 | 508 | 20.00 | 72 | 69 | 410 | 16 1/8 | 108 | 180 | 153.2 | 20020 | M42–M80 |
| PA2-500-12 | 508 | 20.00 | 80 | 77 | 420 | 16 9/16 | 120 | 220 | 194.9 | 23700 | M72–M80 |
| PA2-550-3 | 558.8 | 22.00 | 20 | 20 | 340 | 13 3/8 | 30 | 55 | 13.5 | 1130 | M12–M24 |
| PA2-550-4 | 558.8 | 22.00 | 24 | 25 | 355 | 14 | 36 | 65 | 22.0 | 1830 | M12–M36 |
| PA2-550-5 | 558.8 | 22.00 | 30 | 29 | 360 | 14 3/16 | 45 | 90 | 31.4 | 2920 | M12–M36 |
| PA2-550-6 | 558.8 | 22.00 | 36 | 41 | 375 | 14 3/4 | 54 | 110 | 49.7 | 3810 | M20–M64 |
| PA2-550-7 | 558.8 | 22.00 | 42 | 45 | 385 | 15 3/16 | 63 | 130 | 61.3 | 5470 | M30–M64 |
| PA2-550-8 | 558.8 | 22.00 | 48 | 52 | 400 | 15 3/4 | 72 | 150 | 87.9 | 9480 | M42–M80 |
| PA2-550-9 | 558.8 | 22.00 | 56 | 58 | 425 | 16 3/4 | 84 | 150 | 123.9 | 10000 | M42–M80 |
| PA2-550-10 | 558.8 | 22.00 | 64 | 65 | 430 | 16 15/16 | 96 | 180 | 154.0 | 19130 | M42–M80 |
| PA2-550-11 | 558.8 | 22.00 | 72 | 69 | 440 | 17 5/16 | 108 | 180 | 162.9 | 18340 | M42–M80 |
| PA2-550-12 | 558.8 | 22.00 | 80 | 77 | 465 | 18 5/16 | 120 | 200 | 235.6 | 31070 | M72–M80 |
| PA2-550-13 | 558.8 | 22.00 | 80 | 85 | 460 | 18 1/8 | 120 | 200 | 233.9 | 30830 | M72–M80 |

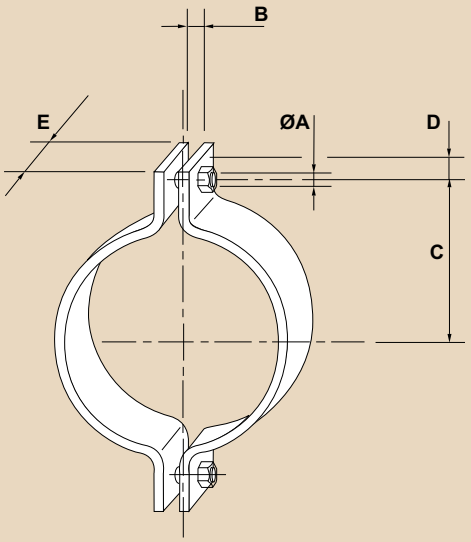
# PA2 PIPE CLAMP FOR UNLAGGED PIPE TWO BOLT TYPE




*Material: Carbon Steel*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity at 350C | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | kgf | |
| PA2-600-3 | 609.6 | 24.00 | 20 | 20 | 370 | 14 9/16 | 30 | 55 | 14.7 | 1010 | M12–M24 |
| PA2-600-4 | 609.6 | 24.00 | 24 | 25 | 385 | 15 3/16 | 36 | 65 | 23.8 | 1830 | M12–M36 |
| PA2-600-5 | 609.6 | 24.00 | 30 | 29 | 390 | 15 3/8 | 45 | 90 | 34.0 | 2660 | M12–M36 |
| PA2-600-6 | 609.6 | 24.00 | 36 | 41 | 405 | 15 15/16 | 54 | 110 | 53.5 | 3810 | M20–M64 |
| PA2-600-7 | 609.6 | 24.00 | 42 | 45 | 410 | 16 1/8 | 63 | 130 | 65.3 | 5470 | M30–M64 |
| PA2-600-8 | 609.6 | 24.00 | 48 | 52 | 425 | 16 3/4 | 72 | 150 | 93.4 | 9000 | M42–M80 |
| PA2-600-9 | 609.6 | 24.00 | 56 | 58 | 450 | 17 11/16 | 84 | 150 | 131.2 | 10000 | M42–M80 |
| PA2-600-10 | 609.6 | 24.00 | 64 | 65 | 460 | 18 1/8 | 96 | 180 | 163.8 | 17670 | M42–M80 |
| PA2-600-11 | 609.6 | 24.00 | 72 | 69 | 465 | 18 5/16 | 108 | 200 | 189.0 | 19260 | M42–M80 |
| PA2-600-12 | 609.6 | 24.00 | 80 | 77 | 490 | 19 5/16 | 120 | 200 | 247.6 | 29340 | M72–M80 |
| PA2-600-13 | 609.6 | 24.00 | 80 | 85 | 490 | 19 5/16 | 120 | 200 | 247.4 | 29610 | M72–M80 |
| PA2-650-3 | 660.4 | 26.00 | 20 | 20 | 405 | 15 15/16 | 30 | 65 | 24.8 | 1320 | M12–M24 |
| PA2-650-4 | 660.4 | 26.00 | 24 | 25 | 410 | 16 1/8 | 36 | 65 | 25.4 | 1830 | M12–M36 |
| PA2-650-5 | 660.4 | 26.00 | 30 | 29 | 415 | 16 5/16 | 45 | 90 | 36.2 | 2530 | M12–M36 |
| PA2-650-6 | 660.4 | 26.00 | 36 | 41 | 430 | 16 15/16 | 54 | 110 | 56.9 | 3810 | M20–M64 |
| PA2-650-7 | 660.4 | 26.00 | 42 | 45 | 435 | 17 1/8 | 63 | 150 | 79.5 | 5470 | M30–M64 |
| PA2-650-8 | 660.4 | 26.00 | 48 | 52 | 450 | 17 11/16 | 72 | 150 | 98.8 | 8560 | M42–M80 |
| PA2-650-9 | 660.4 | 26.00 | 56 | 58 | 480 | 18 7/8 | 84 | 150 | 139.4 | 10000 | M42–M80 |
| PA2-650-10 | 660.4 | 26.00 | 64 | 65 | 485 | 19 1/8 | 96 | 180 | 172.6 | 16770 | M42–M80 |
| PA2-650-11 | 660.4 | 26.00 | 72 | 69 | 490 | 19 5/16 | 108 | 200 | 198.7 | 18270 | M42–M80 |
| PA2-650-12 | 660.4 | 26.00 | 80 | 77 | 520 | 20 1/2 | 120 | 200 | 261.1 | 27260 | M72–M80 |
| PA2-650-13 | 660.4 | 26.00 | 80 | 85 | 515 | 20 1/4 | 120 | 220 | 283.0 | 30830 | M72–M80 |
| PA2-700-3 | 711.2 | 28.00 | 20 | 20 | 430 | 16 15/16 | 30 | 65 | 26.4 | 1320 | M12–M24 |
| PA2-700-4 | 711.2 | 28.00 | 24 | 25 | 435 | 17 1/8 | 36 | 65 | 27.0 | 1830 | M12–M36 |
| PA2-700-5 | 711.2 | 28.00 | 30 | 29 | 440 | 17 5/16 | 45 | 90 | 38.4 | 2420 | M12–M36 |
| PA2-700-6 | 711.2 | 28.00 | 36 | 41 | 455 | 17 15/16 | 54 | 110 | 60.3 | 3810 | M20–M64 |
| PA2-700-7 | 711.2 | 28.00 | 42 | 45 | 460 | 18 1/8 | 63 | 150 | 84.0 | 5470 | M30–M64 |
| PA2-700-8 | 711.2 | 28.00 | 48 | 52 | 475 | 18 11/16 | 72 | 150 | 104.3 | 8170 | M42–M80 |
| PA2-700-9 | 711.2 | 28.00 | 56 | 58 | 505 | 19 7/8 | 84 | 150 | 146.5 | 10000 | M42–M80 |
| PA2-700-10 | 711.2 | 28.00 | 64 | 65 | 510 | 20 1/16 | 96 | 180 | 181.2 | 15990 | M42–M80 |
| PA2-700-11 | 711.2 | 28.00 | 72 | 69 | 520 | 20 1/2 | 108 | 220 | 229.0 | 18700 | M42–M80 |
| PA2-700-12 | 711.2 | 28.00 | 80 | 77 | 545 | 21 7/16 | 120 | 200 | 273.0 | 25950 | M72–M80 |
| PA2-700-13 | 711.2 | 28.00 | 80 | 85 | 545 | 21 7/16 | 120 | 220 | 297.9 | 28790 | M72–M80 |

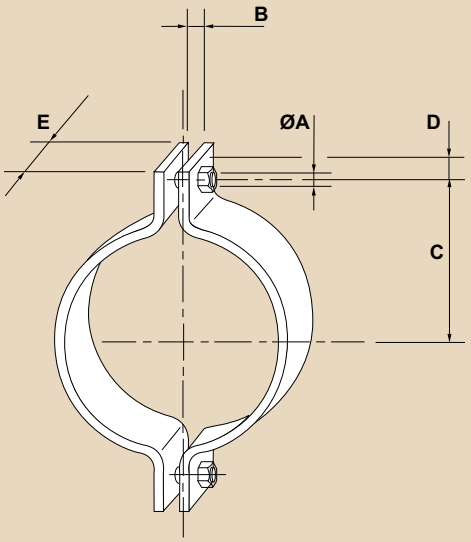
# PA2 PIPE CLAMP FOR UNLAGGED PIPE TWO BOLT TYPE




*Material: Carbon Steel*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity at 350C | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | kgf | |
| PA2-750-4 | 762.0 | 30.00 | 24 | 25 | 460 | 18 1/8 | 36 | 65 | 28.6 | 1780 | M12–M36 |
| PA2-750-5 | 762.0 | 30.00 | 30 | 29 | 465 | 18 5/16 | 45 | 90 | 40.6 | 2350 | M12–M36 |
| PA2-750-6 | 762.0 | 30.00 | 36 | 41 | 480 | 18 7/8 | 54 | 110 | 63.7 | 3810 | M20–M64 |
| PA2-750-7 | 762.0 | 30.00 | 42 | 45 | 485 | 19 1/8 | 63 | 150 | 88.7 | 5470 | M30–M64 |
| PA2-750-8 | 762.0 | 30.00 | 48 | 52 | 505 | 19 7/8 | 72 | 150 | 110.6 | 7610 | M42–M80 |
| PA2-750-9 | 762.0 | 30.00 | 56 | 58 | 530 | 20 7/8 | 84 | 150 | 153.9 | 10000 | M42–M80 |
| PA2-750-10 | 762.0 | 30.00 | 64 | 65 | 540 | 21 1/4 | 96 | 180 | 191.1 | 14970 | M42–M80 |
| PA2-750-11 | 762.0 | 30.00 | 72 | 69 | 565 | 22 1/4 | 108 | 200 | 275.1 | 25190 | M42–M80 |
| PA2-750-12 | 762.0 | 30.00 | 80 | 77 | 570 | 22 7/16 | 120 | 200 | 285.1 | 24860 | M72–M80 |
| PA2-750-13 | 762.0 | 30.00 | 80 | 85 | 570 | 22 7/16 | 120 | 240 | 337.6 | 30070 | M72–M80 |
| PA2-800-4 | 812.8 | 32.00 | 24 | 25 | 485 | 19 1/8 | 36 | 65 | 30.2 | 1730 | M12–M36 |
| PA2-800-5 | 812.8 | 32.00 | 30 | 29 | 490 | 19 5/16 | 45 | 110 | 52.1 | 2780 | M12–M36 |
| PA2-800-6 | 812.8 | 32.00 | 36 | 41 | 510 | 20 1/16 | 54 | 110 | 67.5 | 3810 | M20–M64 |
| PA2-800-7 | 812.8 | 32.00 | 42 | 45 | 525 | 20 11/16 | 63 | 150 | 113.0 | 5470 | M30–M64 |
| PA2-800-8 | 812.8 | 32.00 | 48 | 52 | 550 | 21 5/8 | 72 | 150 | 155.9 | 10910 | M42–M80 |
| PA2-800-9 | 812.8 | 32.00 | 56 | 58 | 560 | 22 1/16 | 84 | 150 | 162.3 | 10000 | M42–M80 |
| PA2-800-10 | 812.8 | 32.00 | 64 | 65 | 565 | 22 1/4 | 96 | 180 | 199.9 | 14410 | M42–M80 |
| PA2-800-11 | 812.8 | 32.00 | 72 | 69 | 590 | 23 1/4 | 108 | 200 | 287.4 | 24240 | M42–M80 |
| PA2-800-12 | 812.8 | 32.00 | 80 | 77 | 600 | 23 5/8 | 120 | 200 | 299.0 | 23420 | M72–M80 |
| PA2-800-13 | 812.8 | 32.00 | 80 | 85 | 600 | 23 5/8 | 120 | 240 | 354.2 | 28320 | M72–M80 |
| PA2-850-4 | 863.6 | 34.00 | 24 | 25 | 510 | 20 1/16 | 36 | 65 | 31.8 | 1670 | M12–M36 |
| PA2-850-5 | 863.6 | 34.00 | 30 | 29 | 515 | 21 1/4 | 45 | 110 | 54.8 | 2690 | M12–M36 |
| PA2-850-6 | 863.6 | 34.00 | 36 | 41 | 535 | 21 1/16 | 54 | 110 | 70.9 | 3810 | M20–M64 |
| PA2-850-7 | 863.6 | 34.00 | 42 | 45 | 550 | 21 5/8 | 63 | 150 | 118.5 | 5470 | M30–M64 |
| PA2-850-8 | 863.6 | 34.00 | 48 | 52 | 575 | 22 5/8 | 72 | 150 | 163.3 | 10910 | M42–M80 |
| PA2-850-9 | 863.6 | 34.00 | 56 | 58 | 585 | 23 1/16 | 84 | 150 | 169.5 | 10000 | M42–M80 |
| PA2-850-10 | 863.6 | 34.00 | 64 | 65 | 590 | 23 1/4 | 96 | 180 | 208.7 | 13870 | M42–M80 |
| PA2-850-11 | 863.6 | 34.00 | 72 | 69 | 620 | 24 7/16 | 108 | 200 | 300.9 | 22830 | M42–M80 |
| PA2-850-12 | 863.6 | 34.00 | 80 | 77 | 625 | 24 5/8 | 120 | 220 | 340.0 | 24770 | M72–M80 |
| PA2-850-13 | 863.6 | 34.00 | 80 | 85 | 625 | 24 5/8 | 120 | 260 | 397.4 | 29490 | M72–M80 |

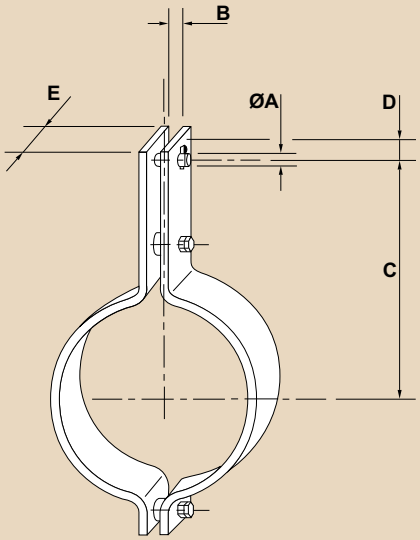
# PA2 PIPE CLAMP FOR UNLAGGED PIPE TWO BOLT TYPE




*Material: Carbon Steel*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity at 350C | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | kgf | |
| PA2-900-4 | 914.4 | 36.00 | 24 | 25 | 535 | 21 1/16 | 36 | 65 | 33.5 | 1630 | M12–M36 |
| PA2-900-5 | 914.4 | 36.00 | 30 | 29 | 545 | 21 7/16 | 45 | 110 | 57.9 | 2490 | M12–M36 |
| PA2-900-6 | 914.4 | 36.00 | 36 | 41 | 560 | 22 1/16 | 54 | 110 | 74.3 | 3760 | M20–M64 |
| PA2-900-7 | 914.4 | 36.00 | 42 | 45 | 575 | 22 5/8 | 63 | 150 | 124.1 | 5470 | M30–M64 |
| PA2-900-8 | 914.4 | 36.00 | 48 | 52 | 605 | 23 13/16 | 72 | 150 | 171.6 | 10910 | M42–M80 |
| PA2-900-9 | 914.4 | 36.00 | 56 | 58 | 610 | 24 | 84 | 150 | 176.9 | 10000 | M42–M80 |
| PA2-900-10 | 914.4 | 36.00 | 64 | 65 | 620 | 24 7/16 | 96 | 200 | 241.9 | 14560 | M42–M80 |
| PA2-900-11 | 914.4 | 36.00 | 72 | 69 | 645 | 25 3/8 | 108 | 200 | 313.2 | 22080 | M42–M80 |
| PA2-900-12 | 914.4 | 36.00 | 80 | 77 | 655 | 25 13/16 | 120 | 220 | 355.2 | 23470 | M72–M80 |
| PA2-900-13 | 914.4 | 36.00 | 80 | 85 | 650 | 25 9/16 | 120 | 260 | 413.4 | 28500 | M72–M80 |
| PA2-950-4 | 965.2 | 38.00 | 24 | 25 | 565 | 22 1/4 | 36 | 90 | 48.6 | 1830 | M12–M36 |
| PA2-950-5 | 965.2 | 38.00 | 30 | 29 | 570 | 22 7/16 | 45 | 110 | 60.7 | 2440 | M12–M36 |
| PA2-950-6 | 965.2 | 38.00 | 36 | 41 | 585 | 23 1/16 | 54 | 110 | 77.7 | 3660 | M20–M64 |
| PA2-950-7 | 965.2 | 38.00 | 42 | 45 | 605 | 23 13/16 | 63 | 150 | 130.4 | 5470 | M30–M64 |
| PA2-950-8 | 965.2 | 38.00 | 48 | 52 | 630 | 24 13/16 | 72 | 150 | 179.0 | 10910 | M42–M80 |
| PA2-950-9 | 965.2 | 38.00 | 56 | 58 | 635 | 25 | 84 | 150 | 184.3 | 10000 | M42–M80 |
| PA2-950-10 | 965.2 | 38.00 | 64 | 65 | 645 | 25 3/8 | 96 | 200 | 251.7 | 14130 | M42–M80 |
| PA2-950-11 | 965.2 | 38.00 | 72 | 69 | 675 | 26 9/16 | 108 | 200 | 327.0 | 20950 | M42–M80 |
| PA2-950-12 | 965.2 | 38.00 | 80 | 77 | 680 | 26 3/4 | 120 | 240 | 400.3 | 24800 | M72–M80 |
| PA2-950-13 | 965.2 | 38.00 | 80 | 85 | 680 | 26 3/4 | 120 | 280 | 462.9 | 29130 | M72–M80 |
| PA2-1000-4 | 1016.0 | 40.00 | 24 | 25 | 590 | 23 1/4 | 36 | 90 | 50.8 | 1810 | M12–M36 |
| PA2-1000-5 | 1016.0 | 40.00 | 30 | 29 | 595 | 23 7/16 | 45 | 110 | 63.4 | 2370 | M12–M36 |
| PA2-1000-6 | 1016.0 | 40.00 | 36 | 41 | 610 | 24 | 54 | 130 | 95.5 | 3810 | M20–M64 |
| PA2-1000-7 | 1016.0 | 40.00 | 42 | 45 | 630 | 24 13/16 | 63 | 150 | 135.9 | 5470 | M30–M64 |
| PA2-1000-8 | 1016.0 | 40.00 | 48 | 52 | 655 | 25 13/16 | 72 | 150 | 186.3 | 10910 | M42–M80 |
| PA2-1000-9 | 1016.0 | 40.00 | 56 | 58 | 665 | 26 3/16 | 84 | 150 | 192.6 | 10000 | M42–M80 |
| PA2-1000-10 | 1016.0 | 40.00 | 64 | 65 | 670 | 26 3/8 | 96 | 200 | 261.5 | 13690 | M42–M80 |
| PA2-1000-11 | 1016.0 | 40.00 | 72 | 69 | 700 | 27 9/16 | 108 | 200 | 339.1 | 20290 | M42–M80 |
| PA2-1000-12 | 1016.0 | 40.00 | 80 | 77 | 705 | 27 3/4 | 120 | 240 | 414.8 | 24010 | M72–M80 |
| PA2-1000-13 | 1016.0 | 40.00 | 80 | 85 | 705 | 27 3/4 | 120 | 280 | 479.9 | 28200 | M72–M80 |

# PA3 PIPE CLAMP THREE BOLT TYPE



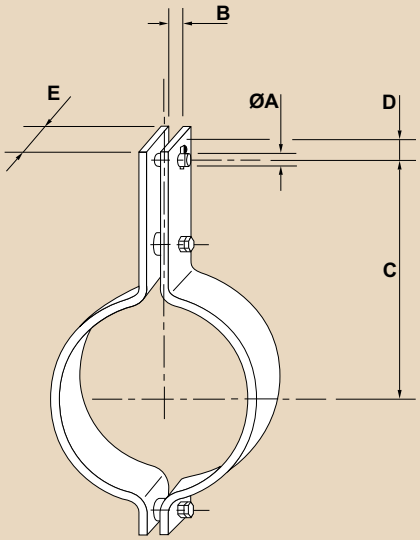

*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| **PA3-15-0-400** | 21.3 | 0.839 | 12 | 15 | 100 | 3 15/16 | 18 | 35 | 0.6 | 390 | 390 | | | | | | M8–M16 |
| PA3-15-0-490 | 21.3 | 0.839 | 12 | 15 | 110 | 4 5/16 | 18 | 40 | 0.8 | 390 | 390 | 390 | 390 | 390 | 390 | 340 | M8–M16 |
| PA3-15-0-530 | 21.3 | 0.839 | 12 | 15 | 110 | 4 5/16 | 18 | 40 | 0.8 | 390 | 390 | 390 | 390 | 390 | 390 | 340 | M8–M16 |
| PA3-15-0-560 | 21.3 | 0.839 | 12 | 15 | 110 | 4 5/16 | 18 | 40 | 0.8 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | M8–M16 |
| PA3-15-0-600 | 21.3 | 0.839 | 12 | 15 | 110 | 4 5/16 | 18 | 40 | 0.8 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | M8–M16 |
| **PA3-20-0-400** | 26.7 | 1.051 | 12 | 15 | 100 | 3 15/16 | 18 | 35 | 0.6 | 390 | 390 | | | | | | M8–M16 |
| PA3-20-0-490 | 26.7 | 1.051 | 12 | 15 | 110 | 4 5/16 | 18 | 40 | 0.8 | 390 | 390 | 390 | 390 | 390 | 390 | 340 | M8–M16 |
| PA3-20-0-530 | 26.7 | 1.051 | 12 | 15 | 110 | 4 5/16 | 18 | 40 | 0.8 | 390 | 390 | 390 | 390 | 390 | 390 | 340 | M8–M16 |
| PA3-20-0-560 | 26.7 | 1.051 | 12 | 15 | 110 | 4 5/16 | 18 | 40 | 0.8 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | M8–M16 |
| PA3-20-0-600 | 26.7 | 1.051 | 12 | 15 | 110 | 4 5/16 | 18 | 40 | 0.8 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | M8–M16 |
| **PA3-25-0-400** | 33.4 | 1.315 | 12 | 15 | 100 | 3 15/16 | 18 | 35 | 0.6 | 390 | 390 | | | | | | M8–M16 |
| PA3-25-0-490 | 33.4 | 1.315 | 12 | 15 | 120 | 4 3/4 | 18 | 40 | 0.9 | 390 | 390 | 390 | 390 | 390 | 380 | 300 | M8–M16 |
| PA3-25-0-530 | 33.4 | 1.315 | 12 | 15 | 120 | 4 3/4 | 18 | 40 | 0.9 | 390 | 390 | 390 | 390 | 390 | 380 | 300 | M8–M16 |
| PA3-25-0-560 | 33.4 | 1.315 | 12 | 15 | 120 | 4 3/4 | 18 | 40 | 0.9 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | M8–M16 |
| PA3-25-0-600 | 33.4 | 1.315 | 12 | 15 | 120 | 4 3/4 | 18 | 40 | 0.9 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | M8–M16 |
| **PA3-32-0-400** | 42.2 | 1.661 | 12 | 15 | 110 | 4 5/16 | 18 | 35 | 0.6 | 390 | 390 | | | | | | M8–M16 |
| PA3-32-0-490 | 42.2 | 1.661 | 12 | 15 | 120 | 4 3/4 | 18 | 40 | 0.9 | 390 | 390 | 390 | 390 | 390 | 300 | 240 | M8–M16 |
| PA3-32-0-530 | 42.2 | 1.661 | 12 | 15 | 120 | 4 3/4 | 18 | 40 | 0.9 | 390 | 390 | 390 | 390 | 390 | 300 | 240 | M8–M16 |
| PA3-32-0-560 | 42.2 | 1.661 | 12 | 15 | 120 | 4 3/4 | 18 | 40 | 0.9 | 390 | 390 | 390 | 390 | 390 | 390 | 320 | M8–M16 |
| PA3-32-0-600 | 42.2 | 1.661 | 12 | 15 | 120 | 4 3/4 | 18 | 40 | 0.9 | 390 | 390 | 390 | 390 | 390 | 390 | 320 | M8–M16 |
| **PA3-40-0-400** | 48.3 | 1.902 | 12 | 15 | 110 | 4 5/16 | 18 | 35 | 0.7 | 390 | 390 | | | | | | M8–M16 |
| PA3-40-0-490 | 48.3 | 1.902 | 12 | 15 | 120 | 4 3/4 | 18 | 40 | 0.9 | 390 | 390 | 390 | 390 | 350 | 250 | 210 | M8–M16 |
| PA3-40-0-530 | 48.3 | 1.902 | 12 | 15 | 120 | 4 3/4 | 18 | 40 | 0.9 | 390 | 390 | 390 | 390 | 350 | 250 | 210 | M8–M16 |
| PA3-40-0-560 | 48.3 | 1.902 | 12 | 15 | 120 | 4 3/4 | 18 | 40 | 0.9 | 390 | 390 | 390 | 390 | 390 | 360 | 270 | M8–M16 |
| PA3-40-0-600 | 48.3 | 1.902 | 12 | 15 | 120 | 4 3/4 | 18 | 40 | 0.9 | 390 | 390 | 390 | 390 | 390 | 360 | 270 | M8–M16 |
| **PA3-50-0-400** | 60.3 | 2.375 | 12 | 15 | 120 | 4 3/4 | 18 | 35 | 0.7 | 390 | 390 | | | | | | M8–M16 |
| PA3-50-1-400 | 60.3 | 2.375 | 16 | 17 | 120 | 4 3/4 | 24 | 40 | 1.0 | 800 | 740 | | | | | | M8–M16 |
| PA3-50-2-400 | 60.3 | 2.375 | 16 | 17 | 120 | 4 3/4 | 24 | 40 | 1.0 | 800 | 740 | | | | | | M8–M16 |
| PA3-50-0-490 | 60.3 | 2.375 | 12 | 15 | 130 | 5 1/8 | 18 | 40 | 1.0 | 390 | 390 | 390 | 390 | 300 | 220 | 170 | M8–M16 |
| PA3-50-1-490 | 60.3 | 2.375 | 16 | 17 | 130 | 5 1/8 | 24 | 40 | 1.0 | 800 | 800 | 730 | 510 | 310 | 220 | 180 | M8–M16 |
| PA3-50-2-490 | 60.3 | 2.375 | 16 | 17 | 130 | 5 1/8 | 24 | 40 | 1.0 | 800 | 800 | 730 | 510 | 310 | 220 | 180 | M8–M16 |
| PA3-50-0-530 | 60.3 | 2.375 | 12 | 15 | 130 | 5 1/8 | 18 | 40 | 1.0 | 390 | 390 | 390 | 390 | 300 | 220 | 170 | M8–M16 |
| PA3-50-1-530 | 60.3 | 2.375 | 16 | 17 | 130 | 5 1/8 | 24 | 40 | 1.0 | 800 | 800 | 730 | 510 | 310 | 220 | 180 | M8–M16 |
| PA3-50-2-530 | 60.3 | 2.375 | 16 | 17 | 130 | 5 1/8 | 24 | 50 | 2.1 | 800 | 800 | 800 | 800 | 800 | 800 | 640 | M8–M16 |
| PA3-50-0-560 | 60.3 | 2.375 | 12 | 15 | 130 | 5 1/8 | 18 | 40 | 1.0 | 390 | 390 | 390 | 390 | 380 | 300 | 230 | M8–M16 |
| PA3-50-1-560 | 60.3 | 2.375 | 16 | 17 | 130 | 5 1/8 | 24 | 40 | 1.0 | 800 | 800 | 740 | 550 | 390 | 310 | 240 | M8–M16 |
| PA3-50-2-560 | 60.3 | 2.375 | 16 | 17 | 130 | 5 1/8 | 24 | 50 | 2.1 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | M8–M16 |
| PA3-50-0-600 | 60.3 | 2.375 | 12 | 15 | 130 | 5 1/8 | 18 | 40 | 1.0 | 390 | 390 | 390 | 390 | 380 | 300 | 230 | M8–M16 |
| PA3-50-1-600 | 60.3 | 2.375 | 16 | 17 | 130 | 5 1/8 | 24 | 50 | 2.1 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | M8–M16 |
| PA3-50-2-600 | 60.3 | 2.375 | 16 | 17 | 130 | 5 1/8 | 24 | 50 | 2.1 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | M8–M16 |



Bold part numbers indicate a stocked item.

# PA3 PIPE CLAMP THREE BOLT TYPE

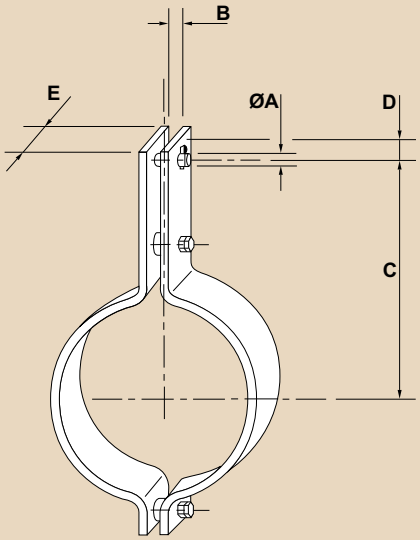



*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA3-65-0-400 | 73.0 | 2.875 | 12 | 15 | 130 | 5 1/8 | 18 | 35 | 0.8 | 370 | 340 | | | | | | M8–M16 |
| PA3-65-1-400 | 73.0 | 2.875 | 16 | 17 | 130 | 5 1/8 | 24 | 40 | 1.1 | 650 | 590 | | | | | | M8–M16 |
| **PA3-65-2-400** | 73.0 | 2.875 | 16 | 17 | 130 | 5 1/8 | 24 | 40 | 1.1 | 650 | 590 | | | | | | M8–M16 |
| PA3-65-0-490 | 73.0 | 2.875 | 12 | 15 | 140 | 5 1/2 | 18 | 40 | 1.1 | 390 | 390 | 390 | 390 | 270 | 190 | 150 | M8–M16 |
| PA3-65-1-490 | 73.0 | 2.875 | 16 | 17 | 140 | 5 1/2 | 24 | 40 | 1.2 | 670 | 670 | 590 | 440 | 270 | 200 | 150 | M8–M16 |
| PA3-65-2-490 | 73.0 | 2.875 | 16 | 17 | 140 | 5 1/2 | 24 | 40 | 1.2 | 670 | 670 | 590 | 440 | 270 | 200 | 150 | M8–M16 |
| PA3-65-0-530 | 73.0 | 2.875 | 12 | 15 | 140 | 5 1/2 | 18 | 40 | 1.1 | 390 | 390 | 390 | 390 | 270 | 190 | 150 | M8–M16 |
| PA3-65-1-530 | 73.0 | 2.875 | 16 | 17 | 140 | 5 1/2 | 24 | 40 | 1.2 | 670 | 670 | 590 | 440 | 270 | 200 | 150 | M8–M16 |
| PA3-65-2-530 | 73.0 | 2.875 | 16 | 17 | 140 | 5 1/2 | 24 | 50 | 2.3 | 800 | 800 | 800 | 800 | 800 | 740 | 550 | M8–M16 |
| PA3-65-0-560 | 73.0 | 2.875 | 12 | 15 | 150 | 5 7/8 | 18 | 40 | 1.1 | 390 | 390 | 390 | 390 | 330 | 260 | 200 | M8–M16 |
| PA3-65-1-560 | 73.0 | 2.875 | 16 | 17 | 150 | 5 7/8 | 24 | 50 | 2.4 | 800 | 800 | 800 | 800 | 800 | 800 | 760 | M8–M16 |
| PA3-65-2-560 | 73.0 | 2.875 | 16 | 17 | 150 | 5 7/8 | 24 | 50 | 2.4 | 800 | 800 | 800 | 800 | 800 | 800 | 760 | M8–M16 |
| PA3-65-0-600 | 73.0 | 2.875 | 12 | 15 | 150 | 5 7/8 | 18 | 50 | 2.3 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | M8–M16 |
| PA3-65-1-600 | 73.0 | 2.875 | 16 | 17 | 150 | 5 7/8 | 24 | 50 | 2.4 | 800 | 800 | 800 | 800 | 800 | 800 | 760 | M8–M16 |
| PA3-65-2-600 | 73.0 | 2.875 | 16 | 17 | 150 | 5 7/8 | 24 | 50 | 2.4 | 800 | 800 | 800 | 800 | 800 | 800 | 760 | M8–M16 |
| PA3-80-0-400 | 88.9 | 3.5 | 12 | 15 | 150 | 5 7/8 | 18 | 35 | 0.9 | 340 | 310 | | | | | | M8–M16 |
| PA3-80-1-400 | 88.9 | 3.5 | 16 | 17 | 150 | 5 7/8 | 24 | 40 | 1.2 | 600 | 540 | | | | | | M8–M16 |
| **PA3-80-2-400** | 88.9 | 3.5 | 16 | 17 | 150 | 5 7/8 | 24 | 40 | 1.2 | 600 | 540 | | | | | | M8–M16 |
| PA3-80-0-490 | 88.9 | 3.5 | 12 | 15 | 150 | 5 7/8 | 18 | 40 | 1.2 | 390 | 390 | 390 | 380 | 230 | 160 | 130 | M8–M16 |
| PA3-80-1-490 | 88.9 | 3.5 | 16 | 17 | 150 | 5 7/8 | 24 | 40 | 1.2 | 620 | 620 | 540 | 380 | 230 | 170 | 130 | M8–M16 |
| PA3-80-2-490 | 88.9 | 3.5 | 16 | 17 | 150 | 5 7/8 | 24 | 40 | 1.2 | 620 | 620 | 540 | 380 | 230 | 170 | 130 | M8–M16 |
| PA3-80-0-530 | 88.9 | 3.5 | 12 | 15 | 150 | 5 7/8 | 18 | 40 | 1.2 | 390 | 390 | 390 | 380 | 230 | 160 | 130 | M8–M16 |
| PA3-80-1-530 | 88.9 | 3.5 | 16 | 17 | 150 | 5 7/8 | 24 | 40 | 1.2 | 620 | 620 | 540 | 380 | 230 | 170 | 130 | M8–M16 |
| PA3-80-2-530 | 88.9 | 3.5 | 16 | 17 | 150 | 5 7/8 | 24 | 50 | 2.5 | 800 | 800 | 800 | 800 | 800 | 570 | 440 | M8–M16 |
| PA3-80-0-560 | 88.9 | 3.5 | 12 | 15 | 160 | 6 5/16 | 18 | 40 | 1.2 | 390 | 390 | 390 | 390 | 290 | 230 | 170 | M8–M16 |
| PA3-80-1-560 | 88.9 | 3.5 | 16 | 17 | 160 | 6 5/16 | 24 | 50 | 2.6 | 800 | 800 | 800 | 800 | 800 | 770 | 600 | M8–M16 |
| PA3-80-2-560 | 88.9 | 3.5 | 16 | 17 | 160 | 6 5/16 | 24 | 50 | 2.6 | 800 | 800 | 800 | 800 | 800 | 770 | 600 | M8–M16 |
| PA3-80-0-600 | 88.9 | 3.5 | 12 | 15 | 160 | 6 5/16 | 18 | 50 | 2.5 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | M8–M16 |
| PA3-80-1-600 | 88.9 | 3.5 | 16 | 17 | 160 | 6 5/16 | 24 | 50 | 2.6 | 800 | 800 | 800 | 800 | 800 | 770 | 600 | M8–M16 |
| PA3-80-2-600 | 88.9 | 3.5 | 16 | 17 | 160 | 6 5/16 | 24 | 50 | 2.6 | 800 | 800 | 800 | 800 | 800 | 770 | 600 | M8–M16 |
| PA3-90-0-400 | 101.6 | 4 | 12 | 15 | 170 | 6 11/16 | 18 | 35 | 1.0 | 320 | 290 | | | | | | M8–M16 |
| PA3-90-1-400 | 101.6 | 4 | 16 | 17 | 170 | 6 11/16 | 24 | 40 | 1.4 | 490 | 450 | | | | | | M8–M16 |
| PA3-90-2-400 | 101.6 | 4 | 16 | 17 | 170 | 6 11/16 | 24 | 40 | 1.8 | 800 | 800 | | | | | | M8–M16 |
| PA3-90-0-490 | 101.6 | 4 | 12 | 15 | 180 | 7 1/16 | 18 | 40 | 1.3 | 390 | 390 | 390 | 310 | 180 | 130 | 110 | M8–M16 |
| PA3-90-1-490 | 101.6 | 4 | 16 | 17 | 180 | 7 1/16 | 24 | 40 | 1.4 | 510 | 510 | 440 | 310 | 190 | 140 | 110 | M8–M16 |
| PA3-90-2-490 | 101.6 | 4 | 16 | 17 | 180 | 7 1/16 | 24 | 50 | 2.8 | 800 | 800 | 800 | 800 | 730 | 530 | 410 | M8–M16 |
| PA3-90-0-530 | 101.6 | 4 | 12 | 15 | 180 | 7 1/16 | 18 | 40 | 1.3 | 390 | 390 | 390 | 310 | 180 | 130 | 110 | M8–M16 |
| PA3-90-1-530 | 101.6 | 4 | 16 | 17 | 180 | 7 1/16 | 24 | 50 | 2.8 | 800 | 800 | 800 | 800 | 730 | 530 | 410 | M8–M16 |
| PA3-90-2-530 | 101.6 | 4 | 16 | 17 | 180 | 7 1/16 | 24 | 50 | 2.8 | 800 | 800 | 800 | 800 | 730 | 530 | 410 | M8–M16 |
| PA3-90-0-560 | 101.6 | 4 | 12 | 15 | 180 | 7 1/16 | 18 | 40 | 1.3 | 390 | 390 | 390 | 330 | 230 | 190 | 140 | M8–M16 |
| PA3-90-1-560 | 101.6 | 4 | 16 | 17 | 180 | 7 1/16 | 24 | 50 | 2.8 | 800 | 800 | 800 | 800 | 800 | 720 | 550 | M8–M16 |
| PA3-90-2-560 | 101.6 | 4 | 16 | 17 | 180 | 7 1/16 | 24 | 50 | 2.8 | 800 | 800 | 800 | 800 | 800 | 720 | 550 | M8–M16 |
| PA3-90-0-600 | 101.6 | 4 | 12 | 15 | 180 | 7 1/16 | 18 | 50 | 2.7 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | M8–M16 |
| PA3-90-1-600 | 101.6 | 4 | 16 | 17 | 180 | 7 1/16 | 24 | 50 | 2.8 | 800 | 800 | 800 | 800 | 800 | 720 | 550 | M8–M16 |
| PA3-90-2-600 | 101.6 | 4 | 16 | 17 | 180 | 7 1/16 | 24 | 50 | 2.8 | 800 | 800 | 800 | 800 | 800 | 720 | 550 | M8–M16 |

Bold part numbers indicate a stocked item.

# PA3 PIPE CLAMP THREE BOLT TYPE



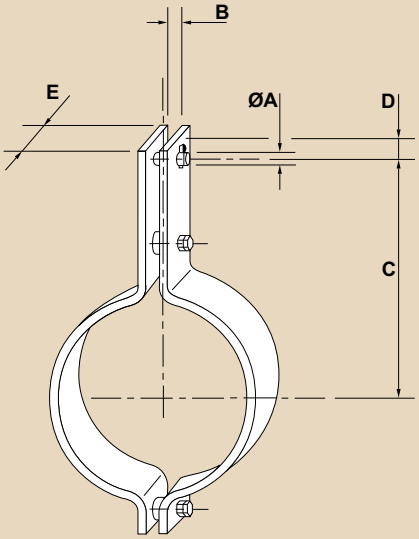

*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| **PA3-100-0-400** | 114.3 | 4.5 | 12 | 15 | 180 | 7 1/16 | 18 | 35 | 1.0 | 270 | 240 | | | | | | M8–M16 |
| PA3-100-1-400 | 114.3 | 4.5 | 16 | 17 | 180 | 7 1/16 | 24 | 40 | 1.5 | 470 | 430 | | | | | | M8–M16 |
| **PA3-100-2-400** | 114.3 | 4.5 | 16 | 17 | 180 | 7 1/16 | 24 | 40 | 1.9 | 800 | 740 | | | | | | M8–M16 |
| PA3-100-3-400 | 114.3 | 4.5 | 20 | 20 | 180 | 7 1/16 | 30 | 60 | 4.3 | 1170 | 1170 | | | | | | M12–M24 |
| PA3-100-0-490 | 114.3 | 4.5 | 12 | 15 | 190 | 7 1/2 | 18 | 40 | 1.4 | 390 | 390 | 390 | 300 | 180 | 130 | 100 | M8–M16 |
| PA3-100-1-490 | 114.3 | 4.5 | 16 | 17 | 190 | 7 1/2 | 24 | 40 | 1.5 | 490 | 490 | 430 | 300 | 180 | 130 | 110 | M8–M16 |
| PA3-100-2-490 | 114.3 | 4.5 | 16 | 17 | 190 | 7 1/2 | 24 | 50 | 3.0 | 800 | 800 | 800 | 800 | 650 | 460 | 350 | M8–M16 |
| PA3-100-3-490 | 114.3 | 4.5 | 20 | 20 | 190 | 7 1/2 | 30 | 50 | 3.1 | 1320 | 1320 | 1320 | 1170 | 740 | 530 | 400 | M12–M24 |
| PA3-100-0-530 | 114.3 | 4.5 | 12 | 15 | 190 | 7 1/2 | 18 | 40 | 1.4 | 390 | 390 | 390 | 300 | 180 | 130 | 100 | M8–M16 |
| PA3-100-1-530 | 114.3 | 4.5 | 16 | 17 | 190 | 7 1/2 | 24 | 50 | 3.0 | 800 | 800 | 800 | 800 | 650 | 460 | 350 | M8–M16 |
| PA3-100-2-530 | 114.3 | 4.5 | 16 | 17 | 190 | 7 1/2 | 24 | 50 | 3.0 | 800 | 800 | 800 | 800 | 650 | 460 | 350 | M8–M16 |
| PA3-100-3-530 | 114.3 | 4.5 | 20 | 20 | 190 | 7 1/2 | 30 | 50 | 3.1 | 1320 | 1320 | 1320 | 1170 | 740 | 530 | 400 | M12–M24 |
| PA3-100-0-560 | 114.3 | 4.5 | 12 | 15 | 190 | 7 1/2 | 18 | 50 | 2.9 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | M8–M16 |
| PA3-100-1-560 | 114.3 | 4.5 | 16 | 17 | 190 | 7 1/2 | 24 | 50 | 3.0 | 800 | 800 | 800 | 800 | 790 | 630 | 490 | M8–M16 |
| PA3-100-2-560 | 114.3 | 4.5 | 16 | 17 | 190 | 7 1/2 | 24 | 50 | 3.0 | 800 | 800 | 800 | 800 | 790 | 630 | 490 | M8–M16 |
| PA3-100-3-560 | 114.3 | 4.5 | 20 | 20 | 190 | 7 1/2 | 30 | 60 | 3.7 | 1320 | 1320 | 1320 | 1320 | 1070 | 850 | 660 | M12–M24 |
| PA3-100-0-600 | 114.3 | 4.5 | 12 | 15 | 190 | 7 1/2 | 18 | 50 | 2.9 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | M8–M16 |
| PA3-100-1-600 | 114.3 | 4.5 | 16 | 17 | 190 | 7 1/2 | 24 | 50 | 3.0 | 800 | 800 | 800 | 800 | 790 | 630 | 490 | M8–M16 |
| PA3-100-2-600 | 114.3 | 4.5 | 16 | 17 | 190 | 7 1/2 | 24 | 60 | 3.6 | 800 | 800 | 800 | 800 | 800 | 750 | 580 | M8–M16 |
| PA3-100-3-600 | 114.3 | 4.5 | 20 | 20 | 190 | 7 1/2 | 30 | 70 | 5.1 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1090 | M12–M24 |
| PA3-125-0-400 | 141.3 | 5.5625 | 12 | 15 | 190 | 7 1/2 | 18 | 35 | 1.1 | 260 | 230 | | | | | | M8–M16 |
| PA3-125-1-400 | 141.3 | 5.5625 | 16 | 17 | 190 | 7 1/2 | 24 | 40 | 2.1 | 680 | 610 | | | | | | M8–M16 |
| PA3-125-2-400 | 141.3 | 5.5625 | 16 | 17 | 190 | 7 1/2 | 24 | 40 | 2.1 | 680 | 610 | | | | | | M8–M16 |
| PA3-125-3-400 | 141.3 | 5.5625 | 20 | 20 | 190 | 7 1/2 | 30 | 60 | 4.7 | 1030 | 1030 | | | | | | M12–M24 |
| PA3-125-0-490 | 141.3 | 5.5625 | 12 | 15 | 200 | 7 7/8 | 18 | 40 | 1.6 | 390 | 390 | 350 | 240 | 150 | 110 | 90 | M8–M16 |
| PA3-125-1-490 | 141.3 | 5.5625 | 16 | 17 | 200 | 7 7/8 | 24 | 50 | 3.3 | 800 | 800 | 800 | 800 | 590 | 420 | 330 | M8–M16 |
| PA3-125-2-490 | 141.3 | 5.5625 | 16 | 17 | 200 | 7 7/8 | 24 | 50 | 3.3 | 800 | 800 | 800 | 800 | 590 | 420 | 330 | M8–M16 |
| PA3-125-3-490 | 141.3 | 5.5625 | 20 | 20 | 200 | 7 7/8 | 30 | 50 | 3.4 | 1320 | 1320 | 1310 | 960 | 600 | 430 | 330 | M12–M24 |
| PA3-125-0-530 | 141.3 | 5.5625 | 12 | 15 | 200 | 7 7/8 | 18 | 40 | 1.6 | 390 | 390 | 350 | 240 | 150 | 110 | 90 | M8–M16 |
| PA3-125-1-530 | 141.3 | 5.5625 | 16 | 17 | 200 | 7 7/8 | 24 | 50 | 3.3 | 800 | 800 | 800 | 800 | 590 | 420 | 330 | M8–M16 |
| PA3-125-2-530 | 141.3 | 5.5625 | 16 | 17 | 200 | 7 7/8 | 24 | 50 | 3.3 | 800 | 800 | 800 | 800 | 590 | 420 | 330 | M8–M16 |
| PA3-125-3-530 | 141.3 | 5.5625 | 20 | 20 | 200 | 7 7/8 | 30 | 60 | 4.0 | 1320 | 1320 | 1320 | 1160 | 720 | 520 | 400 | M12–M24 |
| PA3-125-0-560 | 141.3 | 5.5625 | 12 | 15 | 210 | 8 1/4 | 18 | 50 | 3.3 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | M8–M16 |
| PA3-125-1-560 | 141.3 | 5.5625 | 16 | 17 | 210 | 8 1/4 | 24 | 50 | 3.4 | 800 | 800 | 800 | 800 | 720 | 580 | 450 | M8–M16 |
| PA3-125-2-560 | 141.3 | 5.5625 | 16 | 17 | 210 | 8 1/4 | 24 | 50 | 3.4 | 800 | 800 | 800 | 800 | 720 | 580 | 450 | M8–M16 |
| PA3-125-3-560 | 141.3 | 5.5625 | 20 | 20 | 210 | 8 1/4 | 30 | 70 | 5.7 | 1320 | 1320 | 1320 | 1320 | 1320 | 1160 | 900 | M12–M24 |
| PA3-125-0-600 | 141.3 | 5.5625 | 12 | 15 | 210 | 8 1/4 | 18 | 50 | 3.3 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | M8–M16 |
| PA3-125-1-600 | 141.3 | 5.5625 | 16 | 17 | 210 | 8 1/4 | 24 | 50 | 3.4 | 800 | 800 | 800 | 800 | 720 | 580 | 450 | M8–M16 |
| PA3-125-2-600 | 141.3 | 5.5625 | 16 | 17 | 210 | 8 1/4 | 24 | 60 | 4.0 | 800 | 800 | 800 | 800 | 800 | 690 | 530 | M8–M16 |
| PA3-125-3-600 | 141.3 | 5.5625 | 20 | 20 | 210 | 8 1/4 | 30 | 80 | 6.5 | 1320 | 1320 | 1320 | 1320 | 1320 | 1270 | 1030 | M12–M24 |



Bold part numbers indicate a stocked item.

# PA3 PIPE CLAMP THREE BOLT TYPE

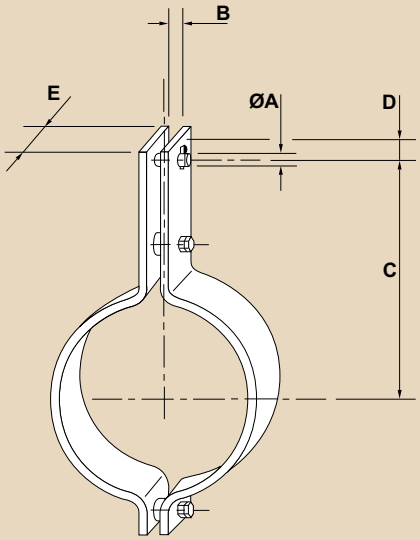



*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| **PA3-150-0-400** | 168.3 | 6.625 | 12 | 15 | 210 | 8 1/4 | 18 | 40 | 1.7 | 340 | 300 | | | | | | M8–M16 |
| PA3-150-1-400 | 168.3 | 6.625 | 16 | 17 | 210 | 8 1/4 | 24 | 40 | 2.4 | 590 | 530 | | | | | | M8–M16 |
| **PA3-150-2-400** | 168.3 | 6.625 | 16 | 17 | 210 | 8 1/4 | 24 | 40 | 2.4 | 590 | 530 | | | | | | M8–M16 |
| PA3-150-3-400 | 168.3 | 6.625 | 20 | 20 | 210 | 8 1/4 | 30 | 60 | 5.5 | 1320 | 1320 | | | | | | M12–M24 |
| PA3-150-4-400 | 168.3 | 6.625 | 24 | 25 | 210 | 8 1/4 | 36 | 60 | 5.6 | 1830 | 1790 | | | | | | M12–M36 |
| PA3-150-0-490 | 168.3 | 6.625 | 12 | 15 | 220 | 8 11/16 | 18 | 40 | 1.8 | 350 | 350 | 300 | 220 | 130 | 90 | 80 | M8–M16 |
| PA3-150-1-490 | 168.3 | 6.625 | 16 | 17 | 220 | 8 11/16 | 24 | 50 | 3.7 | 800 | 800 | 800 | 800 | 530 | 380 | 290 | M8–M16 |
| PA3-150-2-490 | 168.3 | 6.625 | 16 | 17 | 220 | 8 11/16 | 24 | 50 | 3.7 | 800 | 800 | 800 | 800 | 530 | 380 | 290 | M8–M16 |
| PA3-150-3-490 | 168.3 | 6.625 | 20 | 20 | 220 | 8 11/16 | 30 | 50 | 3.8 | 1300 | 1300 | 1150 | 850 | 530 | 380 | 290 | M12–M24 |
| PA3-150-4-490 | 168.3 | 6.625 | 24 | 25 | 220 | 8 11/16 | 36 | 70 | 6.4 | 1590 | 1590 | 1590 | 1540 | 1090 | 780 | 580 | M12–M36 |
| PA3-150-0-530 | 168.3 | 6.625 | 12 | 15 | 220 | 8 11/16 | 18 | 50 | 3.6 | 390 | 390 | 390 | 390 | 390 | 370 | 280 | M8–M16 |
| PA3-150-1-530 | 168.3 | 6.625 | 16 | 17 | 220 | 8 11/16 | 24 | 50 | 3.7 | 800 | 800 | 800 | 800 | 530 | 380 | 290 | M8–M16 |
| PA3-150-2-530 | 168.3 | 6.625 | 16 | 17 | 220 | 8 11/16 | 24 | 50 | 3.7 | 800 | 800 | 800 | 800 | 530 | 380 | 290 | M8–M16 |
| PA3-150-3-530 | 168.3 | 6.625 | 20 | 20 | 220 | 8 11/16 | 30 | 60 | 4.5 | 1320 | 1320 | 1320 | 1020 | 640 | 460 | 350 | M12–M24 |
| PA3-150-4-530 | 168.3 | 6.625 | 24 | 25 | 220 | 8 11/16 | 36 | 80 | 7.5 | 1830 | 1830 | 1830 | 1800 | 1140 | 810 | 610 | M12–M36 |
| PA3-150-0-560 | 168.3 | 6.625 | 12 | 15 | 240 | 9 7/16 | 18 | 50 | 3.8 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | M8–M16 |
| PA3-150-1-560 | 168.3 | 6.625 | 16 | 17 | 240 | 9 7/16 | 24 | 50 | 3.8 | 800 | 800 | 800 | 800 | 640 | 510 | 390 | M8–M16 |
| PA3-150-2-560 | 168.3 | 6.625 | 16 | 17 | 240 | 9 7/16 | 24 | 50 | 3.8 | 800 | 800 | 800 | 800 | 640 | 510 | 390 | M8–M16 |
| PA3-150-3-560 | 168.3 | 6.625 | 20 | 20 | 240 | 9 7/16 | 30 | 70 | 6.5 | 1320 | 1320 | 1320 | 1320 | 1280 | 1020 | 790 | M12–M24 |
| PA3-150-4-560 | 168.3 | 6.625 | 24 | 25 | 240 | 9 7/16 | 36 | 80 | 9.7 | 1830 | 1830 | 1830 | 1830 | 1830 | 1750 | 1370 | M12–M36 |
| PA3-150-0-600 | 168.3 | 6.625 | 12 | 15 | 240 | 9 7/16 | 18 | 50 | 3.8 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | M8–M16 |
| PA3-150-1-600 | 168.3 | 6.625 | 16 | 17 | 240 | 9 7/16 | 24 | 50 | 3.8 | 800 | 800 | 800 | 800 | 640 | 510 | 390 | M8–M16 |
| PA3-150-2-600 | 168.3 | 6.625 | 16 | 17 | 240 | 9 7/16 | 24 | 70 | 6.4 | 800 | 800 | 800 | 800 | 800 | 800 | 780 | M8–M16 |
| PA3-150-3-600 | 168.3 | 6.625 | 20 | 20 | 240 | 9 7/16 | 30 | 80 | 9.2 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1150 | M12–M24 |
| PA3-150-4-600 | 168.3 | 6.625 | 24 | 25 | 240 | 9 7/16 | 36 | 100 | 12.0 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1710 | M12–M36 |
| PA3-175-0-400 | 193.7 | 7.625 | 12 | 15 | 250 | 9 13/16 | 18 | 40 | 2.0 | 330 | 300 | | | | | | M8–M16 |
| PA3-175-1-400 | 193.7 | 7.625 | 16 | 17 | 250 | 9 13/16 | 24 | 40 | 2.7 | 570 | 520 | | | | | | M8–M16 |
| PA3-175-2-400 | 193.7 | 7.625 | 16 | 17 | 250 | 9 13/16 | 24 | 45 | 3.7 | 770 | 770 | | | | | | M8–M16 |
| PA3-175-3-400 | 193.7 | 7.625 | 20 | 20 | 250 | 9 13/16 | 30 | 60 | 6.2 | 1320 | 1320 | | | | | | M12–M24 |
| PA3-175-4-400 | 193.7 | 7.625 | 24 | 25 | 250 | 9 13/16 | 36 | 60 | 6.3 | 1640 | 1640 | | | | | | M12–M36 |
| PA3-175-5-400 | 193.7 | 7.625 | 30 | 29 | 250 | 9 13/16 | 45 | 90 | 16.3 | 3050 | 3050 | | | | | | M12–M36 |
| PA3-175-0-490 | 193.7 | 7.625 | 12 | 15 | 260 | 10 1/4 | 18 | 40 | 2.0 | 340 | 340 | 300 | 210 | 130 | 90 | 70 | M8–M16 |
| PA3-175-1-490 | 193.7 | 7.625 | 16 | 17 | 260 | 10 1/4 | 24 | 50 | 4.2 | 800 | 800 | 800 | 740 | 460 | 330 | 250 | M8–M16 |
| PA3-175-2-490 | 193.7 | 7.625 | 16 | 17 | 260 | 10 1/4 | 24 | 50 | 4.2 | 800 | 800 | 800 | 740 | 460 | 330 | 250 | M8–M16 |
| PA3-175-3-490 | 193.7 | 7.625 | 20 | 20 | 260 | 10 1/4 | 30 | 60 | 5.1 | 1320 | 1320 | 1200 | 900 | 560 | 400 | 310 | M12–M24 |
| PA3-175-4-490 | 193.7 | 7.625 | 24 | 25 | 260 | 10 1/4 | 36 | 70 | 7.4 | 1830 | 1830 | 1830 | 1520 | 970 | 690 | 510 | M12–M36 |
| PA3-175-5-490 | 193.7 | 7.625 | 30 | 29 | 260 | 10 1/4 | 45 | 80 | 8.7 | 2590 | 2590 | 2320 | 1760 | 1120 | 800 | 590 | M12–M36 |
| PA3-175-0-530 | 193.7 | 7.625 | 12 | 15 | 260 | 10 1/4 | 18 | 50 | 4.1 | 390 | 390 | 390 | 390 | 390 | 330 | 250 | M8–M16 |
| PA3-175-1-530 | 193.7 | 7.625 | 16 | 17 | 260 | 10 1/4 | 24 | 50 | 4.2 | 800 | 800 | 800 | 740 | 460 | 330 | 250 | M8–M16 |
| PA3-175-2-530 | 193.7 | 7.625 | 16 | 17 | 260 | 10 1/4 | 24 | 50 | 4.2 | 800 | 800 | 800 | 740 | 460 | 330 | 250 | M8–M16 |
| PA3-175-3-530 | 193.7 | 7.625 | 20 | 20 | 260 | 10 1/4 | 30 | 70 | 7.2 | 1320 | 1320 | 1320 | 1320 | 950 | 680 | 500 | M12–M24 |
| PA3-175-4-530 | 193.7 | 7.625 | 24 | 25 | 260 | 10 1/4 | 36 | 80 | 8.4 | 1830 | 1830 | 1830 | 1730 | 1110 | 790 | 590 | M12–M36 |
| PA3-175-5-530 | 193.7 | 7.625 | 30 | 29 | 260 | 10 1/4 | 45 | 80 | 10.8 | 3000 | 3000 | 3000 | 2830 | 1850 | 1300 | 940 | M12–M36 |
| PA3-175-0-560 | 193.7 | 7.625 | 12 | 15 | 260 | 10 1/4 | 18 | 50 | 4.1 | 390 | 390 | 390 | 390 | 390 | 390 | 340 | M8–M16 |
| PA3-175-1-560 | 193.7 | 7.625 | 16 | 17 | 260 | 10 1/4 | 24 | 50 | 4.2 | 800 | 800 | 800 | 770 | 560 | 450 | 350 | M8–M16 |
| PA3-175-2-560 | 193.7 | 7.625 | 16 | 17 | 260 | 10 1/4 | 24 | 50 | 4.2 | 800 | 800 | 800 | 770 | 560 | 450 | 350 | M8–M16 |
| PA3-175-3-560 | 193.7 | 7.625 | 20 | 20 | 260 | 10 1/4 | 30 | 70 | 7.2 | 1320 | 1320 | 1320 | 1320 | 1130 | 900 | 700 | M12–M24 |
| PA3-175-4-560 | 193.7 | 7.625 | 24 | 25 | 260 | 10 1/4 | 36 | 80 | 10.5 | 1830 | 1830 | 1830 | 1830 | 1830 | 1680 | 1320 | M12–M36 |
| PA3-175-5-560 | 193.7 | 7.625 | 30 | 29 | 260 | 10 1/4 | 45 | 100 | 13.4 | 3000 | 3000 | 3000 | 3000 | 2690 | 2130 | 1670 | M12–M36 |
| PA3-175-0-600 | 193.7 | 7.625 | 12 | 15 | 260 | 10 1/4 | 18 | 50 | 4.1 | 390 | 390 | 390 | 390 | 390 | 390 | 340 | M8–M16 |
| PA3-175-1-600 | 193.7 | 7.625 | 16 | 17 | 260 | 10 1/4 | 24 | 60 | 5.0 | 800 | 800 | 800 | 800 | 670 | 540 | 420 | M8–M16 |
| PA3-175-2-600 | 193.7 | 7.625 | 16 | 17 | 260 | 10 1/4 | 24 | 70 | 7.0 | 800 | 800 | 800 | 800 | 800 | 800 | 690 | M8–M16 |
| PA3-175-3-600 | 193.7 | 7.625 | 20 | 20 | 260 | 10 1/4 | 30 | 80 | 10.2 | 1320 | 1320 | 1320 | 1320 | 1320 | 1280 | 1110 | M12–M24 |
| PA3-175-4-600 | 193.7 | 7.625 | 24 | 25 | 260 | 10 1/4 | 36 | 100 | 13.0 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1650 | M12–M36 |
| PA3-175-5-600 | 193.7 | 7.625 | 30 | 29 | 260 | 10 1/4 | 45 | 100 | 17.9 | 3050 | 3050 | 3050 | 3050 | 3050 | 3050 | 2880 | M12–M36 |

Bold part numbers indicate a stocked item.

# PA3 PIPE CLAMP THREE BOLT TYPE



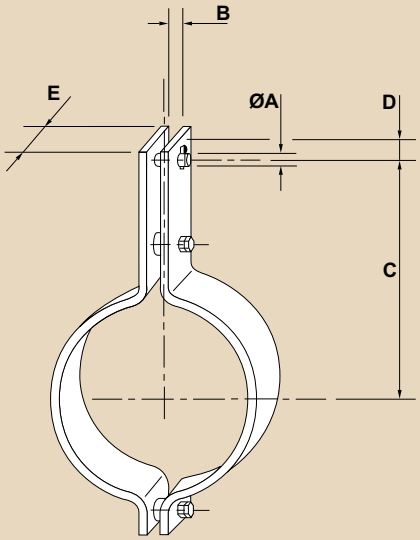

*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA3-200-0-400 | 219.1 | 8.625 | 12 | 15 | 280 | 11 | 18 | 40 | 2.2 | 290 | 260 | | | | | | M8–M16 |
| **PA3-200-1-400** | 219.1 | 8.625 | 16 | 17 | 280 | 11 | 24 | 40 | 3.0 | 510 | 460 | | | | | | M8–M16 |
| PA3-200-2-400 | 219.1 | 8.625 | 16 | 17 | 280 | 11 | 24 | 45 | 4.2 | 730 | 730 | | | | | | M8–M16 |
| **PA3-200-3-400** | 219.1 | 8.625 | 20 | 20 | 280 | 11 | 30 | 60 | 6.9 | 1320 | 1320 | | | | | | M12–M24 |
| PA3-200-4-400 | 219.1 | 8.625 | 24 | 25 | 280 | 11 | 36 | 65 | 12.8 | 1830 | 1830 | | | | | | M12–M36 |
| PA3-200-5-400 | 219.1 | 8.625 | 30 | 29 | 280 | 11 | 45 | 90 | 17.9 | 3050 | 3050 | | | | | | M12–M36 |
| PA3-200-6-400 | 219.1 | 8.625 | 36 | 41 | 280 | 11 | 54 | 90 | 18.8 | 3810 | 3810 | | | | | | M20–M64 |
| PA3-200-0-490 | 219.1 | 8.625 | 12 | 15 | 290 | 11 7/16 | 18 | 40 | 2.2 | 300 | 300 | 260 | 190 | 120 | 80 | 70 | M8–M16 |
| PA3-200-1-490 | 219.1 | 8.625 | 16 | 17 | 290 | 11 7/16 | 24 | 50 | 4.7 | 800 | 800 | 800 | 660 | 420 | 300 | 220 | M8–M16 |
| PA3-200-2-490 | 219.1 | 8.625 | 16 | 17 | 290 | 11 7/16 | 24 | 50 | 4.7 | 800 | 800 | 800 | 660 | 420 | 300 | 220 | M8–M16 |
| PA3-200-3-490 | 219.1 | 8.625 | 20 | 20 | 290 | 11 7/16 | 30 | 60 | 5.7 | 1200 | 1200 | 1060 | 800 | 500 | 360 | 270 | M12–M24 |
| PA3-200-4-490 | 219.1 | 8.625 | 24 | 25 | 290 | 11 7/16 | 36 | 70 | 8.2 | 1830 | 1830 | 1780 | 1360 | 870 | 620 | 460 | M12–M36 |
| PA3-200-5-490 | 219.1 | 8.625 | 30 | 29 | 290 | 11 7/16 | 45 | 80 | 11.9 | 2800 | 2800 | 2800 | 2540 | 1660 | 1170 | 850 | M12–M36 |
| PA3-200-6-490 | 219.1 | 8.625 | 36 | 41 | 290 | 11 7/16 | 54 | 100 | 15.5 | 3810 | 3810 | 3810 | 3280 | 2150 | 1510 | 1090 | M20–M64 |
| PA3-200-0-530 | 219.1 | 8.625 | 12 | 15 | 290 | 11 7/16 | 18 | 50 | 4.6 | 390 | 390 | 390 | 390 | 390 | 290 | 220 | M8–M16 |
| PA3-200-1-530 | 219.1 | 8.625 | 16 | 17 | 290 | 11 7/16 | 24 | 50 | 4.7 | 800 | 800 | 800 | 660 | 420 | 300 | 220 | M8–M16 |
| PA3-200-2-530 | 219.1 | 8.625 | 16 | 17 | 290 | 11 7/16 | 24 | 50 | 4.7 | 800 | 800 | 800 | 660 | 420 | 300 | 220 | M8–M16 |
| PA3-200-3-530 | 219.1 | 8.625 | 20 | 20 | 290 | 11 7/16 | 30 | 70 | 7.9 | 1240 | 1240 | 1240 | 1200 | 950 | 670 | 500 | M12–M24 |
| PA3-200-4-530 | 219.1 | 8.625 | 24 | 25 | 290 | 11 7/16 | 36 | 80 | 11.6 | 1830 | 1830 | 1830 | 1830 | 1640 | 1160 | 840 | M12–M36 |
| PA3-200-5-530 | 219.1 | 8.625 | 30 | 29 | 290 | 11 7/16 | 45 | 80 | 11.9 | 2800 | 2800 | 2800 | 2540 | 1660 | 1170 | 850 | M12–M36 |
| PA3-200-6-530 | 219.1 | 8.625 | 36 | 41 | 290 | 11 7/16 | 54 | 100 | 20.5 | 3810 | 3810 | 3810 | 3810 | 3810 | 2780 | 1990 | M20–M64 |
| PA3-200-0-560 | 219.1 | 8.625 | 12 | 15 | 290 | 11 7/16 | 18 | 50 | 4.6 | 390 | 390 | 390 | 390 | 390 | 390 | 310 | M8–M16 |
| PA3-200-1-560 | 219.1 | 8.625 | 16 | 17 | 290 | 11 7/16 | 24 | 50 | 4.7 | 800 | 800 | 800 | 690 | 500 | 400 | 310 | M8–M16 |
| PA3-200-2-560 | 219.1 | 8.625 | 16 | 17 | 290 | 11 7/16 | 24 | 60 | 5.6 | 800 | 800 | 800 | 800 | 600 | 480 | 370 | M8–M16 |
| PA3-200-3-560 | 219.1 | 8.625 | 20 | 20 | 290 | 11 7/16 | 30 | 70 | 7.9 | 1240 | 1240 | 1240 | 1200 | 1080 | 890 | 700 | M12–M24 |
| PA3-200-4-560 | 219.1 | 8.625 | 24 | 25 | 290 | 11 7/16 | 36 | 80 | 11.6 | 1830 | 1830 | 1830 | 1830 | 1830 | 1510 | 1190 | M12–M36 |
| PA3-200-5-560 | 219.1 | 8.625 | 30 | 29 | 290 | 11 7/16 | 45 | 100 | 14.8 | 2800 | 2800 | 2800 | 2800 | 2410 | 1910 | 1500 | M12–M36 |
| PA3-200-6-560 | 219.1 | 8.625 | 36 | 41 | 290 | 11 7/16 | 54 | 100 | 20.5 | 3810 | 3810 | 3810 | 3810 | 3810 | 3550 | 2820 | M20–M64 |
| PA3-200-0-600 | 219.1 | 8.625 | 12 | 15 | 290 | 11 7/16 | 18 | 50 | 4.6 | 390 | 390 | 390 | 390 | 390 | 390 | 310 | M8–M16 |
| PA3-200-1-600 | 219.1 | 8.625 | 16 | 17 | 290 | 11 7/16 | 24 | 60 | 5.6 | 800 | 800 | 800 | 800 | 600 | 480 | 370 | M8–M16 |
| PA3-200-2-600 | 219.1 | 8.625 | 16 | 17 | 290 | 11 7/16 | 24 | 70 | 7.8 | 800 | 800 | 800 | 800 | 800 | 800 | 620 | M8–M16 |
| PA3-200-3-600 | 219.1 | 8.625 | 20 | 20 | 290 | 11 7/16 | 30 | 80 | 11.3 | 1320 | 1320 | 1320 | 1320 | 1320 | 1230 | 1080 | M12–M24 |
| PA3-200-4-600 | 219.1 | 8.625 | 24 | 25 | 290 | 11 7/16 | 36 | 100 | 19.3 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | M12–M36 |
| PA3-200-5-600 | 219.1 | 8.625 | 30 | 29 | 290 | 11 7/16 | 45 | 100 | 19.7 | 3050 | 3050 | 3050 | 3050 | 3050 | 2960 | 2730 | M12–M36 |
| PA3-200-6-600 | 219.1 | 8.625 | 36 | 41 | 290 | 11 7/16 | 54 | 90 | 23.1 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | M20–M64 |



Bold part numbers indicate a stocked item.

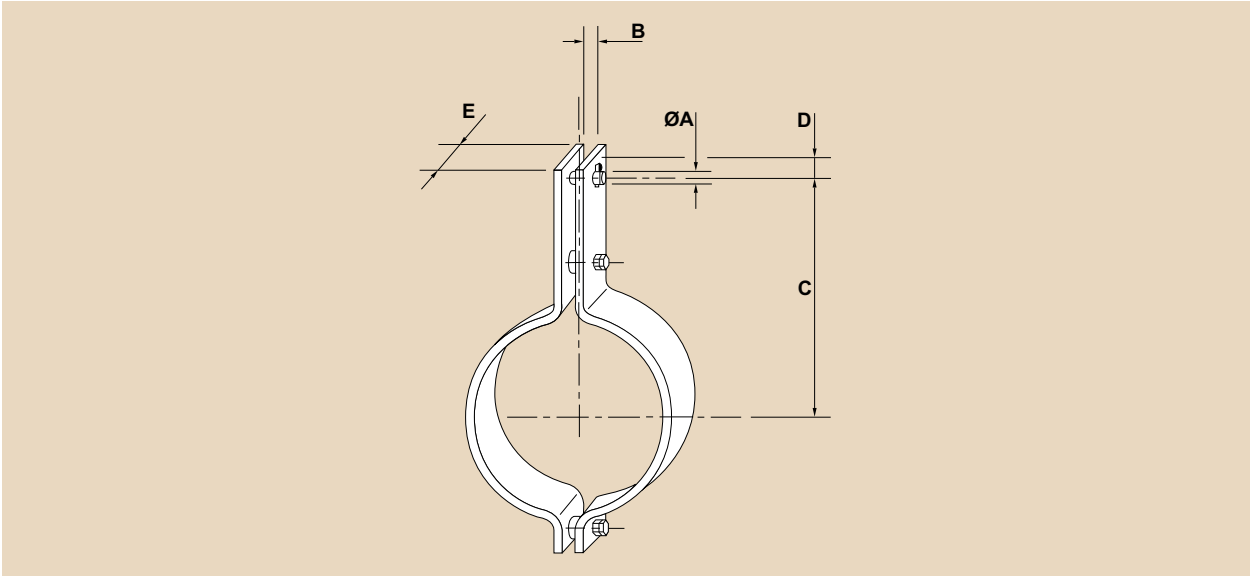
# PA3 PIPE CLAMP THREE BOLT TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA3-225-0-400 | 244.5 | 9.625 | 12 | 15 | 290 | 11 7/16 | 18 | 40 | 2.3 | 290 | 260 | | | | | | M8–M16 |
| PA3-225-1-400 | 244.5 | 9.625 | 16 | 17 | 290 | 11 7/16 | 24 | 40 | 3.1 | 500 | 450 | | | | | | M8–M16 |
| PA3-225-2-400 | 244.5 | 9.625 | 16 | 17 | 290 | 11 7/16 | 24 | 45 | 4.4 | 660 | 660 | | | | | | M8–M16 |
| PA3-225-3-400 | 244.5 | 9.625 | 20 | 20 | 290 | 11 7/16 | 30 | 60 | 7.3 | 1320 | 1320 | | | | | | M12–M24 |
| PA3-225-4-400 | 244.5 | 9.625 | 24 | 25 | 290 | 11 7/16 | 36 | 65 | 13.2 | 1730 | 1730 | | | | | | M12–M36 |
| PA3-225-5-400 | 244.5 | 9.625 | 30 | 29 | 290 | 11 7/16 | 45 | 90 | 18.8 | 2770 | 2770 | | | | | | M12–M36 |
| PA3-225-6-400 | 244.5 | 9.625 | 36 | 41 | 290 | 11 7/16 | 54 | 90 | 19.8 | 3810 | 3810 | | | | | | M20–M64 |
| PA3-225-0-490 | 244.5 | 9.625 | 12 | 15 | 300 | 11 13/16 | 18 | 40 | 2.4 | 300 | 300 | 260 | 180 | 110 | 80 | 60 | M8–M16 |
| PA3-225-1-490 | 244.5 | 9.625 | 16 | 17 | 300 | 11 13/16 | 24 | 50 | 4.9 | 800 | 800 | 800 | 630 | 400 | 280 | 220 | M8–M16 |
| PA3-225-2-490 | 244.5 | 9.625 | 16 | 17 | 300 | 11 13/16 | 24 | 50 | 4.9 | 800 | 800 | 800 | 630 | 400 | 280 | 220 | M8–M16 |
| PA3-225-3-490 | 244.5 | 9.625 | 20 | 20 | 300 | 11 13/16 | 30 | 60 | 6.0 | 1130 | 1130 | 1040 | 770 | 480 | 340 | 260 | M12–M24 |
| PA3-225-4-490 | 244.5 | 9.625 | 24 | 25 | 300 | 11 13/16 | 36 | 80 | 9.9 | 1830 | 1830 | 1790 | 1350 | 860 | 610 | 460 | M12–M36 |
| PA3-225-5-490 | 244.5 | 9.625 | 30 | 29 | 300 | 11 13/16 | 45 | 80 | 12.7 | 2690 | 2690 | 2690 | 2220 | 1440 | 1020 | 740 | M12–M36 |
| PA3-225-6-490 | 244.5 | 9.625 | 36 | 41 | 300 | 11 13/16 | 54 | 100 | 16.4 | 3810 | 3810 | 3700 | 2870 | 1860 | 1320 | 960 | M20–M64 |
| PA3-225-0-530 | 244.5 | 9.625 | 12 | 15 | 300 | 11 13/16 | 18 | 50 | 4.9 | 390 | 390 | 390 | 390 | 390 | 280 | 210 | M8–M16 |
| PA3-225-1-530 | 244.5 | 9.625 | 16 | 17 | 300 | 11 13/16 | 24 | 50 | 4.9 | 800 | 800 | 800 | 630 | 400 | 280 | 220 | M8–M16 |
| PA3-225-2-530 | 244.5 | 9.625 | 16 | 17 | 300 | 11 13/16 | 24 | 50 | 4.9 | 800 | 800 | 800 | 630 | 400 | 280 | 220 | M8–M16 |
| PA3-225-3-530 | 244.5 | 9.625 | 20 | 20 | 300 | 11 13/16 | 30 | 70 | 8.4 | 1210 | 1210 | 1210 | 1180 | 810 | 580 | 430 | M12–M24 |
| PA3-225-4-530 | 244.5 | 9.625 | 24 | 25 | 300 | 11 13/16 | 36 | 80 | 12.3 | 1830 | 1830 | 1830 | 1830 | 1430 | 1010 | 740 | M12–M36 |
| PA3-225-5-530 | 244.5 | 9.625 | 30 | 29 | 300 | 11 13/16 | 45 | 100 | 15.7 | 2690 | 2690 | 2690 | 2690 | 1800 | 1270 | 930 | M12–M36 |
| PA3-225-6-530 | 244.5 | 9.625 | 36 | 41 | 300 | 11 13/16 | 54 | 100 | 21.6 | 3810 | 3810 | 3810 | 3810 | 3500 | 2450 | 1740 | M20–M64 |
| PA3-225-0-560 | 244.5 | 9.625 | 12 | 15 | 300 | 11 13/16 | 18 | 50 | 4.9 | 390 | 390 | 390 | 390 | 390 | 380 | 290 | M8–M16 |
| PA3-225-1-560 | 244.5 | 9.625 | 16 | 17 | 300 | 11 13/16 | 24 | 50 | 4.9 | 800 | 800 | 800 | 660 | 480 | 380 | 300 | M8–M16 |
| PA3-225-2-560 | 244.5 | 9.625 | 16 | 17 | 300 | 11 13/16 | 24 | 60 | 5.9 | 800 | 800 | 800 | 800 | 580 | 460 | 360 | M8–M16 |
| PA3-225-3-560 | 244.5 | 9.625 | 20 | 20 | 300 | 11 13/16 | 30 | 80 | 9.5 | 1210 | 1210 | 1210 | 1180 | 1070 | 880 | 690 | M12–M24 |
| PA3-225-4-560 | 244.5 | 9.625 | 24 | 25 | 300 | 11 13/16 | 36 | 80 | 12.3 | 1830 | 1830 | 1830 | 1830 | 1670 | 1330 | 1040 | M12–M36 |
| PA3-225-5-560 | 244.5 | 9.625 | 30 | 29 | 300 | 11 13/16 | 45 | 100 | 20.9 | 2960 | 2960 | 2960 | 2960 | 2960 | 2860 | 2410 | M12–M36 |
| PA3-225-6-560 | 244.5 | 9.625 | 36 | 41 | 300 | 11 13/16 | 54 | 100 | 21.6 | 3810 | 3810 | 3810 | 3810 | 3810 | 3140 | 2490 | M20–M64 |
| PA3-225-0-600 | 244.5 | 9.625 | 12 | 15 | 300 | 11 13/16 | 18 | 50 | 4.9 | 390 | 390 | 390 | 390 | 390 | 380 | 290 | M8–M16 |
| PA3-225-1-600 | 244.5 | 9.625 | 16 | 17 | 300 | 11 13/16 | 24 | 70 | 8.2 | 800 | 800 | 800 | 800 | 800 | 760 | 590 | M8–M16 |
| PA3-225-2-600 | 244.5 | 9.625 | 16 | 17 | 300 | 11 13/16 | 24 | 70 | 8.2 | 800 | 800 | 800 | 800 | 800 | 760 | 590 | M8–M16 |
| PA3-225-3-600 | 244.5 | 9.625 | 20 | 20 | 300 | 11 13/16 | 30 | 80 | 12.2 | 1320 | 1320 | 1320 | 1320 | 1320 | 1310 | 1020 | M12–M24 |
| PA3-225-4-600 | 244.5 | 9.625 | 24 | 25 | 300 | 11 13/16 | 36 | 100 | 20.5 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | M12–M36 |
| PA3-225-5-600 | 244.5 | 9.625 | 30 | 29 | 300 | 11 13/16 | 45 | 100 | 20.9 | 2960 | 2960 | 2960 | 2960 | 2960 | 2860 | 2410 | M12–M36 |
| PA3-225-6-600 | 244.5 | 9.625 | 36 | 41 | 300 | 11 13/16 | 54 | 100 | 27.0 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | M20–M64 |

# PA3 PIPE CLAMP THREE BOLT TYPE



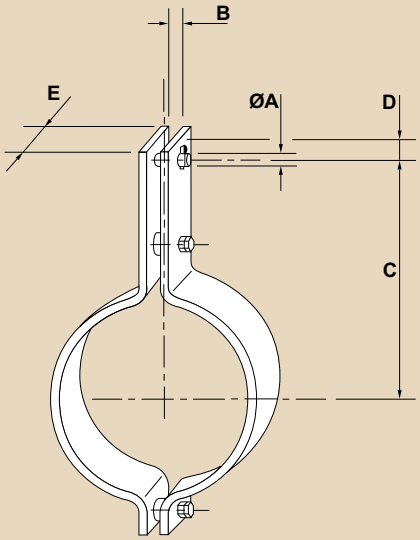

*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA3-250-0-400 | 273 | 10.75 | 12 | 15 | 320 | 12 5/8 | 18 | 40 | 3.4 | 390 | 390 | | | | | | M8–M16 |
| PA3-250-1-400 | 273 | 10.75 | 16 | 17 | 320 | 12 5/8 | 24 | 40 | 3.5 | 460 | 420 | | | | | | M8–M16 |
| **PA3-250-2-400** | 273 | 10.75 | 16 | 17 | 320 | 12 5/8 | 24 | 45 | 4.8 | 620 | 620 | | | | | | M8–M16 |
| PA3-250-3-400 | 273 | 10.75 | 20 | 20 | 320 | 12 5/8 | 30 | 60 | 8.0 | 1320 | 1240 | | | | | | M12–M24 |
| **PA3-250-4-400** | 273 | 10.75 | 24 | 25 | 320 | 12 5/8 | 36 | 65 | 14.5 | 1590 | 1590 | | | | | | M12–M36 |
| PA3-250-5-400 | 273 | 10.75 | 30 | 29 | 320 | 12 5/8 | 45 | 90 | 20.7 | 2670 | 2670 | | | | | | M12–M36 |
| PA3-250-6-400 | 273 | 10.75 | 36 | 41 | 320 | 12 5/8 | 54 | 90 | 21.5 | 3810 | 3810 | | | | | | M20–M64 |
| PA3-250-7-400 | 273 | 10.75 | 42 | 45 | 320 | 12 5/8 | 63 | 110 | 27.6 | 5470 | 5470 | | | | | | M30–M64 |
| PA3-250-0-490 | 273 | 10.75 | 12 | 15 | 330 | 13 | 18 | 50 | 5.3 | 390 | 390 | 390 | 390 | 380 | 270 | 200 | M8–M16 |
| PA3-250-1-490 | 273 | 10.75 | 16 | 17 | 330 | 13 | 24 | 50 | 5.4 | 800 | 800 | 800 | 600 | 380 | 270 | 200 | M8–M16 |
| PA3-250-2-490 | 273 | 10.75 | 16 | 17 | 330 | 13 | 24 | 50 | 5.4 | 800 | 800 | 800 | 600 | 380 | 270 | 200 | M8–M16 |
| PA3-250-3-490 | 273 | 10.75 | 20 | 20 | 330 | 13 | 30 | 70 | 9.2 | 1120 | 1120 | 1120 | 1100 | 780 | 550 | 410 | M12–M24 |
| PA3-250-4-490 | 273 | 10.75 | 24 | 25 | 330 | 13 | 36 | 80 | 10.8 | 1830 | 1830 | 1670 | 1280 | 820 | 580 | 430 | M12–M36 |
| PA3-250-5-490 | 273 | 10.75 | 30 | 29 | 330 | 13 | 45 | 80 | 13.8 | 2480 | 2480 | 2480 | 2100 | 1380 | 970 | 700 | M12–M36 |
| PA3-250-6-490 | 273 | 10.75 | 36 | 41 | 330 | 13 | 54 | 100 | 23.5 | 3810 | 3810 | 3810 | 3810 | 3330 | 2320 | 1660 | M20–M64 |
| PA3-250-7-490 | 273 | 10.75 | 42 | 45 | 330 | 13 | 63 | 110 | 27.0 | 5470 | 5470 | 5470 | 5140 | 3480 | 2420 | 1730 | M30–M64 |
| PA3-250-0-530 | 273 | 10.75 | 12 | 15 | 330 | 13 | 18 | 50 | 5.3 | 390 | 390 | 390 | 390 | 380 | 270 | 200 | M8–M16 |
| PA3-250-1-530 | 273 | 10.75 | 16 | 17 | 330 | 13 | 24 | 50 | 5.4 | 800 | 800 | 800 | 600 | 380 | 270 | 200 | M8–M16 |
| PA3-250-2-530 | 273 | 10.75 | 16 | 17 | 330 | 13 | 24 | 50 | 5.4 | 800 | 800 | 800 | 600 | 380 | 270 | 200 | M8–M16 |
| PA3-250-3-530 | 273 | 10.75 | 20 | 20 | 330 | 13 | 30 | 70 | 9.2 | 1120 | 1120 | 1120 | 1100 | 780 | 550 | 410 | M12–M24 |
| PA3-250-4-530 | 273 | 10.75 | 24 | 25 | 330 | 13 | 36 | 80 | 13.5 | 1830 | 1830 | 1830 | 1830 | 1360 | 960 | 690 | M12–M36 |
| PA3-250-5-530 | 273 | 10.75 | 30 | 29 | 330 | 13 | 45 | 100 | 17.1 | 2480 | 2480 | 2480 | 2480 | 1720 | 1210 | 880 | M12–M36 |
| PA3-250-6-530 | 273 | 10.75 | 36 | 41 | 330 | 13 | 54 | 100 | 23.5 | 3810 | 3810 | 3810 | 3810 | 3330 | 2320 | 1660 | M20–M64 |
| PA3-250-7-530 | 273 | 10.75 | 42 | 45 | 330 | 13 | 63 | 110 | 33.4 | 5470 | 5470 | 5470 | 5470 | 5470 | 4260 | 3070 | M30–M64 |
| PA3-250-0-560 | 273 | 10.75 | 12 | 15 | 330 | 13 | 18 | 50 | 5.3 | 390 | 390 | 390 | 390 | 390 | 360 | 280 | M8–M16 |
| PA3-250-1-560 | 273 | 10.75 | 16 | 17 | 330 | 13 | 24 | 50 | 5.4 | 800 | 800 | 800 | 630 | 460 | 360 | 280 | M8–M16 |
| PA3-250-2-560 | 273 | 10.75 | 16 | 17 | 330 | 13 | 24 | 60 | 6.5 | 800 | 800 | 800 | 750 | 550 | 440 | 340 | M8–M16 |
| PA3-250-3-560 | 273 | 10.75 | 20 | 20 | 330 | 13 | 30 | 80 | 13.3 | 1320 | 1320 | 1320 | 1320 | 1320 | 1240 | 970 | M12–M24 |
| PA3-250-4-560 | 273 | 10.75 | 24 | 25 | 330 | 13 | 36 | 100 | 16.8 | 1830 | 1830 | 1830 | 1830 | 1830 | 1570 | 1230 | M12–M36 |
| PA3-250-5-560 | 273 | 10.75 | 30 | 29 | 330 | 13 | 45 | 100 | 22.8 | 2720 | 2720 | 2720 | 2720 | 2720 | 2640 | 2290 | M12–M36 |
| PA3-250-6-560 | 273 | 10.75 | 36 | 41 | 330 | 13 | 54 | 100 | 23.5 | 3810 | 3810 | 3810 | 3810 | 3750 | 2960 | 2350 | M20–M64 |
| PA3-250-7-560 | 273 | 10.75 | 42 | 45 | 330 | 13 | 63 | 110 | 33.4 | 5470 | 5470 | 5470 | 5470 | 5470 | 5260 | 4200 | M30–M64 |
| PA3-250-0-600 | 273 | 10.75 | 12 | 15 | 330 | 13 | 18 | 50 | 5.3 | 390 | 390 | 390 | 390 | 390 | 360 | 280 | M8–M16 |
| PA3-250-1-600 | 273 | 10.75 | 16 | 17 | 330 | 13 | 24 | 70 | 9.1 | 800 | 800 | 800 | 800 | 800 | 730 | 570 | M8–M16 |
| PA3-250-2-600 | 273 | 10.75 | 16 | 17 | 330 | 13 | 24 | 70 | 9.1 | 800 | 800 | 800 | 800 | 800 | 730 | 570 | M8–M16 |
| PA3-250-3-600 | 273 | 10.75 | 20 | 20 | 330 | 13 | 30 | 100 | 16.6 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1210 | M12–M24 |
| PA3-250-4-600 | 273 | 10.75 | 24 | 25 | 330 | 13 | 36 | 100 | 22.4 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | M12–M36 |
| PA3-250-5-600 | 273 | 10.75 | 30 | 29 | 330 | 13 | 45 | 100 | 22.8 | 2720 | 2720 | 2720 | 2720 | 2720 | 2640 | 2290 | M12–M36 |
| PA3-250-6-600 | 273 | 10.75 | 36 | 41 | 330 | 13 | 54 | 100 | 29.4 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | 3790 | M20–M64 |
| PA3-250-7-600 | 273 | 10.75 | 42 | 45 | 330 | 13 | 63 | 110 | 40.1 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | M30–M64 |



Bold part numbers indicate a stocked item.

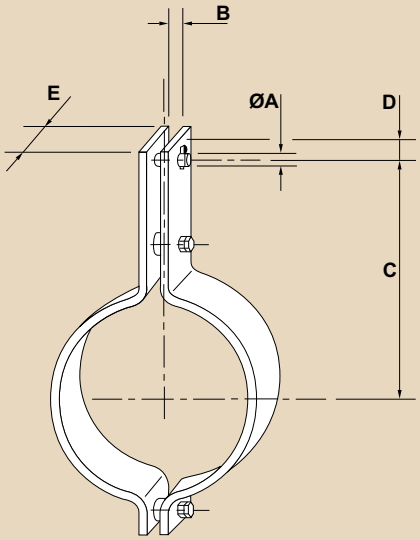
# PA3 PIPE CLAMP THREE BOLT TYPE




*Material: Carbon Steel to 400°C  Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA3-300-1-400 | 323.9 | 12.75 | 16 | 17 | 350 | 13 3/4 | 24 | 45 | 5.5 | 590 | 590 | | | | | | M8–M16 |
| PA3-300-2-400 | 323.9 | 12.75 | 16 | 17 | 350 | 13 3/4 | 24 | 45 | 5.5 | 590 | 590 | | | | | | M8–M16 |
| **PA3-300-3-400** | 323.9 | 12.75 | 20 | 20 | 350 | 13 3/4 | 30 | 60 | 8.9 | 1180 | 1130 | | | | | | M12–M24 |
| **PA3-300-4-400** | 323.9 | 12.75 | 24 | 25 | 350 | 13 3/4 | 36 | 65 | 16.5 | 1830 | 1830 | | | | | | M12–M36 |
| PA3-300-5-400 | 323.9 | 12.75 | 30 | 29 | 350 | 13 3/4 | 45 | 90 | 23.0 | 2340 | 2340 | | | | | | M12–M36 |
| PA3-300-6-400 | 323.9 | 12.75 | 36 | 41 | 350 | 13 3/4 | 54 | 90 | 24.8 | 3810 | 3810 | | | | | | M20–M64 |
| PA3-300-7-400 | 323.9 | 12.75 | 42 | 45 | 360 | 14 3/16 | 63 | 110 | 38.1 | 5470 | 5470 | | | | | | M30–M64 |
| PA3-300-8-400 | 323.9 | 12.75 | 48 | 52 | 370 | 14 9/16 | 72 | 130 | 47.4 | 9820 | 9410 | | | | | | M42–M80 |
| PA3-300-1-490 | 323.9 | 12.75 | 16 | 17 | 370 | 14 9/16 | 24 | 50 | 6.2 | 740 | 740 | 660 | 500 | 320 | 230 | 170 | M8–M16 |
| PA3-300-2-490 | 323.9 | 12.75 | 16 | 17 | 370 | 14 9/16 | 24 | 50 | 6.2 | 740 | 740 | 660 | 500 | 320 | 230 | 170 | M8–M16 |
| PA3-300-3-490 | 323.9 | 12.75 | 20 | 20 | 370 | 14 9/16 | 30 | 70 | 10.6 | 1320 | 1320 | 1320 | 1020 | 660 | 470 | 340 | M12–M24 |
| PA3-300-4-490 | 323.9 | 12.75 | 24 | 25 | 370 | 14 9/16 | 36 | 80 | 15.2 | 1830 | 1830 | 1830 | 1830 | 1270 | 890 | 640 | M12–M36 |
| PA3-300-5-490 | 323.9 | 12.75 | 30 | 29 | 370 | 14 9/16 | 45 | 100 | 19.7 | 3050 | 3050 | 2830 | 2240 | 1480 | 1040 | 740 | M12–M36 |
| PA3-300-6-490 | 323.9 | 12.75 | 36 | 41 | 370 | 14 9/16 | 54 | 100 | 26.6 | 3810 | 3810 | 3810 | 3810 | 2880 | 2000 | 1440 | M20–M64 |
| PA3-300-7-490 | 323.9 | 12.75 | 42 | 45 | 370 | 14 9/16 | 63 | 110 | 30.2 | 5470 | 5470 | 5470 | 4700 | 3200 | 2220 | 1600 | M30–M64 |
| PA3-300-8-490 | 323.9 | 12.75 | 48 | 52 | 370 | 14 9/16 | 72 | 120 | 42.8 | 9770 | 9770 | 9210 | 7760 | 5520 | 3930 | 2820 | M42–M80 |
| PA3-300-1-530 | 323.9 | 12.75 | 16 | 17 | 370 | 14 9/16 | 24 | 50 | 6.2 | 740 | 740 | 660 | 500 | 320 | 230 | 170 | M8–M16 |
| PA3-300-2-530 | 323.9 | 12.75 | 16 | 17 | 370 | 14 9/16 | 24 | 60 | 7.4 | 800 | 800 | 800 | 600 | 380 | 270 | 200 | M8–M16 |
| PA3-300-3-530 | 323.9 | 12.75 | 20 | 20 | 370 | 14 9/16 | 30 | 70 | 10.6 | 1320 | 1320 | 1320 | 1020 | 660 | 470 | 340 | M12–M24 |
| PA3-300-4-530 | 323.9 | 12.75 | 24 | 25 | 370 | 14 9/16 | 36 | 80 | 15.2 | 1830 | 1830 | 1830 | 1830 | 1270 | 890 | 640 | M12–M36 |
| PA3-300-5-530 | 323.9 | 12.75 | 30 | 29 | 370 | 14 9/16 | 45 | 100 | 26.1 | 3050 | 3050 | 3050 | 3050 | 2810 | 1950 | 1410 | M12–M36 |
| PA3-300-6-530 | 323.9 | 12.75 | 36 | 41 | 370 | 14 9/16 | 54 | 100 | 26.6 | 3810 | 3810 | 3810 | 3810 | 2880 | 2000 | 1440 | M20–M64 |
| PA3-300-7-530 | 323.9 | 12.75 | 42 | 45 | 370 | 14 9/16 | 63 | 110 | 37.5 | 5470 | 5470 | 5470 | 5470 | 5260 | 3740 | 2680 | M30–M64 |
| PA3-300-8-530 | 323.9 | 12.75 | 48 | 52 | 370 | 14 9/16 | 72 | 120 | 42.8 | 9770 | 9770 | 9210 | 7760 | 5520 | 3930 | 2820 | M42–M80 |
| PA3-300-1-560 | 323.9 | 12.75 | 16 | 17 | 390 | 15 3/8 | 24 | 50 | 6.4 | 740 | 740 | 670 | 520 | 380 | 300 | 240 | M8–M16 |
| PA3-300-2-560 | 323.9 | 12.75 | 16 | 17 | 390 | 15 3/8 | 24 | 70 | 10.6 | 800 | 800 | 800 | 800 | 800 | 680 | 530 | M8–M16 |
| PA3-300-3-560 | 323.9 | 12.75 | 20 | 20 | 390 | 15 3/8 | 30 | 80 | 15.3 | 1110 | 1110 | 1110 | 1110 | 1070 | 1000 | 890 | M12–M24 |
| PA3-300-4-560 | 323.9 | 12.75 | 24 | 25 | 390 | 15 3/8 | 36 | 100 | 19.4 | 1830 | 1830 | 1830 | 1830 | 1830 | 1450 | 1140 | M12–M36 |
| PA3-300-5-560 | 323.9 | 12.75 | 30 | 29 | 390 | 15 3/8 | 45 | 100 | 26.3 | 2390 | 2390 | 2390 | 2390 | 2390 | 2310 | 2120 | M12–M36 |
| PA3-300-6-560 | 323.9 | 12.75 | 36 | 41 | 390 | 15 3/8 | 54 | 90 | 30.5 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | 3140 | M20–M64 |
| PA3-300-7-560 | 323.9 | 12.75 | 42 | 45 | 390 | 15 3/8 | 63 | 110 | 38.4 | 5470 | 5470 | 5470 | 5470 | 5470 | 4570 | 3650 | M30–M64 |
| PA3-300-8-560 | 323.9 | 12.75 | 48 | 52 | 390 | 15 3/8 | 72 | 120 | 52.2 | 10910 | 10910 | 10910 | 10910 | 8920 | 7190 | 5710 | M42–M80 |
| PA3-300-1-600 | 323.9 | 12.75 | 16 | 17 | 390 | 15 3/8 | 24 | 70 | 10.6 | 800 | 800 | 800 | 800 | 800 | 680 | 530 | M8–M16 |
| PA3-300-2-600 | 323.9 | 12.75 | 16 | 17 | 390 | 15 3/8 | 24 | 80 | 12.1 | 800 | 800 | 800 | 800 | 800 | 770 | 600 | M8–M16 |
| PA3-300-3-600 | 323.9 | 12.75 | 20 | 20 | 390 | 15 3/8 | 30 | 100 | 19.3 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1130 | M12–M24 |
| PA3-300-4-600 | 323.9 | 12.75 | 24 | 25 | 390 | 15 3/8 | 36 | 100 | 25.9 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | M12–M36 |
| PA3-300-5-600 | 323.9 | 12.75 | 30 | 29 | 390 | 15 3/8 | 45 | 90 | 30.2 | 3050 | 3050 | 3050 | 3050 | 3050 | 3050 | 2900 | M12–M36 |
| PA3-300-6-600 | 323.9 | 12.75 | 36 | 41 | 390 | 15 3/8 | 54 | 110 | 37.0 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | M20–M64 |
| PA3-300-7-600 | 323.9 | 12.75 | 42 | 45 | 390 | 15 3/8 | 63 | 110 | 46.1 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | 5420 | M30–M64 |
| PA3-300-8-600 | 323.9 | 12.75 | 48 | 52 | 390 | 15 3/8 | 72 | 160 | 68.7 | 10910 | 10910 | 10910 | 10910 | 10910 | 9590 | 7620 | M42–M80 |

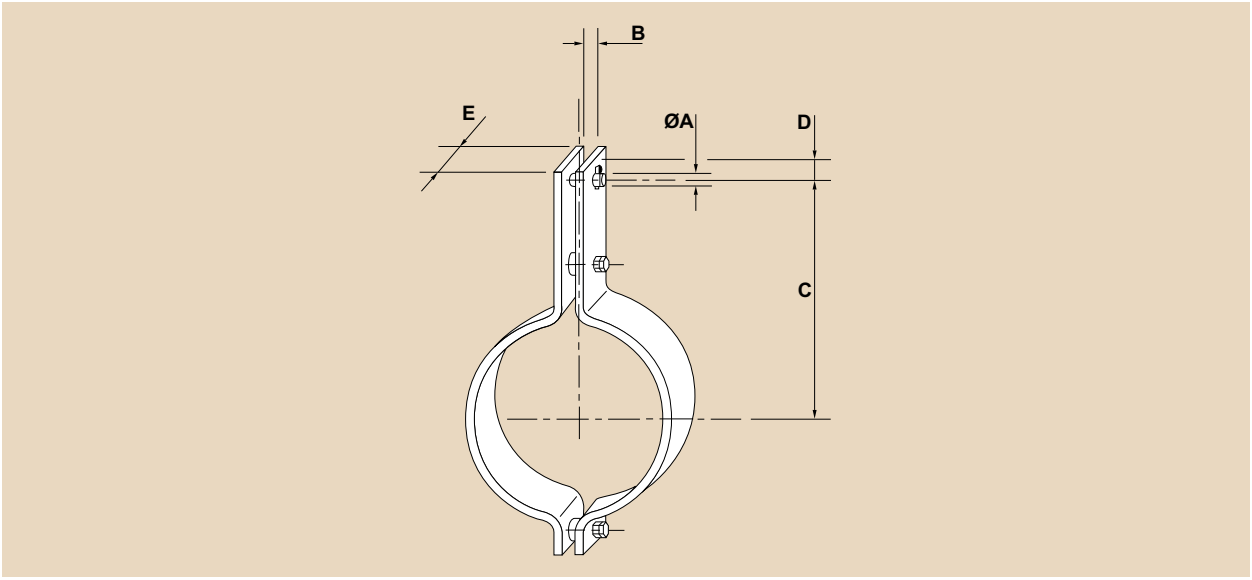
# PA3 PIPE CLAMP THREE BOLT TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA3-350-1-400 | 355.6 | 14 | 16 | 17 | 380 | 14 15/16 | 24 | 45 | 5.9 | 550 | 550 | | | | | | M8–M16 |
| PA3-350-2-400 | 355.6 | 14 | 16 | 17 | 380 | 14 15/16 | 24 | 45 | 5.9 | 550 | 550 | | | | | | M8–M16 |
| PA3-350-3-400 | 355.6 | 14 | 20 | 20 | 380 | 14 15/16 | 30 | 60 | 9.6 | 1100 | 1090 | | | | | | M12–M24 |
| PA3-350-4-400 | 355.6 | 14 | 24 | 25 | 380 | 14 15/16 | 36 | 65 | 17.8 | 1830 | 1830 | | | | | | M12–M36 |
| PA3-350-5-400 | 355.6 | 14 | 30 | 29 | 380 | 14 15/16 | 45 | 90 | 25.3 | 3050 | 3050 | | | | | | M12–M36 |
| PA3-350-6-400 | 355.6 | 14 | 36 | 41 | 380 | 14 15/16 | 54 | 90 | 26.5 | 3810 | 3810 | | | | | | M20–M64 |
| PA3-350-7-400 | 355.6 | 14 | 42 | 45 | 380 | 14 15/16 | 63 | 110 | 40.6 | 5470 | 5470 | | | | | | M30–M64 |
| PA3-350-8-400 | 355.6 | 14 | 48 | 52 | 390 | 15 3/8 | 72 | 130 | 50.3 | 8900 | 8540 | | | | | | M42–M80 |
| PA3-350-9-400 | 355.6 | 14 | 56 | 58 | 440 | 17 5/16 | 84 | 150 | 75.4 | 10000 | 10000 | | | | | | M42–M80 |
| PA3-350-1-490 | 355.6 | 14 | 16 | 17 | 400 | 15 3/4 | 24 | 50 | 6.7 | 720 | 720 | 640 | 490 | 310 | 220 | 160 | M8–M16 |
| PA3-350-2-490 | 355.6 | 14 | 16 | 17 | 400 | 15 3/4 | 24 | 50 | 6.7 | 720 | 720 | 640 | 490 | 310 | 220 | 160 | M8–M16 |
| PA3-350-3-490 | 355.6 | 14 | 20 | 20 | 400 | 15 3/4 | 30 | 70 | 11.4 | 1320 | 1320 | 1270 | 990 | 640 | 450 | 330 | M12–M24 |
| PA3-350-4-490 | 355.6 | 14 | 24 | 25 | 400 | 15 3/4 | 36 | 80 | 16.5 | 1830 | 1830 | 1830 | 1710 | 1130 | 790 | 570 | M12–M36 |
| PA3-350-5-490 | 355.6 | 14 | 30 | 29 | 400 | 15 3/4 | 45 | 100 | 21.2 | 2980 | 2980 | 2710 | 2150 | 1430 | 1000 | 710 | M12–M36 |
| PA3-350-6-490 | 355.6 | 14 | 36 | 41 | 400 | 15 3/4 | 54 | 100 | 28.5 | 3810 | 3810 | 3810 | 3810 | 2760 | 1920 | 1390 | M20–M64 |
| PA3-350-7-490 | 355.6 | 14 | 42 | 45 | 400 | 15 3/4 | 63 | 110 | 40.4 | 5470 | 5470 | 5470 | 5470 | 4770 | 3400 | 2440 | M30–M64 |
| PA3-350-8-490 | 355.6 | 14 | 48 | 52 | 400 | 15 3/4 | 72 | 120 | 45.6 | 9280 | 9280 | 8750 | 7380 | 5260 | 3750 | 2690 | M42–M80 |
| PA3-350-9-490 | 355.6 | 14 | 56 | 58 | 410 | 16 1/8 | 84 | 140 | 54.8 | 10000 | 10000 | 10000 | 8690 | 6200 | 4420 | 3170 | M42–M80 |
| PA3-350-1-530 | 355.6 | 14 | 16 | 17 | 400 | 15 3/4 | 24 | 50 | 6.7 | 720 | 720 | 640 | 490 | 310 | 220 | 160 | M8–M16 |
| PA3-350-2-530 | 355.6 | 14 | 16 | 17 | 400 | 15 3/4 | 24 | 60 | 8.0 | 800 | 800 | 770 | 580 | 370 | 270 | 200 | M8–M16 |
| PA3-350-3-530 | 355.6 | 14 | 20 | 20 | 400 | 15 3/4 | 30 | 80 | 13.0 | 1320 | 1320 | 1320 | 1130 | 730 | 520 | 380 | M12–M24 |
| PA3-350-4-530 | 355.6 | 14 | 24 | 25 | 400 | 15 3/4 | 36 | 80 | 16.5 | 1830 | 1830 | 1830 | 1710 | 1130 | 790 | 570 | M12–M36 |
| PA3-350-5-530 | 355.6 | 14 | 30 | 29 | 400 | 15 3/4 | 45 | 100 | 28.1 | 3050 | 3050 | 3050 | 3050 | 2700 | 1880 | 1360 | M12–M36 |
| PA3-350-6-530 | 355.6 | 14 | 36 | 41 | 400 | 15 3/4 | 54 | 100 | 28.5 | 3810 | 3810 | 3810 | 3810 | 2760 | 1920 | 1390 | M20–M64 |
| PA3-350-7-530 | 355.6 | 14 | 42 | 45 | 400 | 15 3/4 | 63 | 110 | 40.4 | 5470 | 5470 | 5470 | 5470 | 4770 | 3400 | 2440 | M30–M64 |
| PA3-350-8-530 | 355.6 | 14 | 48 | 52 | 400 | 15 3/4 | 72 | 130 | 49.2 | 10050 | 10050 | 9480 | 7990 | 5700 | 4060 | 2910 | M42–M80 |
| PA3-350-9-530 | 355.6 | 14 | 56 | 58 | 420 | 16 9/16 | 84 | 140 | 66.1 | 10000 | 10000 | 10000 | 10000 | 9370 | 6870 | 4860 | M42–M80 |
| PA3-350-1-560 | 355.6 | 14 | 16 | 17 | 420 | 16 9/16 | 24 | 50 | 6.8 | 720 | 720 | 650 | 510 | 370 | 290 | 230 | M8–M16 |
| PA3-350-2-560 | 355.6 | 14 | 16 | 17 | 420 | 16 9/16 | 24 | 70 | 11.5 | 800 | 800 | 800 | 800 | 740 | 590 | 460 | M8–M16 |
| PA3-350-3-560 | 355.6 | 14 | 20 | 20 | 420 | 16 9/16 | 30 | 80 | 16.7 | 1320 | 1320 | 1320 | 1320 | 1280 | 1020 | 800 | M12–M24 |
| PA3-350-4-560 | 355.6 | 14 | 24 | 25 | 420 | 16 9/16 | 36 | 100 | 21.0 | 1830 | 1830 | 1830 | 1830 | 1620 | 1280 | 1010 | M12–M36 |
| PA3-350-5-560 | 355.6 | 14 | 30 | 29 | 420 | 16 9/16 | 45 | 100 | 28.4 | 2330 | 2330 | 2330 | 2330 | 2330 | 2290 | 1900 | M12–M36 |
| PA3-350-6-560 | 355.6 | 14 | 36 | 41 | 420 | 16 9/16 | 54 | 90 | 32.8 | 3810 | 3810 | 3810 | 3810 | 3810 | 3550 | 2830 | M20–M64 |
| PA3-350-7-560 | 355.6 | 14 | 42 | 45 | 420 | 16 9/16 | 63 | 120 | 44.9 | 5470 | 5470 | 5470 | 5470 | 5470 | 4520 | 3600 | M30–M64 |
| PA3-350-8-560 | 355.6 | 14 | 48 | 52 | 420 | 16 9/16 | 72 | 120 | 55.7 | 10910 | 10910 | 10910 | 10770 | 8490 | 6850 | 5440 | M42–M80 |
| PA3-350-9-560 | 355.6 | 14 | 56 | 58 | 420 | 16 9/16 | 84 | 140 | 66.1 | 10000 | 10000 | 10000 | 10000 | 10000 | 8070 | 6410 | M42–M80 |
| PA3-350-1-600 | 355.6 | 14 | 16 | 17 | 420 | 16 9/16 | 24 | 70 | 11.5 | 800 | 800 | 800 | 800 | 740 | 590 | 460 | M8–M16 |
| PA3-350-2-600 | 355.6 | 14 | 16 | 17 | 420 | 16 9/16 | 24 | 80 | 16.3 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | M8–M16 |
| PA3-350-3-600 | 355.6 | 14 | 20 | 20 | 420 | 16 9/16 | 30 | 100 | 27.8 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | M12–M24 |
| PA3-350-4-600 | 355.6 | 14 | 24 | 25 | 420 | 16 9/16 | 36 | 100 | 28.0 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | M12–M36 |
| PA3-350-5-600 | 355.6 | 14 | 30 | 29 | 420 | 16 9/16 | 45 | 90 | 32.1 | 2520 | 2520 | 2520 | 2520 | 2520 | 2520 | 2490 | M12–M36 |
| PA3-350-6-600 | 355.6 | 14 | 36 | 41 | 420 | 16 9/16 | 54 | 120 | 43.4 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | 3780 | M20–M64 |
| PA3-350-7-600 | 355.6 | 14 | 42 | 45 | 420 | 16 9/16 | 63 | 120 | 53.6 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | M30–M64 |
| PA3-350-8-600 | 355.6 | 14 | 48 | 52 | 420 | 16 9/16 | 72 | 120 | 74.3 | 10910 | 10910 | 10910 | 10910 | 10910 | 10910 | 10280 | M42–M80 |
| PA3-350-9-600 | 355.6 | 14 | 56 | 58 | 430 | 16 15/16 | 84 | 140 | 88.4 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | M42–M80 |

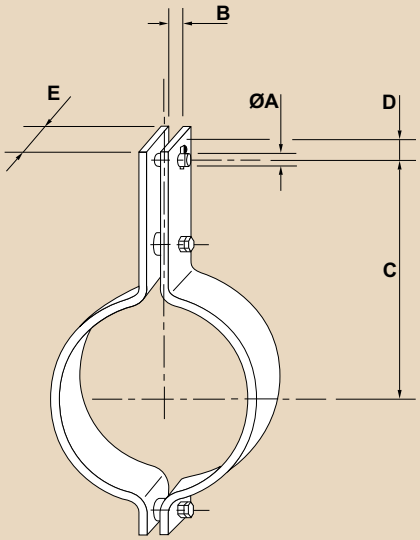
# PA3 PIPE CLAMP THREE BOLT TYPE




*Material: Carbon Steel to 400°C  Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA3-400-1-400 | 406.4 | 16 | 16 | 17 | 420 | 16 9/16 | 24 | 45 | 6.6 | 510 | 510 | | | | | | M8–M16 |
| PA3-400-2-400 | 406.4 | 16 | 16 | 17 | 420 | 16 9/16 | 24 | 60 | 10.6 | 800 | 800 | | | | | | M8–M16 |
| PA3-400-3-400 | 406.4 | 16 | 20 | 20 | 420 | 16 9/16 | 30 | 55 | 12.3 | 1130 | 1130 | | | | | | M12–M24 |
| PA3-400-4-400 | 406.4 | 16 | 24 | 25 | 420 | 16 9/16 | 36 | 65 | 19.7 | 1830 | 1830 | | | | | | M12–M36 |
| PA3-400-5-400 | 406.4 | 16 | 30 | 29 | 420 | 16 9/16 | 45 | 90 | 27.9 | 3000 | 3000 | | | | | | M12–M36 |
| PA3-400-6-400 | 406.4 | 16 | 36 | 41 | 420 | 16 9/16 | 54 | 110 | 35.2 | 3810 | 3810 | | | | | | M20–M64 |
| PA3-400-7-400 | 406.4 | 16 | 42 | 45 | 420 | 16 9/16 | 63 | 110 | 44.5 | 5470 | 5470 | | | | | | M30–M64 |
| PA3-400-8-400 | 406.4 | 16 | 48 | 52 | 420 | 16 9/16 | 72 | 130 | 54.4 | 8150 | 7800 | | | | | | M42–M80 |
| PA3-400-9-400 | 406.4 | 16 | 56 | 58 | 470 | 18 1/2 | 84 | 150 | 81.5 | 10000 | 10000 | | | | | | M42–M80 |
| PA3-400-10-400 | 406.4 | 16 | 64 | 65 | 500 | 19 11/16 | 96 | 180 | 133.7 | 14730 | 14730 | | | | | | M42–M80 |
| PA3-400-1-490 | 406.4 | 16 | 16 | 17 | 430 | 16 15/16 | 24 | 50 | 7.3 | 660 | 660 | 590 | 450 | 280 | 200 | 150 | M8–M16 |
| PA3-400-2-490 | 406.4 | 16 | 16 | 17 | 430 | 16 15/16 | 24 | 50 | 7.3 | 660 | 660 | 590 | 450 | 280 | 200 | 150 | M8–M16 |
| PA3-400-3-490 | 406.4 | 16 | 20 | 20 | 430 | 16 15/16 | 30 | 70 | 12.6 | 1200 | 1200 | 1070 | 830 | 530 | 380 | 280 | M12–M24 |
| PA3-400-4-490 | 406.4 | 16 | 24 | 25 | 430 | 16 15/16 | 36 | 80 | 18.1 | 1830 | 1830 | 1830 | 1560 | 1030 | 720 | 520 | M12–M36 |
| PA3-400-5-490 | 406.4 | 16 | 30 | 29 | 430 | 16 15/16 | 45 | 100 | 23.1 | 2750 | 2750 | 2490 | 1970 | 1290 | 910 | 650 | M12–M36 |
| PA3-400-6-490 | 406.4 | 16 | 36 | 41 | 430 | 16 15/16 | 54 | 100 | 31.6 | 3810 | 3810 | 3810 | 3470 | 2360 | 1640 | 1180 | M20–M64 |
| PA3-400-7-490 | 406.4 | 16 | 42 | 45 | 430 | 16 15/16 | 63 | 110 | 43.9 | 5470 | 5470 | 5470 | 5470 | 4330 | 3070 | 2210 | M30–M64 |
| PA3-400-8-490 | 406.4 | 16 | 48 | 52 | 430 | 16 15/16 | 72 | 120 | 49.7 | 8110 | 8110 | 7630 | 6420 | 4540 | 3220 | 2320 | M42–M80 |
| PA3-400-9-490 | 406.4 | 16 | 56 | 58 | 440 | 17 5/16 | 84 | 140 | 70.7 | 10000 | 10000 | 10000 | 10000 | 8510 | 6210 | 4400 | M42–M80 |
| PA3-400-10-490 | 406.4 | 16 | 64 | 65 | 470 | 18 1/2 | 96 | 160 | 86.2 | 15540 | 15540 | 14880 | 12660 | 9400 | 6860 | 4860 | M42–M80 |
| PA3-400-1-530 | 406.4 | 16 | 16 | 17 | 430 | 16 15/16 | 24 | 50 | 7.3 | 660 | 660 | 590 | 450 | 280 | 200 | 150 | M8–M16 |
| PA3-400-2-530 | 406.4 | 16 | 16 | 17 | 430 | 16 15/16 | 24 | 60 | 8.8 | 800 | 800 | 710 | 530 | 340 | 240 | 180 | M8–M16 |
| PA3-400-3-530 | 406.4 | 16 | 20 | 20 | 430 | 16 15/16 | 30 | 80 | 17.9 | 1320 | 1320 | 1320 | 1320 | 1010 | 710 | 510 | M12–M24 |
| PA3-400-4-530 | 406.4 | 16 | 24 | 25 | 430 | 16 15/16 | 36 | 100 | 22.5 | 1830 | 1830 | 1830 | 1830 | 1280 | 900 | 650 | M12–M36 |
| PA3-400-5-530 | 406.4 | 16 | 30 | 29 | 430 | 16 15/16 | 45 | 100 | 30.8 | 3050 | 3050 | 3050 | 3050 | 2300 | 1600 | 1150 | M12–M36 |
| PA3-400-6-530 | 406.4 | 16 | 36 | 41 | 430 | 16 15/16 | 54 | 110 | 34.7 | 3810 | 3810 | 3810 | 3810 | 2590 | 1800 | 1300 | M20–M64 |
| PA3-400-7-530 | 406.4 | 16 | 42 | 45 | 430 | 16 15/16 | 63 | 110 | 43.9 | 5470 | 5470 | 5470 | 5470 | 4330 | 3070 | 2210 | M30–M64 |
| PA3-400-8-530 | 406.4 | 16 | 48 | 52 | 430 | 16 15/16 | 72 | 140 | 57.5 | 9460 | 9460 | 8900 | 7490 | 5300 | 3760 | 2700 | M42–M80 |
| PA3-400-9-530 | 406.4 | 16 | 56 | 58 | 440 | 17 5/16 | 84 | 140 | 70.7 | 10000 | 10000 | 10000 | 10000 | 8510 | 6210 | 4400 | M42–M80 |
| PA3-400-10-530 | 406.4 | 16 | 64 | 65 | 490 | 19 5/16 | 96 | 160 | 116.3 | 17480 | 17480 | 17480 | 17480 | 17480 | 13980 | 9690 | M42–M80 |
| PA3-400-1-560 | 406.4 | 16 | 16 | 17 | 460 | 18 1/8 | 24 | 60 | 9.1 | 800 | 800 | 720 | 560 | 410 | 320 | 250 | M8–M16 |
| PA3-400-2-560 | 406.4 | 16 | 16 | 17 | 460 | 18 1/8 | 24 | 70 | 12.7 | 800 | 800 | 800 | 800 | 680 | 540 | 420 | M8–M16 |
| PA3-400-3-560 | 406.4 | 16 | 20 | 20 | 460 | 18 1/8 | 30 | 80 | 18.5 | 1320 | 1320 | 1320 | 1320 | 1170 | 930 | 730 | M12–M24 |
| PA3-400-4-560 | 406.4 | 16 | 24 | 25 | 460 | 18 1/8 | 36 | 100 | 30.9 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1720 | M12–M36 |
| PA3-400-5-560 | 406.4 | 16 | 30 | 29 | 460 | 18 1/8 | 45 | 100 | 31.8 | 3050 | 3050 | 3050 | 3050 | 2580 | 2040 | 1620 | M12–M36 |
| PA3-400-6-560 | 406.4 | 16 | 36 | 41 | 460 | 18 1/8 | 54 | 90 | 36.1 | 3770 | 3770 | 3770 | 3770 | 3770 | 3240 | 2590 | M20–M64 |
| PA3-400-7-560 | 406.4 | 16 | 42 | 45 | 460 | 18 1/8 | 63 | 130 | 53.1 | 5470 | 5470 | 5470 | 5470 | 5470 | 4450 | 3550 | M30–M64 |
| PA3-400-8-560 | 406.4 | 16 | 48 | 52 | 460 | 18 1/8 | 72 | 130 | 66.0 | 10290 | 10290 | 10290 | 10210 | 8020 | 6460 | 5130 | M42–M80 |
| PA3-400-9-560 | 406.4 | 16 | 56 | 58 | 460 | 18 1/8 | 84 | 150 | 76.9 | 10000 | 10000 | 10000 | 10000 | 9750 | 7860 | 6250 | M42–M80 |
| PA3-400-10-560 | 406.4 | 16 | 64 | 65 | 490 | 19 5/16 | 96 | 160 | 116.3 | 17480 | 17480 | 17480 | 17480 | 17480 | 15520 | 12250 | M42–M80 |
| PA3-400-1-600 | 406.4 | 16 | 16 | 17 | 460 | 18 1/8 | 24 | 70 | 12.7 | 800 | 800 | 800 | 800 | 680 | 540 | 420 | M8–M16 |
| PA3-400-2-600 | 406.4 | 16 | 16 | 17 | 460 | 18 1/8 | 24 | 80 | 18.1 | 800 | 800 | 800 | 800 | 800 | 800 | 740 | M8–M16 |
| PA3-400-3-600 | 406.4 | 16 | 20 | 20 | 460 | 18 1/8 | 30 | 100 | 30.7 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | M12–M24 |
| PA3-400-4-600 | 406.4 | 16 | 24 | 25 | 460 | 18 1/8 | 36 | 100 | 30.9 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1720 | M12–M36 |
| PA3-400-5-600 | 406.4 | 16 | 30 | 29 | 460 | 18 1/8 | 45 | 90 | 35.8 | 3050 | 3050 | 3050 | 3050 | 3050 | 3000 | 2390 | M12–M36 |
| PA3-400-6-600 | 406.4 | 16 | 36 | 41 | 460 | 18 1/8 | 54 | 100 | 48.0 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | M20–M64 |
| PA3-400-7-600 | 406.4 | 16 | 42 | 45 | 460 | 18 1/8 | 63 | 140 | 68.5 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | M30–M64 |
| PA3-400-8-600 | 406.4 | 16 | 48 | 52 | 460 | 18 1/8 | 72 | 120 | 81.0 | 10910 | 10910 | 10910 | 10910 | 10910 | 10910 | 9370 | M42–M80 |
| PA3-400-9-600 | 406.4 | 16 | 56 | 58 | 460 | 18 1/8 | 84 | 140 | 95.8 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | M42–M80 |
| PA3-400-10-600 | 406.4 | 16 | 64 | 65 | 490 | 19 5/16 | 96 | 180 | 130.1 | 17480 | 17480 | 17480 | 17480 | 17480 | 17460 | 13780 | M42–M80 |

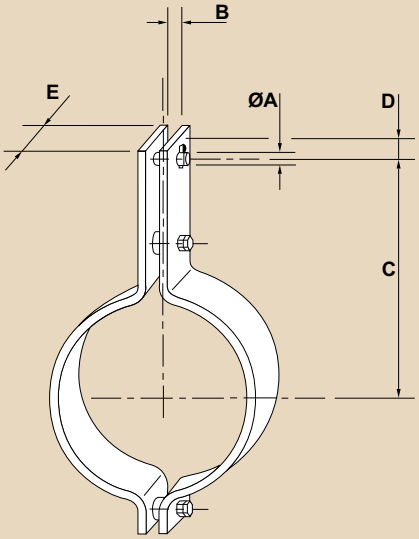
# PA3 PIPE CLAMP THREE BOLT TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA3-450-2-400 | 457.2 | 18 | 16 | 17 | 450 | 17 11/16 | 24 | 60 | 11.6 | 800 | 800 | | | | | | M8–M16 |
| PA3-450-3-400 | 457.2 | 18 | 20 | 20 | 450 | 17 11/16 | 30 | 55 | 13.4 | 1040 | 1040 | | | | | | M12–M24 |
| PA3-450-4-400 | 457.2 | 18 | 24 | 25 | 450 | 17 11/16 | 36 | 65 | 21.5 | 1830 | 1830 | | | | | | M12–M36 |
| PA3-450-5-400 | 457.2 | 18 | 30 | 29 | 450 | 17 11/16 | 45 | 90 | 30.4 | 2870 | 2870 | | | | | | M12–M36 |
| PA3-450-6-400 | 457.2 | 18 | 36 | 41 | 450 | 17 11/16 | 54 | 110 | 38.3 | 3810 | 3810 | | | | | | M20–M64 |
| PA3-450-7-400 | 457.2 | 18 | 42 | 45 | 450 | 17 11/16 | 63 | 110 | 49.5 | 5470 | 5470 | | | | | | M30–M64 |
| PA3-450-8-400 | 457.2 | 18 | 48 | 52 | 450 | 17 11/16 | 72 | 150 | 67.5 | 8220 | 8060 | | | | | | M42–M80 |
| PA3-450-9-400 | 457.2 | 18 | 56 | 58 | 490 | 19 5/16 | 84 | 150 | 86.6 | 10000 | 10000 | | | | | | M42–M80 |
| PA3-450-10-400 | 457.2 | 18 | 64 | 65 | 530 | 20 7/8 | 96 | 180 | 143.4 | 13670 | 13670 | | | | | | M42–M80 |
| PA3-450-11-400 | 457.2 | 18 | 72 | 69 | 540 | 21 1/4 | 108 | 180 | 150.0 | 18610 | 18610 | | | | | | M42–M80 |
| PA3-450-2-490 | 457.2 | 18 | 16 | 17 | 460 | 18 1/8 | 24 | 50 | 8.0 | 630 | 630 | 560 | 430 | 280 | 200 | 150 | M8–M16 |
| PA3-450-3-490 | 457.2 | 18 | 20 | 20 | 460 | 18 1/8 | 30 | 70 | 13.7 | 1130 | 1130 | 1020 | 790 | 520 | 360 | 270 | M12–M24 |
| PA3-450-4-490 | 457.2 | 18 | 24 | 25 | 460 | 18 1/8 | 36 | 80 | 19.6 | 1770 | 1770 | 1770 | 1490 | 990 | 700 | 490 | M12–M36 |
| PA3-450-5-490 | 457.2 | 18 | 30 | 29 | 460 | 18 1/8 | 45 | 100 | 33.5 | 3050 | 3050 | 3050 | 3050 | 2210 | 1530 | 1110 | M12–M36 |
| PA3-450-6-490 | 457.2 | 18 | 36 | 41 | 460 | 18 1/8 | 54 | 100 | 34.2 | 3810 | 3810 | 3810 | 3310 | 2260 | 1570 | 1130 | M20–M64 |
| PA3-450-7-490 | 457.2 | 18 | 42 | 45 | 460 | 18 1/8 | 63 | 110 | 48.8 | 5470 | 5470 | 5470 | 5220 | 3740 | 2670 | 1910 | M30–M64 |
| PA3-450-8-490 | 457.2 | 18 | 48 | 52 | 460 | 18 1/8 | 72 | 130 | 57.8 | 8210 | 8210 | 7750 | 6540 | 4690 | 3350 | 2400 | M42–M80 |
| PA3-450-9-490 | 457.2 | 18 | 56 | 58 | 480 | 18 1/8 | 84 | 140 | 78.7 | 10000 | 10000 | 10000 | 9870 | 7410 | 5450 | 3850 | M42–M80 |
| PA3-450-10-490 | 457.2 | 18 | 64 | 65 | 500 | 19 11/16 | 96 | 160 | 92.8 | 13890 | 13890 | 13350 | 11390 | 8550 | 6280 | 4440 | M42–M80 |
| PA3-450-11-490 | 457.2 | 18 | 72 | 69 | 540 | 21 1/4 | 108 | 180 | 147.3 | 23130 | 23130 | 23130 | 22490 | 18280 | 14050 | 9820 | M42–M80 |
| PA3-450-2-530 | 457.2 | 18 | 16 | 17 | 460 | 18 1/8 | 24 | 70 | 13.4 | 800 | 800 | 800 | 800 | 560 | 400 | 290 | M8–M16 |
| PA3-450-3-530 | 457.2 | 18 | 20 | 20 | 460 | 18 1/8 | 30 | 80 | 19.5 | 1320 | 1320 | 1320 | 1320 | 980 | 690 | 490 | M12–M24 |
| PA3-450-4-530 | 457.2 | 18 | 24 | 25 | 460 | 18 1/8 | 36 | 100 | 24.5 | 1770 | 1770 | 1770 | 1770 | 1240 | 870 | 620 | M12–M36 |
| PA3-450-5-530 | 457.2 | 18 | 30 | 29 | 460 | 18 1/8 | 45 | 100 | 33.5 | 3050 | 3050 | 3050 | 3050 | 2210 | 1530 | 1110 | M12–M36 |
| PA3-450-6-530 | 457.2 | 18 | 36 | 41 | 460 | 18 1/8 | 54 | 90 | 38.5 | 3810 | 3810 | 3810 | 3810 | 3360 | 2400 | 1720 | M20–M64 |
| PA3-450-7-530 | 457.2 | 18 | 42 | 45 | 460 | 18 1/8 | 63 | 120 | 53.0 | 5470 | 5470 | 5470 | 5470 | 4080 | 2910 | 2090 | M30–M64 |
| PA3-450-8-530 | 457.2 | 18 | 48 | 52 | 460 | 18 1/8 | 72 | 120 | 64.0 | 9370 | 9370 | 9370 | 8760 | 6570 | 4830 | 3410 | M42–M80 |
| PA3-450-9-530 | 457.2 | 18 | 56 | 58 | 480 | 18 7/8 | 84 | 140 | 78.7 | 10000 | 10000 | 10000 | 9870 | 7410 | 5450 | 3850 | M42–M80 |
| PA3-450-10-530 | 457.2 | 18 | 64 | 65 | 520 | 20 1/2 | 96 | 160 | 125.0 | 16240 | 16240 | 16240 | 16240 | 16240 | 12840 | 8970 | M42–M80 |
| PA3-450-11-530 | 457.2 | 18 | 72 | 69 | 540 | 21 1/4 | 108 | 180 | 147.3 | 23130 | 23130 | 23130 | 22490 | 18280 | 14050 | 9820 | M42–M80 |
| PA3-450-2-560 | 457.2 | 18 | 16 | 17 | 480 | 18 7/8 | 24 | 70 | 13.7 | 800 | 800 | 800 | 800 | 660 | 520 | 410 | M8–M16 |
| PA3-450-3-560 | 457.2 | 18 | 20 | 20 | 480 | 18 7/8 | 30 | 80 | 19.9 | 1320 | 1320 | 1320 | 1320 | 1120 | 890 | 700 | M12–M24 |
| PA3-450-4-560 | 457.2 | 18 | 24 | 25 | 480 | 18 7/8 | 36 | 100 | 33.2 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1650 | M12–M36 |
| PA3-450-5-560 | 457.2 | 18 | 30 | 29 | 480 | 18 7/8 | 45 | 100 | 34.1 | 3050 | 3050 | 3050 | 3050 | 2460 | 1940 | 1550 | M12–M36 |
| PA3-450-6-560 | 457.2 | 18 | 36 | 41 | 480 | 18 7/8 | 54 | 90 | 39.2 | 3810 | 3810 | 3810 | 3810 | 3650 | 2920 | 2330 | M20–M64 |
| PA3-450-7-560 | 457.2 | 18 | 42 | 45 | 480 | 18 7/8 | 63 | 110 | 59.1 | 5470 | 5470 | 5470 | 5470 | 5470 | 5130 | 4080 | M30–M64 |
| PA3-450-8-560 | 457.2 | 18 | 48 | 52 | 480 | 18 7/8 | 72 | 130 | 70.4 | 9370 | 9370 | 9370 | 9370 | 7590 | 6130 | 4860 | M42–M80 |
| PA3-450-9-560 | 457.2 | 18 | 56 | 58 | 500 | 19 11/16 | 84 | 140 | 106.2 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 9730 | M42–M80 |
| PA3-450-10-560 | 457.2 | 18 | 64 | 65 | 520 | 20 1/2 | 96 | 160 | 125.0 | 16240 | 16240 | 16240 | 16240 | 16240 | 14160 | 11220 | M42–M80 |
| PA3-450-11-560 | 457.2 | 18 | 72 | 69 | 540 | 21 1/4 | 108 | 180 | 147.3 | 23130 | 23130 | 23130 | 22740 | 18890 | 15500 | 12280 | M42–M80 |
| PA3-450-2-600 | 457.2 | 18 | 16 | 17 | 480 | 18 7/8 | 24 | 80 | 19.5 | 800 | 800 | 800 | 800 | 800 | 770 | 680 | M8–M16 |
| PA3-450-3-600 | 457.2 | 18 | 20 | 20 | 480 | 18 7/8 | 30 | 100 | 33.1 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | M12–M24 |
| PA3-450-4-600 | 457.2 | 18 | 24 | 25 | 480 | 18 7/8 | 36 | 100 | 33.2 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1650 | M12–M36 |
| PA3-450-5-600 | 457.2 | 18 | 30 | 29 | 480 | 18 7/8 | 45 | 90 | 38.4 | 3050 | 3050 | 3050 | 3050 | 3050 | 2870 | 2280 | M12–M36 |
| PA3-450-6-600 | 457.2 | 18 | 36 | 41 | 480 | 18 7/8 | 54 | 100 | 51.6 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | M20–M64 |
| PA3-450-7-600 | 457.2 | 18 | 42 | 45 | 480 | 18 7/8 | 63 | 140 | 73.3 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | 5440 | M30–M64 |
| PA3-450-8-600 | 457.2 | 18 | 48 | 52 | 480 | 18 7/8 | 72 | 120 | 86.8 | 10410 | 10410 | 10410 | 10410 | 10410 | 10410 | 8580 | M42–M80 |
| PA3-450-9-600 | 457.2 | 18 | 56 | 58 | 490 | 19 5/16 | 84 | 140 | 103.4 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | M42–M80 |
| PA3-450-10-600 | 457.2 | 18 | 64 | 65 | 520 | 20 1/2 | 96 | 200 | 154.7 | 16240 | 16240 | 16240 | 16240 | 16240 | 16240 | 14020 | M42–M80 |
| PA3-450-11-600 | 457.2 | 18 | 72 | 69 | 550 | 21 5/8 | 108 | 180 | 184.5 | 24610 | 24610 | 24610 | 24610 | 24610 | 24610 | 21700 | M42–M80 |

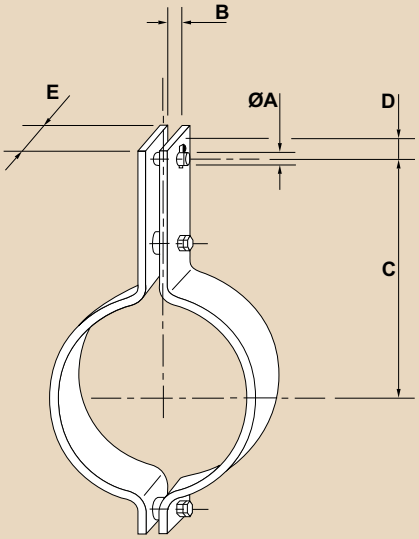
# PA3 PIPE CLAMP THREE BOLT TYPE




*Material: Carbon Steel to 400°C  Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA3-500-2-400 | 508.0 | 20 | 16 | 17 | 470 | 18 1/2 | 24 | 60 | 12.4 | 800 | 800 | | | | | | M8–M16 |
| PA3-500-3-400 | 508.0 | 20 | 20 | 20 | 470 | 18 1/2 | 30 | 55 | 14.6 | 1200 | 1130 | | | | | | M12–M24 |
| PA3-500-4-400 | 508.0 | 20 | 24 | 25 | 470 | 18 1/2 | 36 | 65 | 23.0 | 1750 | 1750 | | | | | | M12–M36 |
| PA3-500-5-400 | 508.0 | 20 | 30 | 29 | 470 | 18 1/2 | 45 | 90 | 32.5 | 2660 | 2660 | | | | | | M12–M36 |
| PA3-500-6-400 | 508.0 | 20 | 36 | 41 | 470 | 18 1/2 | 54 | 110 | 40.8 | 3810 | 3680 | | | | | | M20–M64 |
| PA3-500-7-400 | 508.0 | 20 | 42 | 45 | 470 | 18 1/2 | 63 | 110 | 52.7 | 5470 | 5470 | | | | | | M30–M64 |
| PA3-500-8-400 | 508.0 | 20 | 48 | 52 | 470 | 18 1/2 | 72 | 150 | 71.7 | 7580 | 7580 | | | | | | M42–M80 |
| PA3-500-9-400 | 508.0 | 20 | 56 | 58 | 520 | 20 1/2 | 84 | 150 | 92.7 | 10000 | 10000 | | | | | | M42–M80 |
| PA3-500-10-400 | 508.0 | 20 | 64 | 65 | 560 | 22 1/16 | 96 | 180 | 155.9 | 17240 | 17240 | | | | | | M42–M80 |
| PA3-500-11-400 | 508.0 | 20 | 72 | 69 | 580 | 22 13/16 | 108 | 180 | 164.7 | 21590 | 21390 | | | | | | M42–M80 |
| PA3-500-12-400 | 508.0 | 20 | 80 | 77 | 590 | 23 1/4 | 120 | 200 | 186.3 | 24240 | 24020 | | | | | | M72–M80 |
| PA3-500-2-490 | 508.0 | 20 | 16 | 17 | 480 | 18 7/8 | 24 | 50 | 8.6 | 610 | 610 | 540 | 420 | 270 | 190 | 140 | M8–M16 |
| PA3-500-3-490 | 508.0 | 20 | 20 | 20 | 480 | 18 7/8 | 30 | 80 | 16.8 | 1230 | 1230 | 1120 | 880 | 580 | 410 | 290 | M12–M24 |
| PA3-500-4-490 | 508.0 | 20 | 24 | 25 | 480 | 18 7/8 | 36 | 80 | 21.0 | 1640 | 1640 | 1640 | 1450 | 970 | 680 | 480 | M12–M36 |
| PA3-500-5-490 | 508.0 | 20 | 30 | 29 | 480 | 18 7/8 | 45 | 100 | 35.8 | 2960 | 2960 | 2960 | 2960 | 2140 | 1490 | 1080 | M12–M36 |
| PA3-500-6-490 | 508.0 | 20 | 36 | 41 | 480 | 18 7/8 | 54 | 110 | 40.3 | 3810 | 3810 | 3810 | 3280 | 2260 | 1570 | 1140 | M20–M64 |
| PA3-500-7-490 | 508.0 | 20 | 42 | 45 | 480 | 18 7/8 | 63 | 110 | 51.9 | 5470 | 5470 | 5470 | 4960 | 3590 | 2580 | 1840 | M30–M64 |
| PA3-500-8-490 | 508.0 | 20 | 48 | 52 | 480 | 18 7/8 | 72 | 140 | 66.3 | 7940 | 7940 | 7530 | 6370 | 4620 | 3320 | 2370 | M42–M80 |
| PA3-500-9-490 | 508.0 | 20 | 56 | 58 | 510 | 20 1/16 | 84 | 140 | 84.5 | 10000 | 10000 | 10000 | 8980 | 6810 | 5030 | 3550 | M42–M80 |
| PA3-500-10-490 | 508.0 | 20 | 64 | 65 | 540 | 21 1/4 | 96 | 160 | 132.1 | 14900 | 14900 | 14900 | 14900 | 14900 | 12310 | 8670 | M42–M80 |
| PA3-500-11-490 | 508.0 | 20 | 72 | 69 | 560 | 22 1/16 | 108 | 180 | 155.3 | 21190 | 21190 | 21190 | 21190 | 17410 | 13440 | 9470 | M42–M80 |
| PA3-500-12-490 | 508.0 | 20 | 80 | 77 | 570 | 22 7/16 | 120 | 200 | 179.0 | 26440 | 26440 | 25930 | 23080 | 18920 | 14600 | 10290 | M72–M80 |
| PA3-500-2-530 | 508.0 | 20 | 16 | 17 | 480 | 18 7/8 | 24 | 70 | 14.4 | 760 | 760 | 760 | 760 | 550 | 390 | 280 | M8–M16 |
| PA3-500-3-530 | 508.0 | 20 | 20 | 20 | 480 | 18 7/8 | 30 | 80 | 20.9 | 1320 | 1320 | 1320 | 1320 | 960 | 670 | 470 | M12–M24 |
| PA3-500-4-530 | 508.0 | 20 | 24 | 25 | 480 | 18 7/8 | 36 | 100 | 26.2 | 1640 | 1640 | 1640 | 1640 | 1210 | 840 | 600 | M12–M36 |
| PA3-500-5-530 | 508.0 | 20 | 30 | 29 | 480 | 18 7/8 | 45 | 100 | 35.8 | 2960 | 2960 | 2960 | 2960 | 2140 | 1490 | 1080 | M12–M36 |
| PA3-500-6-530 | 508.0 | 20 | 36 | 41 | 480 | 18 7/8 | 54 | 90 | 41.3 | 3810 | 3810 | 3810 | 3810 | 3070 | 2210 | 1580 | M20–M64 |
| PA3-500-7-530 | 508.0 | 20 | 42 | 45 | 480 | 18 7/8 | 63 | 120 | 56.4 | 5470 | 5470 | 5470 | 5410 | 3920 | 2820 | 2010 | M30–M64 |
| PA3-500-8-530 | 508.0 | 20 | 48 | 52 | 480 | 18 7/8 | 72 | 120 | 68.4 | 8900 | 8900 | 8900 | 7950 | 6030 | 4460 | 3140 | M42–M80 |
| PA3-500-9-530 | 508.0 | 20 | 56 | 58 | 510 | 20 1/16 | 84 | 160 | 95.9 | 10000 | 10000 | 10000 | 10000 | 7780 | 5750 | 4050 | M42–M80 |
| PA3-500-10-530 | 508.0 | 20 | 64 | 65 | 540 | 21 1/4 | 96 | 160 | 132.1 | 14900 | 14900 | 14900 | 14900 | 14900 | 12310 | 8670 | M42–M80 |
| PA3-500-11-530 | 508.0 | 20 | 72 | 69 | 560 | 22 1/16 | 108 | 180 | 155.3 | 21190 | 21190 | 21190 | 21190 | 17410 | 13440 | 9470 | M42–M80 |
| PA3-500-12-530 | 508.0 | 20 | 80 | 77 | 570 | 22 7/16 | 120 | 200 | 179.0 | 26440 | 26440 | 25930 | 23080 | 18920 | 14600 | 10290 | M72–M80 |
| PA3-500-2-560 | 508.0 | 20 | 16 | 17 | 510 | 20 1/16 | 24 | 70 | 14.8 | 760 | 760 | 760 | 760 | 640 | 510 | 400 | M8–M16 |
| PA3-500-3-560 | 508.0 | 20 | 20 | 20 | 510 | 20 1/16 | 30 | 80 | 21.5 | 1320 | 1320 | 1320 | 1320 | 1090 | 860 | 680 | M12–M24 |
| PA3-500-4-560 | 508.0 | 20 | 24 | 25 | 510 | 20 1/16 | 36 | 100 | 36.0 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1490 | M12–M36 |
| PA3-500-5-560 | 508.0 | 20 | 30 | 29 | 510 | 20 1/16 | 45 | 100 | 36.7 | 2960 | 2960 | 2960 | 2960 | 2370 | 1870 | 1500 | M12–M36 |
| PA3-500-6-560 | 508.0 | 20 | 36 | 41 | 510 | 20 1/16 | 54 | 100 | 46.9 | 3810 | 3810 | 3810 | 3810 | 3690 | 2950 | 2350 | M20–M64 |
| PA3-500-7-560 | 508.0 | 20 | 42 | 45 | 510 | 20 1/16 | 63 | 110 | 63.6 | 5470 | 5470 | 5470 | 5470 | 5470 | 4700 | 3730 | M30–M64 |
| PA3-500-8-560 | 508.0 | 20 | 48 | 52 | 510 | 20 1/16 | 72 | 140 | 81.3 | 8900 | 8900 | 8900 | 8900 | 7470 | 6040 | 4790 | M42–M80 |
| PA3-500-9-560 | 508.0 | 20 | 56 | 58 | 520 | 20 1/2 | 84 | 140 | 112.5 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 9310 | M42–M80 |
| PA3-500-10-560 | 508.0 | 20 | 64 | 65 | 540 | 21 1/4 | 96 | 160 | 132.1 | 14900 | 14900 | 14900 | 14900 | 14900 | 13500 | 10730 | M42–M80 |
| PA3-500-11-560 | 508.0 | 20 | 72 | 69 | 560 | 22 1/16 | 108 | 190 | 163.5 | 21190 | 21190 | 21190 | 21190 | 18920 | 15560 | 12370 | M42–M80 |
| PA3-500-12-560 | 508.0 | 20 | 80 | 77 | 570 | 22 7/16 | 120 | 240 | 212.4 | 29180 | 29180 | 29180 | 28000 | 23380 | 19220 | 15280 | M72–M80 |
| PA3-500-2-600 | 508.0 | 20 | 16 | 17 | 510 | 20 1/16 | 24 | 80 | 21.1 | 800 | 800 | 800 | 800 | 800 | 790 | 680 | M8–M16 |
| PA3-500-3-600 | 508.0 | 20 | 20 | 20 | 510 | 20 1/16 | 30 | 100 | 35.9 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | M12–M24 |
| PA3-500-4-600 | 508.0 | 20 | 24 | 25 | 510 | 20 1/16 | 36 | 110 | 39.6 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1640 | M12–M36 |
| PA3-500-5-600 | 508.0 | 20 | 30 | 29 | 510 | 20 1/16 | 45 | 100 | 45.9 | 3050 | 3050 | 3050 | 3050 | 3050 | 3050 | 2440 | M12–M36 |
| PA3-500-6-600 | 508.0 | 20 | 36 | 41 | 510 | 20 1/16 | 54 | 110 | 61.7 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | M20–M64 |
| PA3-500-7-600 | 508.0 | 20 | 42 | 45 | 510 | 20 1/16 | 63 | 160 | 91.5 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | 5430 | M30–M64 |
| PA3-500-8-600 | 508.0 | 20 | 48 | 52 | 510 | 20 1/16 | 72 | 120 | 93.3 | 9830 | 9830 | 9830 | 9830 | 9830 | 9830 | 7930 | M42–M80 |
| PA3-500-9-600 | 508.0 | 20 | 56 | 58 | 520 | 20 1/2 | 84 | 140 | 110.6 | 9760 | 9760 | 9760 | 9760 | 9760 | 9760 | 9670 | M42–M80 |
| PA3-500-10-600 | 508.0 | 20 | 64 | 65 | 540 | 21 1/4 | 96 | 200 | 163.6 | 14900 | 14900 | 14900 | 14900 | 14900 | 14900 | 13410 | M42–M80 |
| PA3-500-11-600 | 508.0 | 20 | 72 | 69 | 580 | 22 13/16 | 108 | 180 | 196.7 | 23020 | 23020 | 23020 | 23020 | 23020 | 23020 | 20110 | M42–M80 |
| PA3-500-12-600 | 508.0 | 20 | 80 | 77 | 580 | 22 13/16 | 120 | 200 | 220.2 | 23080 | 23080 | 23080 | 23080 | 23080 | 23080 | 23080 | M72–M80 |

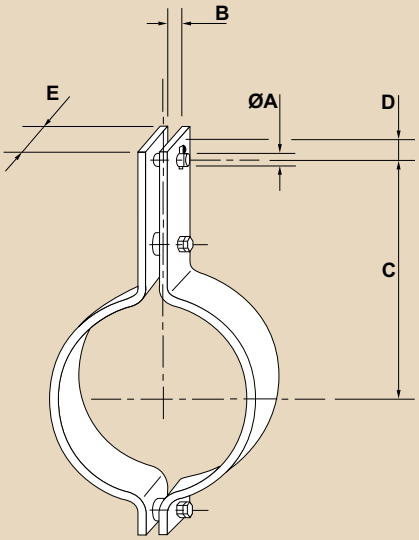
# PA3 PIPE CLAMP THREE BOLT TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA3-550-3-400 | 558.8 | 22 | 20 | 20 | 500 | 19 11/16 | 30 | 55 | 15.7 | 1130 | 1060 | | | | | | M12–M24 |
| PA3-550-4-400 | 558.8 | 22 | 24 | 25 | 500 | 19 11/16 | 36 | 65 | 24.6 | 1650 | 1650 | | | | | | M12–M36 |
| PA3-550-5-400 | 558.8 | 22 | 30 | 29 | 500 | 19 11/16 | 45 | 90 | 34.8 | 2510 | 2510 | | | | | | M12–M36 |
| PA3-550-6-400 | 558.8 | 22 | 36 | 41 | 500 | 19 11/16 | 54 | 110 | 54.3 | 3810 | 3810 | | | | | | M20–M64 |
| PA3-550-7-400 | 558.8 | 22 | 42 | 45 | 500 | 19 11/16 | 63 | 130 | 65.9 | 5470 | 5470 | | | | | | M30–M64 |
| PA3-550-8-400 | 558.8 | 22 | 48 | 52 | 520 | 20 1/2 | 72 | 150 | 94.7 | 10160 | 9870 | | | | | | M42–M80 |
| PA3-550-9-400 | 558.8 | 22 | 56 | 58 | 550 | 21 5/8 | 84 | 150 | 98.5 | 10000 | 9950 | | | | | | M42–M80 |
| PA3-550-10-400 | 558.8 | 22 | 64 | 65 | 590 | 23 1/4 | 96 | 180 | 165.0 | 16090 | 16090 | | | | | | M42–M80 |
| PA3-550-11-400 | 558.8 | 22 | 72 | 69 | 610 | 24 | 108 | 180 | 173.9 | 20280 | 20090 | | | | | | M42–M80 |
| PA3-550-12-400 | 558.8 | 22 | 80 | 77 | 620 | 24 7/16 | 120 | 220 | 214.8 | 23470 | 23470 | | | | | | M72–M80 |
| PA3-550-13-400 | 558.8 | 22 | 80 | 85 | 640 | 25 3/16 | 120 | 200 | 252.3 | 30830 | 30830 | | | | | | M72–M80 |
| PA3-550-3-490 | 558.8 | 22 | 20 | 20 | 510 | 20 1/16 | 30 | 80 | 18.0 | 1170 | 1170 | 1050 | 820 | 540 | 380 | 270 | M12–M24 |
| PA3-550-4-490 | 558.8 | 22 | 24 | 25 | 510 | 20 1/16 | 36 | 100 | 28.5 | 1830 | 1830 | 1830 | 1560 | 1040 | 730 | 520 | M12–M36 |
| PA3-550-5-490 | 558.8 | 22 | 30 | 29 | 510 | 20 1/16 | 45 | 100 | 38.4 | 2790 | 2790 | 2790 | 2790 | 2000 | 1380 | 1000 | M12–M36 |
| PA3-550-6-490 | 558.8 | 22 | 36 | 41 | 510 | 20 1/16 | 54 | 110 | 43.1 | 3810 | 3810 | 3690 | 3070 | 2100 | 1460 | 1060 | M20–M64 |
| PA3-550-7-490 | 558.8 | 22 | 42 | 45 | 510 | 20 1/16 | 63 | 110 | 55.5 | 5470 | 5470 | 5470 | 4650 | 3340 | 2400 | 1710 | M30–M64 |
| PA3-550-8-490 | 558.8 | 22 | 48 | 52 | 510 | 20 1/16 | 72 | 120 | 73.0 | 8340 | 8340 | 8340 | 7460 | 5620 | 4140 | 2920 | M42–M80 |
| PA3-550-9-490 | 558.8 | 22 | 56 | 58 | 530 | 20 7/8 | 84 | 140 | 89.2 | 10000 | 10000 | 9850 | 8420 | 6340 | 4670 | 3290 | M42–M80 |
| PA3-550-10-490 | 558.8 | 22 | 64 | 65 | 580 | 22 13/16 | 96 | 160 | 144.1 | 19620 | 19620 | 19210 | 17050 | 13900 | 10700 | 7500 | M42–M80 |
| PA3-550-11-490 | 558.8 | 22 | 72 | 69 | 590 | 23 1/4 | 108 | 180 | 165.0 | 20230 | 20230 | 20230 | 19270 | 15700 | 12090 | 8470 | M42–M80 |
| PA3-550-12-490 | 558.8 | 22 | 80 | 77 | 600 | 23 5/8 | 120 | 200 | 189.8 | 24110 | 24110 | 23610 | 20960 | 17080 | 13150 | 9210 | M72–M80 |
| PA3-550-13-490 | 558.8 | 22 | 80 | 85 | 630 | 24 13/16 | 120 | 200 | 244.6 | 30830 | 30830 | 30830 | 30830 | 29060 | 23400 | 17390 | M72–M80 |
| PA3-550-3-530 | 558.8 | 22 | 20 | 20 | 510 | 20 1/16 | 30 | 80 | 22.5 | 1320 | 1320 | 1320 | 1320 | 890 | 620 | 440 | M12–M24 |
| PA3-550-4-530 | 558.8 | 22 | 24 | 25 | 510 | 20 1/16 | 36 | 100 | 38.0 | 1830 | 1830 | 1830 | 1830 | 1830 | 1380 | 1000 | M12–M36 |
| PA3-550-5-530 | 558.8 | 22 | 30 | 29 | 510 | 20 1/16 | 45 | 100 | 38.4 | 2790 | 2790 | 2790 | 2790 | 2000 | 1380 | 1000 | M12–M36 |
| PA3-550-6-530 | 558.8 | 22 | 36 | 41 | 510 | 20 1/16 | 54 | 90 | 44.2 | 3810 | 3810 | 3810 | 3810 | 2860 | 2050 | 1470 | M20–M64 |
| PA3-550-7-530 | 558.8 | 22 | 42 | 45 | 510 | 20 1/16 | 63 | 130 | 65.1 | 5470 | 5470 | 5470 | 5470 | 3950 | 2830 | 2020 | M30–M64 |
| PA3-550-8-530 | 558.8 | 22 | 48 | 52 | 510 | 20 1/16 | 72 | 120 | 73.0 | 8340 | 8340 | 8340 | 7460 | 5620 | 4140 | 2920 | M42–M80 |
| PA3-550-9-530 | 558.8 | 22 | 56 | 58 | 550 | 21 5/8 | 84 | 140 | 120.1 | 10000 | 10000 | 10000 | 10000 | 10000 | 9600 | 6730 | M42–M80 |
| PA3-550-10-530 | 558.8 | 22 | 64 | 65 | 570 | 22 7/16 | 96 | 160 | 140.8 | 14260 | 14260 | 14260 | 14260 | 14260 | 11060 | 7750 | M42–M80 |
| PA3-550-11-530 | 558.8 | 22 | 72 | 69 | 590 | 23 1/4 | 108 | 180 | 165.0 | 20230 | 20230 | 20230 | 19270 | 15700 | 12090 | 8470 | M42–M80 |
| PA3-550-12-530 | 558.8 | 22 | 80 | 77 | 600 | 23 1/4 | 120 | 220 | 207.6 | 26520 | 26520 | 25970 | 23050 | 18790 | 14460 | 10140 | M72–M80 |
| PA3-550-13-530 | 558.8 | 22 | 80 | 85 | 630 | 24 13/16 | 120 | 200 | 244.6 | 30830 | 30830 | 30830 | 30830 | 29060 | 23400 | 17390 | M72–M80 |
| PA3-550-3-560 | 558.8 | 22 | 20 | 20 | 540 | 21 1/4 | 30 | 80 | 23.0 | 1320 | 1320 | 1320 | 1320 | 1020 | 810 | 640 | M12–M24 |
| PA3-550-4-560 | 558.8 | 22 | 24 | 25 | 540 | 21 1/4 | 36 | 100 | 38.6 | 1770 | 1770 | 1770 | 1770 | 1770 | 1740 | 1390 | M12–M36 |
| PA3-550-5-560 | 558.8 | 22 | 30 | 29 | 540 | 21 1/4 | 45 | 110 | 43.2 | 2790 | 2790 | 2790 | 2790 | 2440 | 1930 | 1540 | M12–M36 |
| PA3-550-6-560 | 558.8 | 22 | 36 | 41 | 540 | 21 1/4 | 54 | 110 | 55.0 | 3810 | 3810 | 3810 | 3810 | 3790 | 3030 | 2420 | M20–M64 |
| PA3-550-7-560 | 558.8 | 22 | 42 | 45 | 540 | 21 1/4 | 63 | 110 | 67.9 | 5470 | 5470 | 5470 | 5470 | 5430 | 4390 | 3490 | M30–M64 |
| PA3-550-8-560 | 558.8 | 22 | 48 | 52 | 540 | 21 1/4 | 72 | 150 | 92.7 | 8340 | 8340 | 8340 | 8340 | 7480 | 6040 | 4800 | M42–M80 |
| PA3-550-9-560 | 558.8 | 22 | 56 | 58 | 550 | 21 5/8 | 84 | 140 | 120.1 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 8380 | M42–M80 |
| PA3-550-10-560 | 558.8 | 22 | 64 | 65 | 570 | 22 7/16 | 96 | 160 | 140.8 | 14260 | 14260 | 14260 | 14260 | 14260 | 12170 | 9650 | M42–M80 |
| PA3-550-11-560 | 558.8 | 22 | 72 | 69 | 590 | 23 1/4 | 108 | 200 | 182.4 | 20230 | 20230 | 20230 | 20230 | 18010 | 14790 | 11730 | M42–M80 |
| PA3-550-12-560 | 558.8 | 22 | 80 | 77 | 620 | 24 7/16 | 120 | 200 | 238.5 | 29380 | 29380 | 29380 | 29380 | 29380 | 25210 | 20440 | M72–M80 |
| PA3-550-13-560 | 558.8 | 22 | 80 | 85 | 630 | 24 13/16 | 120 | 200 | 244.6 | 30830 | 30830 | 30830 | 30830 | 29410 | 24760 | 20070 | M72–M80 |
| PA3-550-3-600 | 558.8 | 22 | 20 | 20 | 540 | 21 1/4 | 30 | 100 | 38.4 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | M12–M24 |
| PA3-550-4-600 | 558.8 | 22 | 24 | 25 | 540 | 21 1/4 | 36 | 90 | 43.5 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | M12–M36 |
| PA3-550-5-600 | 558.8 | 22 | 30 | 29 | 540 | 21 1/4 | 45 | 100 | 49.1 | 3000 | 3000 | 3000 | 3000 | 3000 | 2870 | 2290 | M12–M36 |
| PA3-550-6-600 | 558.8 | 22 | 36 | 41 | 540 | 21 1/4 | 54 | 120 | 71.8 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | M20–M64 |
| PA3-550-7-600 | 558.8 | 22 | 42 | 45 | 540 | 21 1/4 | 63 | 120 | 98.5 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | M30–M64 |
| PA3-550-8-600 | 558.8 | 22 | 48 | 52 | 540 | 21 1/4 | 72 | 130 | 107.5 | 9210 | 9210 | 9210 | 9210 | 9210 | 9210 | 8020 | M42–M80 |
| PA3-550-9-600 | 558.8 | 22 | 56 | 58 | 550 | 21 5/8 | 84 | 170 | 144.8 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | M42–M80 |
| PA3-550-10-600 | 558.8 | 22 | 64 | 65 | 590 | 23 1/4 | 96 | 180 | 199.3 | 15150 | 15150 | 15150 | 15150 | 15150 | 15150 | 15150 | M42–M80 |
| PA3-550-11-600 | 558.8 | 22 | 72 | 69 | 610 | 24 | 108 | 180 | 208.0 | 21450 | 21450 | 21450 | 21450 | 21450 | 21450 | 18770 | M42–M80 |
| PA3-550-12-600 | 558.8 | 22 | 80 | 77 | 620 | 24 7/16 | 120 | 230 | 272.5 | 29380 | 29380 | 29380 | 29380 | 29380 | 29000 | 23500 | M72–M80 |
| PA3-550-13-600 | 558.8 | 22 | 80 | 85 | 620 | 24 7/16 | 120 | 280 | 328.5 | 30030 | 30030 | 30030 | 30030 | 30030 | 30030 | 28840 | M72–M80 |

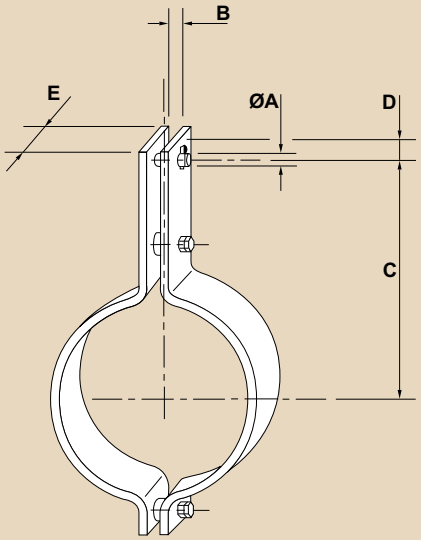
# PA3 PIPE CLAMP THREE BOLT TYPE




*Material: Carbon Steel to 400°C  Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA3-600-3-400 | 609.6 | 24 | 20 | 20 | 520 | 20 1/2 | 30 | 65 | 26.1 | 1320 | 1320 | | | | | | M12–M24 |
| PA3-600-4-400 | 609.6 | 24 | 24 | 25 | 520 | 20 1/2 | 36 | 65 | 26.3 | 1620 | 1620 | | | | | | M12–M36 |
| PA3-600-5-400 | 609.6 | 24 | 30 | 29 | 520 | 20 1/2 | 45 | 90 | 36.9 | 2360 | 2360 | | | | | | M12–M36 |
| PA3-600-6-400 | 609.6 | 24 | 36 | 41 | 520 | 20 1/2 | 54 | 110 | 57.7 | 3810 | 3810 | | | | | | M20–M64 |
| PA3-600-7-400 | 609.6 | 24 | 42 | 45 | 520 | 20 1/2 | 63 | 130 | 69.9 | 5470 | 5470 | | | | | | M30–M64 |
| PA3-600-8-400 | 609.6 | 24 | 48 | 52 | 550 | 21 5/8 | 72 | 150 | 100.9 | 9320 | 9080 | | | | | | M42–M80 |
| PA3-600-9-400 | 609.6 | 24 | 56 | 58 | 600 | 23 5/8 | 84 | 150 | 140.6 | 10000 | 10000 | | | | | | M42–M80 |
| PA3-600-10-400 | 609.6 | 24 | 64 | 65 | 610 | 24 | 96 | 180 | 173.2 | 15020 | 15020 | | | | | | M42–M80 |
| PA3-600-11-400 | 609.6 | 24 | 72 | 69 | 640 | 25 3/16 | 108 | 180 | 183.8 | 18700 | 18540 | | | | | | M42–M80 |
| PA3-600-12-400 | 609.6 | 24 | 80 | 77 | 670 | 26 3/8 | 120 | 200 | 265.9 | 31290 | 31150 | | | | | | M72–M80 |
| PA3-600-13-400 | 609.6 | 24 | 80 | 85 | 670 | 26 3/8 | 120 | 200 | 265.8 | 30830 | 30830 | | | | | | M72–M80 |
| PA3-600-3-490 | 609.6 | 24 | 20 | 20 | 540 | 21 1/4 | 30 | 80 | 19.3 | 1130 | 1130 | 1020 | 810 | 530 | 370 | 270 | M12–M24 |
| PA3-600-4-490 | 609.6 | 24 | 24 | 25 | 540 | 21 1/4 | 36 | 100 | 30.5 | 1830 | 1830 | 1830 | 1530 | 1020 | 710 | 510 | M12–M36 |
| PA3-600-5-490 | 609.6 | 24 | 30 | 29 | 540 | 21 1/4 | 45 | 100 | 41.2 | 2730 | 2730 | 2730 | 2650 | 1830 | 1280 | 930 | M12–M36 |
| PA3-600-6-490 | 609.6 | 24 | 36 | 41 | 540 | 21 1/4 | 54 | 90 | 47.1 | 3810 | 3810 | 3810 | 3810 | 2790 | 2010 | 1440 | M20–M64 |
| PA3-600-7-490 | 609.6 | 24 | 42 | 45 | 540 | 21 1/4 | 63 | 120 | 64.2 | 5470 | 5470 | 5470 | 4880 | 3550 | 2560 | 1830 | M30–M64 |
| PA3-600-8-490 | 609.6 | 24 | 48 | 52 | 540 | 21 1/4 | 72 | 120 | 79.4 | 7970 | 7970 | 7690 | 6600 | 5020 | 3720 | 2620 | M42–M80 |
| PA3-600-9-490 | 609.6 | 24 | 56 | 58 | 560 | 22 1/16 | 84 | 150 | 101.1 | 10000 | 10000 | 10000 | 8650 | 6580 | 4880 | 3430 | M42–M80 |
| PA3-600-10-490 | 609.6 | 24 | 64 | 65 | 610 | 24 | 96 | 160 | 152.3 | 18660 | 18660 | 18310 | 16320 | 13410 | 10370 | 7330 | M42–M80 |
| PA3-600-11-490 | 609.6 | 24 | 72 | 69 | 620 | 24 7/16 | 108 | 180 | 174.3 | 18880 | 18880 | 18880 | 18430 | 15160 | 11720 | 8280 | M42–M80 |
| PA3-600-12-490 | 609.6 | 24 | 80 | 77 | 630 | 24 13/16 | 120 | 210 | 209.6 | 24030 | 24030 | 23570 | 21010 | 17280 | 13360 | 9440 | M72–M80 |
| PA3-600-13-490 | 609.6 | 24 | 80 | 85 | 660 | 26 | 120 | 200 | 258.1 | 30830 | 30830 | 30830 | 30830 | 27050 | 22000 | 16440 | M72–M80 |
| PA3-600-3-530 | 609.6 | 24 | 20 | 20 | 540 | 21 1/4 | 30 | 80 | 24.1 | 1320 | 1320 | 1320 | 1210 | 810 | 570 | 400 | M12–M24 |
| PA3-600-4-530 | 609.6 | 24 | 24 | 25 | 540 | 21 1/4 | 36 | 100 | 40.8 | 1830 | 1830 | 1830 | 1830 | 1820 | 1270 | 920 | M12–M36 |
| PA3-600-5-530 | 609.6 | 24 | 30 | 29 | 540 | 21 1/4 | 45 | 100 | 41.2 | 2730 | 2730 | 2730 | 2650 | 1830 | 1280 | 930 | M12–M36 |
| PA3-600-6-530 | 609.6 | 24 | 36 | 41 | 540 | 21 1/4 | 54 | 90 | 47.1 | 3810 | 3810 | 3810 | 3810 | 2790 | 2010 | 1440 | M20–M64 |
| PA3-600-7-530 | 609.6 | 24 | 42 | 45 | 540 | 21 1/4 | 63 | 110 | 70.9 | 5470 | 5470 | 5470 | 5470 | 4750 | 3520 | 2480 | M30–M64 |
| PA3-600-8-530 | 609.6 | 24 | 48 | 52 | 540 | 21 1/4 | 72 | 130 | 84.0 | 7810 | 7810 | 7810 | 7770 | 5910 | 4380 | 3080 | M42–M80 |
| PA3-600-9-530 | 609.6 | 24 | 56 | 58 | 580 | 22 13/16 | 84 | 140 | 127.3 | 10000 | 10000 | 10000 | 10000 | 10000 | 9320 | 6590 | M42–M80 |
| PA3-600-10-530 | 609.6 | 24 | 64 | 65 | 610 | 24 | 96 | 160 | 152.3 | 18660 | 18660 | 18310 | 16320 | 13410 | 10370 | 7330 | M42–M80 |
| PA3-600-11-530 | 609.6 | 24 | 72 | 69 | 620 | 24 7/16 | 108 | 180 | 174.3 | 18880 | 18880 | 18880 | 18430 | 15160 | 11720 | 8280 | M42–M80 |
| PA3-600-12-530 | 609.6 | 24 | 80 | 77 | 630 | 24 13/16 | 120 | 240 | 237.8 | 25880 | 25880 | 25880 | 24020 | 19740 | 15260 | 10790 | M72–M80 |
| PA3-600-13-530 | 609.6 | 24 | 80 | 85 | 660 | 26 | 120 | 200 | 258.1 | 30830 | 30830 | 30830 | 30830 | 27050 | 22000 | 16440 | M72–M80 |
| PA3-600-3-560 | 609.6 | 24 | 20 | 20 | 560 | 22 1/16 | 30 | 100 | 30.6 | 1320 | 1320 | 1320 | 1320 | 1150 | 910 | 720 | M12–M24 |
| PA3-600-4-560 | 609.6 | 24 | 24 | 25 | 560 | 22 1/16 | 36 | 100 | 40.9 | 1660 | 1660 | 1660 | 1660 | 1660 | 1650 | 1360 | M12–M36 |
| PA3-600-5-560 | 609.6 | 24 | 30 | 29 | 560 | 22 1/16 | 45 | 90 | 47.0 | 2920 | 2920 | 2920 | 2920 | 2920 | 2380 | 1890 | M12–M36 |
| PA3-600-6-560 | 609.6 | 24 | 36 | 41 | 560 | 22 1/16 | 54 | 110 | 58.2 | 3810 | 3810 | 3810 | 3810 | 3680 | 2950 | 2350 | M20–M64 |
| PA3-600-7-560 | 609.6 | 24 | 42 | 45 | 560 | 22 1/16 | 63 | 120 | 78.3 | 5470 | 5470 | 5470 | 5470 | 5470 | 4450 | 3530 | M30–M64 |
| PA3-600-8-560 | 609.6 | 24 | 48 | 52 | 560 | 22 1/16 | 72 | 160 | 104.2 | 7810 | 7810 | 7810 | 7810 | 7710 | 6250 | 4950 | M42–M80 |
| PA3-600-9-560 | 609.6 | 24 | 56 | 58 | 580 | 22 13/16 | 84 | 140 | 127.3 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 8120 | M42–M80 |
| PA3-600-10-560 | 609.6 | 24 | 64 | 65 | 610 | 24 | 96 | 160 | 152.3 | 18660 | 18660 | 18310 | 16500 | 13800 | 11350 | 9030 | M42–M80 |
| PA3-600-11-560 | 609.6 | 24 | 72 | 69 | 620 | 24 7/16 | 108 | 210 | 201.9 | 18880 | 18880 | 18880 | 18880 | 18190 | 14960 | 11910 | M42–M80 |
| PA3-600-12-560 | 609.6 | 24 | 80 | 77 | 650 | 25 9/16 | 120 | 200 | 252.0 | 27920 | 27920 | 27920 | 27920 | 27880 | 23610 | 19170 | M72–M80 |
| PA3-600-13-560 | 609.6 | 24 | 80 | 85 | 660 | 26 | 120 | 210 | 270.3 | 30830 | 30830 | 30830 | 30830 | 28750 | 24340 | 19770 | M72–M80 |
| PA3-600-3-600 | 609.6 | 24 | 20 | 20 | 560 | 22 1/16 | 30 | 100 | 40.8 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | M12–M24 |
| PA3-600-4-600 | 609.6 | 24 | 24 | 25 | 560 | 22 1/16 | 36 | 90 | 46.1 | 1780 | 1780 | 1780 | 1780 | 1780 | 1780 | 1780 | M12–M36 |
| PA3-600-5-600 | 609.6 | 24 | 30 | 29 | 560 | 22 1/16 | 45 | 110 | 57.3 | 2920 | 2920 | 2920 | 2920 | 2920 | 2900 | 2310 | M12–M36 |
| PA3-600-6-600 | 609.6 | 24 | 36 | 41 | 560 | 22 1/16 | 54 | 120 | 76.0 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | M20–M64 |
| PA3-600-7-600 | 609.6 | 24 | 42 | 45 | 560 | 22 1/16 | 63 | 120 | 104.4 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | M30–M64 |
| PA3-600-8-600 | 609.6 | 24 | 48 | 52 | 560 | 22 1/16 | 72 | 130 | 113.5 | 8620 | 8620 | 8620 | 8620 | 8620 | 8620 | 7780 | M42–M80 |
| PA3-600-9-600 | 609.6 | 24 | 56 | 58 | 580 | 22 13/16 | 84 | 170 | 153.6 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 9860 | M42–M80 |
| PA3-600-10-600 | 609.6 | 24 | 64 | 65 | 630 | 24 13/16 | 96 | 180 | 215.8 | 20230 | 20230 | 20230 | 20230 | 20230 | 20230 | 17540 | M42–M80 |
| PA3-600-11-600 | 609.6 | 24 | 72 | 69 | 640 | 25 3/16 | 108 | 190 | 232.0 | 20430 | 20430 | 20430 | 20430 | 20430 | 20430 | 18580 | M42–M80 |
| PA3-600-12-600 | 609.6 | 24 | 80 | 77 | 650 | 25 9/16 | 120 | 250 | 312.0 | 27920 | 27920 | 27920 | 27920 | 27920 | 27920 | 23960 | M72–M80 |
| PA3-600-13-600 | 609.6 | 24 | 80 | 85 | 660 | 26 | 120 | 300 | 379.8 | 30830 | 30830 | 30830 | 30830 | 30830 | 30830 | 28240 | M72–M80 |

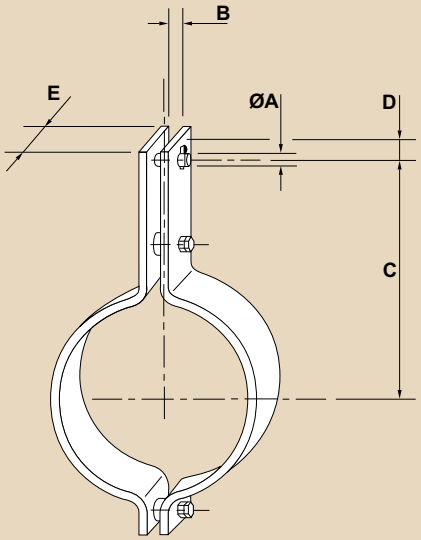
# PA3 PIPE CLAMP THREE BOLT TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA3-650-3-400 | 660.4 | 26 | 20 | 20 | 560 | 22 1/16 | 30 | 65 | 28.0 | 1320 | 1320 | | | | | | M12–M24 |
| PA3-650-4-400 | 660.4 | 26 | 24 | 25 | 560 | 22 1/16 | 36 | 65 | 28.6 | 1830 | 1820 | | | | | | M12–M36 |
| PA3-650-5-400 | 660.4 | 26 | 30 | 29 | 560 | 22 1/16 | 45 | 90 | 39.7 | 2340 | 2340 | | | | | | M12–M36 |
| PA3-650-6-400 | 660.4 | 26 | 36 | 41 | 560 | 22 1/16 | 54 | 110 | 61.7 | 3810 | 3810 | | | | | | M20–M64 |
| PA3-650-7-400 | 660.4 | 26 | 42 | 45 | 560 | 22 1/16 | 63 | 150 | 85.7 | 5470 | 5470 | | | | | | M30–M64 |
| PA3-650-8-400 | 660.4 | 26 | 48 | 52 | 570 | 22 7/16 | 72 | 150 | 106.0 | 8870 | 8620 | | | | | | M42–M80 |
| PA3-650-9-400 | 660.4 | 26 | 56 | 58 | 620 | 24 7/16 | 84 | 150 | 147.4 | 10000 | 10000 | | | | | | M42–M80 |
| PA3-650-10-400 | 660.4 | 26 | 64 | 65 | 640 | 25 3/16 | 96 | 180 | 183.0 | 14530 | 14530 | | | | | | M42–M80 |
| PA3-650-11-400 | 660.4 | 26 | 72 | 69 | 660 | 26 | 108 | 200 | 211.9 | 19740 | 19550 | | | | | | M42–M80 |
| PA3-650-12-400 | 660.4 | 26 | 80 | 77 | 700 | 27 9/16 | 120 | 200 | 278.6 | 29700 | 29560 | | | | | | M72–M80 |
| PA3-650-13-400 | 660.4 | 26 | 80 | 85 | 700 | 27 9/16 | 120 | 200 | 278.4 | 29940 | 29800 | | | | | | M72–M80 |
| PA3-650-3-490 | 660.4 | 26 | 20 | 20 | 590 | 23 1/4 | 30 | 80 | 26.1 | 1320 | 1320 | 1320 | 1140 | 760 | 530 | 380 | M12–M24 |
| PA3-650-4-490 | 660.4 | 26 | 24 | 25 | 590 | 23 1/4 | 36 | 100 | 33.0 | 1830 | 1830 | 1800 | 1440 | 960 | 670 | 480 | M12–M36 |
| PA3-650-5-490 | 660.4 | 26 | 30 | 29 | 590 | 23 1/4 | 45 | 100 | 44.4 | 2600 | 2600 | 2600 | 2520 | 1730 | 1200 | 870 | M12–M36 |
| PA3-650-6-490 | 660.4 | 26 | 36 | 41 | 590 | 23 1/4 | 54 | 90 | 50.8 | 3810 | 3810 | 3810 | 3640 | 2630 | 1890 | 1350 | M20–M64 |
| PA3-650-7-490 | 660.4 | 26 | 42 | 45 | 590 | 23 1/4 | 63 | 130 | 74.9 | 5470 | 5470 | 5470 | 4780 | 3450 | 2480 | 1770 | M30–M64 |
| PA3-650-8-490 | 660.4 | 26 | 48 | 52 | 590 | 23 1/4 | 72 | 130 | 92.0 | 8220 | 8220 | 7910 | 6770 | 5120 | 3780 | 2660 | M42–M80 |
| PA3-650-9-490 | 660.4 | 26 | 56 | 58 | 590 | 23 1/4 | 84 | 160 | 114.1 | 10000 | 10000 | 9810 | 8400 | 6340 | 4680 | 3300 | M42–M80 |
| PA3-650-10-490 | 660.4 | 26 | 64 | 65 | 640 | 25 3/16 | 96 | 160 | 161.1 | 17180 | 17180 | 16840 | 14960 | 12230 | 9430 | 6630 | M42–M80 |
| PA3-650-11-490 | 660.4 | 26 | 72 | 69 | 650 | 25 9/16 | 108 | 180 | 186.9 | 18830 | 18830 | 18450 | 16400 | 13400 | 10330 | 7260 | M42–M80 |
| PA3-650-12-490 | 660.4 | 26 | 80 | 77 | 650 | 25 9/16 | 120 | 220 | 228.8 | 23920 | 23920 | 23440 | 20830 | 17030 | 13130 | 9230 | M72–M80 |
| PA3-650-13-490 | 660.4 | 26 | 80 | 85 | 690 | 27 3/16 | 120 | 200 | 270.7 | 30830 | 30830 | 30830 | 29420 | 25570 | 20660 | 15380 | M72–M80 |
| PA3-650-3-530 | 660.4 | 26 | 20 | 20 | 590 | 23 1/4 | 30 | 80 | 26.1 | 1320 | 1320 | 1320 | 1140 | 760 | 530 | 380 | M12–M24 |
| PA3-650-4-530 | 660.4 | 26 | 24 | 25 | 590 | 23 1/4 | 36 | 100 | 43.5 | 1580 | 1580 | 1580 | 1580 | 1580 | 1270 | 920 | M12–M36 |
| PA3-650-5-530 | 660.4 | 26 | 30 | 29 | 590 | 23 1/4 | 45 | 100 | 44.4 | 2600 | 2600 | 2600 | 2520 | 1730 | 1200 | 870 | M12–M36 |
| PA3-650-6-530 | 660.4 | 26 | 36 | 41 | 590 | 23 1/4 | 54 | 100 | 56.3 | 3810 | 3810 | 3810 | 3810 | 2920 | 2100 | 1500 | M20–M64 |
| PA3-650-7-530 | 660.4 | 26 | 42 | 45 | 590 | 23 1/4 | 63 | 110 | 76.2 | 5470 | 5470 | 5470 | 5470 | 4470 | 3300 | 2330 | M30–M64 |
| PA3-650-8-530 | 660.4 | 26 | 48 | 52 | 590 | 23 1/4 | 72 | 140 | 97.3 | 7630 | 7630 | 7630 | 7600 | 5740 | 4240 | 2990 | M42–M80 |
| PA3-650-9-530 | 660.4 | 26 | 56 | 58 | 610 | 24 | 84 | 140 | 135.0 | 10000 | 10000 | 10000 | 10000 | 10000 | 8460 | 5950 | M42–M80 |
| PA3-650-10-530 | 660.4 | 26 | 64 | 65 | 640 | 25 3/16 | 96 | 160 | 161.1 | 17180 | 17180 | 16840 | 14960 | 12230 | 9430 | 6630 | M42–M80 |
| PA3-650-11-530 | 660.4 | 26 | 72 | 69 | 650 | 25 9/16 | 108 | 200 | 206.6 | 20920 | 20920 | 20500 | 18220 | 14890 | 11480 | 8070 | M42–M80 |
| PA3-650-12-530 | 660.4 | 26 | 80 | 77 | 670 | 26 3/8 | 120 | 200 | 263.2 | 26340 | 26340 | 26340 | 26340 | 26070 | 21070 | 15680 | M72–M80 |
| PA3-650-13-530 | 660.4 | 26 | 80 | 85 | 690 | 27 3/16 | 120 | 200 | 270.7 | 30830 | 30830 | 30830 | 29420 | 25570 | 20660 | 15380 | M72–M80 |
| PA3-650-3-560 | 660.4 | 26 | 20 | 20 | 610 | 24 | 30 | 100 | 33.0 | 1320 | 1320 | 1320 | 1320 | 1090 | 860 | 680 | M12–M24 |
| PA3-650-4-560 | 660.4 | 26 | 24 | 25 | 610 | 24 | 36 | 100 | 44.2 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1280 | M12–M36 |
| PA3-650-5-560 | 660.4 | 26 | 30 | 29 | 610 | 24 | 45 | 90 | 50.7 | 2780 | 2780 | 2780 | 2780 | 2780 | 2240 | 1790 | M12–M36 |
| PA3-650-6-560 | 660.4 | 26 | 36 | 41 | 610 | 24 | 54 | 120 | 68.2 | 3810 | 3810 | 3810 | 3810 | 3790 | 3040 | 2420 | M20–M64 |
| PA3-650-7-560 | 660.4 | 26 | 42 | 45 | 610 | 24 | 63 | 130 | 90.9 | 5470 | 5470 | 5470 | 5470 | 5470 | 4540 | 3600 | M30–M64 |
| PA3-650-8-560 | 660.4 | 26 | 48 | 52 | 610 | 24 | 72 | 120 | 113.0 | 8380 | 8380 | 8380 | 8380 | 8380 | 8210 | 6520 | M42–M80 |
| PA3-650-9-560 | 660.4 | 26 | 56 | 58 | 610 | 24 | 84 | 140 | 135.0 | 10000 | 10000 | 10000 | 10000 | 10000 | 9300 | 7380 | M42–M80 |
| PA3-650-10-560 | 660.4 | 26 | 64 | 65 | 640 | 25 3/16 | 96 | 170 | 170.7 | 18090 | 18090 | 17890 | 16080 | 13400 | 11010 | 8740 | M42–M80 |
| PA3-650-11-560 | 660.4 | 26 | 72 | 69 | 670 | 26 3/8 | 108 | 180 | 234.7 | 25850 | 25850 | 25850 | 25850 | 23580 | 19890 | 16130 | M42–M80 |
| PA3-650-12-560 | 660.4 | 26 | 80 | 77 | 670 | 26 3/8 | 120 | 200 | 263.2 | 26340 | 26340 | 26340 | 26340 | 26340 | 22260 | 18050 | M72–M80 |
| PA3-650-13-560 | 660.4 | 26 | 80 | 85 | 690 | 27 3/16 | 120 | 220 | 296.3 | 30830 | 30830 | 30830 | 30830 | 28470 | 24020 | 19480 | M72–M80 |
| PA3-650-3-600 | 660.4 | 26 | 20 | 20 | 610 | 24 | 30 | 100 | 44.0 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1270 | M12–M24 |
| PA3-650-4-600 | 660.4 | 26 | 24 | 25 | 610 | 24 | 36 | 90 | 49.8 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 | M12–M36 |
| PA3-650-5-600 | 660.4 | 26 | 30 | 29 | 610 | 24 | 45 | 120 | 67.3 | 2780 | 2780 | 2780 | 2780 | 2780 | 2780 | 2380 | M12–M36 |
| PA3-650-6-600 | 660.4 | 26 | 36 | 41 | 610 | 24 | 54 | 130 | 88.8 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | 3750 | M20–M64 |
| PA3-650-7-600 | 660.4 | 26 | 42 | 45 | 610 | 24 | 63 | 120 | 112.0 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | M30–M64 |
| PA3-650-8-600 | 660.4 | 26 | 48 | 52 | 610 | 24 | 72 | 140 | 131.3 | 8380 | 8380 | 8380 | 8380 | 8380 | 8380 | 7600 | M42–M80 |
| PA3-650-9-600 | 660.4 | 26 | 56 | 58 | 610 | 24 | 84 | 190 | 181.5 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | M42–M80 |
| PA3-650-10-600 | 660.4 | 26 | 64 | 65 | 650 | 25 9/16 | 96 | 180 | 225.8 | 19130 | 19130 | 19130 | 19130 | 19130 | 19130 | 16540 | M42–M80 |
| PA3-650-11-600 | 660.4 | 26 | 72 | 69 | 660 | 26 | 108 | 200 | 254.8 | 19310 | 19310 | 19310 | 19310 | 19310 | 19310 | 18440 | M42–M80 |
| PA3-650-12-600 | 660.4 | 26 | 80 | 77 | 670 | 26 3/8 | 120 | 260 | 338.5 | 26340 | 26340 | 26340 | 26340 | 26340 | 26340 | 23470 | M72–M80 |
| PA3-650-13-600 | 660.4 | 26 | 80 | 85 | 690 | 27 3/16 | 120 | 320 | 424.3 | 30830 | 30830 | 30830 | 30830 | 30830 | 30830 | 28330 | M72–M80 |

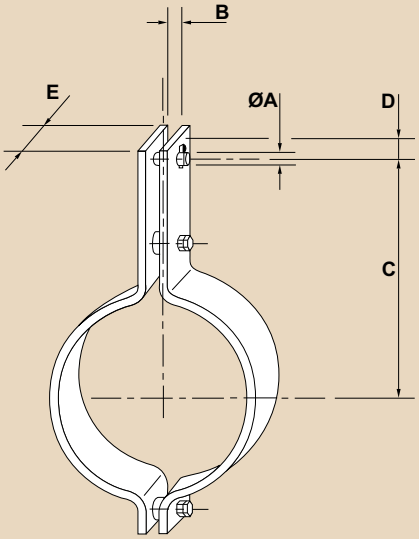
# PA3 PIPE CLAMP THREE BOLT TYPE




*Material: Carbon Steel to 400°C  Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA3-700-3-400 | 711.2 | 28 | 20 | 20 | 590 | 23 1/4 | 30 | 65 | 29.7 | 1320 | 1320 | | | | | | M12–M24 |
| PA3-700-4-400 | 711.2 | 28 | 24 | 25 | 590 | 23 1/4 | 36 | 65 | 30.2 | 1830 | 1740 | | | | | | M12–M36 |
| PA3-700-5-400 | 711.2 | 28 | 30 | 29 | 590 | 23 1/4 | 45 | 90 | 42.8 | 2420 | 2300 | | | | | | M12–M36 |
| PA3-700-6-400 | 711.2 | 28 | 36 | 41 | 590 | 23 1/4 | 54 | 110 | 65.3 | 3810 | 3810 | | | | | | M20–M64 |
| PA3-700-7-400 | 711.2 | 28 | 42 | 45 | 590 | 23 1/4 | 63 | 150 | 90.6 | 5470 | 5470 | | | | | | M30–M64 |
| PA3-700-8-400 | 711.2 | 28 | 48 | 52 | 600 | 23 5/8 | 72 | 150 | 111.8 | 8470 | 8220 | | | | | | M42–M80 |
| PA3-700-9-400 | 711.2 | 28 | 56 | 58 | 650 | 25 9/16 | 84 | 150 | 157.4 | 10000 | 10000 | | | | | | M42–M80 |
| PA3-700-10-400 | 711.2 | 28 | 64 | 65 | 670 | 26 3/8 | 96 | 180 | 192.2 | 13810 | 13810 | | | | | | M42–M80 |
| PA3-700-11-400 | 711.2 | 28 | 72 | 69 | 690 | 27 3/16 | 108 | 200 | 222.1 | 18830 | 18650 | | | | | | M42–M80 |
| PA3-700-12-400 | 711.2 | 28 | 80 | 77 | 730 | 28 3/4 | 120 | 200 | 292.1 | 27670 | 27530 | | | | | | M72–M80 |
| PA3-700-13-400 | 711.2 | 28 | 80 | 85 | 740 | 29 1/8 | 120 | 220 | 327.3 | 30000 | 29850 | | | | | | M72–M80 |
| PA3-700-3-490 | 711.2 | 28 | 20 | 20 | 610 | 24 | 30 | 80 | 27.5 | 1320 | 1320 | 1320 | 1090 | 720 | 500 | 360 | M12–M24 |
| PA3-700-4-490 | 711.2 | 28 | 24 | 25 | 610 | 24 | 36 | 100 | 34.8 | 1750 | 1750 | 1600 | 1270 | 850 | 590 | 420 | M12–M36 |
| PA3-700-5-490 | 711.2 | 28 | 30 | 29 | 610 | 24 | 45 | 100 | 46.7 | 2490 | 2490 | 2490 | 2390 | 1630 | 1130 | 820 | M12–M36 |
| PA3-700-6-490 | 711.2 | 28 | 36 | 41 | 610 | 24 | 54 | 90 | 53.5 | 3810 | 3810 | 3810 | 3290 | 2360 | 1680 | 1210 | M20–M64 |
| PA3-700-7-490 | 711.2 | 28 | 42 | 45 | 610 | 24 | 63 | 130 | 78.6 | 5470 | 5470 | 5390 | 4550 | 3260 | 2330 | 1670 | M30–M64 |
| PA3-700-8-490 | 711.2 | 28 | 48 | 52 | 610 | 24 | 72 | 130 | 96.4 | 7850 | 7850 | 7550 | 6440 | 4830 | 3550 | 2510 | M42–M80 |
| PA3-700-9-490 | 711.2 | 28 | 56 | 58 | 630 | 24 13/16 | 84 | 140 | 141.2 | 10000 | 10000 | 10000 | 10000 | 10000 | 7980 | 5580 | M42–M80 |
| PA3-700-10-490 | 711.2 | 28 | 64 | 65 | 660 | 26 | 96 | 160 | 168.2 | 16410 | 16410 | 16060 | 14230 | 11560 | 8890 | 6210 | M42–M80 |
| PA3-700-11-490 | 711.2 | 28 | 72 | 69 | 680 | 26 3/4 | 108 | 190 | 206.4 | 18970 | 18970 | 18560 | 16450 | 13370 | 10270 | 7180 | M42–M80 |
| PA3-700-12-490 | 711.2 | 28 | 80 | 77 | 680 | 26 3/4 | 120 | 240 | 261.5 | 23700 | 23700 | 23630 | 20940 | 17020 | 13080 | 9140 | M72–M80 |
| PA3-700-13-490 | 711.2 | 28 | 80 | 85 | 720 | 28 3/8 | 120 | 200 | 284.2 | 30120 | 30120 | 29980 | 27280 | 23670 | 19000 | 14090 | M72–M80 |
| PA3-700-3-530 | 711.2 | 28 | 20 | 20 | 610 | 24 | 30 | 80 | 27.5 | 1320 | 1320 | 1320 | 1090 | 720 | 500 | 360 | M12–M24 |
| PA3-700-4-530 | 711.2 | 28 | 24 | 25 | 610 | 24 | 36 | 100 | 46.3 | 1830 | 1830 | 1830 | 1830 | 1620 | 1130 | 810 | M12–M36 |
| PA3-700-5-530 | 711.2 | 28 | 30 | 29 | 610 | 24 | 45 | 100 | 46.7 | 2490 | 2490 | 2490 | 2390 | 1630 | 1130 | 820 | M12–M36 |
| PA3-700-6-530 | 711.2 | 28 | 36 | 41 | 610 | 24 | 54 | 100 | 59.3 | 3810 | 3810 | 3810 | 3650 | 2620 | 1870 | 1340 | M20–M64 |
| PA3-700-7-530 | 711.2 | 28 | 42 | 45 | 610 | 24 | 63 | 110 | 80.0 | 5470 | 5470 | 5470 | 5470 | 4230 | 3110 | 2200 | M30–M64 |
| PA3-700-8-530 | 711.2 | 28 | 48 | 52 | 610 | 24 | 72 | 150 | 110.7 | 9060 | 9060 | 8710 | 7430 | 5580 | 4100 | 2900 | M42–M80 |
| PA3-700-9-530 | 711.2 | 28 | 56 | 58 | 630 | 24 13/16 | 84 | 140 | 141.2 | 10000 | 10000 | 10000 | 10000 | 10000 | 7980 | 5580 | M42–M80 |
| PA3-700-10-530 | 711.2 | 28 | 64 | 65 | 660 | 26 | 96 | 160 | 168.2 | 16410 | 16410 | 16060 | 14230 | 11560 | 8890 | 6210 | M42–M80 |
| PA3-700-11-530 | 711.2 | 28 | 72 | 69 | 680 | 26 3/4 | 108 | 210 | 227.1 | 20960 | 20960 | 20510 | 18180 | 14770 | 11350 | 7940 | M42–M80 |
| PA3-700-12-530 | 711.2 | 28 | 80 | 77 | 700 | 27 9/1 | 120 | 200 | 275.9 | 24990 | 24990 | 24990 | 24990 | 24770 | 19890 | 14750 | M72–M80 |
| PA3-700-13-530 | 711.2 | 28 | 80 | 85 | 720 | 28 3/8 | 120 | 210 | 297.7 | 30830 | 30830 | 30830 | 28640 | 24850 | 19950 | 14790 | M72–M80 |
| PA3-700-3-560 | 711.2 | 28 | 20 | 20 | 640 | 25 3/16 | 30 | 100 | 35.0 | 1320 | 1320 | 1320 | 1320 | 1030 | 820 | 640 | M12–M24 |
| PA3-700-4-560 | 711.2 | 28 | 24 | 25 | 640 | 25 3/16 | 36 | 100 | 47.2 | 1830 | 1830 | 1830 | 1830 | 1800 | 1420 | 1140 | M12–M36 |
| PA3-700-5-560 | 711.2 | 28 | 30 | 29 | 640 | 25 3/16 | 45 | 90 | 53.6 | 2660 | 2660 | 2660 | 2660 | 2660 | 2120 | 1690 | M12–M36 |
| PA3-700-6-560 | 711.2 | 28 | 36 | 41 | 640 | 25 3/16 | 54 | 100 | 72.5 | 3810 | 3810 | 3810 | 3810 | 3810 | 3440 | 2730 | M20–M64 |
| PA3-700-7-560 | 711.2 | 28 | 42 | 45 | 640 | 25 3/16 | 63 | 140 | 103.1 | 5470 | 5470 | 5470 | 5470 | 5470 | 4630 | 3680 | M30–M64 |
| PA3-700-8-560 | 711.2 | 28 | 48 | 52 | 640 | 25 3/16 | 72 | 120 | 120.8 | 10910 | 10910 | 10910 | 10910 | 9140 | 7510 | 5940 | M42–M80 |
| PA3-700-9-560 | 711.2 | 28 | 56 | 58 | 640 | 25 3/16 | 84 | 140 | 142.1 | 10000 | 10000 | 10000 | 10000 | 10000 | 8810 | 6980 | M42–M80 |
| PA3-700-10-560 | 711.2 | 28 | 64 | 65 | 660 | 26 | 96 | 180 | 188.4 | 17200 | 17200 | 17200 | 16190 | 13440 | 11030 | 8740 | M42–M80 |
| PA3-700-11-560 | 711.2 | 28 | 72 | 69 | 700 | 27 9/16 | 108 | 180 | 247.0 | 25030 | 25030 | 25030 | 25020 | 21810 | 18320 | 14840 | M42–M80 |
| PA3-700-12-560 | 711.2 | 28 | 80 | 77 | 700 | 27 9/16 | 120 | 200 | 275.9 | 24990 | 24990 | 24990 | 24990 | 24990 | 21070 | 17070 | M72–M80 |
| PA3-700-13-560 | 711.2 | 28 | 80 | 85 | 720 | 28 3/8 | 120 | 240 | 338.1 | 30830 | 30830 | 30830 | 30830 | 28750 | 24160 | 19570 | M72–M80 |
| PA3-700-3-600 | 711.2 | 28 | 20 | 20 | 640 | 25 3/16 | 30 | 100 | 46.6 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1210 | M12–M24 |
| PA3-700-4-600 | 711.2 | 28 | 24 | 25 | 640 | 25 3/16 | 36 | 90 | 52.7 | 1630 | 1630 | 1630 | 1630 | 1630 | 1630 | 1620 | M12–M36 |
| PA3-700-5-600 | 711.2 | 28 | 30 | 29 | 640 | 25 3/16 | 45 | 100 | 71.4 | 2830 | 2830 | 2830 | 2830 | 2830 | 2830 | 2830 | M12–M36 |
| PA3-700-6-600 | 711.2 | 28 | 36 | 41 | 640 | 25 3/16 | 54 | 140 | 101.0 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | M20–M64 |
| PA3-700-7-600 | 711.2 | 28 | 42 | 45 | 640 | 25 3/16 | 63 | 120 | 118.2 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | M30–M64 |
| PA3-700-8-600 | 711.2 | 28 | 48 | 52 | 640 | 25 3/16 | 72 | 150 | 148.2 | 7980 | 7980 | 7980 | 7980 | 7980 | 7980 | 7700 | M42–M80 |
| PA3-700-9-600 | 711.2 | 28 | 56 | 58 | 640 | 25 3/16 | 84 | 200 | 201.0 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 9970 | M42–M80 |
| PA3-700-10-600 | 711.2 | 28 | 64 | 65 | 680 | 26 3/4 | 96 | 180 | 238.0 | 18540 | 18540 | 18540 | 18540 | 18540 | 18540 | 15200 | M42–M80 |
| PA3-700-11-600 | 711.2 | 28 | 72 | 69 | 690 | 27 3/16 | 108 | 220 | 294.5 | 18710 | 18710 | 18710 | 18710 | 18710 | 18710 | 18640 | M42–M80 |
| PA3-700-12-600 | 711.2 | 28 | 80 | 77 | 700 | 27 9/16 | 120 | 270 | 368.3 | 24990 | 24990 | 24990 | 24990 | 24990 | 24990 | 23040 | M72–M80 |
| PA3-700-13-600 | 711.2 | 28 | 80 | 85 | 720 | 28 3/8 | 120 | 350 | 486.3 | 30830 | 30830 | 30830 | 30830 | 30830 | 30830 | 28530 | M72–M80 |

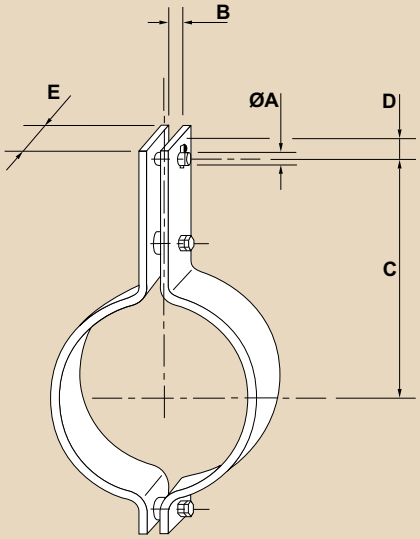
# PA3 PIPE CLAMP THREE BOLT TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA3-750-4-400 | 762 | 30 | 24 | 25 | 640 | 25 3/16 | 36 | 65 | 32.4 | 1780 | 1690 | | | | | | M12–M36 |
| PA3-750-5-400 | 762 | 30 | 30 | 29 | 640 | 25 3/16 | 45 | 110 | 55.6 | 2870 | 2730 | | | | | | M12–M36 |
| PA3-750-6-400 | 762 | 30 | 36 | 41 | 640 | 25 3/16 | 54 | 110 | 69.7 | 3810 | 3810 | | | | | | M20–M64 |
| PA3-750-7-400 | 762 | 30 | 42 | 45 | 640 | 25 3/16 | 63 | 150 | 96.7 | 5470 | 5470 | | | | | | M30–M64 |
| PA3-750-8-400 | 762 | 30 | 48 | 52 | 640 | 25 3/16 | 72 | 150 | 118.5 | 8160 | 7940 | | | | | | M42–M80 |
| PA3-750-9-400 | 762 | 30 | 56 | 58 | 680 | 26 3/4 | 84 | 150 | 165.7 | 10000 | 10000 | | | | | | M42–M80 |
| PA3-750-10-400 | 762 | 30 | 64 | 65 | 710 | 27 15/16 | 96 | 180 | 207.1 | 15770 | 15630 | | | | | | M42–M80 |
| PA3-750-11-400 | 762 | 30 | 72 | 69 | 720 | 28 3/8 | 108 | 220 | 255.3 | 19030 | 19030 | | | | | | M42–M80 |
| PA3-750-12-400 | 762 | 30 | 80 | 77 | 750 | 29 1/2 | 120 | 200 | 303.4 | 26550 | 26430 | | | | | | M72–M80 |
| PA3-750-13-400 | 762 | 30 | 80 | 85 | 750 | 29 1/2 | 120 | 220 | 331.8 | 28280 | 28280 | | | | | | M72–M80 |
| PA3-750-4-490 | 762 | 30 | 24 | 25 | 660 | 26 | 36 | 100 | 49.6 | 1830 | 1830 | 1830 | 1830 | 1610 | 1120 | 810 | M12–M36 |
| PA3-750-5-490 | 762 | 30 | 30 | 29 | 660 | 26 | 45 | 100 | 50.0 | 2370 | 2370 | 2370 | 2340 | 1620 | 1120 | 820 | M12–M36 |
| PA3-750-6-490 | 762 | 30 | 36 | 41 | 660 | 26 | 54 | 90 | 57.2 | 3810 | 3810 | 3790 | 3210 | 2320 | 1670 | 1190 | M20–M64 |
| PA3-750-7-490 | 762 | 30 | 42 | 45 | 660 | 26 | 63 | 110 | 85.4 | 5470 | 5470 | 5470 | 5470 | 4150 | 3070 | 2160 | M30–M64 |
| PA3-750-8-490 | 762 | 30 | 48 | 52 | 660 | 26 | 72 | 140 | 110.5 | 8160 | 8160 | 7860 | 6740 | 5110 | 3780 | 2660 | M42–M80 |
| PA3-750-9-490 | 762 | 30 | 56 | 58 | 660 | 26 | 84 | 140 | 148.5 | 10000 | 10000 | 10000 | 10000 | 10000 | 7850 | 5530 | M42–M80 |
| PA3-750-10-490 | 762 | 30 | 64 | 65 | 690 | 27 3/16 | 96 | 160 | 176.6 | 15800 | 15800 | 15490 | 13790 | 11300 | 8730 | 6150 | M42–M80 |
| PA3-750-11-490 | 762 | 30 | 72 | 69 | 700 | 27 9/16 | 108 | 200 | 226.0 | 19200 | 19200 | 18830 | 16760 | 13740 | 10610 | 7480 | M42–M80 |
| PA3-750-12-490 | 762 | 30 | 80 | 77 | 750 | 29 1/2 | 120 | 200 | 298.2 | 28010 | 28010 | 27940 | 25480 | 22170 | 17970 | 13400 | M72–M80 |
| PA3-750-13-490 | 762 | 30 | 80 | 85 | 740 | 29 1/8 | 120 | 200 | 295.6 | 28930 | 28930 | 28850 | 26310 | 22890 | 18560 | 13840 | M72–M80 |
| PA3-750-4-530 | 762 | 30 | 24 | 25 | 660 | 26 | 36 | 100 | 49.6 | 1830 | 1830 | 1830 | 1830 | 1610 | 1120 | 810 | M12–M36 |
| PA3-750-5-530 | 762 | 30 | 30 | 29 | 660 | 26 | 45 | 100 | 50.0 | 2370 | 2370 | 2370 | 2340 | 1620 | 1120 | 820 | M12–M36 |
| PA3-750-6-530 | 762 | 30 | 36 | 41 | 660 | 26 | 54 | 110 | 69.6 | 3810 | 3810 | 3810 | 3810 | 2840 | 2040 | 1460 | M20–M64 |
| PA3-750-7-530 | 762 | 30 | 42 | 45 | 660 | 26 | 63 | 110 | 85.4 | 5470 | 5470 | 5470 | 5470 | 4150 | 3070 | 2160 | M30–M64 |
| PA3-750-8-530 | 762 | 30 | 48 | 52 | 660 | 26 | 72 | 160 | 125.7 | 9320 | 9320 | 8980 | 7700 | 5840 | 4320 | 3040 | M42–M80 |
| PA3-750-9-530 | 762 | 30 | 56 | 58 | 660 | 26 | 84 | 140 | 148.5 | 10000 | 10000 | 10000 | 10000 | 10000 | 7850 | 5530 | M42–M80 |
| PA3-750-10-530 | 762 | 30 | 64 | 65 | 690 | 27 3/16 | 96 | 160 | 176.6 | 15800 | 15800 | 15490 | 13790 | 11300 | 8730 | 6150 | M42–M80 |
| PA3-750-11-530 | 762 | 30 | 72 | 69 | 700 | 27 9/16 | 108 | 220 | 247.6 | 21120 | 21120 | 20710 | 18440 | 15110 | 11670 | 8220 | M42–M80 |
| PA3-750-12-530 | 762 | 30 | 80 | 77 | 750 | 29 1/2 | 120 | 200 | 298.2 | 28010 | 28010 | 27940 | 25480 | 22170 | 17970 | 13400 | M72–M80 |
| PA3-750-13-530 | 762 | 30 | 80 | 85 | 740 | 29 1/8 | 120 | 220 | 323.6 | 30830 | 30830 | 30830 | 28940 | 25180 | 20410 | 15220 | M72–M80 |
| PA3-750-4-560 | 762 | 30 | 24 | 25 | 690 | 27 3/16 | 36 | 100 | 50.5 | 1830 | 1830 | 1830 | 1830 | 1780 | 1400 | 1120 | M12–M36 |
| PA3-750-5-560 | 762 | 30 | 30 | 29 | 690 | 27 3/16 | 45 | 90 | 57.3 | 2530 | 2530 | 2530 | 2530 | 2530 | 2090 | 1670 | M12–M36 |
| PA3-750-6-560 | 762 | 30 | 36 | 41 | 690 | 27 3/16 | 54 | 100 | 77.4 | 3810 | 3810 | 3810 | 3810 | 3810 | 3380 | 2680 | M20–M64 |
| PA3-750-7-560 | 762 | 30 | 42 | 45 | 690 | 27 3/16 | 63 | 140 | 110.0 | 5470 | 5470 | 5470 | 5470 | 5470 | 4540 | 3600 | M30–M64 |
| PA3-750-8-560 | 762 | 30 | 48 | 52 | 690 | 27 3/16 | 72 | 120 | 128.6 | 10910 | 10910 | 10910 | 10690 | 8920 | 7340 | 5830 | M42–M80 |
| PA3-750-9-560 | 762 | 30 | 56 | 58 | 690 | 27 3/16 | 84 | 140 | 151.2 | 10000 | 10000 | 10000 | 10000 | 10000 | 8610 | 6840 | M42–M80 |
| PA3-750-10-560 | 762 | 30 | 64 | 65 | 690 | 27 3/16 | 96 | 190 | 208.4 | 16320 | 16320 | 16320 | 16320 | 13820 | 11370 | 9030 | M42–M80 |
| PA3-750-11-560 | 762 | 30 | 72 | 69 | 720 | 28 3/8 | 108 | 180 | 257.2 | 23740 | 23740 | 23740 | 23740 | 21120 | 17850 | 14490 | M42–M80 |
| PA3-750-12-560 | 762 | 30 | 80 | 77 | 730 | 28 3/4 | 120 | 200 | 289.6 | 24140 | 24140 | 24140 | 24140 | 23630 | 19970 | 16210 | M72–M80 |
| PA3-750-13-560 | 762 | 30 | 80 | 85 | 740 | 29 1/8 | 120 | 250 | 365.7 | 30830 | 30830 | 30830 | 30830 | 28960 | 24480 | 19870 | M72–M80 |
| PA3-750-4-600 | 762 | 30 | 24 | 25 | 690 | 27 3/16 | 36 | 90 | 56.5 | 1610 | 1610 | 1610 | 1610 | 1610 | 1610 | 1610 | M12–M36 |
| PA3-750-5-600 | 762 | 30 | 30 | 29 | 690 | 27 3/16 | 45 | 100 | 76.3 | 2690 | 2690 | 2690 | 2690 | 2690 | 2690 | 2690 | M12–M36 |
| PA3-750-6-600 | 762 | 30 | 36 | 41 | 690 | 27 3/16 | 54 | 140 | 107.8 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | 3760 | M20–M64 |
| PA3-750-7-600 | 762 | 30 | 42 | 45 | 690 | 27 3/16 | 63 | 120 | 125.9 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | M30–M64 |
| PA3-750-8-600 | 762 | 30 | 48 | 52 | 690 | 27 3/16 | 72 | 150 | 157.9 | 7580 | 7580 | 7580 | 7580 | 7580 | 7580 | 7560 | M42–M80 |
| PA3-750-9-600 | 762 | 30 | 56 | 58 | 690 | 27 3/16 | 84 | 200 | 214.0 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 9770 | M42–M80 |
| PA3-750-10-600 | 762 | 30 | 64 | 65 | 710 | 27 15/16 | 96 | 180 | 249.7 | 17590 | 17590 | 17590 | 17590 | 17590 | 17590 | 14850 | M42–M80 |
| PA3-750-11-600 | 762 | 30 | 72 | 69 | 720 | 28 3/8 | 108 | 230 | 326.0 | 23740 | 23740 | 23740 | 23740 | 23740 | 22810 | 18510 | M42–M80 |
| PA3-750-12-600 | 762 | 30 | 80 | 77 | 730 | 28 3/4 | 120 | 290 | 414.5 | 24140 | 24140 | 24140 | 24140 | 24140 | 24140 | 23500 | M72–M80 |

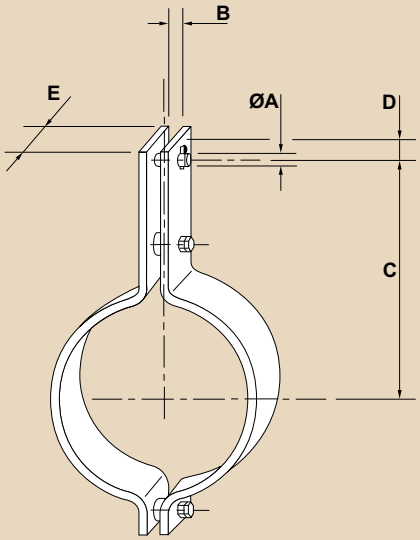
# PA3 PIPE CLAMP THREE BOLT TYPE




*Material: Carbon Steel to 400°C  Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA3-800-4-400 | 812.8 | 32 | 24 | 25 | 660 | 26 | 36 | 65 | 33.9 | 1730 | 1650 | | | | | | M12–M36 |
| PA3-800-5-400 | 812.8 | 32 | 30 | 29 | 660 | 26 | 45 | 110 | 58.2 | 2790 | 2660 | | | | | | M12–M36 |
| PA3-800-6-400 | 812.8 | 32 | 36 | 41 | 660 | 26 | 54 | 110 | 72.9 | 3650 | 3650 | | | | | | M20–M64 |
| PA3-800-7-400 | 812.8 | 32 | 42 | 45 | 660 | 26 | 63 | 150 | 101.1 | 5470 | 5470 | | | | | | M30–M64 |
| PA3-800-8-400 | 812.8 | 32 | 48 | 52 | 660 | 26 | 72 | 150 | 124.1 | 7610 | 7420 | | | | | | M42–M80 |
| PA3-800-9-400 | 812.8 | 32 | 56 | 58 | 710 | 27 15/16 | 84 | 150 | 173.7 | 10000 | 10000 | | | | | | M42–M80 |
| PA3-800-10-400 | 812.8 | 32 | 64 | 65 | 740 | 29 1/8 | 96 | 180 | 216.5 | 15200 | 15070 | | | | | | M42–M80 |
| PA3-800-11-400 | 812.8 | 32 | 72 | 69 | 740 | 29 1/8 | 108 | 220 | 265.4 | 18120 | 18120 | | | | | | M42–M80 |
| PA3-800-12-400 | 812.8 | 32 | 80 | 77 | 780 | 30 11/16 | 120 | 200 | 317.3 | 24970 | 24870 | | | | | | M72–M80 |
| PA3-800-13-400 | 812.8 | 32 | 80 | 85 | 790 | 31 1/8 | 120 | 240 | 385.3 | 29520 | 29400 | | | | | | M72–M80 |
| PA3-800-4-490 | 812.8 | 32 | 24 | 25 | 690 | 27 3/16 | 36 | 100 | 52.2 | 1830 | 1830 | 1830 | 1830 | 1600 | 1120 | 810 | M12–M36 |
| PA3-800-5-490 | 812.8 | 32 | 30 | 29 | 690 | 27 3/16 | 45 | 100 | 53.1 | 2760 | 2760 | 2580 | 2160 | 1510 | 1060 | 770 | M12–M36 |
| PA3-800-6-490 | 812.8 | 32 | 36 | 41 | 690 | 27 3/16 | 54 | 90 | 60.1 | 3710 | 3710 | 3700 | 3140 | 2300 | 1670 | 1180 | M20–M64 |
| PA3-800-7-490 | 812.8 | 32 | 42 | 45 | 690 | 27 3/16 | 63 | 110 | 89.7 | 5470 | 5470 | 5470 | 5350 | 4100 | 3050 | 2140 | M30–M64 |
| PA3-800-8-490 | 812.8 | 32 | 48 | 52 | 690 | 27 3/16 | 72 | 150 | 124.4 | 8130 | 8130 | 7850 | 6760 | 5180 | 3850 | 2710 | M42–M80 |
| PA3-800-9-490 | 812.8 | 32 | 56 | 58 | 690 | 27 3/16 | 84 | 140 | 156.4 | 10000 | 10000 | 10000 | 10000 | 9640 | 7470 | 5310 | M42–M80 |
| PA3-800-10-490 | 812.8 | 32 | 64 | 65 | 720 | 28 3/8 | 96 | 160 | 185.4 | 14780 | 14780 | 14520 | 12980 | 10730 | 8320 | 5910 | M42–M80 |
| PA3-800-11-490 | 812.8 | 32 | 72 | 69 | 730 | 28 3/4 | 108 | 210 | 248.4 | 18880 | 18880 | 18550 | 16580 | 13710 | 10630 | 7550 | M42–M80 |
| PA3-800-12-490 | 812.8 | 32 | 80 | 77 | 770 | 30 5/16 | 120 | 200 | 309.7 | 26990 | 26990 | 26980 | 24660 | 21510 | 17600 | 13200 | M72–M80 |
| PA3-800-13-490 | 812.8 | 32 | 80 | 85 | 770 | 30 5/16 | 120 | 210 | 324.1 | 28530 | 28530 | 28520 | 26070 | 22740 | 18610 | 13960 | M72–M80 |
| PA3-800-4-530 | 812.8 | 32 | 24 | 25 | 690 | 27 3/16 | 36 | 100 | 52.2 | 1830 | 1830 | 1830 | 1830 | 1600 | 1120 | 810 | M12–M36 |
| PA3-800-5-530 | 812.8 | 32 | 30 | 29 | 690 | 27 3/16 | 45 | 110 | 58.4 | 3030 | 3030 | 2840 | 2380 | 1660 | 1170 | 840 | M12–M36 |
| PA3-800-6-530 | 812.8 | 32 | 36 | 41 | 690 | 27 3/16 | 54 | 110 | 73.2 | 3710 | 3710 | 3710 | 3710 | 2810 | 2040 | 1450 | M20–M64 |
| PA3-800-7-530 | 812.8 | 32 | 42 | 45 | 690 | 27 3/16 | 63 | 110 | 89.7 | 5470 | 5470 | 5470 | 5350 | 4100 | 3050 | 2140 | M30–M64 |
| PA3-800-8-530 | 812.8 | 32 | 48 | 52 | 690 | 27 3/16 | 72 | 120 | 133.0 | 10910 | 10910 | 10910 | 9940 | 8210 | 6370 | 4520 | M42–M80 |
| PA3-800-9-530 | 812.8 | 32 | 56 | 58 | 690 | 27 3/16 | 84 | 140 | 156.4 | 10000 | 10000 | 10000 | 10000 | 9640 | 7470 | 5310 | M42–M80 |
| PA3-800-10-530 | 812.8 | 32 | 64 | 65 | 720 | 28 3/8 | 96 | 170 | 196.6 | 15700 | 15700 | 15430 | 13790 | 11400 | 8840 | 6280 | M42–M80 |
| PA3-800-11-530 | 812.8 | 32 | 72 | 69 | 750 | 29 1/2 | 108 | 180 | 269.7 | 23030 | 23030 | 23030 | 22620 | 19730 | 16150 | 12110 | M42–M80 |
| PA3-800-12-530 | 812.8 | 32 | 80 | 77 | 770 | 30 5/16 | 120 | 200 | 309.7 | 26990 | 26990 | 26980 | 24660 | 21510 | 17600 | 13200 | M72–M80 |
| PA3-800-13-530 | 812.8 | 32 | 80 | 85 | 770 | 30 5/16 | 120 | 230 | 353.6 | 30830 | 30830 | 30830 | 28550 | 24900 | 20380 | 15290 | M72–M80 |
| PA3-800-4-560 | 812.8 | 32 | 24 | 25 | 710 | 27 15/16 | 36 | 100 | 52.8 | 1830 | 1830 | 1830 | 1830 | 1750 | 1390 | 1110 | M12–M36 |
| PA3-800-5-560 | 812.8 | 32 | 30 | 29 | 710 | 27 15/16 | 45 | 90 | 60.1 | 2510 | 2510 | 2510 | 2510 | 2440 | 1960 | 1560 | M12–M36 |
| PA3-800-6-560 | 812.8 | 32 | 36 | 41 | 710 | 27 15/16 | 54 | 100 | 80.9 | 3810 | 3810 | 3810 | 3810 | 3810 | 3330 | 2640 | M20–M64 |
| PA3-800-7-560 | 812.8 | 32 | 42 | 45 | 710 | 27 15/16 | 63 | 140 | 114.8 | 5470 | 5470 | 5470 | 5470 | 5470 | 4470 | 3540 | M30–M64 |
| PA3-800-8-560 | 812.8 | 32 | 48 | 52 | 710 | 27 15/16 | 72 | 120 | 134.5 | 10910 | 10910 | 10910 | 10050 | 8430 | 6940 | 5540 | M42–M80 |
| PA3-800-9-560 | 812.8 | 32 | 56 | 58 | 710 | 27 15/16 | 84 | 140 | 158.1 | 10000 | 10000 | 10000 | 10000 | 9890 | 8150 | 6500 | M42–M80 |
| PA3-800-10-560 | 812.8 | 32 | 64 | 65 | 720 | 28 3/8 | 96 | 200 | 230.0 | 15890 | 15890 | 15890 | 15890 | 13770 | 11340 | 9040 | M42–M80 |
| PA3-800-11-560 | 812.8 | 32 | 72 | 69 | 750 | 29 1/2 | 108 | 180 | 269.7 | 23030 | 23030 | 23030 | 22770 | 19970 | 16980 | 13810 | M42–M80 |
| PA3-800-12-560 | 812.8 | 32 | 80 | 77 | 770 | 30 5/16 | 120 | 220 | 339.3 | 29690 | 29690 | 29670 | 27300 | 23950 | 20360 | 16550 | M72–M80 |
| PA3-800-13-560 | 812.8 | 32 | 80 | 85 | 770 | 30 5/16 | 120 | 260 | 397.8 | 30830 | 30830 | 30830 | 30830 | 28490 | 24220 | 19700 | M72–M80 |
| PA3-800-4-600 | 812.8 | 32 | 24 | 25 | 710 | 27 15/16 | 36 | 100 | 66.2 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1720 | M12–M36 |
| PA3-800-5-600 | 812.8 | 32 | 30 | 29 | 710 | 27 15/16 | 45 | 100 | 80.0 | 2650 | 2650 | 2650 | 2650 | 2650 | 2650 | 2610 | M12–M36 |
| PA3-800-6-600 | 812.8 | 32 | 36 | 41 | 710 | 27 15/16 | 54 | 140 | 112.7 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | 3700 | M20–M64 |
| PA3-800-7-600 | 812.8 | 32 | 42 | 45 | 710 | 27 15/16 | 63 | 120 | 131.9 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | M30–M64 |
| PA3-800-8-600 | 812.8 | 32 | 48 | 52 | 710 | 27 15/16 | 72 | 160 | 176.1 | 7410 | 7410 | 7410 | 7410 | 7410 | 7410 | 7410 | M42–M80 |
| PA3-800-9-600 | 812.8 | 32 | 56 | 58 | 710 | 27 15/16 | 84 | 210 | 234.9 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 9750 | M42–M80 |
| PA3-800-10-600 | 812.8 | 32 | 64 | 65 | 740 | 29 1/8 | 96 | 180 | 262.0 | 17090 | 17090 | 17090 | 17090 | 17090 | 17090 | 14140 | M42–M80 |
| PA3-800-11-600 | 812.8 | 32 | 72 | 69 | 750 | 29 1/2 | 108 | 240 | 356.3 | 23030 | 23030 | 23030 | 23030 | 23030 | 22640 | 18410 | M42–M80 |
| PA3-800-12-600 | 812.8 | 32 | 80 | 77 | 770 | 30 5/16 | 120 | 310 | 472.2 | 32900 | 32900 | 32900 | 32900 | 32900 | 28680 | 23330 | M72–M80 |

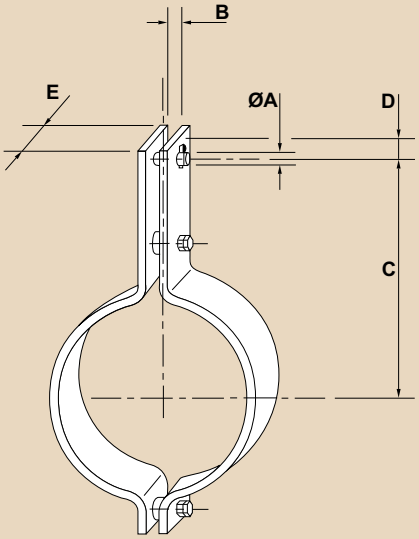
# PA3 PIPE CLAMP THREE BOLT TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA3-850-4-400 | 863.6 | 34 | 24 | 25 | 710 | 27 15/16 | 36 | 65 | 36.0 | 1670 | 1590 | | | | | | M12–M36 |
| PA3-850-5-400 | 863.6 | 34 | 30 | 29 | 710 | 27 15/16 | 45 | 110 | 61.7 | 2690 | 2560 | | | | | | M12–M36 |
| PA3-850-6-400 | 863.6 | 34 | 36 | 41 | 710 | 27 15/16 | 54 | 110 | 78.8 | 3810 | 3720 | | | | | | M20–M64 |
| PA3-850-7-400 | 863.6 | 34 | 42 | 45 | 710 | 27 15/16 | 63 | 150 | 128.6 | 5470 | 5470 | | | | | | M30–M64 |
| PA3-850-8-400 | 863.6 | 34 | 48 | 52 | 710 | 27 15/16 | 72 | 150 | 174.4 | 8920 | 8920 | | | | | | M42–M80 |
| PA3-850-9-400 | 863.6 | 34 | 56 | 58 | 730 | 28 3/4 | 84 | 150 | 180.4 | 10000 | 10000 | | | | | | M42–M80 |
| PA3-850-10-400 | 863.6 | 34 | 64 | 65 | 770 | 30 5/16 | 96 | 180 | 226.4 | 14240 | 14120 | | | | | | M42–M80 |
| PA3-850-11-400 | 863.6 | 34 | 72 | 69 | 800 | 31 1/2 | 108 | 200 | 324.9 | 23870 | 23760 | | | | | | M42–M80 |
| PA3-850-12-400 | 863.6 | 34 | 80 | 77 | 810 | 31 7/8 | 120 | 200 | 330.0 | 24030 | 23930 | | | | | | M72–M80 |
| PA3-850-13-400 | 863.6 | 34 | 80 | 85 | 820 | 32 5/16 | 120 | 240 | 400.6 | 28390 | 28270 | | | | | | M72–M80 |
| PA3-850-4-490 | 863.6 | 34 | 24 | 25 | 740 | 29 1/8 | 36 | 100 | 55.5 | 1830 | 1830 | 1830 | 1830 | 1520 | 1060 | 770 | M12–M36 |
| PA3-850-5-490 | 863.6 | 34 | 30 | 29 | 740 | 29 1/8 | 45 | 100 | 56.4 | 2660 | 2660 | 2480 | 2080 | 1440 | 1000 | 730 | M12–M36 |
| PA3-850-6-490 | 863.6 | 34 | 36 | 41 | 740 | 29 1/8 | 54 | 100 | 71.7 | 3810 | 3810 | 3760 | 3180 | 2310 | 1670 | 1190 | M20–M64 |
| PA3-850-7-490 | 863.6 | 34 | 42 | 45 | 740 | 29 1/8 | 63 | 110 | 95.3 | 5470 | 5470 | 5470 | 4920 | 3740 | 2770 | 1950 | M30–M64 |
| PA3-850-8-490 | 863.6 | 34 | 48 | 52 | 740 | 29 1/8 | 72 | 150 | 131.6 | 7840 | 7840 | 7560 | 6490 | 4940 | 3660 | 2580 | M42–M80 |
| PA3-850-9-490 | 863.6 | 34 | 56 | 58 | 740 | 29 1/8 | 84 | 140 | 165.3 | 10000 | 10000 | 10000 | 10000 | 9200 | 7110 | 5030 | M42–M80 |
| PA3-850-10-490 | 863.6 | 34 | 64 | 65 | 740 | 29 1/8 | 96 | 160 | 192.7 | 14240 | 14240 | 13970 | 12450 | 10240 | 7920 | 5590 | M42–M80 |
| PA3-850-11-490 | 863.6 | 34 | 72 | 69 | 760 | 29 15/16 | 108 | 220 | 271.1 | 19050 | 19050 | 18690 | 16660 | 13700 | 10590 | 7480 | M42–M80 |
| PA3-850-12-490 | 863.6 | 34 | 80 | 77 | 800 | 31 1/2 | 120 | 200 | 322.4 | 25990 | 25990 | 25940 | 23680 | 20610 | 16770 | 12530 | M72–M80 |
| PA3-850-13-490 | 863.6 | 34 | 80 | 85 | 800 | 31 1/2 | 120 | 220 | 352.8 | 28770 | 28770 | 28720 | 26210 | 22820 | 18560 | 13870 | M72–M80 |
| PA3-850-4-530 | 863.6 | 34 | 24 | 25 | 740 | 29 1/8 | 36 | 100 | 55.5 | 1830 | 1830 | 1830 | 1830 | 1520 | 1060 | 770 | M12–M36 |
| PA3-850-5-530 | 863.6 | 34 | 30 | 29 | 740 | 29 1/8 | 45 | 110 | 61.9 | 2930 | 2930 | 2730 | 2290 | 1580 | 1110 | 800 | M12–M36 |
| PA3-850-6-530 | 863.6 | 34 | 36 | 41 | 740 | 29 1/8 | 54 | 120 | 85.7 | 3810 | 3810 | 3810 | 3810 | 2780 | 2000 | 1430 | M20–M64 |
| PA3-850-7-530 | 863.6 | 34 | 42 | 45 | 740 | 29 1/8 | 63 | 120 | 103.7 | 5470 | 5470 | 5470 | 5360 | 4080 | 3020 | 2130 | M30–M64 |
| PA3-850-8-530 | 863.6 | 34 | 48 | 52 | 740 | 29 1/8 | 72 | 120 | 140.7 | 10630 | 10630 | 10630 | 9540 | 7840 | 6060 | 4280 | M42–M80 |
| PA3-850-9-530 | 863.6 | 34 | 56 | 58 | 740 | 29 1/8 | 84 | 140 | 165.3 | 10000 | 10000 | 10000 | 10000 | 9200 | 7110 | 5030 | M42–M80 |
| PA3-850-10-530 | 863.6 | 34 | 64 | 65 | 740 | 29 1/8 | 96 | 180 | 215.9 | 15280 | 15280 | 15280 | 14010 | 11520 | 8900 | 6290 | M42–M80 |
| PA3-850-11-530 | 863.6 | 34 | 72 | 69 | 780 | 30 11/16 | 108 | 180 | 281.1 | 22120 | 22120 | 22120 | 21730 | 18920 | 15390 | 11500 | M42–M80 |
| PA3-850-12-530 | 863.6 | 34 | 80 | 77 | 800 | 31 1/2 | 120 | 200 | 322.4 | 25990 | 25990 | 25940 | 23680 | 20610 | 16770 | 12530 | M72–M80 |
| PA3-850-13-530 | 863.6 | 34 | 80 | 85 | 800 | 31 1/2 | 120 | 240 | 383.6 | 30830 | 30830 | 30830 | 28600 | 24900 | 20250 | 15130 | M72–M80 |
| PA3-850-4-560 | 863.6 | 34 | 24 | 25 | 760 | 29 15/16 | 36 | 100 | 56.1 | 1830 | 1830 | 1830 | 1830 | 1680 | 1330 | 1060 | M12–M36 |
| PA3-850-5-560 | 863.6 | 34 | 30 | 29 | 760 | 29 15/16 | 45 | 90 | 63.7 | 2420 | 2420 | 2420 | 2420 | 2330 | 1870 | 1490 | M12–M36 |
| PA3-850-6-560 | 863.6 | 34 | 36 | 41 | 760 | 29 15/16 | 54 | 100 | 85.7 | 3790 | 3790 | 3790 | 3790 | 3790 | 3180 | 2520 | M20–M64 |
| PA3-850-7-560 | 863.6 | 34 | 42 | 45 | 760 | 29 15/16 | 63 | 150 | 130.5 | 5470 | 5470 | 5470 | 5470 | 5410 | 4380 | 3470 | M30–M64 |
| PA3-850-8-560 | 863.6 | 34 | 48 | 52 | 760 | 29 15/16 | 72 | 120 | 142.3 | 10630 | 10630 | 10630 | 9640 | 8070 | 6640 | 5280 | M42–M80 |
| PA3-850-9-560 | 863.6 | 34 | 56 | 58 | 760 | 29 15/16 | 84 | 150 | 178.7 | 10000 | 10000 | 10000 | 10000 | 10000 | 8340 | 6640 | M42–M80 |
| PA3-850-10-560 | 863.6 | 34 | 64 | 65 | 760 | 29 15/16 | 96 | 210 | 253.3 | 15280 | 15280 | 15280 | 15280 | 13820 | 11370 | 9050 | M42–M80 |
| PA3-850-11-560 | 863.6 | 34 | 72 | 69 | 780 | 30 11/16 | 108 | 180 | 281.1 | 22120 | 22120 | 22120 | 21880 | 19150 | 16220 | 13170 | M42–M80 |
| PA3-850-12-560 | 863.6 | 34 | 80 | 77 | 800 | 31 1/2 | 120 | 230 | 368.7 | 29890 | 29890 | 29830 | 27420 | 24000 | 20320 | 16500 | M72–M80 |
| PA3-850-13-560 | 863.6 | 34 | 80 | 85 | 800 | 31 1/2 | 120 | 270 | 429.7 | 30830 | 30830 | 30830 | 30830 | 28350 | 24010 | 19500 | M72–M80 |
| PA3-850-4-600 | 863.6 | 34 | 24 | 25 | 760 | 29 15/16 | 36 | 100 | 70.3 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1640 | M12–M36 |
| PA3-850-5-600 | 863.6 | 34 | 30 | 29 | 760 | 29 15/16 | 45 | 100 | 84.8 | 2560 | 2560 | 2560 | 2560 | 2560 | 2560 | 2490 | M12–M36 |
| PA3-850-6-600 | 863.6 | 34 | 36 | 41 | 760 | 29 15/16 | 54 | 150 | 127.9 | 3790 | 3790 | 3790 | 3790 | 3790 | 3790 | 3790 | M20–M64 |
| PA3-850-7-600 | 863.6 | 34 | 42 | 45 | 760 | 29 15/16 | 63 | 120 | 139.6 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | 5440 | M30–M64 |
| PA3-850-8-600 | 863.6 | 34 | 48 | 52 | 760 | 29 15/16 | 72 | 170 | 200.1 | 10630 | 10630 | 10630 | 10630 | 10630 | 9400 | 7480 | M42–M80 |
| PA3-850-9-600 | 863.6 | 34 | 56 | 58 | 760 | 29 15/16 | 84 | 220 | 260.0 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 9740 | M42–M80 |
| PA3-850-10-600 | 863.6 | 34 | 64 | 65 | 760 | 29 15/16 | 96 | 180 | 272.2 | 16420 | 16420 | 16420 | 16420 | 16420 | 16420 | 13500 | M42–M80 |
| PA3-850-11-600 | 863.6 | 34 | 72 | 69 | 780 | 30 11/16 | 108 | 250 | 386.7 | 22120 | 22120 | 22120 | 22120 | 22120 | 22120 | 18300 | M42–M80 |
| PA3-850-12-600 | 863.6 | 34 | 80 | 77 | 800 | 31 1/2 | 120 | 330 | 522.8 | 31580 | 31580 | 31580 | 31580 | 31580 | 29150 | 23680 | M72–M80 |

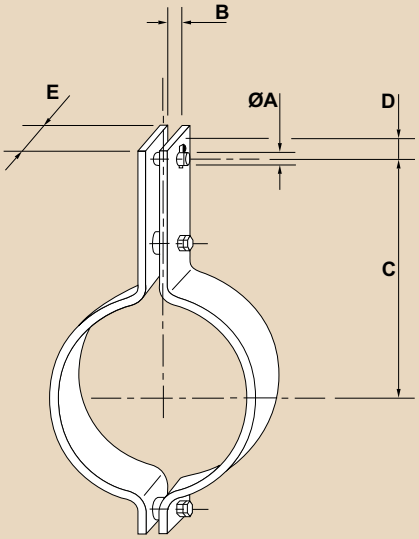
# PA3 PIPE CLAMP THREE BOLT TYPE




*Material: Carbon Steel to 400°C  Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA3-900-4-400 | 914.4 | 36 | 24 | 25 | 740 | 29 1/8 | 36 | 90 | 52.0 | 1830 | 1830 | | | | | | M12–M36 |
| PA3-900-5-400 | 914.4 | 36 | 30 | 29 | 740 | 29 1/8 | 45 | 110 | 64.8 | 2490 | 2380 | | | | | | M12–M36 |
| PA3-900-6-400 | 914.4 | 36 | 36 | 41 | 740 | 29 1/8 | 54 | 130 | 97.0 | 3810 | 3810 | | | | | | M20–M64 |
| PA3-900-7-400 | 914.4 | 36 | 42 | 45 | 740 | 29 1/8 | 63 | 150 | 136.3 | 5470 | 5470 | | | | | | M30–M64 |
| PA3-900-8-400 | 914.4 | 36 | 48 | 52 | 740 | 29 1/8 | 72 | 150 | 182.2 | 8560 | 8560 | | | | | | M42–M80 |
| PA3-900-9-400 | 914.4 | 36 | 56 | 58 | 760 | 29 15/16 | 84 | 150 | 188.3 | 10000 | 10000 | | | | | | M42–M80 |
| PA3-900-10-400 | 914.4 | 36 | 64 | 65 | 790 | 31 1/8 | 96 | 180 | 234.7 | 13800 | 13690 | | | | | | M42–M80 |
| PA3-900-11-400 | 914.4 | 36 | 72 | 69 | 830 | 32 11/16 | 108 | 200 | 338.8 | 22580 | 22490 | | | | | | M42–M80 |
| PA3-900-12-400 | 914.4 | 36 | 80 | 77 | 830 | 32 11/16 | 120 | 200 | 341.5 | 23260 | 23170 | | | | | | M72–M80 |
| PA3-900-13-400 | 914.4 | 36 | 80 | 85 | 850 | 33 7/16 | 120 | 260 | 450.2 | 29100 | 28990 | | | | | | M72–M80 |
| PA3-900-4-490 | 914.4 | 36 | 24 | 25 | 760 | 29 15/16 | 36 | 100 | 58.0 | 1830 | 1830 | 1830 | 1830 | 1430 | 1000 | 720 | M12–M36 |
| PA3-900-5-490 | 914.4 | 36 | 30 | 29 | 760 | 29 15/16 | 45 | 100 | 58.7 | 2600 | 2600 | 2440 | 2050 | 1430 | 1010 | 730 | M12–M36 |
| PA3-900-6-490 | 914.4 | 36 | 36 | 41 | 760 | 29 15/16 | 54 | 110 | 82.1 | 3810 | 3810 | 3810 | 3280 | 2410 | 1750 | 1240 | M20–M64 |
| PA3-900-7-490 | 914.4 | 36 | 42 | 45 | 760 | 29 15/16 | 63 | 110 | 99.1 | 5470 | 5470 | 5470 | 4820 | 3700 | 2760 | 1940 | M30–M64 |
| PA3-900-8-490 | 914.4 | 36 | 48 | 52 | 760 | 29 15/16 | 72 | 160 | 145.7 | 8130 | 8130 | 7860 | 6780 | 5210 | 3880 | 2730 | M42–M80 |
| PA3-900-9-490 | 914.4 | 36 | 56 | 58 | 760 | 29 15/16 | 84 | 140 | 173.8 | 10000 | 10000 | 10000 | 10000 | 8770 | 6810 | 4850 | M42–M80 |
| PA3-900-10-490 | 914.4 | 36 | 64 | 65 | 770 | 30 5/16 | 96 | 160 | 201.1 | 13820 | 13820 | 13590 | 12170 | 10090 | 7830 | 5580 | M42–M80 |
| PA3-900-11-490 | 914.4 | 36 | 72 | 69 | 780 | 30 11/16 | 108 | 220 | 281.3 | 18480 | 18480 | 18170 | 16260 | 13480 | 10470 | 7460 | M42–M80 |
| PA3-900-12-490 | 914.4 | 36 | 80 | 77 | 830 | 32 11/16 | 120 | 200 | 336.3 | 24550 | 24550 | 24550 | 22460 | 19610 | 16100 | 12100 | M72–M80 |
| PA3-900-13-490 | 914.4 | 36 | 80 | 85 | 820 | 32 5/16 | 120 | 230 | 381.4 | 29140 | 29140 | 29140 | 26670 | 23280 | 19110 | 14360 | M72–M80 |
| PA3-900-4-530 | 914.4 | 36 | 24 | 25 | 760 | 29 15/16 | 36 | 100 | 58.0 | 1830 | 1830 | 1830 | 1830 | 1430 | 1000 | 720 | M12–M36 |
| PA3-900-5-530 | 914.4 | 36 | 30 | 29 | 760 | 29 15/16 | 45 | 90 | 66.2 | 3050 | 3050 | 3050 | 2770 | 2040 | 1480 | 1050 | M12–M36 |
| PA3-900-6-530 | 914.4 | 36 | 36 | 41 | 760 | 29 15/16 | 54 | 100 | 89.5 | 3810 | 3810 | 3810 | 3810 | 3350 | 2500 | 1750 | M20–M64 |
| PA3-900-7-530 | 914.4 | 36 | 42 | 45 | 760 | 29 15/16 | 63 | 130 | 116.7 | 5470 | 5470 | 5470 | 5470 | 4380 | 3260 | 2290 | M30–M64 |
| PA3-900-8-530 | 914.4 | 36 | 48 | 52 | 760 | 29 15/16 | 72 | 120 | 146.3 | 10190 | 10190 | 10190 | 9330 | 7730 | 6010 | 4280 | M42–M80 |
| PA3-900-9-530 | 914.4 | 36 | 56 | 58 | 760 | 29 15/16 | 84 | 140 | 171.8 | 10000 | 10000 | 10000 | 10000 | 9070 | 7040 | 5020 | M42–M80 |
| PA3-900-10-530 | 914.4 | 36 | 64 | 65 | 770 | 30 5/16 | 96 | 180 | 225.4 | 14640 | 14640 | 14640 | 13690 | 11350 | 8810 | 6270 | M42–M80 |
| PA3-900-11-530 | 914.4 | 36 | 72 | 69 | 800 | 31 1/2 | 108 | 180 | 291.5 | 21200 | 21200 | 21200 | 21170 | 18480 | 15170 | 11400 | M42–M80 |
| PA3-900-12-530 | 914.4 | 36 | 80 | 77 | 830 | 32 11/16 | 120 | 210 | 352.4 | 25780 | 25780 | 25780 | 23590 | 20590 | 16900 | 12700 | M72–M80 |
| PA3-900-13-530 | 914.4 | 36 | 80 | 85 | 820 | 32 5/16 | 120 | 250 | 413.3 | 30680 | 30680 | 30680 | 28980 | 25300 | 20770 | 15610 | M72–M80 |
| PA3-900-4-560 | 914.4 | 36 | 24 | 25 | 790 | 31 1/8 | 36 | 110 | 64.8 | 1830 | 1830 | 1830 | 1830 | 1720 | 1370 | 1090 | M12–M36 |
| PA3-900-5-560 | 914.4 | 36 | 30 | 29 | 790 | 31 1/8 | 45 | 90 | 66.7 | 2320 | 2320 | 2320 | 2320 | 2310 | 1850 | 1480 | M12–M36 |
| PA3-900-6-560 | 914.4 | 36 | 36 | 41 | 790 | 31 1/8 | 54 | 100 | 89.9 | 3740 | 3740 | 3740 | 3740 | 3700 | 3000 | 2380 | M20–M64 |
| PA3-900-7-560 | 914.4 | 36 | 42 | 45 | 790 | 31 1/8 | 63 | 160 | 145.4 | 5470 | 5470 | 5470 | 5470 | 5470 | 4610 | 3660 | M30–M64 |
| PA3-900-8-560 | 914.4 | 36 | 48 | 52 | 790 | 31 1/8 | 72 | 120 | 148.5 | 10190 | 10190 | 10190 | 9430 | 7930 | 6540 | 5220 | M42–M80 |
| PA3-900-9-560 | 914.4 | 36 | 56 | 58 | 790 | 31 1/8 | 84 | 150 | 186.5 | 10000 | 10000 | 10000 | 10000 | 9970 | 8210 | 6560 | M42–M80 |
| PA3-900-10-560 | 914.4 | 36 | 64 | 65 | 790 | 31 1/8 | 96 | 210 | 264.4 | 14640 | 14640 | 14640 | 14640 | 13580 | 11190 | 8930 | M42–M80 |
| PA3-900-11-560 | 914.4 | 36 | 72 | 69 | 800 | 31 1/2 | 108 | 180 | 291.5 | 21200 | 21200 | 21200 | 21200 | 18700 | 15930 | 12960 | M42–M80 |
| PA3-900-12-560 | 914.4 | 36 | 80 | 77 | 830 | 32 11/16 | 120 | 240 | 400.7 | 29460 | 29460 | 29460 | 27130 | 23820 | 20280 | 16510 | M72–M80 |
| PA3-900-13-560 | 914.4 | 36 | 80 | 85 | 820 | 32 5/16 | 120 | 280 | 461.1 | 30680 | 30680 | 30680 | 30680 | 28680 | 24430 | 19880 | M72–M80 |
| PA3-900-4-600 | 914.4 | 36 | 24 | 25 | 790 | 31 1/8 | 36 | 100 | 73.6 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1630 | M12–M36 |
| PA3-900-5-600 | 914.4 | 36 | 30 | 29 | 790 | 31 1/8 | 45 | 100 | 88.8 | 2460 | 2460 | 2460 | 2460 | 2460 | 2460 | 2460 | M12–M36 |
| PA3-900-6-600 | 914.4 | 36 | 36 | 41 | 790 | 31 1/8 | 54 | 160 | 143.0 | 3740 | 3740 | 3740 | 3740 | 3740 | 3740 | 3740 | M20–M64 |
| PA3-900-7-600 | 914.4 | 36 | 42 | 45 | 790 | 31 1/8 | 63 | 120 | 145.9 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | 5380 | M30–M64 |
| PA3-900-8-600 | 914.4 | 36 | 48 | 52 | 790 | 31 1/8 | 72 | 180 | 221.0 | 10190 | 10190 | 10190 | 10190 | 10190 | 9800 | 7830 | M42–M80 |
| PA3-900-9-600 | 914.4 | 36 | 56 | 58 | 790 | 31 1/8 | 84 | 180 | 278.8 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | M42–M80 |
| PA3-900-10-600 | 914.4 | 36 | 64 | 65 | 790 | 31 1/8 | 96 | 190 | 299.3 | 15740 | 15740 | 15740 | 15740 | 15740 | 15740 | 14030 | M42–M80 |
| PA3-900-11-600 | 914.4 | 36 | 72 | 69 | 800 | 31 1/2 | 108 | 250 | 401.0 | 21200 | 21200 | 21200 | 21200 | 21200 | 21200 | 18000 | M42–M80 |
| PA3-900-12-600 | 914.4 | 36 | 80 | 77 | 830 | 32 11/16 | 120 | 340 | 561.7 | 30780 | 30780 | 30780 | 30780 | 30780 | 28730 | 23380 | M72–M80 |

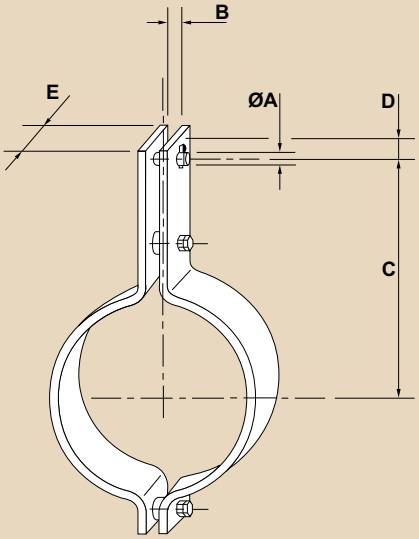
# PA3 PIPE CLAMP THREE BOLT TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA3-950-4-400 | 965.2 | 38 | 24 | 25 | 770 | 30 5/16 | 36 | 90 | 54.5 | 1830 | 1830 | | | | | | M12–M36 |
| PA3-950-5-400 | 965.2 | 38 | 30 | 29 | 770 | 30 5/16 | 45 | 110 | 67.8 | 2440 | 2340 | | | | | | M12–M36 |
| PA3-950-6-400 | 965.2 | 38 | 36 | 41 | 770 | 30 5/16 | 54 | 130 | 101.3 | 3810 | 3810 | | | | | | M20–M64 |
| PA3-950-7-400 | 965.2 | 38 | 42 | 45 | 770 | 30 5/16 | 63 | 150 | 142.6 | 5470 | 5470 | | | | | | M30–M64 |
| PA3-950-8-400 | 965.2 | 38 | 48 | 52 | 770 | 30 5/16 | 72 | 150 | 190.6 | 8410 | 8410 | | | | | | M42–M80 |
| PA3-950-9-400 | 965.2 | 38 | 56 | 58 | 790 | 31 1/8 | 84 | 150 | 196.7 | 10000 | 10000 | | | | | | M42–M80 |
| PA3-950-10-400 | 965.2 | 38 | 64 | 65 | 820 | 32 5/16 | 96 | 200 | 270.1 | 14900 | 14780 | | | | | | M42–M80 |
| PA3-950-11-400 | 965.2 | 38 | 72 | 69 | 850 | 33 7/16 | 108 | 200 | 350.3 | 21900 | 21830 | | | | | | M42–M80 |
| PA3-950-12-400 | 965.2 | 38 | 80 | 77 | 860 | 33 7/8 | 120 | 220 | 389.2 | 24170 | 24170 | | | | | | M72–M80 |
| PA3-950-13-400 | 965.2 | 38 | 80 | 85 | 870 | 34 1/4 | 120 | 280 | 499.3 | 30380 | 30280 | | | | | | M72–M80 |
| PA3-950-4-490 | 965.2 | 38 | 24 | 25 | 790 | 31 1/8 | 36 | 100 | 60.6 | 1830 | 1830 | 1830 | 1830 | 1430 | 1020 | 730 | M12–M36 |
| PA3-950-5-490 | 965.2 | 38 | 30 | 29 | 790 | 31 1/8 | 45 | 110 | 67.6 | 2650 | 2650 | 2490 | 2100 | 1490 | 1060 | 760 | M12–M36 |
| PA3-950-6-490 | 965.2 | 38 | 36 | 41 | 790 | 31 1/8 | 54 | 110 | 85.7 | 3810 | 3810 | 3790 | 3220 | 2400 | 1760 | 1240 | M20–M64 |
| PA3-950-7-490 | 965.2 | 38 | 42 | 45 | 790 | 31 1/8 | 63 | 110 | 103.5 | 5470 | 5470 | 5470 | 4740 | 3680 | 2760 | 1930 | M30–M64 |
| PA3-950-8-490 | 965.2 | 38 | 48 | 52 | 790 | 31 1/8 | 72 | 160 | 152.1 | 7930 | 7930 | 7680 | 6660 | 5180 | 3880 | 2720 | M42–M80 |
| PA3-950-9-490 | 965.2 | 38 | 56 | 58 | 790 | 31 1/8 | 84 | 140 | 181.7 | 10000 | 10000 | 10000 | 10000 | 8400 | 6560 | 4710 | M42–M80 |
| PA3-950-10-490 | 965.2 | 38 | 64 | 65 | 790 | 31 1/8 | 96 | 170 | 221.0 | 14070 | 14070 | 14070 | 12660 | 10610 | 8270 | 5940 | M42–M80 |
| PA3-950-11-490 | 965.2 | 38 | 72 | 69 | 830 | 32 11/16 | 108 | 180 | 303.9 | 20740 | 20740 | 20740 | 20120 | 17620 | 14620 | 11050 | M42–M80 |
| PA3-950-12-490 | 965.2 | 38 | 80 | 77 | 850 | 33 7/16 | 120 | 200 | 347.7 | 23830 | 23830 | 23830 | 21920 | 19190 | 15930 | 12040 | M72–M80 |
| PA3-950-13-490 | 965.2 | 38 | 80 | 85 | 850 | 33 7/16 | 120 | 240 | 414.0 | 28770 | 28770 | 28770 | 26470 | 23170 | 19230 | 14540 | M72–M80 |
| PA3-950-4-530 | 965.2 | 38 | 24 | 25 | 790 | 31 1/8 | 36 | 100 | 60.6 | 1830 | 1830 | 1830 | 1830 | 1430 | 1020 | 730 | M12–M36 |
| PA3-950-5-530 | 965.2 | 38 | 30 | 29 | 790 | 31 1/8 | 45 | 90 | 69.2 | 3050 | 3050 | 3050 | 2730 | 2030 | 1490 | 1050 | M12–M36 |
| PA3-950-6-530 | 965.2 | 38 | 36 | 41 | 790 | 31 1/8 | 54 | 100 | 93.5 | 3810 | 3810 | 3810 | 3810 | 3340 | 2500 | 1750 | M20–M64 |
| PA3-950-7-530 | 965.2 | 38 | 42 | 45 | 790 | 31 1/8 | 63 | 130 | 121.9 | 5470 | 5470 | 5470 | 5470 | 4350 | 3270 | 2290 | M30–M64 |
| PA3-950-8-530 | 965.2 | 38 | 48 | 52 | 790 | 31 1/8 | 72 | 120 | 153.0 | 9970 | 9970 | 9830 | 8830 | 7400 | 5780 | 4150 | M42–M80 |
| PA3-950-9-530 | 965.2 | 38 | 56 | 58 | 790 | 31 1/8 | 84 | 140 | 179.2 | 9910 | 9910 | 9910 | 9910 | 8990 | 7010 | 5040 | M42–M80 |
| PA3-950-10-530 | 965.2 | 38 | 64 | 65 | 790 | 31 1/8 | 96 | 180 | 233.6 | 14070 | 14070 | 14070 | 13400 | 11230 | 8760 | 6290 | M42–M80 |
| PA3-950-11-530 | 965.2 | 38 | 72 | 69 | 830 | 32 11/16 | 108 | 180 | 303.9 | 20740 | 20740 | 20740 | 20120 | 17620 | 14620 | 11050 | M42–M80 |
| PA3-950-12-530 | 965.2 | 38 | 80 | 77 | 850 | 33 7/16 | 120 | 220 | 381.1 | 26210 | 26210 | 26210 | 24110 | 21110 | 17520 | 13240 | M72–M80 |
| PA3-950-13-530 | 965.2 | 38 | 80 | 85 | 850 | 33 7/16 | 120 | 260 | 447.2 | 29960 | 29960 | 29960 | 28670 | 25100 | 20830 | 15750 | M72–M80 |
| PA3-950-4-560 | 965.2 | 38 | 24 | 25 | 820 | 32 5/16 | 36 | 110 | 67.7 | 1830 | 1830 | 1830 | 1830 | 1710 | 1370 | 1090 | M12–M36 |
| PA3-950-5-560 | 965.2 | 38 | 30 | 29 | 820 | 32 5/16 | 45 | 100 | 78.0 | 3050 | 3050 | 3050 | 3050 | 2420 | 1950 | 1550 | M12–M36 |
| PA3-950-6-560 | 965.2 | 38 | 36 | 41 | 820 | 32 5/16 | 54 | 110 | 104.2 | 3810 | 3810 | 3810 | 3810 | 3810 | 3140 | 2480 | M20–M64 |
| PA3-950-7-560 | 965.2 | 38 | 42 | 45 | 820 | 32 5/16 | 63 | 160 | 151.8 | 5470 | 5470 | 5470 | 5470 | 5470 | 4580 | 3630 | M30–M64 |
| PA3-950-8-560 | 965.2 | 38 | 48 | 52 | 820 | 32 5/16 | 72 | 120 | 155.2 | 9970 | 9970 | 9830 | 8930 | 7560 | 6250 | 5010 | M42–M80 |
| PA3-950-9-560 | 965.2 | 38 | 56 | 58 | 820 | 32 5/16 | 84 | 150 | 194.5 | 9910 | 9910 | 9910 | 9910 | 9840 | 8130 | 6510 | M42–M80 |
| PA3-950-10-560 | 965.2 | 38 | 64 | 65 | 820 | 32 5/16 | 96 | 210 | 275.4 | 14070 | 14070 | 14070 | 14070 | 13390 | 11060 | 8860 | M42–M80 |
| PA3-950-11-560 | 965.2 | 38 | 72 | 69 | 830 | 32 11/16 | 108 | 190 | 320.3 | 20740 | 20740 | 20740 | 20740 | 18820 | 16130 | 13160 | M42–M80 |
| PA3-950-12-560 | 965.2 | 38 | 80 | 77 | 850 | 33 7/16 | 120 | 240 | 414.5 | 28600 | 28600 | 28600 | 26450 | 23310 | 19980 | 16300 | M72–M80 |
| PA3-950-13-560 | 965.2 | 38 | 80 | 85 | 850 | 33 7/16 | 120 | 290 | 497.1 | 29960 | 29960 | 29960 | 29960 | 28340 | 24290 | 19810 | M72–M80 |
| PA3-950-4-600 | 965.2 | 38 | 24 | 25 | 820 | 32 5/16 | 36 | 100 | 76.9 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1620 | M12–M36 |
| PA3-950-5-600 | 965.2 | 38 | 30 | 29 | 820 | 32 5/16 | 45 | 100 | 92.8 | 2360 | 2360 | 2360 | 2360 | 2360 | 2360 | 2360 | M12–M36 |
| PA3-950-6-600 | 965.2 | 38 | 36 | 41 | 820 | 32 5/16 | 54 | 120 | 151.7 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | M20–M64 |
| PA3-950-7-600 | 965.2 | 38 | 42 | 45 | 820 | 32 5/16 | 63 | 130 | 165.1 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | M30–M64 |
| PA3-950-8-600 | 965.2 | 38 | 48 | 52 | 820 | 32 5/16 | 72 | 180 | 231.1 | 10020 | 10020 | 10020 | 10020 | 10020 | 9370 | 7510 | M42–M80 |
| PA3-950-9-600 | 965.2 | 38 | 56 | 58 | 820 | 32 5/16 | 84 | 180 | 291.2 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | M42–M80 |
| PA3-950-10-600 | 965.2 | 38 | 64 | 65 | 820 | 32 5/16 | 96 | 190 | 312.5 | 15410 | 15410 | 15410 | 15410 | 15410 | 15410 | 13480 | M42–M80 |
| PA3-950-11-600 | 965.2 | 38 | 72 | 69 | 830 | 32 11/16 | 108 | 260 | 434.6 | 20740 | 20740 | 20740 | 20740 | 20740 | 20740 | 18010 | M42–M80 |
| PA3-950-12-600 | 965.2 | 38 | 80 | 77 | 850 | 33 7/16 | 120 | 340 | 581.2 | 29550 | 29550 | 29550 | 29550 | 29550 | 28300 | 23080 | M72–M80 |

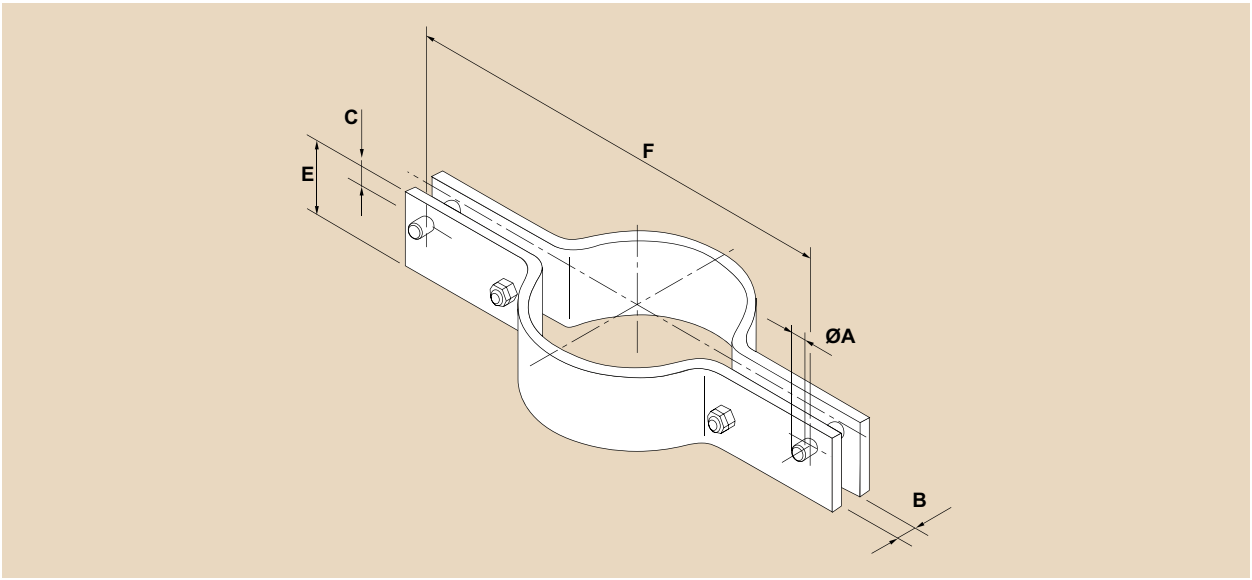
# PA3 PIPE CLAMP THREE BOLT TYPE




*Material: Carbon Steel to 400°C  Alloy Steel above 400°C*

| Part Number | Pipe O/D | | A | B | C | | D | E | Weight | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | mm | kgf | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA3-1000-4-400 | 1016 | 40 | 24 | 25 | 790 | 31 1/8 | 36 | 90 | 56.6 | 1810 | 1810 | | | | | | M12–M36 |
| PA3-1000-5-400 | 1016 | 40 | 30 | 29 | 790 | 31 1/8 | 45 | 110 | 87.6 | 3050 | 3050 | | | | | | M12–M36 |
| PA3-1000-6-400 | 1016 | 40 | 36 | 41 | 790 | 31 1/8 | 54 | 130 | 105.0 | 3810 | 3810 | | | | | | M20–M64 |
| PA3-1000-7-400 | 1016 | 40 | 42 | 45 | 790 | 31 1/8 | 63 | 150 | 147.7 | 5470 | 5470 | | | | | | M30–M64 |
| PA3-1000-8-400 | 1016 | 40 | 48 | 52 | 790 | 31 1/8 | 72 | 150 | 197.4 | 8150 | 8150 | | | | | | M42–M80 |
| PA3-1000-9-400 | 1016 | 40 | 56 | 58 | 810 | 31 7/8 | 84 | 150 | 203.5 | 10000 | 10000 | | | | | | M42–M80 |
| PA3-1000-10-400 | 1016 | 40 | 64 | 65 | 840 | 33 1/16 | 96 | 200 | 279.3 | 14440 | 14320 | | | | | | M42–M80 |
| PA3-1000-11-400 | 1016 | 40 | 72 | 69 | 880 | 34 5/8 | 108 | 200 | 363.1 | 21220 | 21140 | | | | | | M42–M80 |
| PA3-1000-12-400 | 1016 | 40 | 80 | 77 | 890 | 35 1/16 | 120 | 220 | 403.4 | 23370 | 23370 | | | | | | M72–M80 |
| PA3-1000-13-400 | 1016 | 40 | 80 | 85 | 900 | 35 7/16 | 120 | 280 | 517.4 | 29410 | 29300 | | | | | | M72–M80 |
| PA3-1000-4-490 | 1016 | 40 | 24 | 25 | 820 | 32 5/16 | 36 | 100 | 63.2 | 1830 | 1830 | 1830 | 1830 | 1370 | 960 | 690 | M12–M36 |
| PA3-1000-5-490 | 1016 | 40 | 30 | 29 | 820 | 32 5/16 | 45 | 110 | 70.5 | 2570 | 2570 | 2410 | 2030 | 1430 | 1010 | 730 | M12–M36 |
| PA3-1000-6-490 | 1016 | 40 | 36 | 41 | 820 | 32 5/16 | 54 | 110 | 89.3 | 3810 | 3810 | 3660 | 3110 | 2300 | 1670 | 1190 | M20–M64 |
| PA3-1000-7-490 | 1016 | 40 | 42 | 45 | 820 | 32 5/16 | 63 | 120 | 117.4 | 5470 | 5470 | 5470 | 4990 | 3850 | 2870 | 2010 | M30–M64 |
| PA3-1000-8-490 | 1016 | 40 | 48 | 52 | 820 | 32 5/16 | 72 | 160 | 158.3 | 7690 | 7690 | 7440 | 6420 | 4950 | 3700 | 2590 | M42–M80 |
| PA3-1000-9-490 | 1016 | 40 | 56 | 58 | 820 | 32 5/16 | 84 | 140 | 186.8 | 9810 | 9810 | 9810 | 9810 | 8320 | 6470 | 4620 | M42–M80 |
| PA3-1000-10-490 | 1016 | 40 | 64 | 65 | 820 | 32 5/16 | 96 | 180 | 243.6 | 13910 | 13910 | 13910 | 12530 | 10410 | 8100 | 5780 | M42–M80 |
| PA3-1000-11-490 | 1016 | 40 | 72 | 69 | 860 | 33 7/8 | 108 | 180 | 315.5 | 20070 | 20070 | 20070 | 19430 | 16980 | 13980 | 10520 | M42–M80 |
| PA3-1000-12-490 | 1016 | 40 | 80 | 77 | 880 | 34 5/8 | 120 | 200 | 360.6 | 23090 | 23090 | 23090 | 21160 | 18490 | 15230 | 11460 | M72–M80 |
| PA3-1000-13-490 | 1016 | 40 | 80 | 85 | 880 | 34 5/8 | 120 | 250 | 446.7 | 28960 | 28960 | 28960 | 26610 | 23250 | 19150 | 14410 | M72–M80 |
| PA3-1000-4-530 | 1016 | 40 | 24 | 25 | 820 | 32 5/16 | 36 | 100 | 63.2 | 1830 | 1830 | 1830 | 1830 | 1370 | 960 | 690 | M12–M36 |
| PA3-1000-5-530 | 1016 | 40 | 30 | 29 | 820 | 32 5/16 | 45 | 90 | 72.1 | 3050 | 3050 | 3050 | 2640 | 1950 | 1420 | 1010 | M12–M36 |
| PA3-1000-6-530 | 1016 | 40 | 36 | 41 | 820 | 32 5/16 | 54 | 100 | 97.4 | 3810 | 3810 | 3810 | 3810 | 3190 | 2380 | 1670 | M20–M64 |
| PA3-1000-7-530 | 1016 | 40 | 42 | 45 | 820 | 32 5/16 | 63 | 130 | 127.0 | 5470 | 5470 | 5470 | 5400 | 4170 | 3110 | 2180 | M30–M64 |
| PA3-1000-8-530 | 1016 | 40 | 48 | 52 | 820 | 32 5/16 | 72 | 120 | 159.2 | 9670 | 9670 | 9520 | 8530 | 7090 | 5520 | 3940 | M42–M80 |
| PA3-1000-9-530 | 1016 | 40 | 56 | 58 | 820 | 32 5/16 | 84 | 140 | 186.8 | 9810 | 9810 | 9810 | 9810 | 8320 | 6470 | 4620 | M42–M80 |
| PA3-1000-10-530 | 1016 | 40 | 64 | 65 | 820 | 32 5/16 | 96 | 200 | 269.9 | 13910 | 13910 | 13910 | 13910 | 11570 | 9000 | 6420 | M42–M80 |
| PA3-1000-11-530 | 1016 | 40 | 72 | 69 | 860 | 33 7/8 | 108 | 180 | 315.5 | 20070 | 20070 | 20070 | 19430 | 16980 | 13980 | 10520 | M42–M80 |
| PA3-1000-12-530 | 1016 | 40 | 80 | 77 | 880 | 34 5/8 | 120 | 220 | 395.3 | 25400 | 25400 | 25400 | 23280 | 20340 | 16750 | 12610 | M72–M80 |
| PA3-1000-13-530 | 1016 | 40 | 80 | 85 | 880 | 34 5/8 | 120 | 270 | 481.3 | 28960 | 28960 | 28960 | 28740 | 25110 | 20680 | 15560 | M72–M80 |
| PA3-1000-4-560 | 1016 | 40 | 24 | 25 | 840 | 33 1/16 | 36 | 110 | 70.2 | 1830 | 1830 | 1830 | 1830 | 1650 | 1310 | 1040 | M12–M36 |
| PA3-1000-5-560 | 1016 | 40 | 30 | 29 | 840 | 33 1/16 | 45 | 100 | 80.8 | 3050 | 3050 | 3050 | 2960 | 2320 | 1870 | 1480 | M12–M36 |
| PA3-1000-6-560 | 1016 | 40 | 36 | 41 | 840 | 33 1/16 | 54 | 110 | 108.0 | 3810 | 3810 | 3810 | 3810 | 3700 | 3010 | 2380 | M20–M64 |
| PA3-1000-7-560 | 1016 | 40 | 42 | 45 | 840 | 33 1/16 | 63 | 160 | 157.3 | 5470 | 5470 | 5470 | 5470 | 5410 | 4390 | 3480 | M30–M64 |
| PA3-1000-8-560 | 1016 | 40 | 48 | 52 | 840 | 33 1/16 | 72 | 130 | 173.8 | 9710 | 9710 | 9710 | 9340 | 7870 | 6490 | 5190 | M42–M80 |
| PA3-1000-9-560 | 1016 | 40 | 56 | 58 | 840 | 33 1/16 | 84 | 160 | 214.9 | 9810 | 9810 | 9810 | 9810 | 9740 | 8030 | 6420 | M42–M80 |
| PA3-1000-10-560 | 1016 | 40 | 64 | 65 | 840 | 33 1/16 | 96 | 180 | 306.7 | 14910 | 14910 | 14910 | 14910 | 14910 | 14910 | 12240 | M42–M80 |
| PA3-1000-11-560 | 1016 | 40 | 72 | 69 | 860 | 33 7/8 | 108 | 190 | 332.5 | 20070 | 20070 | 20070 | 20070 | 18140 | 15480 | 12600 | M42–M80 |
| PA3-1000-12-560 | 1016 | 40 | 80 | 77 | 880 | 34 5/8 | 120 | 250 | 447.3 | 28580 | 28580 | 28580 | 26610 | 23390 | 19960 | 16250 | M72–M80 |
| PA3-1000-13-560 | 1016 | 40 | 80 | 85 | 880 | 34 5/8 | 120 | 300 | 533.1 | 28960 | 28960 | 28960 | 28960 | 28240 | 24090 | 19620 | M72–M80 |
| PA3-1000-4-600 | 1016 | 40 | 24 | 25 | 840 | 33 1/16 | 36 | 110 | 87.7 | 1830 | 1830 | 1830 | 1830 | 1830 | 1830 | 1710 | M12–M36 |
| PA3-1000-5-600 | 1016 | 40 | 30 | 29 | 840 | 33 1/16 | 45 | 100 | 96.2 | 2290 | 2290 | 2290 | 2290 | 2290 | 2290 | 2290 | M12–M36 |
| PA3-1000-6-600 | 1016 | 40 | 36 | 41 | 840 | 33 1/16 | 54 | 120 | 157.2 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | 3810 | M20–M64 |
| PA3-1000-7-600 | 1016 | 40 | 42 | 45 | 840 | 33 1/16 | 63 | 140 | 184.1 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | M30–M64 |
| PA3-1000-8-600 | 1016 | 40 | 48 | 52 | 840 | 33 1/16 | 72 | 190 | 252.4 | 9710 | 9710 | 9710 | 9710 | 9710 | 9480 | 7580 | M42–M80 |
| PA3-1000-9-600 | 1016 | 40 | 56 | 58 | 840 | 33 1/16 | 84 | 180 | 301.4 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | M42–M80 |
| PA3-1000-10-600 | 1016 | 40 | 64 | 65 | 840 | 33 1/16 | 96 | 200 | 340.0 | 14910 | 14910 | 14910 | 14910 | 14910 | 14910 | 13600 | M42–M80 |
| PA3-1000-11-600 | 1016 | 40 | 72 | 69 | 860 | 33 7/8 | 108 | 280 | 485.4 | 20070 | 20070 | 20070 | 20070 | 20070 | 20070 | 18570 | M42–M80 |

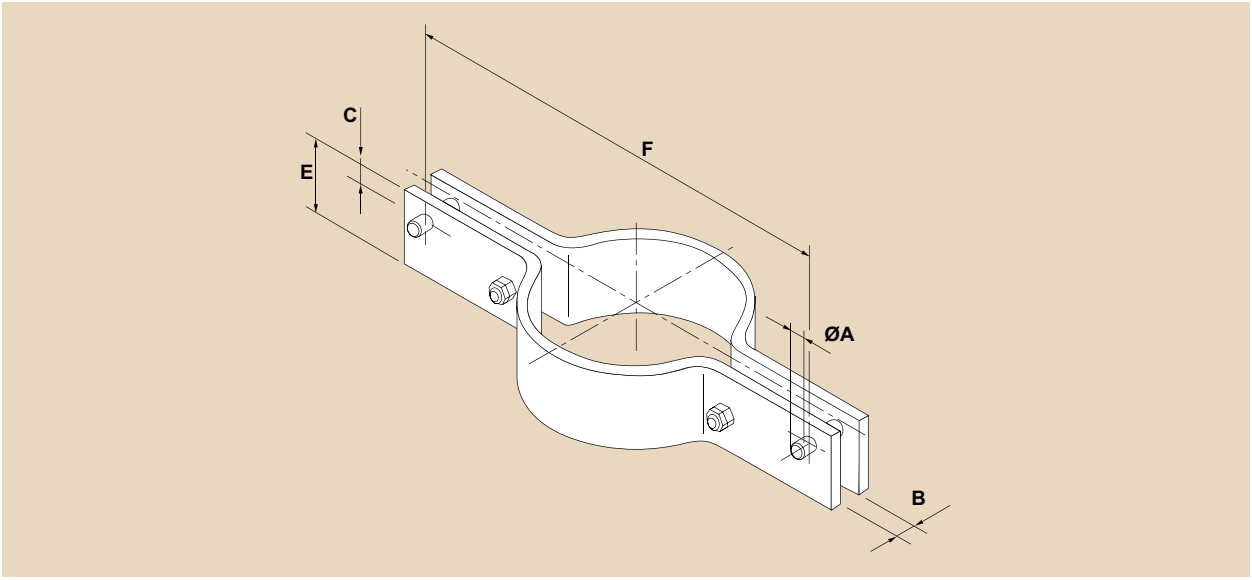
# PA4 PRESSED RISER CLAMP FOUR BOLT TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C* *Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA4-15-0-400 | 21.3 | 0.84 | 12 | 15 | 18 | 11/16 | 50 | 90 | 200 | 800 | 2.0 | 18.0 | 510 | 470 | | | | | | M8–M16 |
| PA4-15-0-490 | 21.3 | 0.84 | 12 | 15 | 18 | 11/16 | 50 | 90 | 200 | 800 | 2.0 | 18.0 | 520 | 520 | 460 | 340 | 210 | 150 | 120 | M8–M16 |
| PA4-15-0-530 | 21.3 | 0.84 | 12 | 15 | 18 | 11/16 | 70 | 120 | 200 | 800 | 2.8 | 24.0 | 720 | 720 | 640 | 490 | 300 | 220 | 160 | M8–M16 |
| PA4-15-0-560 | 21.3 | 0.84 | 12 | 15 | 18 | 11/16 | 70 | 90 | 200 | 800 | 3.3 | 24.0 | 780 | 780 | 780 | 670 | 490 | 390 | 310 | M8–M16 |
| PA4-15-0-600 | 21.3 | 0.84 | 12 | 15 | 18 | 11/16 | 70 | 130 | 200 | 800 | 4.1 | 34.6 | 780 | 780 | 780 | 780 | 750 | 590 | 470 | M8–M16 |
| PA4-20-0-400 | 26.7 | 1.05 | 12 | 15 | 18 | 11/16 | 50 | 90 | 200 | 800 | 2.0 | 18.0 | 510 | 470 | | | | | | M8–M16 |
| PA4-20-0-490 | 26.7 | 1.05 | 12 | 15 | 18 | 11/16 | 50 | 90 | 200 | 800 | 2.0 | 18.0 | 530 | 530 | 470 | 340 | 210 | 150 | 120 | M8–M16 |
| PA4-20-0-530 | 26.7 | 1.05 | 12 | 15 | 18 | 11/16 | 70 | 120 | 200 | 800 | 2.8 | 24.0 | 720 | 720 | 640 | 490 | 300 | 220 | 170 | M8–M16 |
| PA4-20-0-560 | 26.7 | 1.05 | 12 | 15 | 18 | 11/16 | 70 | 90 | 200 | 800 | 3.3 | 24.0 | 780 | 780 | 780 | 670 | 490 | 390 | 310 | M8–M16 |
| PA4-20-0-600 | 26.7 | 1.05 | 12 | 15 | 18 | 11/16 | 70 | 130 | 200 | 800 | 4.1 | 34.6 | 780 | 780 | 780 | 780 | 750 | 590 | 460 | M8–M16 |
| PA4-25-0-400 | 33.4 | 1.31 | 12 | 15 | 18 | 11/16 | 50 | 90 | 200 | 800 | 2.1 | 18.1 | 510 | 480 | | | | | | M8–M16 |
| PA4-25-0-490 | 33.4 | 1.31 | 12 | 15 | 18 | 11/16 | 50 | 90 | 200 | 800 | 2.1 | 18.1 | 530 | 530 | 480 | 360 | 220 | 160 | 120 | M8–M16 |
| PA4-25-0-530 | 33.4 | 1.31 | 12 | 15 | 18 | 11/16 | 70 | 120 | 200 | 800 | 2.8 | 24.1 | 730 | 730 | 650 | 500 | 320 | 230 | 170 | M8–M16 |
| PA4-25-0-560 | 33.4 | 1.31 | 12 | 15 | 18 | 11/16 | 60 | 90 | 200 | 800 | 2.9 | 24.1 | 780 | 780 | 780 | 660 | 480 | 380 | 300 | M8–M16 |
| PA4-25-0-600 | 33.4 | 1.31 | 12 | 15 | 18 | 11/16 | 90 | 130 | 200 | 800 | 4.3 | 34.7 | 780 | 780 | 780 | 780 | 750 | 600 | 470 | M8–M16 |
| PA4-32-0-400 | 42.2 | 1.66 | 12 | 15 | 18 | 11/16 | 50 | 90 | 200 | 800 | 2.1 | 18.1 | 520 | 480 | | | | | | M12–M16 |
| PA4-32-0-490 | 42.2 | 1.66 | 12 | 15 | 18 | 11/16 | 50 | 90 | 200 | 800 | 2.1 | 18.1 | 530 | 530 | 480 | 360 | 220 | 160 | 120 | M12–M16 |
| PA4-32-0-530 | 42.2 | 1.66 | 12 | 15 | 18 | 11/16 | 70 | 120 | 200 | 800 | 2.9 | 24.1 | 730 | 730 | 650 | 500 | 320 | 230 | 170 | M12–M16 |
| PA4-32-0-560 | 42.2 | 1.66 | 12 | 15 | 18 | 11/16 | 80 | 90 | 200 | 800 | 3.3 | 24.1 | 780 | 780 | 780 | 640 | 460 | 370 | 280 | M12–M16 |
| PA4-32-0-600 | 42.2 | 1.66 | 12 | 15 | 18 | 11/16 | 90 | 130 | 200 | 800 | 4.4 | 34.8 | 780 | 780 | 780 | 780 | 760 | 600 | 470 | M12–M16 |
| PA4-40-0-400 | 48.3 | 1.90 | 12 | 15 | 18 | 11/16 | 60 | 90 | 250 | 800 | 3.0 | 18.2 | 520 | 470 | | | | | | M8–M16 |
| PA4-40-0-490 | 48.3 | 1.90 | 12 | 15 | 18 | 11/16 | 60 | 90 | 250 | 800 | 3.0 | 18.2 | 540 | 540 | 470 | 340 | 210 | 150 | 120 | M8–M16 |
| PA4-40-0-530 | 48.3 | 1.90 | 12 | 15 | 18 | 11/16 | 80 | 120 | 250 | 800 | 3.9 | 24.2 | 740 | 740 | 640 | 470 | 290 | 210 | 160 | M8–M16 |
| PA4-40-0-560 | 48.3 | 1.90 | 12 | 15 | 18 | 11/16 | 80 | 90 | 250 | 800 | 4.7 | 24.2 | 780 | 780 | 780 | 680 | 500 | 400 | 310 | M8–M16 |
| PA4-40-0-600 | 48.3 | 1.90 | 12 | 15 | 18 | 11/16 | 80 | 130 | 250 | 800 | 5.8 | 34.9 | 780 | 780 | 780 | 780 | 760 | 610 | 480 | M8–M16 |
| PA4-50-0-400 | 60.3 | 2.38 | 12 | 15 | 18 | 11/16 | 60 | 120 | 250 | 1000 | 3.0 | 30.0 | 530 | 480 | | | | | | M8–M16 |
| PA4-50-1-400 | 60.3 | 2.38 | 16 | 17 | 24 | 15/16 | 70 | 100 | 250 | 1000 | 4.4 | 33.8 | 800 | 750 | | | | | | M8–M16 |
| PA4-50-2-400 | 60.3 | 2.38 | 16 | 17 | 24 | 15/16 | 90 | 140 | 250 | 1000 | 5.7 | 47.3 | 1170 | 1090 | | | | | | M12–M16 |
| PA4-50-0-490 | 60.3 | 2.38 | 12 | 15 | 18 | 11/16 | 60 | 120 | 250 | 1000 | 3.0 | 30.0 | 550 | 550 | 480 | 350 | 210 | 150 | 120 | M8–M16 |
| PA4-50-1-490 | 60.3 | 2.38 | 16 | 17 | 24 | 15/16 | 70 | 100 | 250 | 1000 | 4.4 | 33.8 | 830 | 830 | 750 | 600 | 380 | 270 | 200 | M8–M16 |
| PA4-50-2-490 | 60.3 | 2.38 | 16 | 17 | 24 | 15/16 | 90 | 140 | 250 | 1000 | 5.6 | 47.2 | 1210 | 1210 | 1090 | 800 | 500 | 360 | 270 | M12–M16 |
| PA4-50-0-530 | 60.3 | 2.38 | 12 | 15 | 18 | 11/16 | 80 | 80 | 250 | 1000 | 4.0 | 26.6 | 640 | 640 | 580 | 460 | 290 | 210 | 150 | M8–M16 |
| PA4-50-1-530 | 60.3 | 2.38 | 16 | 17 | 24 | 15/16 | 90 | 120 | 250 | 1000 | 5.6 | 40.5 | 1020 | 1020 | 930 | 740 | 490 | 340 | 240 | M8–M16 |
| PA4-50-2-530 | 60.3 | 2.38 | 16 | 17 | 24 | 15/16 | 80 | 110 | 250 | 1000 | 6.2 | 46.3 | 1390 | 1390 | 1290 | 1070 | 730 | 510 | 370 | M12–M16 |
| PA4-50-0-560 | 60.3 | 2.38 | 12 | 15 | 18 | 11/16 | 70 | 110 | 250 | 1000 | 4.2 | 36.6 | 780 | 780 | 780 | 640 | 460 | 370 | 280 | M8–M16 |
| PA4-50-1-560 | 60.3 | 2.38 | 16 | 17 | 24 | 15/16 | 70 | 160 | 250 | 1000 | 5.5 | 53.9 | 1390 | 1390 | 1280 | 1020 | 740 | 590 | 460 | M8–M16 |
| PA4-50-2-560 | 60.3 | 2.38 | 16 | 17 | 24 | 15/16 | 100 | 140 | 250 | 1000 | 7.8 | 59.0 | 1600 | 1600 | 1600 | 1430 | 1070 | 850 | 680 | M12–M16 |
| PA4-50-0-600 | 60.3 | 2.38 | 12 | 15 | 18 | 11/16 | 80 | 160 | 250 | 1000 | 5.9 | 53.1 | 780 | 780 | 780 | 780 | 770 | 610 | 480 | M8–M16 |
| PA4-50-1-600 | 60.3 | 2.38 | 16 | 17 | 24 | 15/16 | 110 | 150 | 250 | 1000 | 8.5 | 63.2 | 1600 | 1600 | 1600 | 1550 | 1160 | 920 | 730 | M8–M16 |
| PA4-50-2-600 | 60.3 | 2.38 | 16 | 17 | 24 | 15/16 | 110 | 150 | 300 | 1000 | 13 | 75.7 | 1600 | 1600 | 1600 | 1600 | 1600 | 1380 | 1100 | M12–M16 |

# PA4 PRESSED RISER CLAMP FOUR BOLT TYPE

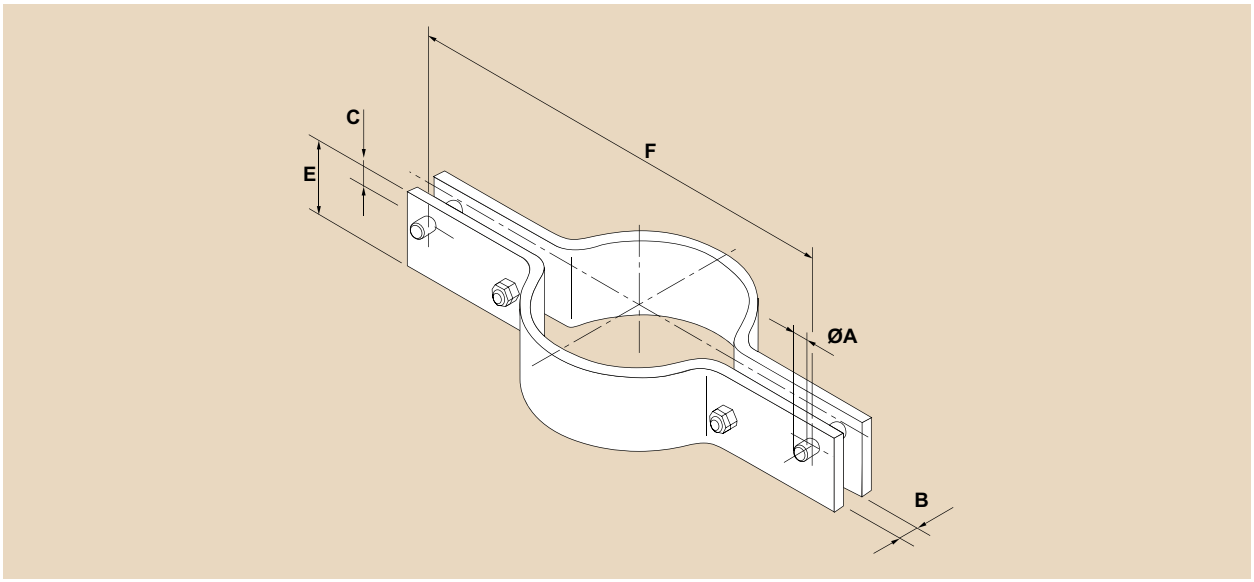



*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

*Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA4-65-0-400 | 73.0 | 2.88 | 12 | 15 | 18 | 11/16 | 60 | 120 | 250 | 1000 | 3.2 | 30.3 | 520 | 490 | | | | | | M8–M16 |
| PA4-65-1-400 | 73.0 | 2.88 | 16 | 17 | 24 | 15/16 | 80 | 100 | 300 | 1000 | 6.0 | 34.1 | 770 | 730 | | | | | | M8–M16 |
| PA4-65-2-400 | 73.0 | 2.88 | 16 | 17 | 24 | 15/16 | 70 | 140 | 300 | 1000 | 6.5 | 47.6 | 1120 | 1060 | | | | | | M8–M16 |
| PA4-65-0-490 | 73.0 | 2.88 | 12 | 15 | 18 | 11/16 | 60 | 120 | 250 | 1000 | 3.1 | 30.2 | 530 | 530 | 490 | 390 | 260 | 180 | 130 | M8–M16 |
| PA4-65-1-490 | 73.0 | 2.88 | 16 | 17 | 24 | 15/16 | 80 | 100 | 250 | 1000 | 4.3 | 34.0 | 790 | 790 | 720 | 550 | 350 | 250 | 190 | M8–M16 |
| PA4-65-2-490 | 73.0 | 2.88 | 16 | 17 | 24 | 15/16 | 70 | 140 | 300 | 1000 | 6.5 | 47.6 | 1150 | 1150 | 1070 | 870 | 580 | 400 | 290 | M8–M16 |
| PA4-65-0-530 | 73.0 | 2.88 | 12 | 15 | 18 | 11/16 | 70 | 80 | 250 | 1000 | 3.6 | 26.8 | 610 | 610 | 570 | 470 | 310 | 220 | 160 | M8–M16 |
| PA4-65-1-530 | 73.0 | 2.88 | 16 | 17 | 24 | 15/16 | 60 | 120 | 300 | 1000 | 5.5 | 40.8 | 950 | 950 | 900 | 730 | 480 | 340 | 240 | M8–M16 |
| PA4-65-2-530 | 73.0 | 2.88 | 16 | 17 | 24 | 15/16 | 90 | 110 | 300 | 1000 | 8.2 | 46.6 | 1390 | 1390 | 1320 | 1110 | 760 | 530 | 380 | M8–M16 |
| PA4-65-0-560 | 73.0 | 2.88 | 12 | 15 | 18 | 11/16 | 70 | 100 | 250 | 1000 | 4.3 | 33.5 | 780 | 780 | 730 | 620 | 460 | 360 | 290 | M8–M16 |
| PA4-65-1-560 | 73.0 | 2.88 | 16 | 17 | 24 | 15/16 | 80 | 150 | 300 | 1000 | 7.4 | 51.0 | 1240 | 1240 | 1160 | 970 | 730 | 580 | 460 | M8–M16 |
| PA4-65-2-560 | 73.0 | 2.88 | 16 | 17 | 24 | 15/16 | 110 | 140 | 300 | 1000 | 10.0 | 59.3 | 1600 | 1600 | 1600 | 1470 | 1090 | 860 | 680 | M8–M16 |
| PA4-65-0-600 | 73.0 | 2.88 | 12 | 15 | 18 | 11/16 | 80 | 160 | 300 | 1000 | 7.0 | 53.5 | 780 | 780 | 780 | 780 | 760 | 600 | 480 | M8–M16 |
| PA4-65-1-600 | 73.0 | 2.88 | 16 | 17 | 24 | 15/16 | 120 | 140 | 300 | 1000 | 11 | 59.3 | 1600 | 1600 | 1600 | 1480 | 1140 | 910 | 720 | M8–M16 |
| PA4-65-2-600 | 73.0 | 2.88 | 16 | 17 | 24 | 15/16 | 100 | 200 | 300 | 1000 | 12 | 84.6 | 1600 | 1600 | 1600 | 1600 | 1600 | 1350 | 1070 | M8–M16 |
| PA4-80-0-400 | 88.9 | 3.5 | 12 | 15 | 18 | 11/16 | 70 | 120 | 300 | 1000 | 4.3 | 30.4 | 510 | 470 | | | | | | M12–M16 |
| PA4-80-1-400 | 88.9 | 3.5 | 16 | 17 | 24 | 15/16 | 80 | 110 | 300 | 1000 | 6.0 | 37.6 | 840 | 790 | | | | | | M8–M16 |
| PA4-80-2-400 | 88.9 | 3.5 | 16 | 17 | 24 | 15/16 | 90 | 150 | 350 | 1000 | 9.5 | 51.3 | 1180 | 1110 | | | | | | M12–M16 |
| PA4-80-0-490 | 88.9 | 3.5 | 12 | 15 | 18 | 11/16 | 70 | 120 | 300 | 1000 | 4.2 | 30.4 | 520 | 520 | 470 | 360 | 230 | 160 | 120 | M12–M16 |
| PA4-80-1-490 | 88.9 | 3.5 | 16 | 17 | 24 | 15/16 | 80 | 110 | 300 | 1000 | 6.0 | 37.6 | 870 | 870 | 790 | 620 | 390 | 280 | 210 | M12–M16 |
| PA4-80-2-490 | 88.9 | 3.5 | 16 | 17 | 24 | 15/16 | 70 | 150 | 300 | 1000 | 6.6 | 51.2 | 1220 | 1220 | 1110 | 860 | 560 | 390 | 290 | M8–M16 |
| PA4-80-0-530 | 88.9 | 3.5 | 12 | 15 | 18 | 11/16 | 70 | 90 | 300 | 1000 | 5.0 | 30.3 | 680 | 680 | 630 | 510 | 340 | 240 | 170 | M12–M16 |
| PA4-80-1-530 | 88.9 | 3.5 | 16 | 17 | 24 | 15/16 | 60 | 130 | 300 | 1000 | 5.7 | 44.4 | 1040 | 1040 | 930 | 720 | 470 | 330 | 240 | M12–M16 |
| PA4-80-2-530 | 88.9 | 3.5 | 16 | 17 | 24 | 15/16 | 90 | 120 | 300 | 1000 | 8.4 | 51.1 | 1500 | 1500 | 1400 | 1140 | 740 | 520 | 380 | M8–M16 |
| PA4-80-0-560 | 88.9 | 3.5 | 12 | 15 | 18 | 11/16 | 80 | 110 | 300 | 1000 | 5.7 | 37.0 | 710 | 710 | 710 | 650 | 470 | 380 | 290 | M12–M16 |
| PA4-80-1-560 | 88.9 | 3.5 | 16 | 17 | 24 | 15/16 | 80 | 160 | 300 | 1000 | 7.5 | 54.6 | 1300 | 1300 | 1200 | 980 | 730 | 580 | 460 | M12–M16 |
| PA4-80-2-560 | 88.9 | 3.5 | 16 | 17 | 24 | 15/16 | 110 | 140 | 300 | 1000 | 10 | 59.6 | 1600 | 1600 | 1600 | 1410 | 1060 | 840 | 670 | M8–M16 |
| PA4-80-0-600 | 88.9 | 3.5 | 12 | 15 | 18 | 11/16 | 80 | 110 | 300 | 1000 | 7.1 | 46.2 | 780 | 780 | 780 | 780 | 760 | 600 | 470 | M12–M16 |
| PA4-80-1-600 | 88.9 | 3.5 | 16 | 17 | 24 | 15/16 | 120 | 150 | 300 | 1000 | 11 | 63.8 | 1600 | 1600 | 1600 | 1520 | 1150 | 910 | 720 | M12–M16 |
| PA4-80-2-600 | 88.9 | 3.5 | 16 | 17 | 24 | 15/16 | 100 | 150 | 300 | 1000 | 12 | 76.4 | 1600 | 1600 | 1600 | 1600 | 1600 | 1410 | 1120 | M8–M16 |
| PA4-90-0-400 | 101.6 | 4 | 12 | 15 | 18 | 11/16 | 70 | 120 | 300 | 1000 | 4.3 | 30.6 | 500 | 470 | | | | | | M8–M16 |
| PA4-90-1-400 | 101.6 | 4 | 16 | 17 | 24 | 15/16 | 70 | 110 | 300 | 1000 | 5.4 | 37.8 | 820 | 760 | | | | | | M8–M16 |
| PA4-90-2-400 | 101.6 | 4 | 16 | 17 | 24 | 15/16 | 80 | 150 | 350 | 1000 | 8.6 | 51.5 | 1160 | 1080 | | | | | | M8–M16 |
| PA4-90-0-490 | 101.6 | 4 | 12 | 15 | 18 | 11/16 | 70 | 120 | 300 | 1000 | 4.3 | 30.5 | 520 | 520 | 470 | 360 | 230 | 160 | 120 | M8–M16 |
| PA4-90-1-490 | 101.6 | 4 | 16 | 17 | 24 | 15/16 | 70 | 110 | 300 | 1000 | 5.4 | 37.8 | 850 | 850 | 750 | 560 | 350 | 250 | 190 | M8–M16 |
| PA4-90-2-490 | 101.6 | 4 | 16 | 17 | 24 | 15/16 | 70 | 150 | 300 | 1000 | 6.6 | 51.4 | 1200 | 1200 | 1100 | 880 | 580 | 410 | 290 | M8–M16 |
| PA4-90-0-530 | 101.6 | 4 | 12 | 15 | 18 | 11/16 | 60 | 90 | 300 | 1000 | 4.4 | 30.5 | 600 | 600 | 600 | 470 | 300 | 210 | 160 | M8–M16 |
| PA4-90-1-530 | 101.6 | 4 | 16 | 17 | 24 | 15/16 | 90 | 130 | 300 | 1000 | 6.9 | 44.6 | 1030 | 1030 | 940 | 740 | 470 | 330 | 250 | M8–M16 |
| PA4-90-2-530 | 101.6 | 4 | 16 | 17 | 24 | 15/16 | 90 | 120 | 300 | 1000 | 8.5 | 51.3 | 1480 | 1480 | 1370 | 1150 | 760 | 540 | 400 | M8–M16 |
| PA4-90-0-560 | 101.6 | 4 | 12 | 15 | 18 | 11/16 | 80 | 110 | 300 | 1000 | 5.9 | 37.3 | 780 | 780 | 780 | 640 | 470 | 370 | 290 | M8–M16 |
| PA4-90-1-560 | 101.6 | 4 | 16 | 17 | 24 | 15/16 | 80 | 110 | 300 | 1000 | 7.6 | 47.1 | 1340 | 1340 | 1250 | 1050 | 790 | 620 | 490 | M8–M16 |
| PA4-90-2-560 | 101.6 | 4 | 16 | 17 | 24 | 15/16 | 110 | 150 | 300 | 1000 | 10 | 64.1 | 1580 | 1580 | 1580 | 1490 | 1120 | 880 | 690 | M8–M16 |
| PA4-90-0-600 | 101.6 | 4 | 12 | 15 | 18 | 11/16 | 80 | 110 | 300 | 1000 | 7.2 | 46.4 | 780 | 780 | 780 | 780 | 780 | 620 | 490 | M8–M16 |
| PA4-90-1-600 | 101.6 | 4 | 16 | 17 | 24 | 15/16 | 120 | 160 | 300 | 1000 | 11 | 68.4 | 1580 | 1580 | 1580 | 1560 | 1200 | 950 | 760 | M8–M16 |
| PA4-90-2-600 | 101.6 | 4 | 16 | 17 | 24 | 15/16 | 120 | 150 | 350 | 1000 | 16 | 76.7 | 1600 | 1600 | 1600 | 1600 | 1580 | 1370 | 1090 | M8–M16 |

# PA4 PRESSED RISER CLAMP FOUR BOLT TYPE

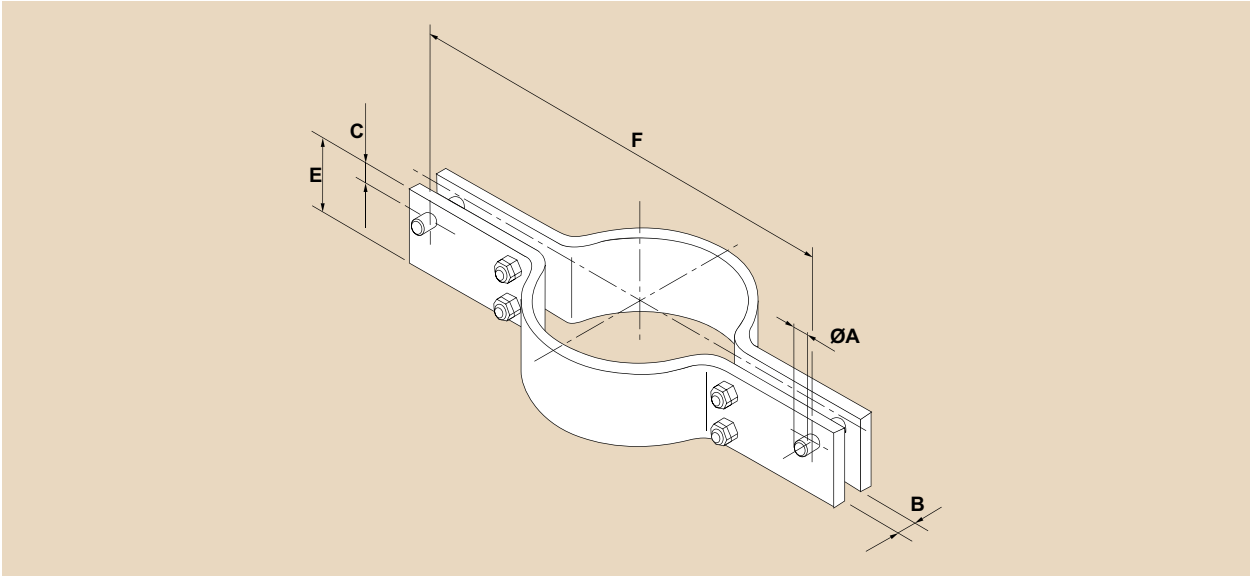



*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

*Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA4-100-0-400 | 114.3 | 4.5 | 12 | 15 | 18 | 11/16 | 60 | 90 | 300 | 1200 | 3.8 | 36.3 | 530 | 480 | | | | | | M12–M16 |
| PA4-100-1-400 | 114.3 | 4.5 | 16 | 17 | 24 | 15/16 | 80 | 130 | 350 | 1200 | 7.1 | 53.1 | 800 | 740 | | | | | | M12–M16 |
| PA4-100-2-400 | 114.3 | 4.5 | 16 | 17 | 24 | 15/16 | 80 | 120 | 350 | 1200 | 8.7 | 61.2 | 1160 | 1110 | | | | | | M12–M16 |
| PA4-100-3-400 | 114.3 | 4.5 | 20 | 20 | 30 | 13/16 | 100 | 150 | 400 | 1200 | 16.5 | 92.6 | 2170 | 2090 | | | | | | M8–M16 |
| PA4-100-0-490 | 114.3 | 4.5 | 12 | 15 | 18 | 11/16 | 60 | 90 | 300 | 1200 | 3.8 | 36.3 | 540 | 540 | 480 | 360 | 220 | 160 | 120 | M12–M16 |
| PA4-100-1-490 | 114.3 | 4.5 | 16 | 17 | 24 | 15/16 | 80 | 130 | 350 | 1200 | 7.0 | 53.0 | 830 | 830 | 740 | 560 | 350 | 250 | 190 | M12–M16 |
| PA4-100-2-490 | 114.3 | 4.5 | 16 | 17 | 24 | 15/16 | 80 | 120 | 350 | 1200 | 8.6 | 61.1 | 1190 | 1190 | 1120 | 890 | 580 | 410 | 300 | M12–M16 |
| PA4-100-3-490 | 114.3 | 4.5 | 20 | 20 | 30 | 13/16 | 100 | 150 | 400 | 1200 | 16.3 | 92.5 | 2240 | 2240 | 2130 | 1740 | 1170 | 820 | 580 | M8–M16 |
| PA4-100-0-530 | 114.3 | 4.5 | 12 | 15 | 18 | 11/16 | 80 | 100 | 300 | 1200 | 5.0 | 40.4 | 620 | 620 | 570 | 460 | 300 | 220 | 150 | M12–M16 |
| PA4-100-1-530 | 114.3 | 4.5 | 16 | 17 | 24 | 15/16 | 70 | 150 | 350 | 1200 | 7.6 | 61.1 | 970 | 970 | 890 | 720 | 480 | 340 | 240 | M12–M16 |
| PA4-100-2-530 | 114.3 | 4.5 | 16 | 17 | 24 | 15/16 | 100 | 140 | 350 | 1200 | 10.7 | 71.2 | 1330 | 1330 | 1330 | 1110 | 740 | 520 | 380 | M12–M16 |
| PA4-100-3-530 | 114.3 | 4.5 | 20 | 20 | 30 | 13/16 | 120 | 170 | 400 | 1200 | 19.5 | 104.7 | 2570 | 2570 | 2450 | 2070 | 1430 | 1000 | 710 | M8–M16 |
| PA4-100-0-560 | 114.3 | 4.5 | 12 | 15 | 18 | 11/16 | 70 | 130 | 300 | 1200 | 5.2 | 52.4 | 780 | 780 | 760 | 630 | 470 | 370 | 290 | M12–M16 |
| PA4-100-1-560 | 114.3 | 4.5 | 16 | 17 | 24 | 15/16 | 90 | 130 | 350 | 1200 | 9.7 | 66.1 | 1310 | 1310 | 1230 | 1040 | 770 | 610 | 480 | M12–M16 |
| PA4-100-2-560 | 114.3 | 4.5 | 16 | 17 | 24 | 15/16 | 70 | 180 | 350 | 1200 | 10.0 | 91.4 | 1360 | 1360 | 1360 | 1360 | 1060 | 840 | 670 | M12–M16 |
| PA4-100-3-560 | 114.3 | 4.5 | 20 | 20 | 30 | 13/16 | 150 | 210 | 400 | 1200 | 24.2 | 129.2 | 2630 | 2630 | 2630 | 2630 | 2060 | 1630 | 1290 | M8–M16 |
| PA4-100-0-600 | 114.3 | 4.5 | 12 | 15 | 18 | 11/16 | 90 | 130 | 350 | 1200 | 9.3 | 65.4 | 780 | 780 | 780 | 780 | 770 | 610 | 480 | M12–M16 |
| PA4-100-1-600 | 114.3 | 4.5 | 16 | 17 | 24 | 15/16 | 80 | 190 | 350 | 1200 | 11.4 | 96.5 | 1360 | 1360 | 1360 | 1360 | 1190 | 940 | 750 | M12–M16 |
| PA4-100-2-600 | 114.3 | 4.5 | 16 | 17 | 24 | 15/16 | 110 | 180 | 350 | 1200 | 15.6 | 109.6 | 1600 | 1600 | 1600 | 1600 | 1600 | 1380 | 1100 | M12–M16 |
| PA4-100-3-600 | 114.3 | 4.5 | 20 | 20 | 30 | 13/16 | 150 | 220 | 400 | 1200 | 30.0 | 157.6 | 2630 | 2630 | 2630 | 2630 | 2630 | 2550 | 2020 | M8–M16 |
| PA4-125-0-400 | 141.3 | 5.56 | 12 | 15 | 18 | 11/16 | 70 | 90 | 350 | 1200 | 5.1 | 36.7 | 530 | 500 | | | | | | M8–M16 |
| PA4-125-1-400 | 141.3 | 5.56 | 16 | 17 | 24 | 15/16 | 90 | 130 | 400 | 1200 | 9.0 | 53.6 | 800 | 750 | | | | | | M8–M16 |
| PA4-125-2-400 | 141.3 | 5.56 | 16 | 17 | 24 | 15/16 | 90 | 120 | 400 | 1200 | 11.3 | 61.8 | 1150 | 1090 | | | | | | M12–M24 |
| PA4-125-3-400 | 141.3 | 5.56 | 20 | 20 | 30 | 13/16 | 110 | 150 | 450 | 1200 | 20.5 | 93.7 | 2130 | 2050 | | | | | | M8–M16 |
| PA4-125-0-490 | 141.3 | 5.56 | 12 | 15 | 18 | 11/16 | 70 | 90 | 350 | 1200 | 5.1 | 36.7 | 550 | 550 | 500 | 370 | 230 | 160 | 130 | M8–M16 |
| PA4-125-1-490 | 141.3 | 5.56 | 16 | 17 | 24 | 15/16 | 80 | 130 | 350 | 1200 | 7.2 | 53.5 | 830 | 830 | 760 | 610 | 390 | 280 | 200 | M8–M16 |
| PA4-125-2-490 | 141.3 | 5.56 | 16 | 17 | 24 | 15/16 | 90 | 120 | 400 | 1200 | 11.1 | 61.7 | 1180 | 1180 | 1100 | 900 | 580 | 410 | 300 | M12–M16 |
| PA4-125-3-490 | 141.3 | 5.56 | 20 | 20 | 30 | 13/16 | 110 | 150 | 450 | 1200 | 20.2 | 93.4 | 2200 | 2200 | 2080 | 1740 | 1160 | 810 | 580 | M12–M24 |
| PA4-125-0-530 | 141.3 | 5.56 | 12 | 15 | 18 | 11/16 | 70 | 110 | 350 | 1200 | 6.1 | 44.8 | 690 | 690 | 630 | 500 | 340 | 230 | 170 | M8–M16 |
| PA4-125-1-530 | 141.3 | 5.56 | 16 | 17 | 24 | 15/16 | 70 | 160 | 350 | 1200 | 7.8 | 65.8 | 1030 | 1030 | 950 | 760 | 510 | 350 | 250 | M8–M16 |
| PA4-125-2-530 | 141.3 | 5.56 | 16 | 17 | 24 | 15/16 | 110 | 140 | 400 | 1200 | 13.5 | 71.9 | 1400 | 1400 | 1310 | 1090 | 720 | 510 | 380 | M12–M16 |
| PA4-125-3-530 | 141.3 | 5.56 | 20 | 20 | 30 | 13/16 | 130 | 170 | 450 | 1200 | 23.7 | 105.8 | 2530 | 2530 | 2400 | 2030 | 1400 | 980 | 690 | M12–M24 |
| PA4-125-0-560 | 141.3 | 5.56 | 12 | 15 | 18 | 11/16 | 80 | 140 | 350 | 1200 | 6.9 | 57.0 | 780 | 780 | 780 | 650 | 470 | 370 | 290 | M8–M16 |
| PA4-125-1-560 | 141.3 | 5.56 | 16 | 17 | 24 | 15/16 | 80 | 130 | 350 | 1200 | 8.9 | 66.7 | 1030 | 1030 | 1030 | 1020 | 740 | 590 | 460 | M8–M16 |
| PA4-125-2-560 | 141.3 | 5.56 | 16 | 17 | 24 | 15/16 | 80 | 180 | 400 | 1200 | 13.0 | 92.3 | 1600 | 1600 | 1600 | 1460 | 1090 | 860 | 690 | M12–M16 |
| PA4-125-3-560 | 141.3 | 5.56 | 20 | 20 | 30 | 13/16 | 110 | 220 | 450 | 1200 | 25.0 | 136.7 | 2630 | 2630 | 2630 | 2630 | 2100 | 1680 | 1340 | M12–M24 |
| PA4-125-0-600 | 141.3 | 5.56 | 12 | 15 | 18 | 11/16 | 80 | 130 | 350 | 1200 | 8.6 | 66.0 | 780 | 780 | 780 | 780 | 740 | 590 | 460 | M8–M16 |
| PA4-125-1-600 | 141.3 | 5.56 | 16 | 17 | 24 | 15/16 | 90 | 190 | 400 | 1200 | 14.6 | 97.4 | 1600 | 1600 | 1600 | 1540 | 1160 | 920 | 730 | M8–M16 |
| PA4-125-2-600 | 141.3 | 5.56 | 16 | 17 | 24 | 15/16 | 120 | 180 | 400 | 1200 | 19.3 | 110.6 | 1600 | 1600 | 1600 | 1600 | 1600 | 1340 | 1070 | M12–M24 |
| PA4-125-3-600 | 141.3 | 5.56 | 20 | 20 | 30 | 13/16 | 160 | 230 | 450 | 1200 | 36.1 | 166.3 | 2630 | 2630 | 2630 | 2630 | 2630 | 2580 | 2050 | M12–M24 |

# PA6 PRESSED RISER CLAMP SIX BOLT TYPE

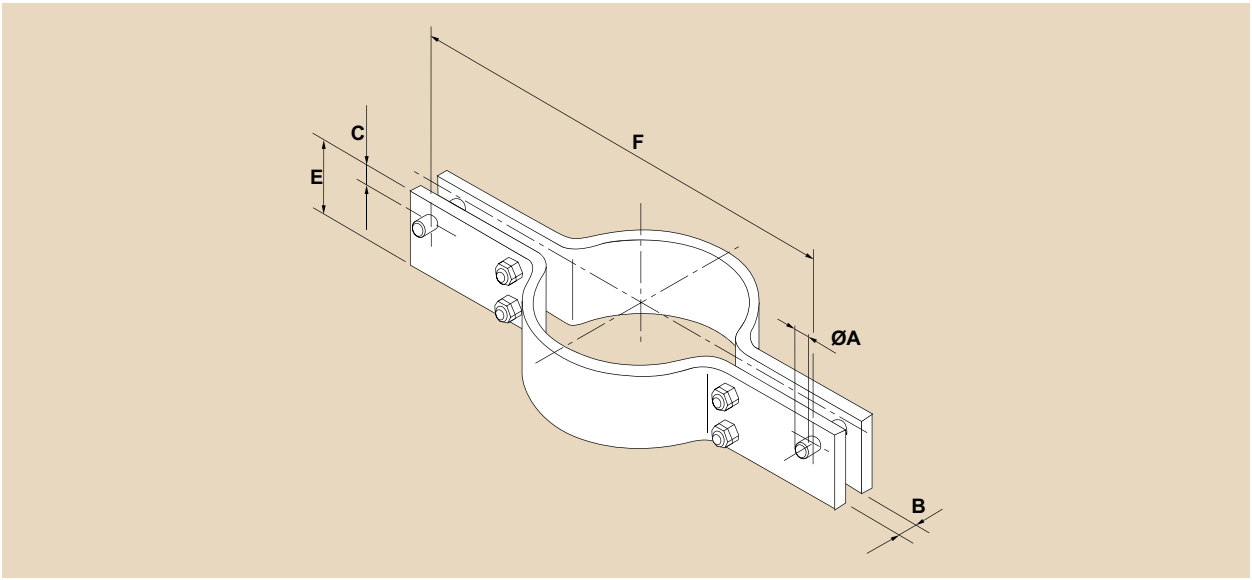



*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

*Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA6-150-0-400 | 168.3 | 6.63 | 12 | 15 | 18 | 11/16 | 80 | 90 | 350 | 1200 | 6.0 | 37.1 | 540 | 500 | | | | | | M8–M16 |
| PA6-150-1-400 | 168.3 | 6.63 | 16 | 17 | 24 | 15/16 | 80 | 130 | 400 | 1200 | 8.1 | 54.1 | 810 | 750 | | | | | | M8–M16 |
| PA6-150-2-400 | 168.3 | 6.63 | 16 | 17 | 24 | 15/16 | 100 | 120 | 400 | 1200 | 12.7 | 62.4 | 1150 | 1100 | | | | | | M8–M16 |
| PA6-150-3-400 | 168.3 | 6.63 | 20 | 20 | 30 | 13/16 | 100 | 150 | 450 | 1200 | 18.7 | 94.1 | 2130 | 2050 | | | | | | M12–M24 |
| PA6-150-4-400 | 168.3 | 6.63 | 24 | 25 | 36 | 17/16 | 150 | 230 | 450 | 1200 | 28.6 | 145.7 | 3430 | 3310 | | | | | | M12–M36 |
| PA6-150-0-490 | 168.3 | 6.63 | 12 | 15 | 18 | 11/16 | 80 | 90 | 350 | 1200 | 6.0 | 37.1 | 550 | 550 | 510 | 410 | 280 | 190 | 140 | M8–M16 |
| PA6-150-1-490 | 168.3 | 6.63 | 16 | 17 | 24 | 15/16 | 80 | 130 | 400 | 1200 | 8.1 | 54.1 | 830 | 830 | 750 | 560 | 360 | 250 | 190 | M8–M16 |
| PA6-150-2-490 | 168.3 | 6.63 | 16 | 17 | 24 | 15/16 | 80 | 120 | 400 | 1200 | 10.1 | 62.2 | 1180 | 1180 | 1110 | 890 | 580 | 410 | 300 | M8–M16 |
| PA6-150-3-490 | 168.3 | 6.63 | 20 | 20 | 30 | 13/16 | 100 | 150 | 450 | 1200 | 18.7 | 94.1 | 2190 | 2190 | 2090 | 1740 | 1170 | 810 | 580 | M12–M24 |
| PA6-150-4-490 | 168.3 | 6.63 | 24 | 25 | 36 | 17/16 | 150 | 220 | 450 | 1200 | 28.6 | 139.2 | 3370 | 3370 | 3200 | 2710 | 1820 | 1270 | 900 | M12–M36 |
| PA6-150-0-530 | 168.3 | 6.63 | 12 | 15 | 18 | 11/16 | 80 | 100 | 350 | 1200 | 6.0 | 41.2 | 620 | 620 | 570 | 460 | 290 | 210 | 150 | M8–M16 |
| PA6-150-1-530 | 168.3 | 6.63 | 16 | 17 | 24 | 15/16 | 80 | 150 | 400 | 1200 | 10.1 | 62.4 | 970 | 970 | 890 | 720 | 480 | 340 | 240 | M8–M16 |
| PA6-150-2-530 | 168.3 | 6.63 | 16 | 17 | 24 | 15/16 | 100 | 140 | 400 | 1200 | 12.5 | 72.6 | 1410 | 1410 | 1310 | 1100 | 740 | 520 | 380 | M8–M16 |
| PA6-150-3-530 | 168.3 | 6.63 | 20 | 20 | 30 | 13/16 | 120 | 170 | 450 | 1200 | 22.2 | 106.5 | 2520 | 2520 | 2400 | 2030 | 1430 | 1000 | 710 | M12–M24 |
| PA6-150-4-530 | 168.3 | 6.63 | 24 | 25 | 36 | 17/16 | 120 | 190 | 450 | 1200 | 28.4 | 140.0 | 3660 | 3660 | 3660 | 3240 | 2370 | 1660 | 1200 | M12–M36 |
| PA6-150-0-560 | 168.3 | 6.63 | 12 | 15 | 18 | 11/16 | 80 | 130 | 350 | 1200 | 7.1 | 53.5 | 780 | 780 | 770 | 630 | 470 | 370 | 290 | M8–M16 |
| PA6-150-1-560 | 168.3 | 6.63 | 16 | 17 | 24 | 15/16 | 90 | 130 | 400 | 1200 | 11.3 | 67.4 | 1300 | 1300 | 1220 | 1030 | 770 | 610 | 480 | M8–M16 |
| PA6-150-2-560 | 168.3 | 6.63 | 16 | 17 | 24 | 15/16 | 80 | 180 | 400 | 1200 | 13.3 | 93.2 | 1600 | 1600 | 1600 | 1470 | 1110 | 880 | 700 | M8–M16 |
| PA6-150-3-560 | 168.3 | 6.63 | 20 | 20 | 30 | 13/16 | 150 | 220 | 450 | 1200 | 27.7 | 137.6 | 2630 | 2630 | 2630 | 2630 | 2060 | 1630 | 1290 | M12–M24 |
| PA6-150-4-560 | 168.3 | 6.63 | 24 | 25 | 36 | 17/16 | 150 | 230 | 450 | 1200 | 35.4 | 169.3 | 3660 | 3660 | 3660 | 3660 | 3230 | 2620 | 2080 | M12–M36 |
| PA6-150-0-600 | 168.3 | 6.63 | 12 | 15 | 18 | 11/16 | 90 | 130 | 400 | 1200 | 11.0 | 66.6 | 780 | 780 | 780 | 780 | 770 | 610 | 480 | M8–M16 |
| PA6-150-1-600 | 168.3 | 6.63 | 16 | 17 | 24 | 15/16 | 80 | 190 | 400 | 1200 | 13.3 | 98.4 | 1600 | 1600 | 1600 | 1560 | 1180 | 930 | 740 | M8–M16 |
| PA6-150-2-600 | 168.3 | 6.63 | 16 | 17 | 24 | 15/16 | 110 | 180 | 400 | 1200 | 18.1 | 111.5 | 1600 | 1600 | 1600 | 1600 | 1600 | 1360 | 1080 | M8–M16 |
| PA6-150-3-600 | 168.3 | 6.63 | 20 | 20 | 30 | 13/16 | 150 | 230 | 450 | 1200 | 34.3 | 167.6 | 2630 | 2630 | 2630 | 2630 | 2630 | 2600 | 2060 | M12–M24 |
| PA6-150-4-600 | 168 | 6.63 | 24 | 25 | 36 | 17/16 | 180 | 260 | 500 | 1200 | 54.6 | 218.2 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3300 | M12–M36 |

# PA6 PRESSED RISER CLAMP SIX BOLT TYPE

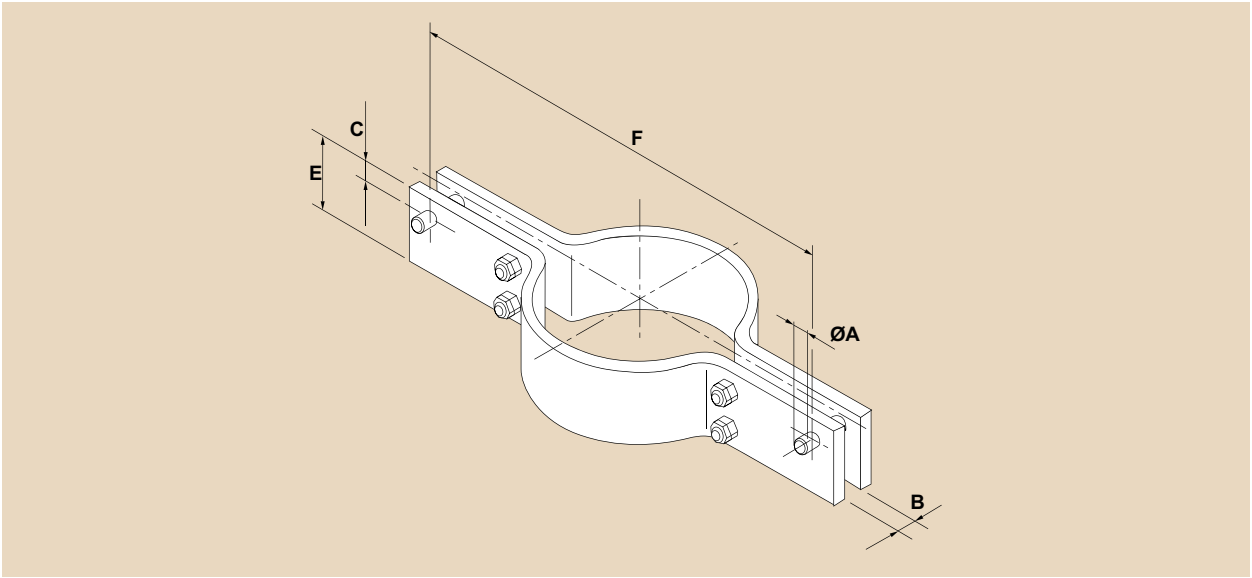



*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

*Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA6-175-0-400 | 193.7 | 7.63 | 12 | 15 | 18 | 11/16 | 80 | 90 | 400 | 1200 | 6.8 | 37.4 | 540 | 510 | | | | | | M8–M16 |
| PA6-175-1-400 | 193.7 | 7.63 | 16 | 17 | 24 | 15/16 | 80 | 130 | 400 | 1200 | 8.4 | 54.6 | 820 | 770 | | | | | | M8–M16 |
| PA6-175-2-400 | 193.7 | 7.63 | 16 | 17 | 24 | 15/16 | 100 | 120 | 450 | 1200 | 14.2 | 62.9 | 1160 | 1110 | | | | | | M8–M16 |
| PA6-175-3-400 | 193.7 | 7.63 | 20 | 20 | 30 | 1 3/16 | 120 | 150 | 500 | 1200 | 25.0 | 95.2 | 2140 | 2070 | | | | | | M12–M24 |
| PA6-175-4-400 | 193.7 | 7.63 | 24 | 25 | 36 | 1 7/16 | 160 | 220 | 500 | 1200 | 33.8 | 140.6 | 3280 | 3170 | | | | | | M12–M36 |
| PA6-175-5-400 | 193.7 | 7.63 | 30 | 29 | 45 | 1 3/4 | 170 | 230 | 550 | 1200 | 49.5 | 174.0 | 4720 | 4610 | | | | | | M12–M36 |
| PA6-175-0-490 | 193.7 | 7.63 | 12 | 15 | 18 | 11/16 | 80 | 90 | 400 | 1200 | 6.8 | 37.4 | 560 | 560 | 510 | 420 | 260 | 190 | 140 | M8–M16 |
| PA6-175-1-490 | 193.7 | 7.63 | 16 | 17 | 24 | 15/16 | 80 | 130 | 400 | 1200 | 8.4 | 54.6 | 840 | 840 | 770 | 610 | 390 | 280 | 200 | M8–M16 |
| PA6-175-2-490 | 193.7 | 7.63 | 16 | 17 | 24 | 15/16 | 80 | 120 | 400 | 1200 | 10.3 | 62.8 | 1200 | 1200 | 1120 | 940 | 620 | 440 | 320 | M8–M16 |
| PA6-175-3-490 | 193.7 | 7.63 | 20 | 20 | 30 | 1 3/16 | 100 | 150 | 450 | 1200 | 19.1 | 95.0 | 2210 | 2210 | 2110 | 1790 | 1260 | 880 | 630 | M12–M24 |
| PA6-175-4-490 | 193.7 | 7.63 | 24 | 25 | 36 | 1 7/16 | 160 | 220 | 500 | 1200 | 33.6 | 140.4 | 3380 | 3380 | 3230 | 2690 | 1810 | 1260 | 900 | M12–M36 |
| PA6-175-5-490 | 193.7 | 7.63 | 30 | 29 | 45 | 1 3/4 | 150 | 230 | 500 | 1200 | 40.6 | 173.8 | 4870 | 4870 | 4700 | 4040 | 2820 | 1980 | 1430 | M12–M36 |
| PA6-175-0-530 | 193.7 | 7.63 | 12 | 15 | 18 | 11/16 | 80 | 100 | 400 | 1200 | 8.1 | 41.6 | 630 | 630 | 580 | 470 | 320 | 220 | 160 | M8–M16 |
| PA6-175-1-530 | 193.7 | 7.63 | 16 | 17 | 24 | 15/16 | 80 | 150 | 400 | 1200 | 10.3 | 63.0 | 980 | 980 | 900 | 740 | 500 | 350 | 250 | M8–M16 |
| PA6-175-2-530 | 193.7 | 7.63 | 16 | 17 | 24 | 15/16 | 90 | 140 | 400 | 1200 | 11.6 | 73.2 | 1420 | 1420 | 1330 | 1090 | 710 | 500 | 360 | M8–M16 |
| PA6-175-3-530 | 193.7 | 7.63 | 20 | 20 | 30 | 1 3/16 | 110 | 170 | 450 | 1200 | 21.0 | 107.6 | 2540 | 2540 | 2420 | 2050 | 1400 | 980 | 700 | M12–M24 |
| PA6-175-4-530 | 193.7 | 7.63 | 24 | 25 | 36 | 1 7/16 | 130 | 190 | 500 | 1200 | 33.9 | 141.3 | 3660 | 3660 | 3660 | 3260 | 2400 | 1690 | 1220 | M12–M36 |
| PA6-175-5-530 | 193.7 | 7.63 | 30 | 29 | 45 | 1 3/4 | 170 | 260 | 500 | 1200 | 45.9 | 196.3 | 5560 | 5560 | 5370 | 4630 | 3240 | 2270 | 1640 | M12–M36 |
| PA6-175-0-560 | 193.7 | 7.63 | 12 | 15 | 18 | 11/16 | 80 | 130 | 400 | 1200 | 8.1 | 54.0 | 780 | 780 | 780 | 630 | 460 | 370 | 290 | M8–M16 |
| PA6-175-1-560 | 193.7 | 7.63 | 16 | 17 | 24 | 15/16 | 80 | 120 | 400 | 1200 | 10.3 | 62.8 | 1200 | 1200 | 1130 | 950 | 720 | 570 | 450 | M8–M16 |
| PA6-175-2-560 | 193.7 | 7.63 | 16 | 17 | 24 | 15/16 | 120 | 170 | 400 | 1200 | 15.4 | 88.8 | 1600 | 1600 | 1600 | 1400 | 1060 | 840 | 670 | M8–M16 |
| PA6-175-3-560 | 193.7 | 7.63 | 20 | 20 | 30 | 1 3/16 | 140 | 210 | 450 | 1200 | 26.4 | 132.7 | 2630 | 2630 | 2630 | 2620 | 2040 | 1630 | 1300 | M12–M24 |
| PA6-175-4-560 | 193.7 | 7.63 | 24 | 25 | 36 | 1 7/16 | 160 | 230 | 500 | 1200 | 41.6 | 170.8 | 3660 | 3660 | 3660 | 3660 | 3260 | 2640 | 2100 | M12–M36 |
| PA6-175-5-560 | 193.7 | 7.63 | 30 | 29 | 45 | 1 3/4 | 150 | 240 | 500 | 1200 | 48.3 | 206.7 | 6060 | 6060 | 6060 | 5760 | 4590 | 3690 | 2930 | M12–M36 |
| PA6-175-0-600 | 193.7 | 7.63 | 12 | 15 | 18 | 11/16 | 90 | 130 | 400 | 1200 | 11.2 | 67.3 | 780 | 780 | 780 | 780 | 780 | 630 | 500 | M8–M16 |
| PA6-175-1-600 | 193.7 | 7.63 | 16 | 17 | 24 | 15/16 | 90 | 190 | 450 | 1200 | 16.7 | 99.3 | 1600 | 1600 | 1600 | 1580 | 1200 | 950 | 760 | M8–M16 |
| PA6-175-2-600 | 193.7 | 7.63 | 16 | 17 | 24 | 15/16 | 120 | 180 | 450 | 1200 | 22.1 | 112.6 | 1600 | 1600 | 1600 | 1600 | 1600 | 1380 | 1090 | M8–M16 |
| PA6-175-3-600 | 193.7 | 7.63 | 20 | 20 | 30 | 1 3/16 | 140 | 230 | 450 | 1200 | 32.7 | 169.1 | 2630 | 2630 | 2630 | 2630 | 2630 | 2630 | 2080 | M12–M24 |
| PA6-175-4-600 | 193.7 | 7.63 | 24 | 25 | 36 | 1 7/16 | 170 | 250 | 500 | 1200 | 52.5 | 211.7 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3180 | M12–M36 |
| PA6-175-5-600 | 193.7 | 7.63 | 30 | 29 | 45 | 1 3/4 | 230 | 320 | 500 | 1100 | 73.4 | 255.1 | 6090 | 6090 | 6090 | 6090 | 6090 | 5860 | 4630 | M12–M36 |

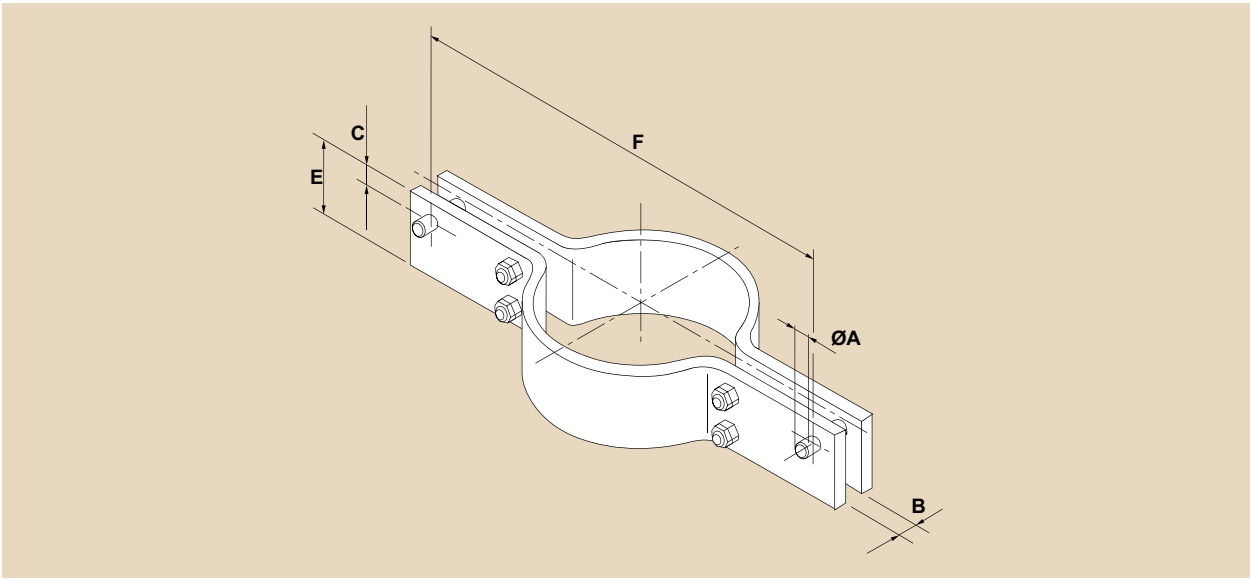
# PA6 PRESSED RISER CLAMP SIX BOLT TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C* *Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA6-200-0-400 | 219.1 | 8.63 | 12 | 15 | 18 | 11/16 | 80 | 110 | 400 | 1500 | 7.0 | 56.5 | 530 | 500 | | | | | | M8–M16 |
| PA6-200-1-400 | 219.1 | 8.63 | 16 | 17 | 24 | 15/16 | 90 | 160 | 450 | 1500 | 10.5 | 83.0 | 790 | 750 | | | | | | M8–M16 |
| PA6-200-2-400 | 219.1 | 8.63 | 16 | 17 | 24 | 15/16 | 100 | 150 | 450 | 1500 | 14.5 | 97.0 | 1150 | 1100 | | | | | | M8–M16 |
| PA6-200-3-400 | 219.1 | 8.63 | 20 | 20 | 30 | 1 3/16 | 120 | 190 | 500 | 1500 | 25.5 | 148.4 | 2160 | 2080 | | | | | | M12–M24 |
| PA6-200-4-400 | 219.1 | 8.63 | 24 | 25 | 36 | 1 7/16 | 150 | 210 | 500 | 1500 | 32.4 | 192.7 | 3290 | 3220 | | | | | | M12–M36 |
| PA6-200-5-400 | 219.1 | 8.63 | 30 | 29 | 45 | 1 3/4 | 160 | 230 | 550 | 1500 | 47.8 | 243.7 | 4770 | 4720 | | | | | | M12–M36 |
| PA6-200-6-400 | 219.1 | 8.63 | 36 | 41 | 54 | 2 1/8 | 200 | 320 | 600 | 1400 | 77.2 | 322.0 | 7520 | 7430 | | | | | | M20–M64 |
| PA6-200-0-490 | 219.1 | 8.63 | 12 | 15 | 18 | 11/16 | 80 | 110 | 400 | 1500 | 7.0 | 56.5 | 540 | 540 | 500 | 410 | 280 | 190 | 140 | M8–M16 |
| PA6-200-1-490 | 219.1 | 8.63 | 16 | 17 | 24 | 15/16 | 90 | 160 | 450 | 1500 | 10.5 | 82.9 | 820 | 820 | 750 | 620 | 400 | 280 | 210 | M8–M16 |
| PA6-200-2-490 | 219.1 | 8.63 | 16 | 17 | 24 | 15/16 | 80 | 150 | 450 | 1500 | 11.5 | 96.9 | 1190 | 1190 | 1100 | 860 | 560 | 400 | 290 | M8–M16 |
| PA6-200-3-490 | 219.1 | 8.63 | 20 | 20 | 30 | 1 3/16 | 100 | 190 | 500 | 1500 | 21.1 | 148.2 | 2220 | 2220 | 2100 | 1720 | 1160 | 810 | 580 | M12–M24 |
| PA6-200-4-490 | 219.1 | 8.63 | 24 | 25 | 36 | 1 7/16 | 150 | 210 | 500 | 1500 | 32.2 | 192.1 | 3390 | 3390 | 3280 | 2690 | 1810 | 1260 | 900 | M12–M36 |
| PA6-200-5-490 | 219.1 | 8.63 | 30 | 29 | 45 | 1 3/4 | 160 | 220 | 550 | 1500 | 47.2 | 232.6 | 4680 | 4680 | 4570 | 4010 | 2820 | 1990 | 1430 | M12–M36 |
| PA6-200-6-490 | 219.1 | 8.63 | 36 | 41 | 54 | 2 1/8 | 200 | 310 | 600 | 1400 | 76.9 | 311.6 | 7490 | 7490 | 7300 | 6430 | 4810 | 3500 | 2480 | M20–M64 |
| PA6-200-0-530 | 219.1 | 8.63 | 12 | 15 | 18 | 11/16 | 80 | 130 | 450 | 1500 | 9.1 | 66.8 | 650 | 650 | 600 | 490 | 330 | 230 | 170 | M8–M16 |
| PA6-200-1-530 | 219.1 | 8.63 | 16 | 17 | 24 | 15/16 | 80 | 120 | 450 | 1500 | 11.5 | 77.6 | 930 | 930 | 870 | 730 | 510 | 360 | 260 | M8–M16 |
| PA6-200-2-530 | 219.1 | 8.63 | 16 | 17 | 24 | 15/16 | 100 | 170 | 450 | 1500 | 14.4 | 109.8 | 1360 | 1360 | 1280 | 1070 | 720 | 510 | 370 | M8–M16 |
| PA6-200-3-530 | 219.1 | 8.63 | 20 | 20 | 30 | 1 3/16 | 120 | 220 | 500 | 1500 | 25.2 | 171.5 | 2600 | 2600 | 2490 | 2100 | 1420 | 990 | 710 | M12–M24 |
| PA6-200-4-530 | 219.1 | 8.63 | 24 | 25 | 36 | 1 7/16 | 130 | 240 | 550 | 1500 | 37.1 | 219.4 | 3660 | 3660 | 3660 | 3180 | 2240 | 1580 | 1140 | M12–M36 |
| PA6-200-5-530 | 219.1 | 8.63 | 30 | 29 | 45 | 1 3/4 | 180 | 250 | 550 | 1500 | 53.0 | 264.4 | 5390 | 5390 | 5260 | 4560 | 3210 | 2260 | 1630 | M12–M36 |
| PA6-200-6-530 | 219.1 | 8.63 | 36 | 41 | 54 | 2 1/8 | 230 | 310 | 600 | 1250 | 88.0 | 282.4 | 7620 | 7620 | 7620 | 7340 | 5600 | 4070 | 2890 | M20–M64 |
| PA6-200-0-560 | 219.1 | 8.63 | 12 | 15 | 18 | 11/16 | 90 | 160 | 450 | 1500 | 10.2 | 82.2 | 780 | 780 | 760 | 630 | 470 | 370 | 290 | M8–M16 |
| PA6-200-1-560 | 219.1 | 8.63 | 16 | 17 | 24 | 15/16 | 90 | 150 | 450 | 1500 | 12.9 | 96.9 | 1190 | 1190 | 1120 | 950 | 720 | 570 | 460 | M8–M16 |
| PA6-200-2-560 | 219.1 | 8.63 | 16 | 17 | 24 | 15/16 | 80 | 150 | 450 | 1500 | 15.2 | 116.0 | 1310 | 1310 | 1310 | 1310 | 1090 | 880 | 700 | M8–M16 |
| PA6-200-3-560 | 219.1 | 8.63 | 20 | 20 | 30 | 1 3/16 | 150 | 190 | 500 | 1500 | 31.3 | 172.5 | 2510 | 2510 | 2510 | 2510 | 2040 | 1610 | 1280 | M12–M24 |
| PA6-200-4-560 | 219.1 | 8.63 | 24 | 25 | 36 | 1 7/16 | 170 | 210 | 550 | 1500 | 48.3 | 219.0 | 3660 | 3660 | 3660 | 3660 | 3160 | 2590 | 2040 | M12–M36 |
| PA6-200-5-560 | 219.1 | 8.63 | 30 | 29 | 45 | 1 3/4 | 160 | 300 | 550 | 1500 | 56.1 | 316.8 | 5480 | 5480 | 5480 | 5480 | 4580 | 3690 | 2930 | M12–M36 |
| PA6-200-6-560 | 219.1 | 8.63 | 36 | 41 | 54 | 2 1/8 | 200 | 320 | 600 | 1100 | 89.1 | 261.2 | 7620 | 7620 | 7620 | 7620 | 7310 | 5930 | 4700 | M20–M64 |
| PA6-200-0-600 | 219.1 | 8.63 | 12 | 15 | 18 | 11/16 | 90 | 160 | 450 | 1500 | 12.6 | 102.4 | 780 | 780 | 780 | 780 | 750 | 590 | 460 | M8–M16 |
| PA6-200-1-600 | 219.1 | 8.63 | 16 | 17 | 24 | 15/16 | 80 | 160 | 450 | 1500 | 15.2 | 123.7 | 1310 | 1310 | 1310 | 1310 | 1180 | 930 | 740 | M8–M16 |
| PA6-200-2-600 | 219.1 | 8.63 | 16 | 17 | 24 | 15/16 | 110 | 220 | 450 | 1500 | 20.8 | 170.0 | 1600 | 1600 | 1600 | 1600 | 1600 | 1340 | 1060 | M8–M16 |
| PA6-200-3-600 | 219.1 | 8.63 | 20 | 20 | 30 | 1 3/16 | 150 | 210 | 500 | 1500 | 38.9 | 217.4 | 2630 | 2630 | 2630 | 2630 | 2630 | 2570 | 2030 | M12–M24 |
| PA6-200-4-600 | 219.1 | 8.63 | 24 | 25 | 36 | 1 7/16 | 180 | 320 | 550 | 1500 | 60.9 | 333.4 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3240 | M12–M36 |
| PA6-200-5-600 | 219.1 | 8.63 | 30 | 29 | 45 | 1 3/4 | 240 | 320 | 550 | 1100 | 83.6 | 257.3 | 6090 | 6090 | 6090 | 6090 | 6090 | 5750 | 4570 | M12–M36 |
| PA6-200-6-600 | 219.1 | 8.63 | 36 | 41 | 54 | 2 1/8 | 230 | 310 | 600 | 750 | 115.8 | 184.6 | 7620 | 7620 | 7620 | 7620 | 7620 | 7620 | 7460 | M20–M64 |

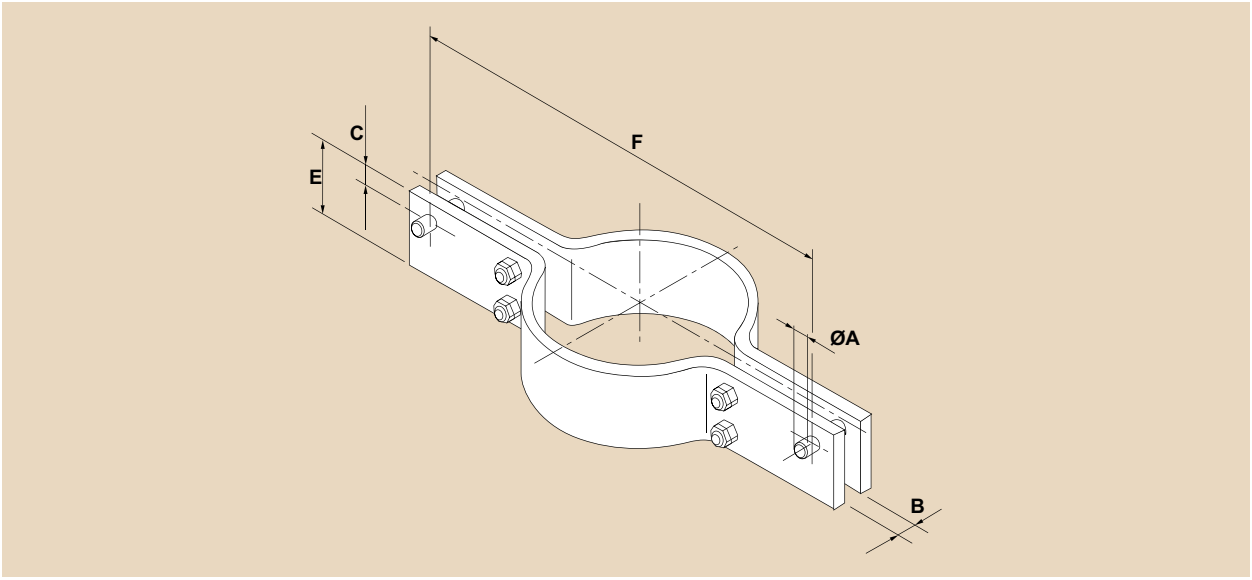
# PA6 PRESSED RISER CLAMP SIX BOLT TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C* *Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA6-225-0-400 | 244.5 | 9.63 | 12 | 15 | 18 | 11/16 | 80 | 110 | 450 | 1500 | 7.8 | 57.0 | 530 | 500 | | | | | | M8–M16 |
| PA6-225-1-400 | 244.5 | 9.63 | 16 | 17 | 24 | 15/16 | 100 | 160 | 500 | 1500 | 16.0 | 83.7 | 800 | 760 | | | | | | M8–M16 |
| PA6-225-2-400 | 244.5 | 9.63 | 16 | 17 | 24 | 15/16 | 100 | 150 | 500 | 1500 | 16.0 | 97.7 | 1170 | 1110 | | | | | | M8–M16 |
| PA6-225-3-400 | 244.5 | 9.63 | 20 | 20 | 30 | 13/16 | 120 | 190 | 550 | 1500 | 27.8 | 149.5 | 2170 | 2090 | | | | | | M12–M24 |
| PA6-225-4-400 | 244.5 | 9.63 | 24 | 25 | 36 | 17/16 | 160 | 210 | 550 | 1500 | 37.6 | 193.9 | 3310 | 3190 | | | | | | M12–M36 |
| PA6-225-5-400 | 244.5 | 9.63 | 30 | 29 | 45 | 1 3/4 | 170 | 230 | 600 | 1500 | 54.7 | 245.3 | 4790 | 4650 | | | | | | M12–M36 |
| PA6-225-6-400 | 244.5 | 9.63 | 36 | 41 | 54 | 2 1/8 | 210 | 320 | 650 | 1400 | 87.9 | 325.0 | 7550 | 7400 | | | | | | M20–M64 |
| PA6-225-0-490 | 244.5 | 9.63 | 12 | 15 | 18 | 11/16 | 80 | 110 | 450 | 1500 | 7.8 | 57.0 | 550 | 550 | 500 | 390 | 250 | 180 | 130 | M8–M16 |
| PA6-225-1-490 | 244.5 | 9.63 | 16 | 17 | 24 | 15/16 | 80 | 160 | 450 | 1500 | 9.5 | 83.6 | 830 | 830 | 750 | 570 | 360 | 260 | 190 | M8–M16 |
| PA6-225-2-490 | 244.5 | 9.63 | 16 | 17 | 24 | 15/16 | 100 | 150 | 500 | 1500 | 16.0 | 97.7 | 1200 | 1200 | 1120 | 940 | 630 | 450 | 330 | M8–M16 |
| PA6-225-3-490 | 244.5 | 9.63 | 20 | 20 | 30 | 13/16 | 100 | 190 | 500 | 1500 | 21.5 | 149.3 | 2240 | 2240 | 2130 | 1770 | 1190 | 830 | 590 | M12–M24 |
| PA6-225-4-490 | 244.5 | 9.63 | 24 | 25 | 36 | 17/16 | 160 | 210 | 550 | 1500 | 37.4 | 193.6 | 3410 | 3410 | 3200 | 2590 | 1740 | 1210 | 860 | M12–M36 |
| PA6-225-5-490 | 244.5 | 9.63 | 30 | 29 | 45 | 1 3/4 | 170 | 220 | 600 | 1500 | 54.4 | 234.4 | 4700 | 4700 | 4570 | 3930 | 2720 | 1900 | 1380 | M12–M36 |
| PA6-225-6-490 | 244.5 | 9.63 | 36 | 41 | 54 | 2 1/8 | 190 | 310 | 600 | 1400 | 74.2 | 313.7 | 7510 | 7510 | 7310 | 6400 | 4680 | 3380 | 2410 | M20–M64 |
| PA6-225-0-530 | 244.5 | 9.63 | 12 | 15 | 18 | 11/16 | 80 | 130 | 450 | 1500 | 9.2 | 67.3 | 660 | 660 | 610 | 490 | 330 | 230 | 160 | M8–M16 |
| PA6-225-1-530 | 244.5 | 9.63 | 16 | 17 | 24 | 15/16 | 80 | 120 | 450 | 1500 | 11.8 | 78.1 | 940 | 940 | 880 | 730 | 510 | 360 | 260 | M8–M16 |
| PA6-225-2-530 | 244.5 | 9.63 | 16 | 17 | 24 | 15/16 | 100 | 170 | 450 | 1500 | 14.6 | 110.7 | 1380 | 1380 | 1290 | 1080 | 750 | 520 | 380 | M8–M16 |
| PA6-225-3-530 | 244.5 | 9.63 | 20 | 20 | 30 | 13/16 | 120 | 220 | 500 | 1500 | 25.7 | 172.8 | 2630 | 2630 | 2500 | 2110 | 1460 | 1020 | 720 | M12–M24 |
| PA6-225-4-530 | 244.5 | 9.63 | 24 | 25 | 36 | 17/16 | 130 | 240 | 550 | 1500 | 37.7 | 220.9 | 3660 | 3660 | 3660 | 3270 | 2280 | 1600 | 1150 | M12–M36 |
| PA6-225-5-530 | 244.5 | 9.63 | 30 | 29 | 45 | 1 3/4 | 200 | 250 | 600 | 1500 | 63.7 | 266.1 | 5410 | 5410 | 5270 | 4610 | 3250 | 2270 | 1640 | M12–M36 |
| PA6-225-6-530 | 244.5 | 9.63 | 36 | 41 | 54 | 2 1/8 | 220 | 310 | 600 | 1250 | 85.6 | 284.5 | 7620 | 7620 | 7620 | 7340 | 5490 | 3970 | 2830 | M20–M64 |
| PA6-225-0-560 | 244.5 | 9.63 | 12 | 15 | 18 | 11/16 | 90 | 160 | 450 | 1500 | 10.4 | 82.8 | 780 | 780 | 760 | 630 | 470 | 370 | 290 | M8–M16 |
| PA6-225-1-560 | 244.5 | 9.63 | 16 | 17 | 24 | 15/16 | 90 | 160 | 450 | 1500 | 13.2 | 104.1 | 1290 | 1290 | 1210 | 1020 | 770 | 610 | 480 | M8–M16 |
| PA6-225-2-560 | 244.5 | 9.63 | 16 | 17 | 24 | 15/16 | 120 | 150 | 450 | 1500 | 17.5 | 116.8 | 1600 | 1600 | 1600 | 1400 | 1060 | 840 | 660 | M8–M16 |
| PA6-225-3-560 | 244.5 | 9.63 | 20 | 20 | 30 | 13/16 | 150 | 190 | 500 | 1500 | 32.0 | 173.6 | 2630 | 2630 | 2630 | 2550 | 2030 | 1650 | 1310 | M12–M24 |
| PA6-225-4-560 | 244.5 | 9.63 | 24 | 25 | 36 | 17/16 | 160 | 220 | 550 | 1500 | 46.3 | 231.1 | 3660 | 3660 | 3660 | 3660 | 3170 | 2510 | 2010 | M12–M36 |
| PA6-225-5-560 | 244.5 | 9.63 | 30 | 29 | 45 | 1 3/4 | 180 | 300 | 600 | 1500 | 68.5 | 319.1 | 6090 | 6090 | 6090 | 5680 | 4650 | 3800 | 3000 | M12–M36 |
| PA6-225-6-560 | 244.5 | 9.63 | 36 | 41 | 54 | 2 1/8 | 220 | 320 | 650 | 1100 | 105.1 | 263.4 | 7620 | 7620 | 7620 | 7620 | 7360 | 6010 | 4750 | M20–M64 |
| PA6-225-0-600 | 244.5 | 9.63 | 12 | 15 | 18 | 11/16 | 90 | 160 | 450 | 1500 | 12.9 | 103.2 | 780 | 780 | 780 | 780 | 770 | 610 | 480 | M8–M16 |
| PA6-225-1-600 | 244.5 | 9.63 | 16 | 17 | 24 | 15/16 | 90 | 160 | 500 | 1500 | 18.8 | 124.6 | 1310 | 1310 | 1310 | 1310 | 1170 | 940 | 750 | M8–M16 |
| PA6-225-2-600 | 244.5 | 9.63 | 16 | 17 | 24 | 15/16 | 130 | 230 | 500 | 1500 | 27.1 | 179.0 | 1600 | 1600 | 1600 | 1600 | 1600 | 1390 | 1110 | M8–M16 |
| PA6-225-3-600 | 244.5 | 9.63 | 20 | 20 | 30 | 13/16 | 170 | 220 | 550 | 1500 | 48.0 | 229.2 | 2550 | 2550 | 2550 | 2550 | 2550 | 2510 | 2120 | M12–M24 |
| PA6-225-4-600 | 244.5 | 9.63 | 24 | 25 | 36 | 17/16 | 170 | 320 | 550 | 1500 | 58.6 | 335.8 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3200 | M12–M36 |
| PA6-225-5-600 | 244.5 | 9.63 | 30 | 29 | 45 | 1 3/4 | 190 | 320 | 600 | 1100 | 83.4 | 259.5 | 5770 | 5770 | 5770 | 5770 | 5770 | 5750 | 4560 | M12–M36 |
| PA6-225-6-600 | 244.5 | 9.63 | 36 | 41 | 54 | 2 1/8 | 250 | 300 | 650 | 750 | 135.5 | 181.1 | 7620 | 7620 | 7620 | 7620 | 7620 | 7620 | 7420 | M20–M64 |

# PA6 PRESSED RISER CLAMP SIX BOLT TYPE

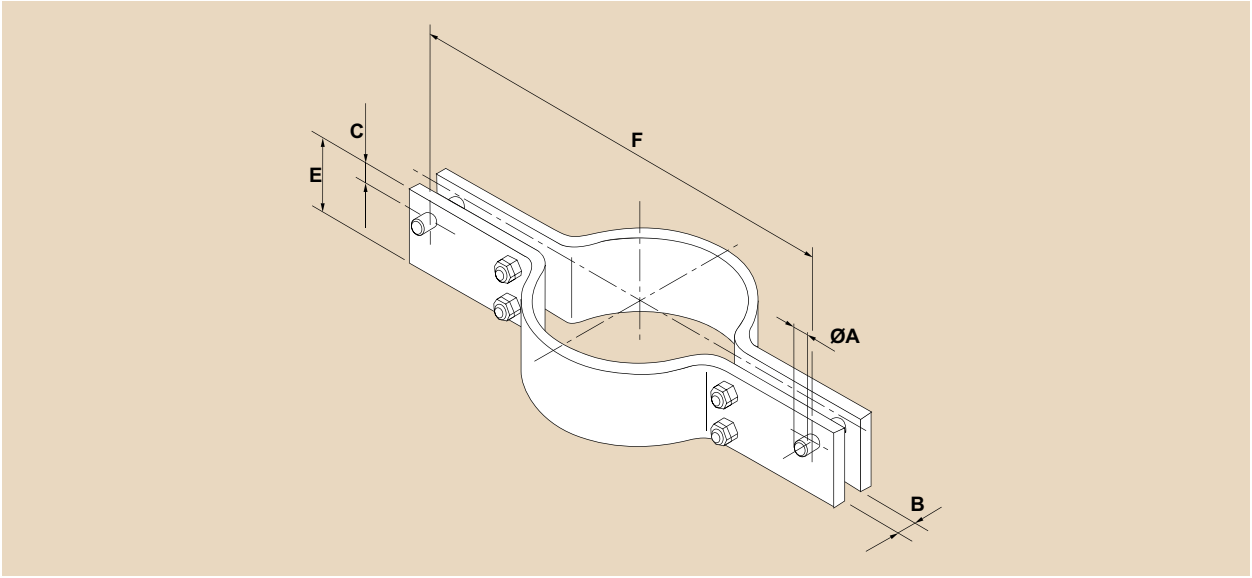



*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

*Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA6-250-0-400 | 273 | 10.75 | 12 | 15 | 18 | 11/16 | 80 | 100 | 450 | 1500 | 8.0 | 52.3 | 490 | 460 | | | | | | M8–M16 |
| PA6-250-1-400 | 273 | 10.75 | 16 | 17 | 24 | 15/16 | 100 | 150 | 500 | 1500 | 16.4 | 79.2 | 760 | 720 | | | | | | M8–M16 |
| PA6-250-2-400 | 273 | 10.75 | 16 | 17 | 24 | 15/16 | 100 | 150 | 500 | 1500 | 16.4 | 98.7 | 1190 | 1130 | | | | | | M8–M16 |
| PA6-250-3-400 | 273 | 10.75 | 20 | 20 | 30 | 1 3/16 | 120 | 190 | 550 | 1500 | 28.4 | 150.8 | 2210 | 2130 | | | | | | M12–M24 |
| PA6-250-4-400 | 273 | 10.75 | 24 | 25 | 36 | 1 7/16 | 150 | 210 | 600 | 1500 | 47.8 | 195.7 | 3360 | 3280 | | | | | | M12–M36 |
| PA6-250-5-400 | 273 | 10.75 | 30 | 29 | 45 | 1 3/4 | 180 | 220 | 650 | 1500 | 62.5 | 236.7 | 4610 | 4560 | | | | | | M12–M36 |
| PA6-250-6-400 | 273 | 10.75 | 36 | 41 | 54 | 2 1/8 | 220 | 320 | 700 | 1400 | 98.6 | 327.6 | 7620 | 7430 | | | | | | M20–M64 |
| PA6-250-7-400 | 273 | 10.75 | 42 | 45 | 63 | 2 1/2 | 240 | 320 | 700 | 1050 | 127.7 | 262.2 | 10930 | 10930 | | | | | | M30–M64 |
| PA6-250-0-490 | 273 | 10.75 | 12 | 15 | 18 | 11/16 | 80 | 100 | 450 | 1500 | 8.0 | 52.3 | 500 | 500 | 470 | 380 | 260 | 180 | 130 | M8–M16 |
| PA6-250-1-490 | 273 | 10.75 | 16 | 17 | 24 | 15/16 | 90 | 150 | 500 | 1500 | 11.8 | 79.1 | 790 | 790 | 730 | 590 | 380 | 270 | 200 | M8–M16 |
| PA6-250-2-490 | 273 | 10.75 | 16 | 17 | 24 | 15/16 | 100 | 140 | 500 | 1500 | 16.4 | 92.1 | 1130 | 1130 | 1060 | 890 | 630 | 440 | 320 | M8–M16 |
| PA6-250-3-490 | 273 | 10.75 | 20 | 20 | 30 | 1 3/16 | 100 | 180 | 550 | 1500 | 23.6 | 142.7 | 2140 | 2140 | 2030 | 1660 | 1120 | 780 | 560 | M12–M24 |
| PA6-250-4-490 | 273 | 10.75 | 24 | 25 | 36 | 1 7/16 | 150 | 200 | 550 | 1500 | 35.8 | 186.1 | 3280 | 3280 | 3170 | 2600 | 1760 | 1230 | 880 | M12–M36 |
| PA6-250-5-490 | 273 | 10.75 | 30 | 29 | 45 | 1 3/4 | 160 | 280 | 600 | 1500 | 52.3 | 263.5 | 4740 | 4740 | 4580 | 3900 | 2740 | 1940 | 1390 | M12–M36 |
| PA6-250-6-490 | 273 | 10.75 | 36 | 41 | 54 | 2 1/8 | 200 | 320 | 650 | 1450 | 84.0 | 336.5 | 7530 | 7530 | 7340 | 6440 | 4760 | 3460 | 2460 | M20–M64 |
| PA6-250-7-490 | 273 | 10.75 | 42 | 45 | 63 | 2 1/2 | 230 | 310 | 700 | 1050 | 121.7 | 253.2 | 10930 | 10930 | 10750 | 9310 | 7180 | 5360 | 3760 | M30–M64 |
| PA6-250-0-530 | 273 | 10.75 | 12 | 15 | 18 | 11/16 | 80 | 120 | 500 | 1500 | 10.3 | 62.8 | 620 | 620 | 570 | 470 | 310 | 220 | 160 | M8–M16 |
| PA6-250-1-530 | 273 | 10.75 | 16 | 17 | 24 | 15/16 | 80 | 120 | 500 | 1500 | 13.0 | 78.9 | 960 | 960 | 900 | 750 | 530 | 370 | 270 | M8–M16 |
| PA6-250-2-530 | 273 | 10.75 | 16 | 17 | 24 | 15/16 | 100 | 170 | 500 | 1500 | 16.2 | 111.8 | 1270 | 1270 | 1270 | 1060 | 700 | 490 | 350 | M8–M16 |
| PA6-250-3-530 | 273 | 10.75 | 20 | 20 | 30 | 1 3/16 | 120 | 210 | 550 | 1500 | 28.2 | 166.4 | 2540 | 2540 | 2420 | 2040 | 1380 | 960 | 690 | M12–M24 |
| PA6-250-4-530 | 273 | 10.75 | 24 | 25 | 36 | 1 7/16 | 140 | 230 | 600 | 1500 | 44.4 | 213.8 | 3660 | 3660 | 3660 | 3190 | 2370 | 1670 | 1200 | M12–M36 |
| PA6-250-5-530 | 273 | 10.75 | 30 | 29 | 45 | 1 3/4 | 190 | 250 | 600 | 1500 | 61.8 | 268.3 | 5470 | 5470 | 5340 | 4700 | 3310 | 2340 | 1680 | M12–M36 |
| PA6-250-6-530 | 273 | 10.75 | 36 | 41 | 54 | 2 1/8 | 230 | 320 | 650 | 1300 | 96.3 | 306.7 | 7620 | 7620 | 7620 | 7400 | 5540 | 4030 | 2860 | M20–M64 |
| PA6-250-7-530 | 273 | 10.75 | 42 | 45 | 63 | 2 1/2 | 270 | 310 | 700 | 950 | 142.3 | 233.7 | 10930 | 10930 | 10930 | 10850 | 8550 | 6380 | 4480 | M30–M64 |
| PA6-250-0-560 | 273 | 10.75 | 12 | 15 | 18 | 11/16 | 80 | 160 | 500 | 1500 | 12.7 | 83.6 | 780 | 780 | 780 | 650 | 480 | 380 | 300 | M8–M16 |
| PA6-250-1-560 | 273 | 10.75 | 16 | 17 | 24 | 15/16 | 100 | 150 | 500 | 1500 | 16.2 | 98.5 | 1220 | 1220 | 1150 | 980 | 740 | 590 | 470 | M8–M16 |
| PA6-250-2-560 | 273 | 10.75 | 16 | 17 | 24 | 15/16 | 100 | 150 | 550 | 1500 | 23.1 | 118.0 | 1600 | 1600 | 1600 | 1440 | 1120 | 900 | 720 | M8–M16 |
| PA6-250-3-560 | 273 | 10.75 | 20 | 20 | 30 | 1 3/16 | 160 | 190 | 550 | 1500 | 37.4 | 175.2 | 2630 | 2630 | 2630 | 2610 | 2090 | 1680 | 1330 | M12–M24 |
| PA6-250-4-560 | 273 | 10.75 | 24 | 25 | 36 | 1 7/16 | 170 | 280 | 600 | 1500 | 53.5 | 259.9 | 3660 | 3660 | 3660 | 3660 | 3210 | 2550 | 2040 | M12–M36 |
| PA6-250-5-560 | 273 | 10.75 | 30 | 29 | 45 | 1 3/4 | 190 | 290 | 650 | 1500 | 78.0 | 311.1 | 6090 | 6090 | 6090 | 5580 | 4600 | 3760 | 2970 | M12–M36 |
| PA6-250-6-560 | 273 | 10.75 | 36 | 41 | 54 | 2 1/8 | 210 | 310 | 650 | 1100 | 102.1 | 257.8 | 7620 | 7620 | 7620 | 7620 | 7390 | 6050 | 4780 | M20–M64 |
| PA6-250-7-560 | 273 | 10.75 | 42 | 45 | 63 | 2 1/2 | 240 | 320 | 700 | 850 | 144.0 | 221.1 | 10930 | 10930 | 10930 | 10930 | 10710 | 8770 | 6920 | M30–M64 |
| PA6-250-0-600 | 273 | 10.75 | 12 | 15 | 18 | 11/16 | 100 | 150 | 500 | 1500 | 15.8 | 97.7 | 780 | 780 | 780 | 780 | 740 | 590 | 470 | M8–M16 |
| PA6-250-1-600 | 273 | 10.75 | 16 | 17 | 24 | 15/16 | 90 | 160 | 500 | 1500 | 19.2 | 125.7 | 1150 | 1150 | 1150 | 1150 | 1130 | 970 | 770 | M8–M16 |
| PA6-250-2-600 | 273 | 10.75 | 16 | 17 | 24 | 15/16 | 120 | 220 | 500 | 1500 | 25.6 | 172.8 | 1530 | 1530 | 1530 | 1530 | 1510 | 1380 | 1090 | M8–M16 |
| PA6-250-3-600 | 273 | 10.75 | 20 | 20 | 30 | 1 3/16 | 160 | 280 | 550 | 1500 | 46.4 | 258.0 | 2630 | 2630 | 2630 | 2630 | 2630 | 2590 | 2050 | M12–M24 |
| PA6-250-4-600 | 273 | 10.75 | 24 | 25 | 36 | 1 7/16 | 180 | 310 | 600 | 1500 | 67.4 | 328.0 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3180 | M12–M36 |
| PA6-250-5-600 | 273 | 10.75 | 30 | 29 | 45 | 1 3/4 | 200 | 320 | 650 | 1150 | 95.1 | 272.7 | 6090 | 6090 | 6090 | 6090 | 6090 | 5830 | 4620 | M12–M36 |
| PA6-250-6-600 | 273 | 10.75 | 36 | 41 | 54 | 2 1/8 | 260 | 310 | 700 | 800 | 151.2 | 199.3 | 7620 | 7620 | 7620 | 7620 | 7620 | 7620 | 7480 | M20–M64 |

# PA6 PRESSED RISER CLAMP SIX BOLT TYPE

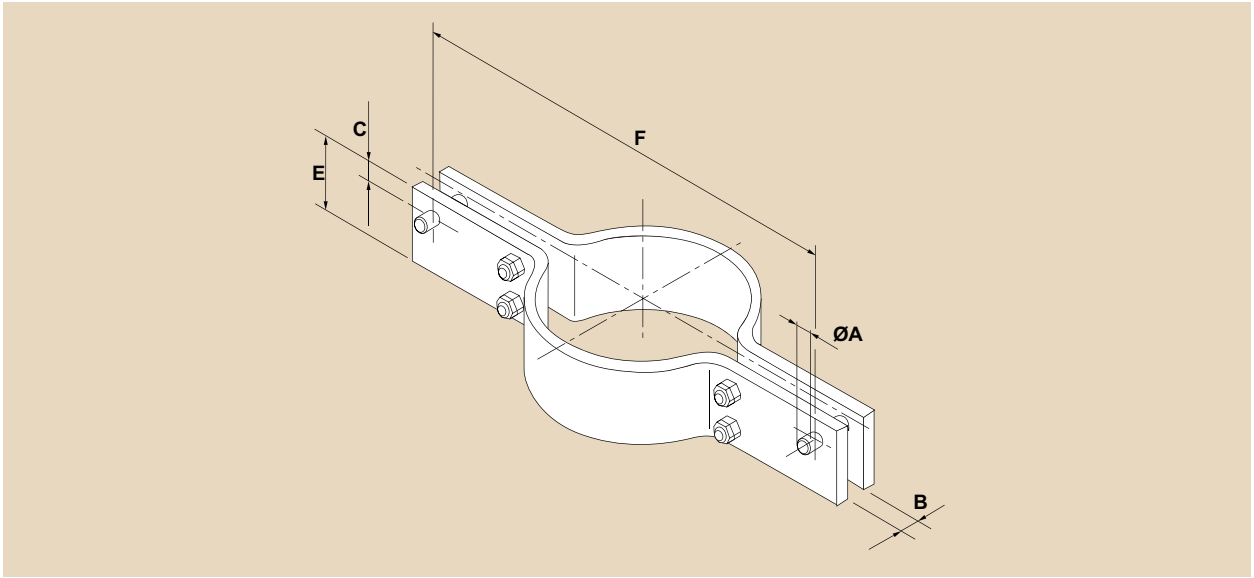



*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

*Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA6-300-1-400 | 323.9 | 12.75 | 16 | 17 | 24 | 15/16 | 100 | 130 | 550 | 1900 | 18.2 | 107.4 | 780 | 750 | | | | | | M8–M16 |
| PA6-300-2-400 | 323.9 | 12.75 | 16 | 17 | 24 | 15/16 | 120 | 180 | 600 | 1900 | 23.4 | 148.7 | 1110 | 1060 | | | | | | M8–M16 |
| PA6-300-3-400 | 323.9 | 12.75 | 20 | 20 | 30 | 1 3/16 | 150 | 230 | 650 | 1850 | 41.7 | 223.5 | 2150 | 2080 | | | | | | M12–M24 |
| PA6-300-4-400 | 323.9 | 12.75 | 24 | 25 | 36 | 1 7/16 | 150 | 260 | 650 | 1850 | 52.4 | 295.7 | 3350 | 3280 | | | | | | M12–M36 |
| PA6-300-5-400 | 323.9 | 12.75 | 30 | 29 | 45 | 1 3/4 | 190 | 280 | 700 | 1850 | 72.3 | 367.7 | 4750 | 4700 | | | | | | M12–M36 |
| PA6-300-6-400 | 323.9 | 12.75 | 36 | 41 | 54 | 2 1/8 | 230 | 320 | 750 | 1450 | 111.2 | 342.7 | 7510 | 7430 | | | | | | M20–M64 |
| PA6-300-7-400 | 323.9 | 12.75 | 42 | 45 | 63 | 2 1/2 | 260 | 320 | 800 | 1100 | 157.1 | 278.4 | 10930 | 10810 | | | | | | M30–M64 |
| PA6-300-8-400 | 323.9 | 12.75 | 48 | 52 | 72 | 2 13/16 | 300 | 300 | 850 | 850 | 218.6 | 218.6 | 15170 | 15020 | | | | | | M42–M80 |
| PA6-300-1-490 | 323.9 | 12.75 | 16 | 17 | 24 | 15/16 | 90 | 130 | 550 | 1900 | 13.1 | 107.4 | 800 | 800 | 750 | 580 | 380 | 270 | 200 | M8–M16 |
| PA6-300-2-490 | 323.9 | 12.75 | 16 | 17 | 24 | 15/16 | 100 | 180 | 550 | 1900 | 18.2 | 148.5 | 1140 | 1140 | 1080 | 910 | 650 | 460 | 330 | M8–M16 |
| PA6-300-3-490 | 323.9 | 12.75 | 20 | 20 | 30 | 1 3/16 | 120 | 220 | 600 | 1850 | 31.3 | 213.5 | 2110 | 2110 | 2030 | 1730 | 1290 | 940 | 670 | M12–M24 |
| PA6-300-4-490 | 323.9 | 12.75 | 24 | 25 | 36 | 1 7/16 | 120 | 250 | 650 | 1850 | 41.8 | 284.1 | 3300 | 3300 | 3200 | 2760 | 1960 | 1400 | 1000 | M12–M36 |
| PA6-300-5-490 | 323.9 | 12.75 | 30 | 29 | 45 | 1 3/4 | 170 | 270 | 650 | 1850 | 60.5 | 353.9 | 4700 | 4700 | 4590 | 4060 | 2890 | 2060 | 1480 | M12–M36 |
| PA6-300-6-490 | 323.9 | 12.75 | 36 | 41 | 54 | 2 1/8 | 220 | 310 | 750 | 1450 | 105.7 | 331.3 | 7470 | 7470 | 7310 | 6340 | 4730 | 3460 | 2450 | M20–M64 |
| PA6-300-7-490 | 323.9 | 12.75 | 42 | 45 | 63 | 2 1/2 | 260 | 320 | 800 | 1100 | 155.9 | 277.2 | 10930 | 10930 | 10930 | 9560 | 7430 | 5580 | 3900 | M30–M64 |
| PA6-300-8-490 | 323.9 | 12.75 | 48 | 52 | 72 | 2 13/16 | 300 | 320 | 850 | 900 | 217.4 | 241.6 | 15280 | 15280 | 14930 | 13200 | 10670 | 8180 | 5690 | M42–M80 |
| PA6-300-1-530 | 323.9 | 12.75 | 16 | 17 | 24 | 15/16 | 100 | 150 | 550 | 1900 | 18.2 | 123.8 | 940 | 940 | 890 | 750 | 530 | 380 | 270 | M8–M16 |
| PA6-300-2-530 | 323.9 | 12.75 | 16 | 17 | 24 | 15/16 | 110 | 150 | 550 | 1900 | 20.0 | 148.2 | 1340 | 1340 | 1290 | 1100 | 760 | 530 | 380 | M8–M16 |
| PA6-300-3-530 | 323.9 | 12.75 | 20 | 20 | 30 | 1 3/16 | 130 | 200 | 600 | 1900 | 33.7 | 231.5 | 2500 | 2500 | 2420 | 2100 | 1480 | 1030 | 740 | M12–M24 |
| PA6-300-4-530 | 323.9 | 12.75 | 24 | 25 | 36 | 1 7/16 | 140 | 220 | 650 | 1850 | 48.6 | 285.1 | 3660 | 3660 | 3660 | 3240 | 2330 | 1660 | 1190 | M12–M36 |
| PA6-300-5-530 | 323.9 | 12.75 | 30 | 29 | 45 | 1 3/4 | 190 | 310 | 650 | 1850 | 67.5 | 406.0 | 5460 | 5460 | 5330 | 4590 | 3260 | 2320 | 1670 | M12–M36 |
| PA6-300-6-530 | 323.9 | 12.75 | 36 | 41 | 54 | 2 1/8 | 190 | 320 | 750 | 1350 | 106.1 | 321.8 | 7620 | 7620 | 7620 | 7340 | 5750 | 4320 | 3020 | M20–M64 |
| PA6-300-7-530 | 323.9 | 12.75 | 42 | 45 | 63 | 2 1/2 | 270 | 310 | 750 | 1000 | 153.4 | 249.2 | 10930 | 10930 | 10930 | 10840 | 8460 | 6350 | 4450 | M30–M64 |
| PA6-300-1-560 | 323.9 | 12.75 | 16 | 17 | 24 | 15/16 | 100 | 190 | 550 | 1900 | 18.1 | 156.8 | 1050 | 1050 | 1050 | 980 | 750 | 600 | 480 | M8–M16 |
| PA6-300-2-560 | 323.9 | 12.75 | 16 | 17 | 24 | 15/16 | 100 | 180 | 600 | 1900 | 25.5 | 177.7 | 1600 | 1600 | 1570 | 1360 | 1070 | 860 | 680 | M8–M16 |
| PA6-300-3-560 | 323.9 | 12.75 | 20 | 20 | 30 | 1 3/16 | 160 | 240 | 600 | 1900 | 41.3 | 277.4 | 2630 | 2630 | 2630 | 2590 | 2070 | 1640 | 1310 | M12–M24 |
| PA6-300-4-560 | 323.9 | 12.75 | 24 | 25 | 36 | 1 7/16 | 180 | 260 | 650 | 1850 | 62.2 | 336.8 | 3660 | 3660 | 3660 | 3660 | 3250 | 2670 | 2110 | M12–M36 |
| PA6-300-5-560 | 323.9 | 12.75 | 30 | 29 | 45 | 1 3/4 | 190 | 320 | 700 | 1650 | 84.8 | 378.5 | 6090 | 6090 | 6090 | 5680 | 4710 | 3830 | 3040 | M12–M36 |
| PA6-300-6-560 | 323.9 | 12.75 | 36 | 41 | 54 | 2 1/8 | 230 | 310 | 750 | 1150 | 127.9 | 272.8 | 7620 | 7620 | 7620 | 7620 | 7390 | 6060 | 4790 | M20–M64 |
| PA6-300-7-560 | 323.9 | 12.75 | 42 | 45 | 63 | 2 1/2 | 270 | 320 | 800 | 900 | 182.8 | 236.1 | 10930 | 10930 | 10930 | 10930 | 10930 | 9020 | 7130 | M30–M64 |
| PA6-300-1-600 | 323.9 | 12.75 | 16 | 17 | 24 | 15/16 | 100 | 190 | 600 | 1900 | 25.4 | 187.4 | 1050 | 1050 | 1050 | 1050 | 1050 | 910 | 730 | M8–M16 |
| PA6-300-2-600 | 323.9 | 12.75 | 16 | 17 | 24 | 15/16 | 140 | 200 | 600 | 1900 | 35.4 | 229.8 | 1480 | 1480 | 1480 | 1480 | 1480 | 1390 | 1100 | M8–M16 |
| PA6-300-3-600 | 323.9 | 12.75 | 20 | 20 | 30 | 1 3/16 | 160 | 260 | 600 | 1900 | 51.2 | 342.7 | 2630 | 2630 | 2630 | 2630 | 2630 | 2570 | 2030 | M12–M24 |
| PA6-300-4-600 | 323.9 | 12.75 | 24 | 25 | 36 | 1 7/16 | 180 | 320 | 650 | 1600 | 73.9 | 363.7 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3160 | M12–M36 |
| PA6-300-5-600 | 323.9 | 12.75 | 30 | 29 | 45 | 1 3/4 | 210 | 320 | 700 | 1200 | 108.5 | 288.0 | 6090 | 6090 | 6090 | 6090 | 6090 | 5880 | 4640 | M12–M36 |
| PA6-300-6-600 | 323.9 | 12.75 | 36 | 41 | 54 | 2 1/8 | 260 | 300 | 750 | 850 | 163.8 | 207.5 | 7620 | 7620 | 7620 | 7620 | 7620 | 7620 | 7320 | M20–M64 |

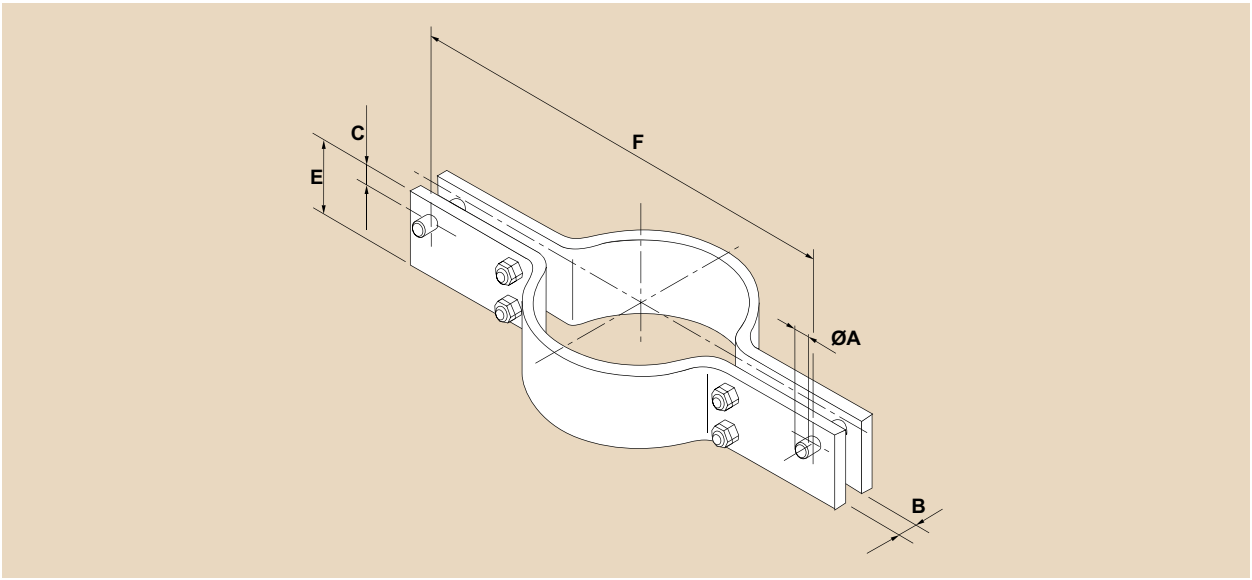
# PA6 PRESSED RISER CLAMP SIX BOLT TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C* *Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA6-350-1-400 | 355.6 | 14 | 16 | 17 | 24 | 15/16 | 120 | 130 | 600 | 1850 | 23.9 | 105.9 | 820 | 790 | | | | | | M8–M16 |
| PA6-350-2-400 | 355.6 | 14 | 16 | 17 | 24 | 15/16 | 120 | 180 | 600 | 1850 | 23.9 | 146.4 | 1170 | 1120 | | | | | | M8–M16 |
| PA6-350-3-400 | 355.6 | 14 | 20 | 20 | 30 | 13/16 | 150 | 220 | 650 | 1850 | 42.5 | 215.6 | 2080 | 2020 | | | | | | M12–M24 |
| PA6-350-4-400 | 355.6 | 14 | 24 | 25 | 36 | 17/16 | 180 | 250 | 700 | 1850 | 68.0 | 287.3 | 3260 | 3190 | | | | | | M12–M36 |
| PA6-350-5-400 | 355.6 | 14 | 30 | 29 | 45 | 1 3/4 | 190 | 270 | 750 | 1850 | 77.3 | 357.3 | 4630 | 4560 | | | | | | M12–M36 |
| PA6-350-6-400 | 355.6 | 14 | 36 | 41 | 54 | 2 1/8 | 240 | 310 | 800 | 1450 | 124.5 | 336.4 | 7420 | 7350 | | | | | | M20–M64 |
| PA6-350-7-400 | 355.6 | 14 | 42 | 45 | 63 | 2 1/2 | 270 | 310 | 850 | 1100 | 172.7 | 272.8 | 10930 | 10770 | | | | | | M30–M64 |
| PA6-350-8-400 | 355.6 | 14 | 48 | 52 | 72 | 2 13/16 | 310 | 310 | 900 | 900 | 238.4 | 238.4 | 15170 | 15030 | | | | | | M42–M80 |
| PA6-350-1-490 | 355.6 | 14 | 16 | 17 | 24 | 15/16 | 100 | 120 | 600 | 1850 | 19.8 | 97.6 | 770 | 770 | 730 | 610 | 440 | 310 | 220 | M8–M16 |
| PA6-350-2-490 | 355.6 | 14 | 16 | 17 | 24 | 15/16 | 100 | 170 | 600 | 1850 | 19.8 | 138.1 | 1130 | 1130 | 1070 | 900 | 630 | 440 | 320 | M8–M16 |
| PA6-350-3-490 | 355.6 | 14 | 20 | 20 | 30 | 13/16 | 120 | 220 | 650 | 1850 | 33.9 | 215.3 | 2150 | 2150 | 2060 | 1760 | 1270 | 880 | 640 | M12–M24 |
| PA6-350-4-490 | 355.6 | 14 | 24 | 25 | 36 | 17/16 | 150 | 250 | 700 | 1850 | 56.3 | 286.6 | 3360 | 3360 | 3250 | 2830 | 2200 | 1660 | 1160 | M12–M36 |
| PA6-350-5-490 | 355.6 | 14 | 30 | 29 | 45 | 1 3/4 | 180 | 270 | 700 | 1850 | 69.1 | 356.6 | 4760 | 4760 | 4660 | 4080 | 2910 | 2070 | 1490 | M12–M36 |
| PA6-350-6-490 | 355.6 | 14 | 36 | 41 | 54 | 2 1/8 | 230 | 320 | 800 | 1500 | 118.3 | 356.0 | 7560 | 7560 | 7390 | 6340 | 4740 | 3480 | 2460 | M20–M64 |
| PA6-350-7-490 | 355.6 | 14 | 42 | 45 | 63 | 2 1/2 | 250 | 320 | 800 | 1150 | 152.3 | 290.3 | 10930 | 10930 | 10730 | 9500 | 7440 | 5590 | 3910 | M30–M64 |
| PA6-350-8-490 | 355.6 | 14 | 48 | 52 | 72 | 2 13/16 | 290 | 310 | 850 | 900 | 213.1 | 237.1 | 15630 | 15630 | 15280 | 13520 | 10960 | 8410 | 5860 | M42–M80 |
| PA6-350-1-530 | 355.6 | 14 | 16 | 17 | 24 | 15/16 | 100 | 140 | 600 | 1850 | 19.8 | 113.8 | 920 | 920 | 860 | 730 | 520 | 370 | 270 | M8–M16 |
| PA6-350-2-530 | 355.6 | 14 | 16 | 17 | 24 | 15/16 | 110 | 200 | 600 | 1850 | 21.7 | 162.4 | 1350 | 1350 | 1270 | 1060 | 700 | 490 | 350 | M8–M16 |
| PA6-350-3-530 | 355.6 | 14 | 20 | 20 | 30 | 13/16 | 130 | 190 | 650 | 1850 | 36.6 | 216.5 | 2480 | 2480 | 2400 | 2040 | 1390 | 960 | 700 | M12–M24 |
| PA6-350-4-530 | 355.6 | 14 | 24 | 25 | 36 | 17/16 | 150 | 280 | 700 | 1850 | 56.0 | 320.5 | 3660 | 3660 | 3660 | 3190 | 2380 | 1700 | 1220 | M12–M36 |
| PA6-350-5-530 | 355.6 | 14 | 30 | 29 | 45 | 1 3/4 | 200 | 300 | 700 | 1850 | 76.2 | 396.0 | 5340 | 5340 | 5220 | 4570 | 3260 | 2320 | 1670 | M12–M36 |
| PA6-350-6-530 | 355.6 | 14 | 36 | 41 | 54 | 2 1/8 | 200 | 320 | 800 | 1350 | 118.8 | 325.0 | 7620 | 7620 | 7620 | 7460 | 5820 | 4370 | 3060 | M20–M64 |
| PA6-350-7-530 | 355.6 | 14 | 42 | 45 | 63 | 2 1/2 | 280 | 320 | 800 | 1050 | 170.0 | 270.2 | 10930 | 10930 | 10930 | 10790 | 8410 | 6320 | 4420 | M30–M64 |
| PA6-350-8-530 | 355.6 | 14 | 48 | 52 | 72 | 2 13/16 | 320 | 320 | 850 | 850 | 234.5 | 234.5 | 17480 | 17480 | 17100 | 15130 | 12260 | 9410 | 6560 | M42–M80 |
| PA6-350-1-560 | 355.6 | 14 | 16 | 17 | 24 | 15/16 | 100 | 180 | 600 | 1850 | 19.7 | 146.2 | 950 | 950 | 950 | 950 | 730 | 580 | 450 | M8–M16 |
| PA6-350-2-560 | 355.6 | 14 | 16 | 17 | 24 | 15/16 | 100 | 180 | 600 | 1850 | 26.0 | 174.9 | 1600 | 1600 | 1600 | 1430 | 1130 | 910 | 720 | M8–M16 |
| PA6-350-3-560 | 355.6 | 14 | 20 | 20 | 30 | 13/16 | 130 | 230 | 700 | 1850 | 47.9 | 261.9 | 2630 | 2630 | 2630 | 2600 | 2110 | 1710 | 1360 | M12–M24 |
| PA6-350-4-560 | 355.6 | 14 | 24 | 25 | 36 | 17/16 | 180 | 250 | 700 | 1850 | 67.0 | 326.4 | 3660 | 3660 | 3660 | 3660 | 3160 | 2530 | 2010 | M12–M36 |
| PA6-350-5-560 | 355.6 | 14 | 30 | 29 | 45 | 1 3/4 | 200 | 320 | 750 | 1700 | 95.9 | 392.1 | 6090 | 6090 | 6090 | 5580 | 4620 | 3790 | 3000 | M12–M36 |
| PA6-350-6-560 | 355.6 | 14 | 36 | 41 | 54 | 2 1/8 | 240 | 320 | 800 | 1200 | 142.1 | 294.8 | 7620 | 7620 | 7620 | 7620 | 7470 | 6080 | 4810 | M20–M64 |
| PA6-350-7-560 | 355.6 | 14 | 42 | 45 | 63 | 2 1/2 | 280 | 320 | 850 | 950 | 201.8 | 250.1 | 10930 | 10930 | 10930 | 10930 | 10720 | 8790 | 6950 | M30–M64 |
| PA6-350-1-600 | 355.6 | 14 | 16 | 17 | 24 | 15/16 | 100 | 180 | 600 | 1850 | 26.0 | 174.9 | 1600 | 1600 | 1600 | 1430 | 1130 | 910 | 720 | M8–M16 |
| PA6-350-2-600 | 355.6 | 14 | 16 | 17 | 24 | 15/16 | 130 | 190 | 600 | 1850 | 33.7 | 214.9 | 1600 | 1600 | 1600 | 1600 | 1600 | 1390 | 1100 | M8–M16 |
| PA6-350-3-600 | 355.6 | 14 | 20 | 20 | 30 | 13/16 | 170 | 250 | 650 | 1850 | 58.9 | 324.4 | 2630 | 2630 | 2630 | 2630 | 2630 | 2590 | 2050 | M12–M24 |
| PA6-350-4-600 | 355.6 | 14 | 24 | 25 | 36 | 17/16 | 190 | 320 | 700 | 1600 | 84.1 | 367.2 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3200 | M12–M36 |
| PA6-350-5-600 | 355.6 | 14 | 30 | 29 | 45 | 1 3/4 | 220 | 310 | 750 | 1200 | 121.7 | 282.1 | 6090 | 6090 | 6090 | 6090 | 6090 | 5900 | 4660 | M12–M36 |
| PA6-350-6-600 | 355.6 | 14 | 36 | 41 | 54 | 2 1/8 | 270 | 310 | 800 | 900 | 181.2 | 227.2 | 7620 | 7620 | 7620 | 7620 | 7620 | 7620 | 7360 | M20–M64 |

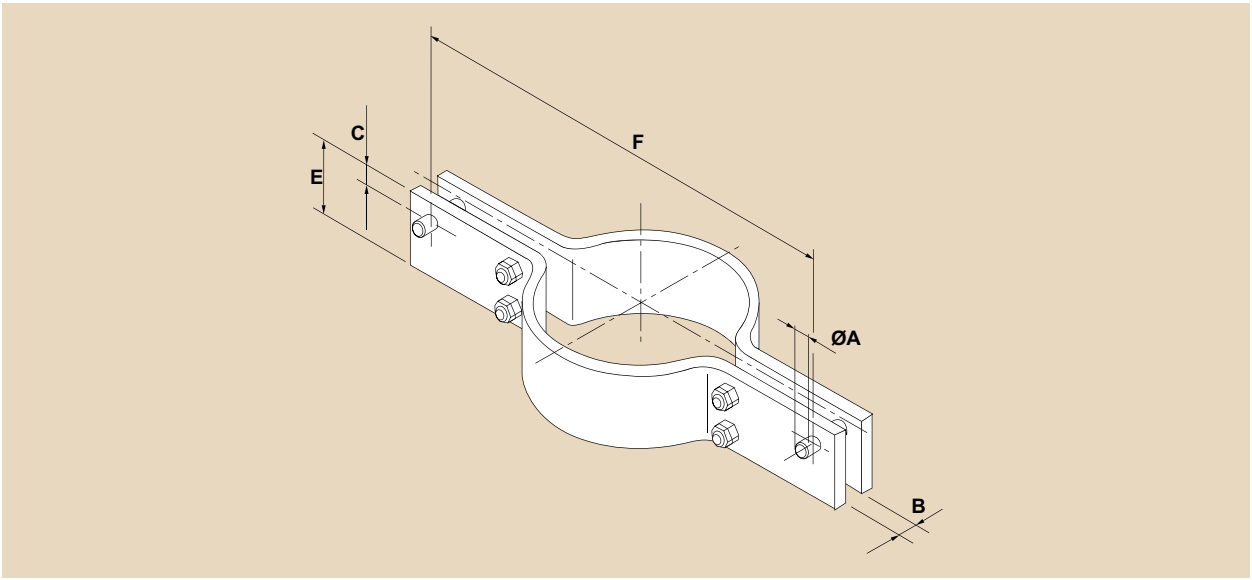
# PA6 PRESSED RISER CLAMP SIX BOLT TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C* *Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA6-400-1-400 | 406.4 | 16 | 16 | 17 | 24 | 15/16 | 120 | 120 | 650 | 1850 | 26.1 | 99.1 | 770 | 740 | | | | | | M8–M16 |
| PA6-400-2-400 | 406.4 | 16 | 16 | 17 | 24 | 15/16 | 120 | 170 | 650 | 1850 | 26.1 | 140.1 | 1130 | 1080 | | | | | | M8–M16 |
| PA6-400-3-400 | 406.4 | 16 | 20 | 20 | 30 | 13/16 | 150 | 220 | 750 | 1850 | 48.5 | 218.3 | 2150 | 2080 | | | | | | M12–M24 |
| PA6-400-4-400 | 406.4 | 16 | 24 | 25 | 36 | 17/16 | 180 | 240 | 750 | 1800 | 73.5 | 272.7 | 3320 | 3250 | | | | | | M12–M36 |
| PA6-400-5-400 | 406.4 | 16 | 30 | 29 | 45 | 13/4 | 200 | 260 | 800 | 1800 | 87.3 | 340.1 | 4730 | 4680 | | | | | | M12–M36 |
| PA6-400-6-400 | 406.4 | 16 | 36 | 41 | 54 | 21/8 | 240 | 320 | 850 | 1500 | 133.1 | 362.2 | 7620 | 7430 | | | | | | M20–M64 |
| PA6-400-7-400 | 406.4 | 16 | 42 | 45 | 63 | 21/2 | 280 | 310 | 900 | 1150 | 190.4 | 287.4 | 10930 | 10860 | | | | | | M30–M64 |
| PA6-400-8-400 | 406.4 | 16 | 48 | 52 | 72 | 213/16 | 320 | 320 | 950 | 950 | 262.9 | 262.6 | 15360 | 15210 | | | | | | M42–M80 |
| PA6-400-1-490 | 406.4 | 16 | 16 | 17 | 24 | 15/16 | 100 | 120 | 650 | 1850 | 21.6 | 98.9 | 800 | 800 | 750 | 630 | 450 | 320 | 230 | M8–M16 |
| PA6-400-2-490 | 406.4 | 16 | 16 | 17 | 24 | 15/16 | 100 | 170 | 650 | 1850 | 21.6 | 139.9 | 1170 | 1170 | 1060 | 840 | 550 | 390 | 280 | M8–M16 |
| PA6-400-3-490 | 406.4 | 16 | 20 | 20 | 30 | 13/16 | 120 | 220 | 700 | 1850 | 36.8 | 218.0 | 2210 | 2210 | 2120 | 1780 | 1210 | 840 | 600 | M12–M24 |
| PA6-400-4-490 | 406.4 | 16 | 24 | 25 | 36 | 17/16 | 150 | 230 | 750 | 1800 | 60.9 | 260.7 | 3270 | 3270 | 3160 | 2740 | 2120 | 1590 | 1110 | M12–M36 |
| PA6-400-5-490 | 406.4 | 16 | 30 | 29 | 45 | 13/4 | 180 | 260 | 750 | 1800 | 74.6 | 339.4 | 4870 | 4870 | 4670 | 3930 | 2780 | 1970 | 1420 | M12–M36 |
| PA6-400-6-490 | 406.4 | 16 | 36 | 41 | 54 | 21/8 | 240 | 320 | 850 | 1550 | 131.9 | 371.1 | 7500 | 7500 | 7320 | 6440 | 4780 | 3490 | 2470 | M20–M64 |
| PA6-400-7-490 | 406.4 | 16 | 42 | 45 | 63 | 21/2 | 250 | 310 | 850 | 1150 | 162.6 | 286.3 | 10930 | 10930 | 10690 | 9260 | 7170 | 5370 | 3760 | M30–M64 |
| PA6-400-8-490 | 406.4 | 16 | 48 | 52 | 72 | 213/16 | 310 | 310 | 950 | 950 | 253.0 | 253.0 | 15290 | 15290 | 14930 | 13180 | 10610 | 8120 | 5630 | M42–M80 |
| PA6-400-1-530 | 406.4 | 16 | 16 | 17 | 24 | 15/16 | 100 | 140 | 650 | 1850 | 21.6 | 115.3 | 940 | 940 | 890 | 750 | 530 | 380 | 270 | M8–M16 |
| PA6-400-2-530 | 406.4 | 16 | 16 | 17 | 24 | 15/16 | 120 | 200 | 700 | 1850 | 36.2 | 164.7 | 1390 | 1390 | 1310 | 1100 | 780 | 550 | 400 | M8–M16 |
| PA6-400-3-530 | 406.4 | 16 | 20 | 20 | 30 | 13/16 | 140 | 190 | 700 | 1850 | 42.8 | 219.2 | 2550 | 2550 | 2470 | 2110 | 1430 | 1000 | 720 | M12–M24 |
| PA6-400-4-530 | 406.4 | 16 | 24 | 25 | 36 | 17/16 | 150 | 270 | 750 | 1800 | 60.9 | 305.9 | 3660 | 3660 | 3660 | 3220 | 2280 | 1610 | 1160 | M12–M36 |
| PA6-400-5-530 | 406.4 | 16 | 30 | 29 | 45 | 13/4 | 170 | 290 | 800 | 1800 | 87.9 | 378.3 | 5480 | 5480 | 5350 | 4720 | 3590 | 2620 | 1860 | M12–M36 |
| PA6-400-6-530 | 406.4 | 16 | 36 | 41 | 54 | 21/8 | 210 | 320 | 850 | 1400 | 134.1 | 340.9 | 7620 | 7620 | 7620 | 7460 | 5920 | 4440 | 3110 | M20–M64 |
| PA6-400-7-530 | 406.4 | 16 | 42 | 45 | 63 | 21/2 | 240 | 320 | 900 | 1100 | 184.9 | 285.3 | 10930 | 10930 | 10930 | 10750 | 8660 | 6620 | 4590 | M30–M64 |
| PA6-400-1-560 | 406.4 | 16 | 16 | 17 | 24 | 15/16 | 120 | 180 | 650 | 1850 | 25.7 | 148.1 | 990 | 990 | 990 | 990 | 760 | 610 | 480 | M8–M16 |
| PA6-400-2-560 | 406.4 | 16 | 16 | 17 | 24 | 15/16 | 100 | 170 | 650 | 1850 | 28.5 | 167.4 | 1540 | 1540 | 1540 | 1380 | 1080 | 870 | 690 | M8–M16 |
| PA6-400-3-560 | 406.4 | 16 | 20 | 20 | 30 | 13/16 | 130 | 220 | 750 | 1850 | 51.8 | 253.7 | 2630 | 2630 | 2630 | 2540 | 2050 | 1660 | 1320 | M12–M24 |
| PA6-400-4-560 | 406.4 | 16 | 24 | 25 | 36 | 17/16 | 190 | 250 | 750 | 1850 | 76.4 | 330.5 | 3660 | 3660 | 3660 | 3660 | 3220 | 2570 | 2050 | M12–M36 |
| PA6-400-5-560 | 406.4 | 16 | 30 | 29 | 45 | 13/4 | 200 | 310 | 800 | 1700 | 103.1 | 348.8 | 6090 | 6090 | 6090 | 5540 | 4570 | 3700 | 2940 | M12–M36 |
| PA6-400-6-560 | 406.4 | 16 | 36 | 41 | 54 | 21/8 | 250 | 320 | 850 | 1250 | 158.2 | 310.7 | 7620 | 7620 | 7620 | 7620 | 7380 | 6040 | 4770 | M20–M64 |
| PA6-400-7-560 | 406.4 | 16 | 42 | 45 | 63 | 21/2 | 290 | 310 | 900 | 950 | 222.5 | 247.3 | 10930 | 10930 | 10930 | 10930 | 10930 | 9010 | 7120 | M30–M64 |
| PA6-400-1-600 | 406.4 | 16 | 16 | 17 | 24 | 15/16 | 100 | 180 | 650 | 1850 | 28.5 | 177.2 | 1540 | 1540 | 1540 | 1460 | 1150 | 920 | 730 | M8–M16 |
| PA6-400-2-600 | 406.4 | 16 | 16 | 17 | 24 | 15/16 | 150 | 190 | 650 | 1850 | 42.6 | 217.6 | 1600 | 1600 | 1600 | 1600 | 1600 | 1420 | 1120 | M8–M16 |
| PA6-400-3-600 | 406.4 | 16 | 20 | 20 | 30 | 13/16 | 170 | 250 | 700 | 1850 | 64.0 | 328.5 | 2630 | 2630 | 2630 | 2630 | 2630 | 2540 | 2030 | M12–M24 |
| PA6-400-4-600 | 406.4 | 16 | 24 | 25 | 36 | 17/16 | 200 | 320 | 750 | 1650 | 95.8 | 382.5 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3180 | M12–M36 |
| PA6-400-5-600 | 406.4 | 16 | 30 | 29 | 45 | 13/4 | 220 | 310 | 800 | 1250 | 131.2 | 297.1 | 6090 | 6090 | 6090 | 6090 | 6090 | 5820 | 4600 | M12–M36 |
| PA6-400-6-600 | 406.4 | 16 | 36 | 41 | 54 | 21/8 | 280 | 320 | 850 | 950 | 201.1 | 249.5 | 7620 | 7620 | 7620 | 7620 | 7620 | 7620 | 7370 | M20–M64 |

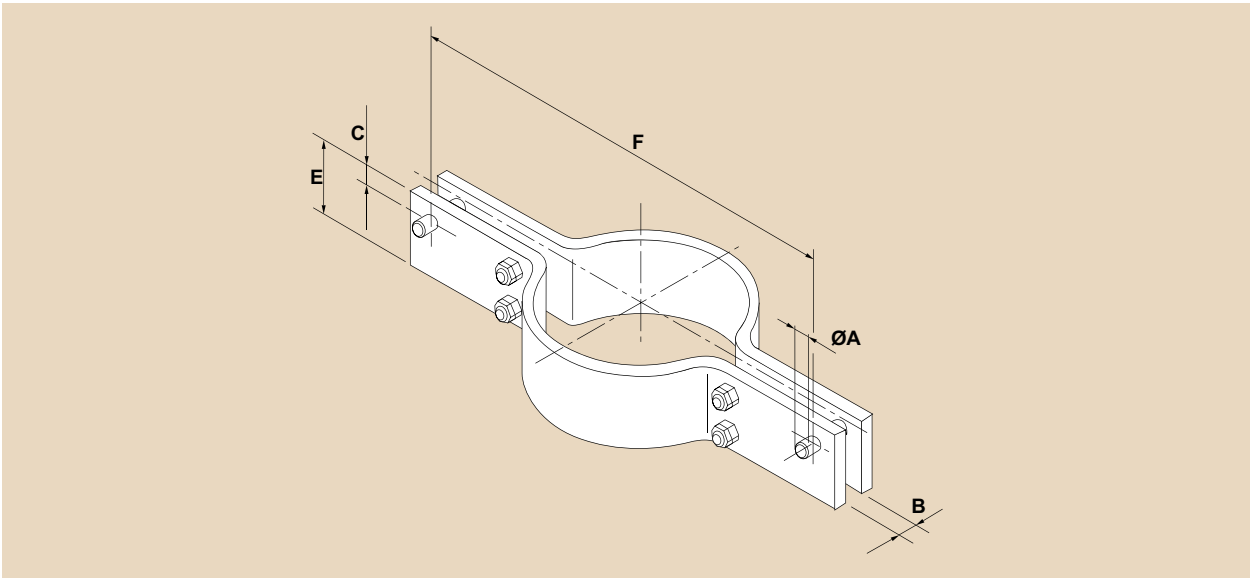
# PA6 PRESSED RISER CLAMP SIX BOLT TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C* *Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA6-450-2-400 | 457.2 | 18 | 16 | 17 | 24 | 15/16 | 120 | 160 | 700 | 1800 | 28.3 | 130.5 | 1140 | 1100 | | | | | | M8–M16 |
| PA6-450-3-400 | 457.2 | 18 | 20 | 20 | 30 | 1 3/16 | 150 | 200 | 800 | 1800 | 52.2 | 196.5 | 2080 | 2020 | | | | | | M12–M24 |
| PA6-450-4-400 | 457.2 | 18 | 24 | 25 | 36 | 1 7/16 | 180 | 230 | 800 | 1800 | 79.0 | 264.8 | 3290 | 3220 | | | | | | M12–M36 |
| PA6-450-5-400 | 457.2 | 18 | 30 | 29 | 45 | 1 3/4 | 200 | 250 | 850 | 1800 | 93.4 | 331.4 | 4680 | 4580 | | | | | | M12–M36 |
| PA6-450-6-400 | 457.2 | 18 | 36 | 41 | 54 | 2 1/8 | 220 | 320 | 950 | 1550 | 156.9 | 377.7 | 7600 | 7530 | | | | | | M20–M64 |
| PA6-450-7-400 | 457.2 | 18 | 42 | 45 | 63 | 2 1/2 | 280 | 310 | 950 | 1200 | 203.9 | 304.0 | 10930 | 10730 | | | | | | M30–M64 |
| PA6-450-8-400 | 457.2 | 18 | 48 | 52 | 72 | 2 13/16 | 320 | 320 | 1000 | 1000 | 277.9 | 277.9 | 15070 | 14930 | | | | | | M42–M80 |
| PA6-450-2-490 | 457.2 | 18 | 16 | 17 | 24 | 15/16 | 120 | 160 | 700 | 1800 | 28.1 | 130.3 | 1180 | 1180 | 1110 | 920 | 610 | 430 | 300 | M8–M16 |
| PA6-450-3-490 | 457.2 | 18 | 20 | 20 | 30 | 1 3/16 | 120 | 200 | 750 | 1800 | 39.8 | 196.2 | 2140 | 2140 | 2030 | 1690 | 1150 | 800 | 580 | M12–M24 |
| PA6-450-4-490 | 457.2 | 18 | 24 | 25 | 36 | 1 7/16 | 150 | 230 | 800 | 1800 | 65.5 | 264.2 | 3380 | 3380 | 3280 | 2860 | 2230 | 1610 | 1160 | M12–M36 |
| PA6-450-5-490 | 457.2 | 18 | 30 | 29 | 45 | 1 3/4 | 200 | 250 | 850 | 1800 | 92.7 | 331.4 | 4820 | 4820 | 4640 | 3920 | 2800 | 2000 | 1430 | M12–M36 |
| PA6-450-6-490 | 457.2 | 18 | 36 | 41 | 54 | 2 1/8 | 240 | 320 | 900 | 1600 | 140.8 | 386.6 | 7470 | 7470 | 7310 | 6340 | 4760 | 3500 | 2470 | M20–M64 |
| PA6-450-7-490 | 457.2 | 18 | 42 | 45 | 63 | 2 1/2 | 260 | 320 | 900 | 1250 | 179.9 | 320.9 | 10930 | 10930 | 10720 | 9500 | 7440 | 5600 | 3910 | M30–M64 |
| PA6-450-8-490 | 457.2 | 18 | 48 | 52 | 72 | 2 13/16 | 320 | 320 | 1000 | 1000 | 276.2 | 276.2 | 15520 | 15520 | 15190 | 13460 | 10940 | 8410 | 5880 | M42–M80 |
| PA6-450-2-530 | 457.2 | 18 | 16 | 17 | 24 | 15/16 | 120 | 180 | 750 | 1800 | 39.2 | 146.7 | 1340 | 1340 | 1260 | 1060 | 760 | 540 | 390 | M8–M16 |
| PA6-450-3-530 | 457.2 | 18 | 20 | 20 | 30 | 1 3/16 | 150 | 230 | 750 | 1800 | 49.5 | 225.5 | 2490 | 2490 | 2400 | 2050 | 1470 | 1020 | 740 | M12–M24 |
| PA6-450-4-530 | 457.2 | 18 | 24 | 25 | 36 | 1 7/16 | 160 | 260 | 800 | 1800 | 69.7 | 298.4 | 3660 | 3660 | 3660 | 3260 | 2430 | 1730 | 1240 | M12–M36 |
| PA6-450-5-530 | 457.2 | 18 | 30 | 29 | 45 | 1 3/4 | 180 | 280 | 850 | 1800 | 100.3 | 370.8 | 5460 | 5460 | 5340 | 4730 | 3790 | 2790 | 1970 | M12–M36 |
| PA6-450-6-530 | 457.2 | 18 | 36 | 41 | 54 | 2 1/8 | 210 | 320 | 900 | 1450 | 143.0 | 356.4 | 7620 | 7620 | 7620 | 7500 | 5890 | 4430 | 3100 | M20–M64 |
| PA6-450-7-530 | 457.2 | 18 | 42 | 45 | 63 | 2 1/2 | 250 | 320 | 950 | 1150 | 204.5 | 300.8 | 10930 | 10930 | 10930 | 10930 | 8890 | 6840 | 4780 | M30–M64 |
| PA6-450-2-560 | 457.2 | 18 | 16 | 17 | 24 | 15/16 | 110 | 160 | 700 | 1800 | 34.0 | 155.8 | 1490 | 1490 | 1490 | 1390 | 1100 | 890 | 710 | M8–M16 |
| PA6-450-3-560 | 457.2 | 18 | 20 | 20 | 30 | 1 3/16 | 130 | 210 | 800 | 1800 | 55.8 | 239.6 | 2630 | 2630 | 2630 | 2610 | 2090 | 1670 | 1330 | M12–M24 |
| PA6-450-4-560 | 457.2 | 18 | 24 | 25 | 36 | 1 7/16 | 190 | 230 | 800 | 1800 | 82.2 | 301.1 | 3660 | 3660 | 3660 | 3660 | 3180 | 2540 | 2020 | M12–M36 |
| PA6-450-5-560 | 457.2 | 18 | 30 | 29 | 45 | 1 3/4 | 210 | 320 | 850 | 1800 | 115.9 | 422.7 | 6090 | 6090 | 6090 | 5520 | 4590 | 3760 | 2980 | M12–M36 |
| PA6-450-6-560 | 457.2 | 18 | 36 | 41 | 54 | 2 1/8 | 250 | 320 | 900 | 1300 | 169.6 | 326.2 | 7620 | 7620 | 7620 | 7620 | 7470 | 6090 | 4820 | M20–M64 |
| PA6-450-7-560 | 457.2 | 18 | 42 | 45 | 63 | 2 1/2 | 290 | 310 | 950 | 1000 | 236.5 | 262.3 | 10930 | 10930 | 10930 | 10930 | 10920 | 8970 | 7100 | M30–M64 |
| PA6-450-2-600 | 457.2 | 18 | 16 | 17 | 24 | 15/16 | 160 | 240 | 700 | 1800 | 49.3 | 233.6 | 1600 | 1600 | 1600 | 1600 | 1600 | 1370 | 1100 | M8–M16 |
| PA6-450-3-600 | 457.2 | 18 | 20 | 20 | 30 | 1 3/16 | 180 | 230 | 750 | 1800 | 73.3 | 299.0 | 2470 | 2470 | 2470 | 2470 | 2470 | 2470 | 2040 | M12–M24 |
| PA6-450-4-600 | 457.2 | 18 | 24 | 25 | 36 | 1 7/16 | 200 | 320 | 800 | 1700 | 103.0 | 398.0 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3210 | M12–M36 |
| PA6-450-5-600 | 457.2 | 18 | 30 | 29 | 45 | 1 3/4 | 220 | 310 | 850 | 1300 | 140.6 | 312.1 | 6090 | 6090 | 6090 | 6090 | 6090 | 5780 | 4570 | M12–M36 |
| PA6-450-6-600 | 457.2 | 18 | 36 | 41 | 54 | 2 1/8 | 280 | 320 | 900 | 1000 | 214.6 | 265.0 | 7620 | 7620 | 7620 | 7620 | 7620 | 7620 | 7350 | M20–M64 |

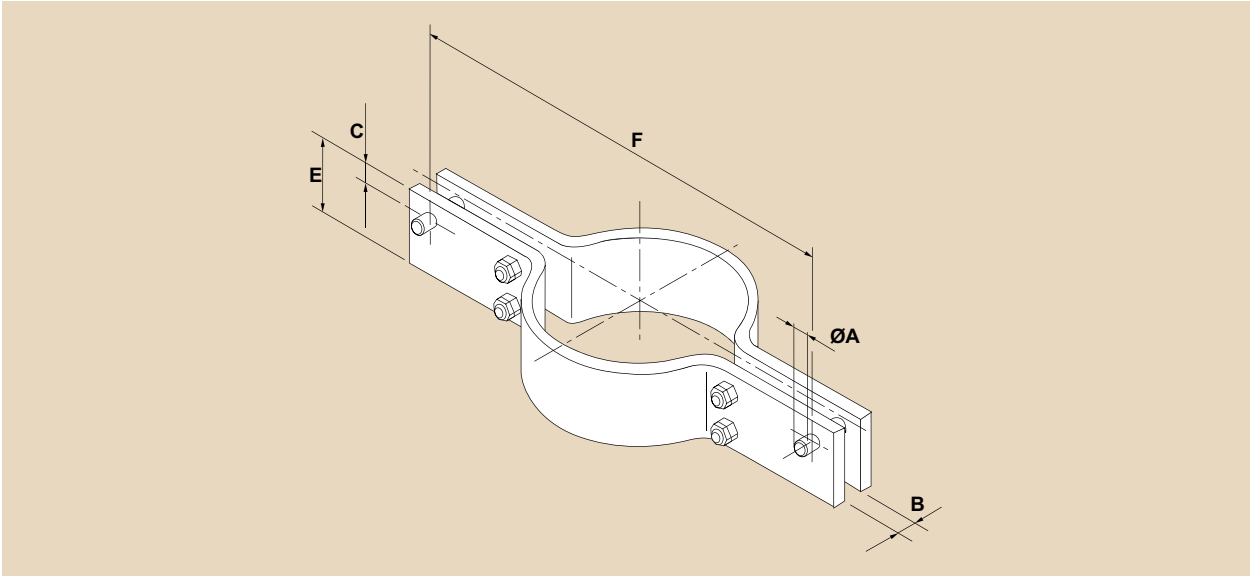
# PA6 PRESSED RISER CLAMP SIX BOLT TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C* *Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA6-500-2-400 | 508 | 20 | 16 | 17 | 24 | 15/16 | 150 | 150 | 800 | 1800 | 52.8 | 124.4 | 1110 | 1060 | | | | | | M8–M16 |
| PA6-500-3-400 | 508 | 20 | 20 | 20 | 30 | 1 3/16 | 180 | 190 | 850 | 1750 | 83.5 | 185.4 | 2130 | 2080 | | | | | | M12–M24 |
| PA6-500-4-400 | 508 | 20 | 24 | 25 | 36 | 1 7/16 | 180 | 210 | 850 | 1750 | 84.5 | 239.5 | 3220 | 3170 | | | | | | M12–M36 |
| PA6-500-5-400 | 508 | 20 | 30 | 29 | 45 | 1 3/4 | 220 | 230 | 950 | 1750 | 136.2 | 302.7 | 4620 | 4580 | | | | | | M12–M36 |
| PA6-500-6-400 | 508 | 20 | 36 | 41 | 54 | 2 1/8 | 220 | 320 | 1000 | 1600 | 166.2 | 393.2 | 7600 | 7530 | | | | | | M20–M64 |
| PA6-500-7-400 | 508 | 20 | 42 | 45 | 63 | 2 1/2 | 260 | 310 | 1050 | 1250 | 236.0 | 319.0 | 10930 | 10930 | | | | | | M30–M64 |
| PA6-500-2-490 | 508 | 20 | 16 | 17 | 24 | 15/16 | 120 | 150 | 800 | 1800 | 42.1 | 124.1 | 1140 | 1140 | 1080 | 920 | 660 | 480 | 340 | M8–M16 |
| PA6-500-3-490 | 508 | 20 | 20 | 20 | 30 | 1 3/16 | 140 | 190 | 800 | 1750 | 49.7 | 184.7 | 2200 | 2200 | 2120 | 1810 | 1250 | 870 | 630 | M12–M24 |
| PA6-500-4-490 | 508 | 20 | 24 | 25 | 36 | 1 7/16 | 150 | 210 | 850 | 1750 | 70.1 | 238.8 | 3320 | 3320 | 3220 | 2820 | 2230 | 1610 | 1150 | M12–M36 |
| PA6-500-5-490 | 508 | 20 | 30 | 29 | 45 | 1 3/4 | 180 | 230 | 900 | 1750 | 106.8 | 301.7 | 4760 | 4760 | 4670 | 4160 | 3410 | 2630 | 1850 | M12–M36 |
| PA6-500-6-490 | 508 | 20 | 36 | 41 | 54 | 2 1/8 | 190 | 320 | 950 | 1650 | 137.8 | 402.1 | 7470 | 7470 | 7320 | 6520 | 5230 | 3960 | 2760 | M20–M64 |
| PA6-500-7-490 | 508 | 20 | 42 | 45 | 63 | 2 1/2 | 280 | 320 | 1000 | 1300 | 214.2 | 337.9 | 10930 | 10930 | 10720 | 9370 | 7400 | 5600 | 3900 | M30–M64 |
| PA6-500-8-490 | 508 | 20 | 48 | 52 | 72 | 2 13/16 | 320 | 320 | 1050 | 1050 | 291.7 | 291.7 | 15230 | 15230 | 14940 | 13300 | 10900 | 8420 | 5930 | M42–M80 |
| PA6-500-2-530 | 508 | 20 | 16 | 17 | 24 | 15/16 | 120 | 180 | 800 | 1800 | 42.1 | 148.8 | 1390 | 1390 | 1320 | 1120 | 810 | 580 | 420 | M8–M16 |
| PA6-500-3-530 | 508 | 20 | 20 | 20 | 30 | 1 3/16 | 160 | 210 | 800 | 1750 | 56.7 | 204.1 | 2450 | 2450 | 2360 | 2020 | 1440 | 1000 | 730 | M12–M24 |
| PA6-500-4-530 | 508 | 20 | 24 | 25 | 36 | 1 7/16 | 160 | 240 | 850 | 1750 | 74.6 | 272.7 | 3660 | 3660 | 3660 | 3260 | 2410 | 1730 | 1240 | M12–M36 |
| PA6-500-5-530 | 508 | 20 | 30 | 29 | 45 | 1 3/4 | 180 | 260 | 900 | 1750 | 106.8 | 340.8 | 5450 | 5450 | 5340 | 4750 | 3770 | 2790 | 1960 | M12–M36 |
| PA6-500-6-530 | 508 | 20 | 36 | 41 | 54 | 2 1/8 | 210 | 320 | 950 | 1500 | 151.9 | 371.9 | 7620 | 7620 | 7620 | 7410 | 5850 | 4430 | 3090 | M20–M64 |
| PA6-500-7-530 | 508 | 20 | 42 | 45 | 63 | 2 1/2 | 250 | 320 | 1000 | 1200 | 217.8 | 317.5 | 10930 | 10930 | 10930 | 10930 | 8960 | 6920 | 4880 | M30–M64 |
| PA6-500-2-560 | 508 | 20 | 16 | 17 | 24 | 15/16 | 120 | 150 | 800 | 1800 | 41.9 | 148.2 | 1450 | 1450 | 1450 | 1360 | 1080 | 870 | 690 | M8–M16 |
| PA6-500-3-560 | 508 | 20 | 20 | 20 | 30 | 1 3/16 | 130 | 200 | 850 | 1800 | 59.8 | 231.3 | 2480 | 2480 | 2480 | 2480 | 2040 | 1640 | 1300 | M12–M24 |
| PA6-500-4-560 | 508 | 20 | 24 | 25 | 36 | 1 7/16 | 200 | 280 | 850 | 1750 | 92.6 | 317.9 | 3660 | 3660 | 3660 | 3660 | 3170 | 2590 | 2050 | M12–M36 |
| PA6-500-5-560 | 508 | 20 | 30 | 29 | 45 | 1 3/4 | 210 | 300 | 900 | 1750 | 123.5 | 392.1 | 5960 | 5960 | 5960 | 5610 | 4690 | 3830 | 3040 | M12–M36 |
| PA6-500-6-560 | 508 | 20 | 36 | 41 | 54 | 2 1/8 | 250 | 310 | 950 | 1350 | 180.2 | 331.1 | 7620 | 7620 | 7620 | 7620 | 7320 | 6020 | 4780 | M20–M64 |
| PA6-500-7-560 | 508 | 20 | 42 | 45 | 63 | 2 1/2 | 290 | 310 | 1000 | 1050 | 250.6 | 277.3 | 10930 | 10930 | 10930 | 10930 | 10850 | 8920 | 7090 | M30–M64 |
| PA6-500-2-600 | 508 | 20 | 16 | 17 | 24 | 15/16 | 110 | 230 | 800 | 1800 | 47.7 | 227.0 | 1330 | 1330 | 1330 | 1330 | 1330 | 1330 | 1080 | M8–M16 |
| PA6-500-3-600 | 508 | 20 | 20 | 20 | 30 | 1 3/16 | 200 | 220 | 800 | 1800 | 87.5 | 289.9 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2090 | M12–M24 |
| PA6-500-4-600 | 508 | 20 | 24 | 25 | 36 | 1 7/16 | 200 | 310 | 850 | 1750 | 110.4 | 400.9 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3160 | M12–M36 |
| PA6-500-5-600 | 508 | 20 | 30 | 29 | 45 | 1 3/4 | 230 | 320 | 900 | 1400 | 156.7 | 347.7 | 6090 | 6090 | 6090 | 6090 | 6090 | 5840 | 4650 | M12–M36 |
| PA6-500-6-600 | 508 | 20 | 36 | 41 | 54 | 2 1/8 | 300 | 320 | 1000 | 1050 | 254.5 | 281.3 | 7620 | 7620 | 7620 | 7620 | 7620 | 7620 | 7340 | M20–M64 |

# PA6 PRESSED RISER CLAMP SIX BOLT TYPE

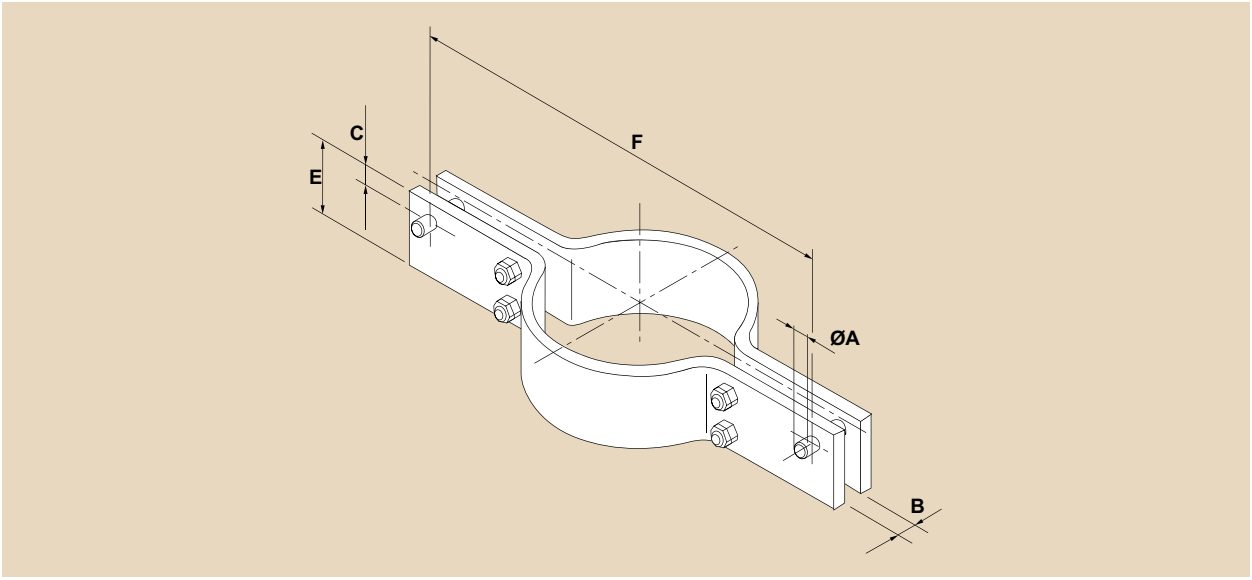



*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

*Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA6-550-3-400 | 558.8 | 22 | 20 | 20 | 30 | 1 3/16 | 180 | 180 | 900 | 1750 | 89.0 | 178.1 | 2100 | 2040 | | | | | | M12–M24 |
| PA6-550-4-400 | 558.8 | 22 | 24 | 25 | 36 | 1 7/16 | 220 | 220 | 950 | 1750 | 136.6 | 255.0 | 3530 | 3470 | | | | | | M12–M36 |
| PA6-550-5-400 | 558.8 | 22 | 30 | 29 | 45 | 1 3/4 | 260 | 260 | 1050 | 1750 | 205.3 | 347.6 | 5510 | 5460 | | | | | | M12–M36 |
| PA6-550-6-400 | 558.8 | 22 | 36 | 41 | 54 | 2 1/8 | 260 | 320 | 1050 | 1650 | 208.1 | 410.0 | 7590 | 7520 | | | | | | M20–M64 |
| PA6-550-7-400 | 558.8 | 22 | 42 | 45 | 63 | 2 1/2 | 260 | 310 | 1100 | 1300 | 248.4 | 333.8 | 10930 | 10870 | | | | | | M30–M64 |
| PA6-550-3-490 | 558.8 | 22 | 20 | 20 | 30 | 1 3/16 | 150 | 180 | 850 | 1750 | 56.9 | 177.5 | 2160 | 2160 | 2080 | 1770 | 1210 | 840 | 610 | M12–M24 |
| PA6-550-4-490 | 558.8 | 22 | 24 | 25 | 36 | 1 7/16 | 150 | 200 | 900 | 1750 | 74.6 | 230.4 | 3280 | 3280 | 3180 | 2770 | 2020 | 1440 | 1030 | M12–M36 |
| PA6-550-5-490 | 558.8 | 22 | 30 | 29 | 45 | 1 3/4 | 180 | 270 | 950 | 1700 | 113.4 | 307.2 | 4760 | 4760 | 4620 | 4020 | 3160 | 2380 | 1660 | M12–M36 |
| PA6-550-6-490 | 558.8 | 22 | 36 | 41 | 54 | 2 1/8 | 220 | 320 | 1050 | 1700 | 175.5 | 418.5 | 7460 | 7460 | 7300 | 6480 | 5280 | 4070 | 2850 | M20–M64 |
| PA6-550-7-490 | 558.8 | 22 | 42 | 45 | 63 | 2 1/2 | 230 | 320 | 1050 | 1350 | 211.8 | 352.9 | 10930 | 10930 | 10770 | 9560 | 7790 | 6000 | 4200 | M30–M64 |
| PA6-550-3-530 | 558.8 | 22 | 20 | 20 | 30 | 1 3/16 | 150 | 210 | 900 | 1750 | 73.8 | 206.9 | 2550 | 2550 | 2460 | 2100 | 1580 | 1170 | 820 | M12–M24 |
| PA6-550-4-530 | 558.8 | 22 | 24 | 25 | 36 | 1 7/16 | 170 | 230 | 900 | 1750 | 84.4 | 264.8 | 3660 | 3660 | 3660 | 3210 | 2310 | 1660 | 1180 | M12–M36 |
| PA6-550-5-530 | 558.8 | 22 | 30 | 29 | 45 | 1 3/4 | 180 | 250 | 950 | 1750 | 113.4 | 332.0 | 5440 | 5440 | 5330 | 4730 | 3630 | 2670 | 1890 | M12–M36 |
| PA6-550-6-530 | 558.8 | 22 | 36 | 41 | 54 | 2 1/8 | 230 | 320 | 1050 | 1550 | 183.3 | 388.3 | 7620 | 7620 | 7620 | 7370 | 5780 | 4360 | 3040 | M20–M64 |
| PA6-550-7-530 | 558.8 | 22 | 42 | 45 | 63 | 2 1/2 | 260 | 320 | 1050 | 1250 | 238.7 | 332.8 | 10930 | 10930 | 10930 | 10740 | 8760 | 6740 | 4720 | M30–M64 |
| PA6-550-3-560 | 558.8 | 22 | 20 | 20 | 30 | 1 3/16 | 150 | 180 | 900 | 1750 | 73.5 | 206.0 | 2590 | 2590 | 2590 | 2490 | 2020 | 1650 | 1310 | M12–M24 |
| PA6-550-4-560 | 558.8 | 22 | 24 | 25 | 36 | 1 7/16 | 160 | 280 | 950 | 1750 | 98.5 | 322.1 | 3660 | 3660 | 3660 | 3660 | 3280 | 2680 | 2120 | M12–M36 |
| PA6-550-5-560 | 558.8 | 22 | 30 | 29 | 45 | 1 3/4 | 210 | 290 | 950 | 1750 | 131.2 | 384.7 | 5380 | 5380 | 5380 | 5380 | 4580 | 3700 | 2930 | M12–M36 |
| PA6-550-6-560 | 558.8 | 22 | 36 | 41 | 54 | 2 1/8 | 260 | 320 | 1000 | 1400 | 198.3 | 357.0 | 7620 | 7620 | 7620 | 7620 | 7480 | 6090 | 4820 | M20–M64 |
| PA6-550-7-560 | 558.8 | 22 | 42 | 45 | 63 | 2 1/2 | 300 | 320 | 1050 | 1100 | 274.6 | 302.6 | 10930 | 10930 | 10930 | 10930 | 10910 | 8960 | 7110 | M30–M64 |
| PA6-550-3-600 | 558.8 | 22 | 20 | 20 | 30 | 1 3/16 | 150 | 270 | 900 | 1750 | 87.6 | 308.6 | 2600 | 2600 | 2600 | 2600 | 2600 | 2570 | 2030 | M12–M24 |
| PA6-550-4-600 | 558.8 | 22 | 24 | 25 | 36 | 1 7/16 | 220 | 310 | 900 | 1750 | 129.4 | 406.2 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3160 | M12–M36 |
| PA6-550-5-600 | 558.8 | 22 | 30 | 29 | 45 | 1 3/4 | 230 | 320 | 950 | 1450 | 166.4 | 363.1 | 5920 | 5920 | 5920 | 5920 | 5920 | 5790 | 4590 | M12–M36 |
| PA6-550-6-600 | 558.8 | 22 | 36 | 41 | 54 | 2 1/8 | 310 | 310 | 1050 | 1050 | 277.7 | 277.7 | 7620 | 7620 | 7620 | 7620 | 7620 | 7620 | 7380 | M20–M64 |
| PA6-600-3-400 | 609.6 | 24 | 20 | 20 | 30 | 1 3/16 | 180 | 180 | 950 | 1700 | 94.5 | 176.2 | 2300 | 2240 | | | | | | M12–M24 |
| PA6-600-4-400 | 609.6 | 24 | 24 | 25 | 36 | 1 7/16 | 220 | 220 | 1000 | 1700 | 144.7 | 252.3 | 3660 | 3660 | | | | | | M12–M36 |
| PA6-600-5-400 | 609.6 | 24 | 30 | 29 | 45 | 1 3/4 | 260 | 260 | 1100 | 1700 | 216.5 | 302.3 | 4660 | 4590 | | | | | | M12–M36 |
| PA6-600-6-400 | 609.6 | 24 | 36 | 41 | 54 | 2 1/8 | 260 | 320 | 1100 | 1700 | 219.3 | 425.7 | 7600 | 7530 | | | | | | M20–M64 |
| PA6-600-7-400 | 609.6 | 24 | 42 | 45 | 63 | 2 1/2 | 290 | 310 | 1150 | 1350 | 292.5 | 351.0 | 10810 | 10720 | | | | | | M30–M64 |
| PA6-600-3-490 | 609.6 | 24 | 20 | 20 | 30 | 1 3/16 | 160 | 170 | 900 | 1700 | 64.6 | 165.9 | 2230 | 2230 | 2090 | 1750 | 1210 | 840 | 610 | M12–M24 |
| PA6-600-4-490 | 609.6 | 24 | 24 | 25 | 36 | 1 7/16 | 180 | 190 | 1000 | 1700 | 99.1 | 217.4 | 3400 | 3400 | 3310 | 2900 | 2290 | 1650 | 1180 | M12–M36 |
| PA6-600-5-490 | 609.6 | 24 | 30 | 29 | 45 | 1 3/4 | 180 | 260 | 1000 | 1700 | 120.1 | 299.9 | 4800 | 4800 | 4670 | 4090 | 3240 | 2450 | 1710 | M12–M36 |
| PA6-600-6-490 | 609.6 | 24 | 36 | 41 | 54 | 2 1/8 | 220 | 310 | 1100 | 1700 | 185.0 | 411.0 | 7570 | 7570 | 7420 | 6620 | 5440 | 4160 | 2900 | M20–M64 |
| PA6-600-7-490 | 609.6 | 24 | 42 | 45 | 63 | 2 1/2 | 250 | 320 | 1150 | 1400 | 249.9 | 368.6 | 10930 | 10930 | 10740 | 9570 | 7870 | 6080 | 4300 | M30–M64 |
| PA6-600-3-530 | 609.6 | 24 | 20 | 20 | 30 | 1 3/16 | 150 | 190 | 950 | 1700 | 78.4 | 185.3 | 2520 | 2520 | 2430 | 2080 | 1590 | 1170 | 830 | M12–M24 |
| PA6-600-4-530 | 609.6 | 24 | 24 | 25 | 36 | 1 7/16 | 190 | 210 | 950 | 1700 | 100.0 | 240.0 | 3660 | 3660 | 3660 | 3230 | 2430 | 1750 | 1250 | M12–M36 |
| PA6-600-5-530 | 609.6 | 24 | 30 | 29 | 45 | 1 3/4 | 180 | 230 | 1000 | 1700 | 120.1 | 302.4 | 5450 | 5450 | 5350 | 4600 | 3500 | 2590 | 1820 | M12–M36 |
| PA6-600-6-530 | 609.6 | 24 | 36 | 41 | 54 | 2 1/8 | 240 | 310 | 1100 | 1600 | 201.4 | 391.5 | 7620 | 7620 | 7620 | 7330 | 6020 | 4580 | 3190 | M20–M64 |
| PA6-600-7-530 | 609.6 | 24 | 42 | 45 | 63 | 2 1/2 | 280 | 310 | 1150 | 1250 | 279.2 | 328.0 | 10930 | 10930 | 10930 | 10910 | 8970 | 6930 | 4900 | M30–M64 |
| PA6-600-3-560 | 609.6 | 24 | 20 | 20 | 30 | 1 3/16 | 160 | 230 | 950 | 1700 | 83.2 | 224.1 | 2520 | 2520 | 2520 | 2520 | 2070 | 1670 | 1330 | M12–M24 |
| PA6-600-4-560 | 609.6 | 24 | 24 | 25 | 36 | 1 7/16 | 180 | 250 | 1000 | 1700 | 118.0 | 285.4 | 3660 | 3660 | 3660 | 3660 | 3230 | 2640 | 2090 | M12–M36 |
| PA6-600-5-560 | 609.6 | 24 | 30 | 29 | 45 | 1 3/4 | 220 | 260 | 1000 | 1700 | 146.2 | 341.6 | 6090 | 6090 | 6090 | 5510 | 4610 | 3730 | 2960 | M12–M36 |
| PA6-600-6-560 | 609.6 | 24 | 36 | 41 | 54 | 2 1/8 | 260 | 310 | 1050 | 1450 | 209.5 | 361.2 | 7620 | 7620 | 7620 | 7620 | 7390 | 6050 | 4790 | M20–M64 |
| PA6-600-7-560 | 609.6 | 24 | 42 | 45 | 63 | 2 1/2 | 320 | 320 | 1150 | 1150 | 318.3 | 318.3 | 10930 | 10930 | 10930 | 10930 | 10840 | 8920 | 7100 | M30–M64 |
| PA6-600-3-600 | 609.6 | 24 | 20 | 20 | 30 | 1 3/16 | 160 | 250 | 950 | 1700 | 99.3 | 282.7 | 2530 | 2530 | 2530 | 2530 | 2530 | 2530 | 2050 | M12–M24 |
| PA6-600-4-600 | 609.6 | 24 | 24 | 25 | 36 | 1 7/16 | 240 | 280 | 950 | 1700 | 149.9 | 363.1 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3220 | M12–M36 |
| PA6-600-5-600 | 609.6 | 24 | 30 | 29 | 45 | 1 3/4 | 250 | 320 | 1050 | 1500 | 198.3 | 379.6 | 5840 | 5840 | 5840 | 5840 | 5840 | 5800 | 4590 | M12–M36 |
| PA6-600-6-600 | 609.6 | 24 | 36 | 41 | 54 | 2 1/8 | 310 | 310 | 1100 | 1100 | 292.9 | 292.2 | 7620 | 7620 | 7620 | 7620 | 7620 | 7620 | 7360 | M20–M64 |

# PA6 PRESSED RISER CLAMP SIX BOLT TYPE

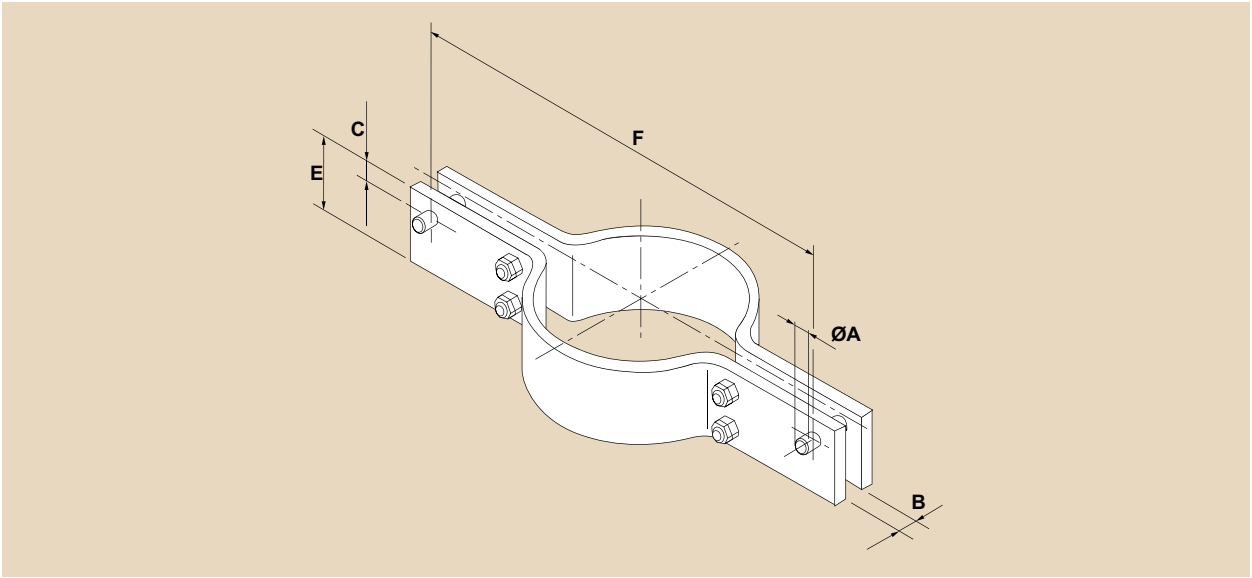



*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

*Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA6-650-3-400 | 660.4 | 26 | 20 | 20 | 30 | 13/16 | 180 | 180 | 1000 | 1700 | 100.0 | 178.6 | 2420 | 2350 | | | | | | M12–M24 |
| PA6-650-4-400 | 660.4 | 26 | 24 | 25 | 36 | 17/16 | 220 | 240 | 1050 | 1700 | 152.7 | 239.9 | 3310 | 3220 | | | | | | M12–M36 |
| PA6-650-5-400 | 660.4 | 26 | 30 | 29 | 45 | 1 3/4 | 260 | 260 | 1150 | 1650 | 227.5 | 299.0 | 5160 | 5080 | | | | | | M12–M36 |
| PA6-650-6-400 | 660.4 | 26 | 36 | 41 | 54 | 2 1/8 | 290 | 290 | 1200 | 1650 | 301.8 | 383.9 | 7580 | 7510 | | | | | | M20–M64 |
| PA6-650-7-400 | 660.4 | 26 | 42 | 45 | 63 | 2 1/2 | 290 | 320 | 1200 | 1400 | 306.3 | 377.3 | 10930 | 10920 | | | | | | M30–M64 |
| PA6-650-3-490 | 660.4 | 26 | 20 | 20 | 30 | 13/16 | 150 | 160 | 1000 | 1700 | 83.0 | 158.3 | 2190 | 2190 | 2110 | 1810 | 1360 | 1010 | 710 | M12–M24 |
| PA6-650-4-490 | 660.4 | 26 | 24 | 25 | 36 | 17/16 | 180 | 240 | 1050 | 1700 | 104.6 | 238.9 | 3410 | 3410 | 3290 | 2810 | 2090 | 1500 | 1070 | M12–M36 |
| PA6-650-5-490 | 660.4 | 26 | 30 | 29 | 45 | 1 3/4 | 180 | 240 | 1050 | 1650 | 126.6 | 274.0 | 4880 | 4880 | 4740 | 4130 | 3200 | 2360 | 1660 | M12–M36 |
| PA6-650-6-490 | 660.4 | 26 | 36 | 41 | 54 | 2 1/8 | 220 | 280 | 1150 | 1650 | 194.3 | 367.5 | 7510 | 7510 | 7360 | 6540 | 5310 | 4010 | 2800 | M20–M64 |
| PA6-650-7-490 | 660.4 | 26 | 42 | 45 | 63 | 2 1/2 | 250 | 310 | 1200 | 1400 | 261.8 | 362.3 | 10930 | 10930 | 10750 | 9550 | 7810 | 6020 | 4230 | M30–M64 |
| PA6-650-3-530 | 660.4 | 26 | 20 | 20 | 30 | 13/16 | 150 | 180 | 1000 | 1700 | 83.0 | 178.0 | 2490 | 2490 | 2400 | 2060 | 1550 | 1150 | 810 | M12–M24 |
| PA6-650-4-530 | 660.4 | 26 | 24 | 25 | 36 | 17/16 | 200 | 200 | 1000 | 1700 | 111.4 | 231.7 | 3660 | 3660 | 3660 | 3210 | 2340 | 1680 | 1200 | M12–M36 |
| PA6-650-5-530 | 660.4 | 26 | 30 | 29 | 45 | 1 3/4 | 200 | 270 | 1050 | 1650 | 140.4 | 307.9 | 5540 | 5540 | 5380 | 4700 | 3590 | 2650 | 1870 | M12–M36 |
| PA6-650-6-530 | 660.4 | 26 | 36 | 41 | 54 | 2 1/8 | 240 | 310 | 1150 | 1650 | 211.5 | 406.4 | 7620 | 7620 | 7620 | 7300 | 5850 | 4420 | 3080 | M20–M64 |
| PA6-650-7-530 | 660.4 | 26 | 42 | 45 | 63 | 2 1/2 | 280 | 320 | 1200 | 1300 | 292.6 | 353.7 | 10930 | 10930 | 10930 | 10830 | 8850 | 6820 | 4800 | M30–M64 |
| PA6-650-3-560 | 660.4 | 26 | 20 | 20 | 30 | 13/16 | 170 | 220 | 1000 | 1700 | 93.6 | 217.3 | 2460 | 2460 | 2460 | 2460 | 2050 | 1660 | 1320 | M12–M24 |
| PA6-650-4-560 | 660.4 | 26 | 24 | 25 | 36 | 17/16 | 180 | 240 | 1050 | 1700 | 124.5 | 277.6 | 3660 | 3660 | 3660 | 3660 | 3230 | 2630 | 2080 | M12–M36 |
| PA6-650-5-560 | 660.4 | 26 | 30 | 29 | 45 | 1 3/4 | 240 | 240 | 1050 | 1650 | 168.0 | 311.9 | 6090 | 6090 | 6090 | 5570 | 4640 | 3750 | 2980 | M12–M36 |
| PA6-650-6-560 | 660.4 | 26 | 36 | 41 | 54 | 2 1/8 | 270 | 320 | 1100 | 1500 | 228.8 | 389.1 | 7620 | 7620 | 7620 | 7620 | 7490 | 6100 | 4830 | M20–M64 |
| PA6-650-3-600 | 660.4 | 26 | 20 | 20 | 30 | 13/16 | 180 | 240 | 1000 | 1700 | 118.2 | 275.0 | 2620 | 2620 | 2620 | 2620 | 2620 | 2620 | 2080 | M12–M24 |
| PA6-650-4-600 | 660.4 | 26 | 24 | 25 | 36 | 17/16 | 190 | 270 | 1050 | 1700 | 151.5 | 354.8 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3240 | M12–M36 |
| PA6-650-5-600 | 660.4 | 26 | 30 | 29 | 45 | 1 3/4 | 260 | 320 | 1100 | 1550 | 217.2 | 394.9 | 5580 | 5580 | 5580 | 5580 | 5580 | 5580 | 4590 | M12–M36 |
| PA6-650-6-600 | 660.4 | 26 | 36 | 41 | 54 | 2 1/8 | 320 | 320 | 1150 | 1150 | 317.6 | 317.6 | 7620 | 7620 | 7620 | 7620 | 7620 | 7620 | 7370 | M20–M64 |
| PA6-700-3-400 | 711.2 | 28 | 20 | 20 | 30 | 13/16 | 180 | 200 | 1050 | 1650 | 105.6 | 164.3 | 2120 | 2030 | | | | | | M12–M24 |
| PA6-700-4-400 | 711.2 | 28 | 24 | 25 | 36 | 17/16 | 220 | 220 | 1100 | 1650 | 160.8 | 217.9 | 3370 | 3270 | | | | | | M12–M36 |
| PA6-700-5-400 | 711.2 | 28 | 30 | 29 | 45 | 1 3/4 | 260 | 260 | 1200 | 1650 | 238.6 | 303.0 | 5470 | 5360 | | | | | | M12–M36 |
| PA6-700-6-400 | 711.2 | 28 | 36 | 41 | 54 | 2 1/8 | 290 | 290 | 1250 | 1650 | 315.9 | 388.8 | 7620 | 7620 | | | | | | M20–M64 |
| PA6-700-3-490 | 711.2 | 28 | 20 | 20 | 30 | 13/16 | 180 | 200 | 1050 | 1650 | 105.6 | 164.3 | 2180 | 2180 | 2060 | 1740 | 1240 | 890 | 640 | M12–M24 |
| PA6-700-4-490 | 711.2 | 28 | 24 | 25 | 36 | 17/16 | 180 | 210 | 1100 | 1650 | 110.1 | 207.1 | 3300 | 3300 | 3170 | 2680 | 1920 | 1370 | 980 | M12–M36 |
| PA6-700-5-490 | 711.2 | 28 | 30 | 29 | 45 | 1 3/4 | 180 | 230 | 1100 | 1650 | 133.2 | 266.2 | 4770 | 4770 | 4590 | 3910 | 2940 | 2160 | 1530 | M12–M36 |
| PA6-700-6-490 | 711.2 | 28 | 36 | 41 | 54 | 2 1/8 | 220 | 270 | 1200 | 1650 | 203.6 | 359.1 | 7620 | 7620 | 7480 | 6580 | 5150 | 3880 | 2710 | M20–M64 |
| PA6-700-7-490 | 711.2 | 28 | 42 | 45 | 63 | 2 1/2 | 260 | 320 | 1250 | 1450 | 286.2 | 390.9 | 10930 | 10930 | 10930 | 9690 | 7880 | 6050 | 4230 | M30–M64 |
| PA6-700-3-530 | 711.2 | 28 | 20 | 20 | 30 | 13/16 | 150 | 170 | 1050 | 1650 | 87.6 | 166.3 | 2610 | 2610 | 2510 | 2140 | 1560 | 1110 | 800 | M12–M24 |
| PA6-700-4-530 | 711.2 | 28 | 24 | 25 | 36 | 17/16 | 180 | 180 | 1100 | 1650 | 131.1 | 206.5 | 3660 | 3660 | 3640 | 3170 | 2480 | 1870 | 1300 | M12–M36 |
| PA6-700-5-530 | 711.2 | 28 | 30 | 29 | 45 | 1 3/4 | 210 | 260 | 1100 | 1650 | 155.0 | 300.6 | 5630 | 5630 | 5420 | 4630 | 3470 | 2550 | 1800 | M12–M36 |
| PA6-700-6-530 | 711.2 | 28 | 36 | 41 | 54 | 2 1/8 | 250 | 300 | 1200 | 1650 | 230.7 | 398.5 | 7620 | 7620 | 7620 | 7430 | 5920 | 4460 | 3120 | M20–M64 |
| PA6-700-7-530 | 711.2 | 28 | 42 | 45 | 63 | 2 1/2 | 290 | 320 | 1250 | 1350 | 318.4 | 370.7 | 10930 | 10930 | 10930 | 10810 | 8790 | 6750 | 4720 | M30–M64 |
| PA6-700-3-560 | 711.2 | 28 | 20 | 20 | 30 | 13/16 | 180 | 200 | 1050 | 1650 | 104.6 | 195.4 | 2420 | 2420 | 2420 | 2420 | 2050 | 1650 | 1310 | M12–M24 |
| PA6-700-4-560 | 711.2 | 28 | 24 | 25 | 36 | 17/16 | 190 | 220 | 1100 | 1650 | 137.6 | 252.0 | 3660 | 3660 | 3660 | 3660 | 3240 | 2640 | 2090 | M12–M36 |
| PA6-700-5-560 | 711.2 | 28 | 30 | 29 | 45 | 1 3/4 | 190 | 230 | 1150 | 1650 | 168.1 | 303.0 | 5990 | 5990 | 5990 | 5610 | 4650 | 3800 | 3010 | M12–M36 |
| PA6-700-6-560 | 711.2 | 28 | 36 | 41 | 54 | 2 1/8 | 230 | 320 | 1200 | 1550 | 241.5 | 404.6 | 7620 | 7620 | 7620 | 7620 | 7380 | 6050 | 4790 | M20–M64 |
| PA6-700-3-600 | 711.2 | 28 | 20 | 20 | 30 | 13/16 | 190 | 220 | 1050 | 1650 | 131.7 | 249.5 | 2560 | 2560 | 2560 | 2560 | 2560 | 2560 | 2090 | M12–M24 |
| PA6-700-4-600 | 711.2 | 28 | 24 | 25 | 36 | 17/16 | 200 | 240 | 1100 | 1650 | 168.0 | 312.0 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3160 | M12–M36 |
| PA6-700-5-600 | 711.2 | 28 | 30 | 29 | 45 | 1 3/4 | 280 | 320 | 1150 | 1600 | 245.8 | 410.6 | 5550 | 5550 | 5550 | 5550 | 5550 | 5550 | 4580 | M12–M36 |

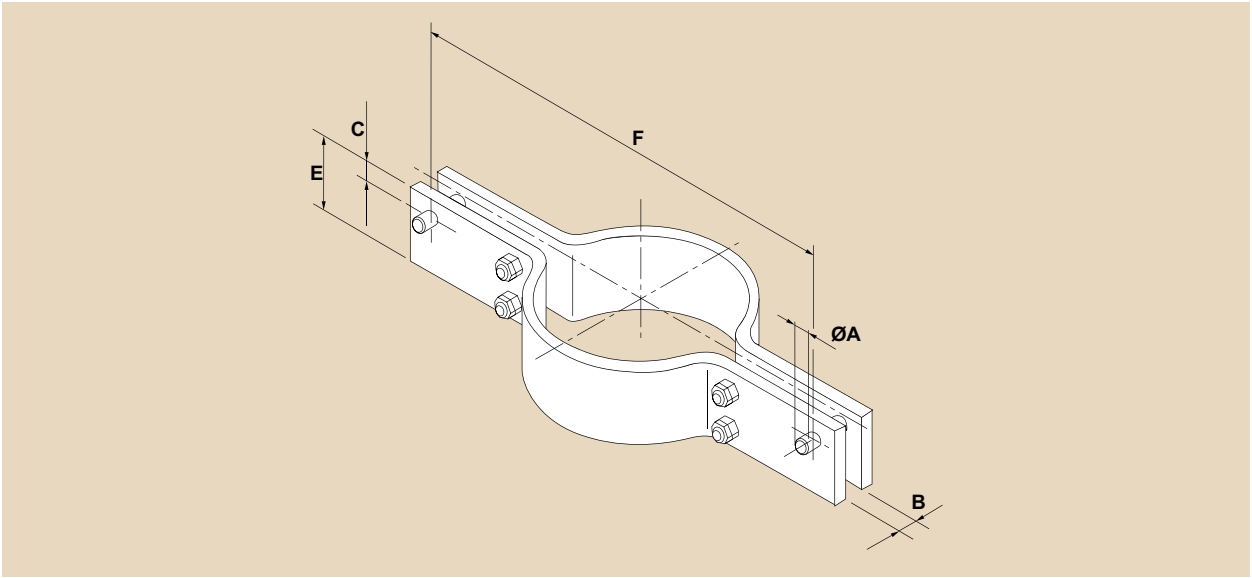
# PA6 PRESSED RISER CLAMP SIX BOLT TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C* *Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA6-750-4-400 | 762.0 | 30 | 24 | 25 | 36 | 17/16 | 220 | 220 | 1200 | 1600 | 174.2 | 215.7 | 3660 | 3650 | | | | | | M12–M36 |
| PA6-750-5-400 | 762.0 | 30 | 30 | 29 | 45 | 13/4 | 260 | 260 | 1250 | 1600 | 249.8 | 299.9 | 6020 | 5920 | | | | | | M12–M36 |
| PA6-750-6-400 | 762.0 | 30 | 36 | 41 | 54 | 21/8 | 290 | 290 | 1300 | 1600 | 330.3 | 385.0 | 7620 | 7620 | | | | | | M20–M64 |
| PA6-750-4-490 | 762.0 | 30 | 24 | 25 | 36 | 17/16 | 200 | 190 | 1150 | 1600 | 128.3 | 185.7 | 3290 | 3290 | 3170 | 2720 | 2040 | 1470 | 1050 | M12–M36 |
| PA6-750-5-490 | 762.0 | 30 | 30 | 29 | 45 | 13/4 | 200 | 210 | 1150 | 1600 | 155.2 | 240.7 | 4900 | 4900 | 4770 | 4120 | 3120 | 2310 | 1630 | M12–M36 |
| PA6-750-6-490 | 762.0 | 30 | 36 | 41 | 54 | 21/8 | 220 | 250 | 1250 | 1600 | 213.0 | 329.5 | 7530 | 7530 | 7320 | 6400 | 5050 | 3830 | 2670 | M20–M64 |
| PA6-750-7-490 | 762.0 | 30 | 42 | 45 | 63 | 21/2 | 260 | 320 | 1300 | 1500 | 299.0 | 406.5 | 10930 | 10930 | 10810 | 9620 | 7890 | 6090 | 4290 | M30–M64 |
| PA6-750-4-530 | 762.0 | 30 | 24 | 25 | 36 | 17/16 | 180 | 220 | 1150 | 1600 | 137.8 | 214.7 | 3660 | 3660 | 3660 | 3190 | 2420 | 1790 | 1260 | M12–M36 |
| PA6-750-5-530 | 762.0 | 30 | 30 | 29 | 45 | 13/4 | 220 | 230 | 1150 | 1600 | 170.5 | 263.4 | 5420 | 5420 | 5270 | 4560 | 3460 | 2560 | 1800 | M12–M36 |
| PA6-750-6-530 | 762.0 | 30 | 36 | 41 | 54 | 21/8 | 250 | 280 | 1250 | 1600 | 241.5 | 368.5 | 7620 | 7620 | 7620 | 7350 | 5810 | 4400 | 3060 | M20–M64 |
| PA6-750-7-530 | 762.0 | 30 | 42 | 45 | 63 | 21/2 | 290 | 320 | 1300 | 1400 | 332.6 | 386.4 | 10930 | 10930 | 10930 | 10720 | 8790 | 6780 | 4780 | M30–M64 |
| PA6-750-4-560 | 762.0 | 30 | 24 | 25 | 36 | 17/16 | 200 | 210 | 1150 | 1650 | 152.9 | 243.8 | 3660 | 3660 | 3660 | 3660 | 3280 | 2660 | 2110 | M12–M36 |
| PA6-750-5-560 | 762.0 | 30 | 30 | 29 | 45 | 13/4 | 200 | 280 | 1200 | 1600 | 185.4 | 320.2 | 5840 | 5840 | 5840 | 5710 | 4660 | 3800 | 3010 | M12–M36 |
| PA6-750-6-560 | 762.0 | 30 | 36 | 41 | 54 | 21/8 | 230 | 320 | 1250 | 1600 | 252.9 | 420.5 | 7620 | 7620 | 7620 | 7620 | 7370 | 6060 | 4820 | M20–M64 |
| PA6-750-4-600 | 762.0 | 30 | 24 | 25 | 36 | 17/16 | 220 | 230 | 1150 | 1650 | 194.1 | 303.1 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3200 | M12–M36 |
| PA6-750-5-600 | 762.0 | 30 | 30 | 29 | 45 | 13/4 | 230 | 310 | 1200 | 1600 | 242.0 | 403.3 | 6090 | 6090 | 6090 | 6090 | 6090 | 5860 | 4650 | M12–M36 |
| PA6-800-4-400 | 812.8 | 32 | 24 | 25 | 36 | 17/16 | 260 | 260 | 1250 | 1600 | 250.7 | 300.7 | 3660 | 3660 | | | | | | M12–M36 |
| PA6-800-5-400 | 812.8 | 32 | 30 | 29 | 45 | 13/4 | 260 | 260 | 1300 | 1600 | 261.1 | 304.0 | 6090 | 6090 | | | | | | M12–M36 |
| PA6-800-6-400 | 812.8 | 32 | 36 | 41 | 54 | 21/8 | 290 | 290 | 1350 | 1600 | 344.5 | 390.1 | 7620 | 7620 | | | | | | M20–M64 |
| PA6-800-4-490 | 812.8 | 32 | 24 | 25 | 36 | 17/16 | 180 | 190 | 1200 | 1600 | 144.5 | 188.3 | 3400 | 3400 | 3290 | 2830 | 2170 | 1610 | 1130 | M12–M36 |
| PA6-800-5-490 | 812.8 | 32 | 30 | 29 | 45 | 13/4 | 210 | 220 | 1250 | 1600 | 175.5 | 256.6 | 4910 | 4910 | 4750 | 4090 | 3130 | 2330 | 1640 | M12–M36 |
| PA6-800-6-490 | 812.8 | 32 | 36 | 41 | 54 | 21/8 | 240 | 240 | 1300 | 1600 | 242.4 | 320.8 | 7560 | 7560 | 7430 | 6620 | 5280 | 4020 | 2790 | M20–M64 |
| PA6-800-7-490 | 812.8 | 32 | 42 | 45 | 63 | 21/2 | 270 | 320 | 1350 | 1550 | 323.6 | 422.4 | 10880 | 10880 | 10690 | 9560 | 7900 | 6130 | 4350 | M30–M64 |
| PA6-800-4-530 | 812.8 | 32 | 24 | 25 | 36 | 17/16 | 180 | 210 | 1200 | 1600 | 144.5 | 207.9 | 3660 | 3660 | 3660 | 3160 | 2420 | 1800 | 1270 | M12–M36 |
| PA6-800-5-530 | 812.8 | 32 | 30 | 29 | 45 | 13/4 | 240 | 220 | 1250 | 1600 | 200.2 | 256.6 | 5350 | 5350 | 5210 | 4570 | 3610 | 2690 | 1890 | M12–M36 |
| PA6-800-6-530 | 812.8 | 32 | 36 | 41 | 54 | 21/8 | 270 | 270 | 1300 | 1600 | 272.2 | 360.3 | 7620 | 7620 | 7620 | 7520 | 5990 | 4560 | 3170 | M20–M64 |
| PA6-800-7-530 | 812.8 | 32 | 42 | 45 | 63 | 21/2 | 290 | 310 | 1350 | 1400 | 347.0 | 380.2 | 10930 | 10930 | 10930 | 10760 | 8890 | 6900 | 4900 | M30–M64 |
| PA6-800-4-560 | 812.8 | 32 | 24 | 25 | 36 | 17/16 | 210 | 190 | 1200 | 1600 | 168.3 | 218.6 | 3660 | 3660 | 3660 | 3660 | 3220 | 2630 | 2080 | M12–M36 |
| PA6-800-5-560 | 812.8 | 32 | 30 | 29 | 45 | 13/4 | 210 | 270 | 1250 | 1600 | 203.7 | 313.1 | 5720 | 5720 | 5720 | 5680 | 4660 | 3810 | 3010 | M12–M36 |
| PA6-800-6-560 | 812.8 | 32 | 36 | 41 | 54 | 21/8 | 240 | 310 | 1300 | 1600 | 275.5 | 413.0 | 7620 | 7620 | 7620 | 7620 | 7420 | 6110 | 4870 | M20–M64 |
| PA6-800-4-600 | 812.8 | 32 | 24 | 25 | 36 | 17/16 | 230 | 280 | 1200 | 1600 | 212.9 | 320.5 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3190 | M12–M36 |
| PA6-800-5-600 | 812.8 | 32 | 30 | 29 | 45 | 13/4 | 230 | 300 | 1250 | 1600 | 253.3 | 395.6 | 6090 | 6090 | 6090 | 6090 | 6090 | 5720 | 4560 | M12–M36 |

# PA6 PRESSED RISER CLAMP SIX BOLT TYPE

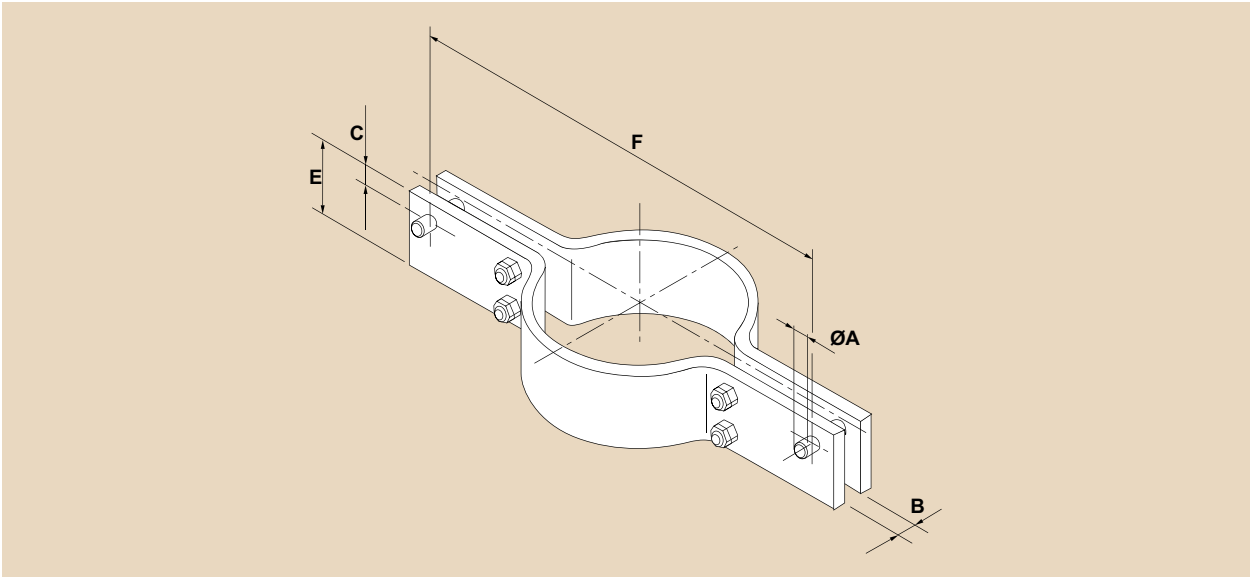



*Material: Carbon Steel to 400°C Alloy Steel above 400°C*

*Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA6-850-4-400 | 863.6 | 34 | 24 | 25 | 36 | 17/16 | 260 | 260 | 1350 | 1550 | 269.0 | 297.6 | 3660 | 3660 | | | | | | M12–M36 |
| PA6-850-5-400 | 863.6 | 34 | 30 | 29 | 45 | 13/4 | 260 | 260 | 1350 | 1550 | 272.1 | 300.7 | 6090 | 6090 | | | | | | M12–M36 |
| PA6-850-6-400 | 863.6 | 34 | 36 | 41 | 54 | 21/8 | 290 | 290 | 1400 | 1550 | 358.5 | 385.9 | 7620 | 7620 | | | | | | M20–M64 |
| PA6-850-4-490 | 863.6 | 34 | 24 | 25 | 36 | 17/16 | 180 | 180 | 1250 | 1550 | 151.2 | 176.6 | 3490 | 3490 | 3370 | 2890 | 2200 | 1630 | 1150 | M12–M36 |
| PA6-850-5-490 | 863.6 | 34 | 30 | 29 | 45 | 13/4 | 220 | 240 | 1300 | 1550 | 191.8 | 237.4 | 4790 | 4790 | 4620 | 3960 | 3020 | 2240 | 1570 | M12–M36 |
| PA6-850-6-490 | 863.6 | 34 | 36 | 41 | 54 | 21/8 | 250 | 280 | 1350 | 1550 | 263.1 | 324.9 | 7580 | 7580 | 7370 | 6450 | 5110 | 3880 | 2700 | M20–M64 |
| PA6-850-7-490 | 863.6 | 34 | 42 | 45 | 63 | 21/2 | 280 | 310 | 1400 | 1550 | 348.9 | 414.7 | 10900 | 10900 | 10700 | 9530 | 7840 | 6060 | 4280 | M30–M64 |
| PA6-850-4-530 | 863.6 | 34 | 24 | 25 | 36 | 17/16 | 180 | 200 | 1250 | 1550 | 151.2 | 196.0 | 3660 | 3660 | 3660 | 3220 | 2450 | 1820 | 1280 | M12–M36 |
| PA6-850-5-530 | 863.6 | 34 | 30 | 29 | 45 | 13/4 | 220 | 220 | 1300 | 1550 | 223.6 | 253.8 | 5820 | 5820 | 5670 | 4960 | 3930 | 2980 | 2070 | M12–M36 |
| PA6-850-6-530 | 863.6 | 34 | 36 | 41 | 54 | 21/8 | 280 | 260 | 1350 | 1550 | 294.1 | 344.9 | 7620 | 7620 | 7620 | 7330 | 5800 | 4400 | 3060 | M20–M64 |
| PA6-850-7-530 | 863.6 | 34 | 42 | 45 | 63 | 21/2 | 310 | 320 | 1400 | 1450 | 385.5 | 407.8 | 10930 | 10930 | 10930 | 10870 | 8940 | 6910 | 4880 | M30–M64 |
| PA6-850-4-560 | 863.6 | 34 | 24 | 25 | 36 | 17/16 | 220 | 240 | 1250 | 1550 | 184.3 | 234.8 | 3660 | 3660 | 3660 | 3660 | 3200 | 2590 | 2050 | M12–M36 |
| PA6-850-5-560 | 863.6 | 34 | 30 | 29 | 45 | 13/4 | 220 | 250 | 1300 | 1550 | 222.6 | 286.9 | 5620 | 5620 | 5620 | 5610 | 4580 | 3740 | 2960 | M12–M36 |
| PA6-850-6-560 | 863.6 | 34 | 36 | 41 | 54 | 21/8 | 260 | 290 | 1350 | 1550 | 310.7 | 382.4 | 7620 | 7620 | 7620 | 7620 | 7500 | 6170 | 4910 | M20–M64 |
| PA6-850-4-600 | 863.6 | 34 | 24 | 25 | 36 | 17/16 | 240 | 260 | 1250 | 1550 | 232.4 | 294.6 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3180 | M12–M36 |
| PA6-850-5-600 | 863.6 | 34 | 30 | 29 | 45 | 13/4 | 250 | 280 | 1300 | 1550 | 287.3 | 365.5 | 6090 | 6090 | 6090 | 6090 | 6090 | 5850 | 4660 | M12–M36 |
| PA6-900-4-400 | 914.4 | 36 | 24 | 25 | 36 | 17/16 | 260 | 260 | 1400 | 1550 | 280.3 | 301.7 | 3660 | 3660 | | | | | | M12–M36 |
| PA6-900-5-400 | 914.4 | 36 | 30 | 29 | 45 | 13/4 | 260 | 260 | 1400 | 1550 | 283.4 | 304.9 | 6090 | 6090 | | | | | | M12–M36 |
| PA6-900-6-400 | 914.4 | 36 | 36 | 41 | 54 | 21/8 | 290 | 290 | 1450 | 1500 | 372.9 | 382.0 | 7620 | 7620 | | | | | | M20–M64 |
| PA6-900-4-490 | 914.4 | 36 | 24 | 25 | 36 | 17/16 | 180 | 180 | 1300 | 1550 | 157.9 | 179.1 | 3630 | 3630 | 3510 | 3030 | 2330 | 1740 | 1220 | M12–M36 |
| PA6-900-5-490 | 914.4 | 36 | 30 | 29 | 45 | 13/4 | 230 | 230 | 1350 | 1500 | 209.0 | 225.3 | 4800 | 4800 | 4640 | 4000 | 3080 | 2290 | 1610 | M12–M36 |
| PA6-900-6-490 | 914.4 | 36 | 36 | 41 | 54 | 21/8 | 260 | 270 | 1400 | 1500 | 284.6 | 310.2 | 7490 | 7490 | 7300 | 6420 | 5130 | 3910 | 2720 | M20–M64 |
| PA6-900-7-490 | 914.4 | 36 | 42 | 45 | 63 | 21/2 | 290 | 290 | 1450 | 1500 | 375.5 | 384.6 | 10890 | 10890 | 10710 | 9590 | 7950 | 6170 | 4390 | M30–M64 |
| PA6-900-4-530 | 914.4 | 36 | 24 | 25 | 36 | 17/16 | 190 | 190 | 1300 | 1550 | 166.5 | 188.9 | 3660 | 3660 | 3660 | 3220 | 2470 | 1840 | 1290 | M12–M36 |
| PA6-900-5-530 | 914.4 | 36 | 30 | 29 | 45 | 13/4 | 220 | 220 | 1400 | 1550 | 239.2 | 257.3 | 6060 | 6060 | 5910 | 5190 | 4150 | 3160 | 2200 | M12–M36 |
| PA6-900-6-530 | 914.4 | 36 | 36 | 41 | 54 | 21/8 | 260 | 260 | 1450 | 1500 | 333.3 | 341.4 | 7620 | 7620 | 7620 | 7620 | 7020 | 5450 | 3880 | M20–M64 |
| PA6-900-4-560 | 914.4 | 36 | 24 | 25 | 36 | 17/16 | 230 | 230 | 1300 | 1550 | 201.2 | 228.3 | 3660 | 3660 | 3660 | 3660 | 3220 | 2610 | 2070 | M12–M36 |
| PA6-900-5-560 | 914.4 | 36 | 30 | 29 | 45 | 13/4 | 230 | 240 | 1350 | 1550 | 242.6 | 279.4 | 5530 | 5530 | 5530 | 5530 | 4590 | 3760 | 2970 | M12–M36 |
| PA6-900-6-560 | 914.4 | 36 | 36 | 41 | 54 | 21/8 | 270 | 270 | 1400 | 1500 | 335.8 | 352.8 | 7620 | 7620 | 7620 | 7620 | 7500 | 6180 | 4930 | M20–M64 |
| PA6-900-4-600 | 914.4 | 36 | 24 | 25 | 36 | 17/16 | 250 | 250 | 1300 | 1550 | 252.9 | 287.3 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3210 | M12–M36 |
| PA6-900-5-600 | 914.4 | 36 | 30 | 29 | 45 | 13/4 | 260 | 260 | 1400 | 1550 | 319.8 | 344.3 | 6090 | 6090 | 6090 | 6090 | 6090 | 5770 | 4610 | M12–M36 |

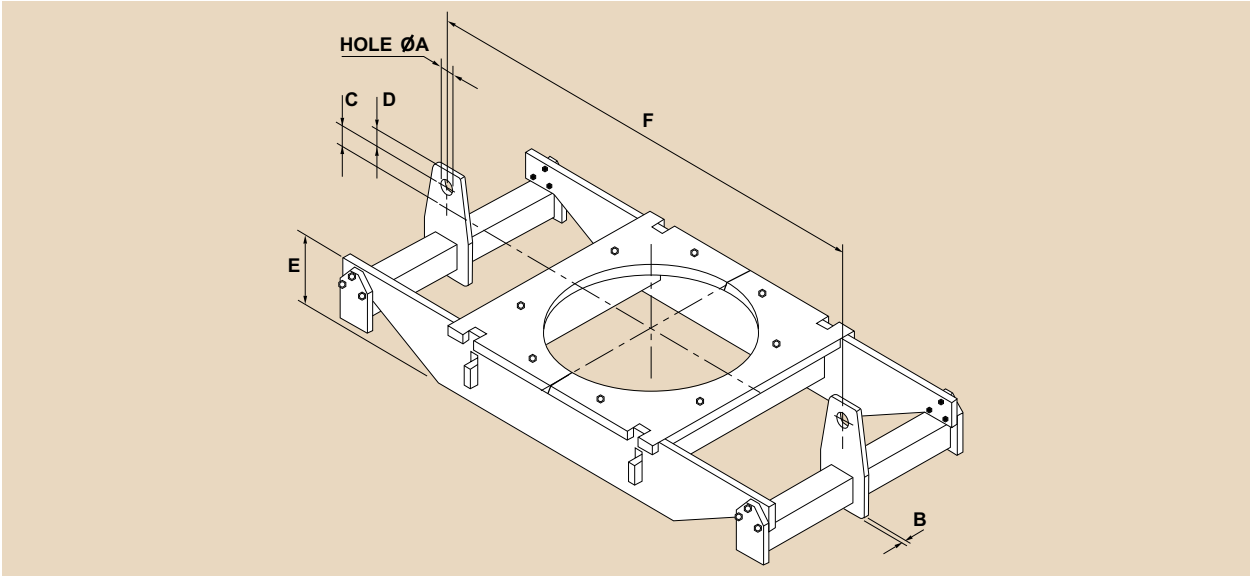
# PA6 PRESSED RISER CLAMP SIX BOLT TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C* *Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| PA6-950-4-400 | 965.2 | 38 | 24 | 25 | 36 | 1 7/16 | 260 | 260 | 1450 | 1500 | 291.4 | 298.6 | 3660 | 3660 | | | | | | M12–M36 |
| PA6-950-5-400 | 965.2 | 38 | 30 | 29 | 45 | 1 3/4 | 290 | 290 | 1500 | 1500 | 383.9 | 383.9 | 6090 | 6090 | | | | | | M12–M36 |
| PA6-950-6-400 | 965.2 | 38 | 36 | 41 | 54 | 2 1/8 | 290 | 290 | 1500 | 1500 | 387.2 | 387.2 | 7620 | 7620 | | | | | | M20–M64 |
| PA6-950-4-490 | 965.2 | 38 | 24 | 25 | 36 | 1 7/16 | 180 | 180 | 1350 | 1500 | 164.6 | 177.3 | 3470 | 3470 | 3360 | 2910 | 2260 | 1700 | 1190 | M12–M36 |
| PA6-950-5-490 | 965.2 | 38 | 30 | 29 | 45 | 1 3/4 | 240 | 240 | 1400 | 1500 | 226.9 | 238.3 | 4760 | 4760 | 4610 | 4000 | 3110 | 2330 | 1630 | M12–M36 |
| PA6-950-6-490 | 965.2 | 38 | 36 | 41 | 54 | 2 1/8 | 280 | 280 | 1450 | 1500 | 318.3 | 326.0 | 7620 | 7620 | 7490 | 6620 | 5350 | 4100 | 2850 | M20–M64 |
| PA6-950-7-490 | 965.2 | 38 | 42 | 45 | 63 | 2 1/2 | 310 | 310 | 1500 | 1500 | 416.1 | 416.1 | 10930 | 10930 | 10910 | 9810 | 8220 | 6410 | 4610 | M30–M64 |
| PA6-950-4-530 | 965.2 | 38 | 24 | 25 | 36 | 1 7/16 | 200 | 200 | 1350 | 1500 | 182.6 | 196.8 | 3660 | 3660 | 3660 | 3270 | 2540 | 1910 | 1330 | M12–M36 |
| PA6-950-5-530 | 965.2 | 38 | 30 | 29 | 45 | 1 3/4 | 220 | 220 | 1450 | 1500 | 248.8 | 254.8 | 5800 | 5800 | 5670 | 5010 | 4050 | 3100 | 2160 | M12–M36 |
| PA6-950-6-530 | 965.2 | 38 | 36 | 41 | 54 | 2 1/8 | 260 | 260 | 1500 | 1500 | 346.0 | 346.0 | 7620 | 7620 | 7620 | 7620 | 6760 | 5270 | 3790 | M20–M64 |
| PA6-950-4-560 | 965.2 | 38 | 24 | 25 | 36 | 1 7/16 | 240 | 240 | 1350 | 1500 | 218.8 | 235.7 | 3660 | 3660 | 3660 | 3660 | 3250 | 2640 | 2090 | M12–M36 |
| PA6-950-5-560 | 965.2 | 38 | 30 | 29 | 45 | 1 3/4 | 240 | 240 | 1400 | 1500 | 263.4 | 276.6 | 5440 | 5440 | 5440 | 5440 | 4610 | 3780 | 2980 | M12–M36 |
| PA6-950-6-560 | 965.2 | 38 | 36 | 41 | 54 | 2 1/8 | 280 | 280 | 1500 | 1500 | 370.6 | 370.6 | 7620 | 7620 | 7620 | 7620 | 7480 | 6180 | 4950 | M20–M64 |
| PA6-950-4-600 | 965.2 | 38 | 24 | 25 | 36 | 1 7/16 | 260 | 260 | 1400 | 1500 | 282.0 | 296.3 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3230 | M12–M36 |
| PA6-950-5-600 | 965.2 | 38 | 30 | 29 | 45 | 1 3/4 | 270 | 270 | 1450 | 1500 | 345.3 | 353.3 | 6090 | 6090 | 6090 | 6090 | 6090 | 5840 | 4680 | M12–M36 |
| PA6-1000-4-400 | 1016 | 40 | 24 | 25 | 36 | 1 7/16 | 260 | 260 | 1500 | 1500 | 302.6 | 302.6 | 3660 | 3660 | | | | | | M12–M36 |
| PA6-1000-4-490 | 1016.0 | 40 | 24 | 25 | 36 | 1 7/16 | 180 | 180 | 1400 | 1500 | 171.2 | 179.7 | 3300 | 3300 | 3190 | 2760 | 2130 | 1590 | 1110 | M12–M36 |
| PA6-1000-4-530 | 1016.0 | 40 | 24 | 25 | 36 | 1 7/16 | 210 | 210 | 1400 | 1500 | 199.4 | 209.3 | 3660 | 3660 | 3660 | 3260 | 2510 | 1880 | 1320 | M12–M36 |
| PA6-1000-4-560 | 1016.0 | 40 | 24 | 25 | 36 | 1 7/16 | 190 | 190 | 1450 | 1500 | 214.7 | 220.0 | 3660 | 3660 | 3660 | 3660 | 3350 | 2740 | 2160 | M12–M36 |
| PA6-1000-5-560 | 1016.0 | 40 | 30 | 29 | 45 | 1 3/4 | 260 | 260 | 1450 | 1450 | 296.3 | 296.3 | 5590 | 5590 | 5590 | 5590 | 4740 | 3880 | 3060 | M12–M36 |
| PA6-1000-4-600 | 1016.0 | 40 | 24 | 25 | 36 | 1 7/16 | 270 | 270 | 1450 | 1500 | 304.3 | 311.7 | 3660 | 3660 | 3660 | 3660 | 3660 | 3660 | 3170 | M12–M36 |
| PA6-1000-5-600 | 1016.0 | 40 | 30 | 29 | 45 | 1 3/4 | 280 | 280 | 1500 | 1500 | 371.7 | 371.7 | 6030 | 6030 | 6030 | 6030 | 6030 | 5720 | 4570 | M12–M36 |

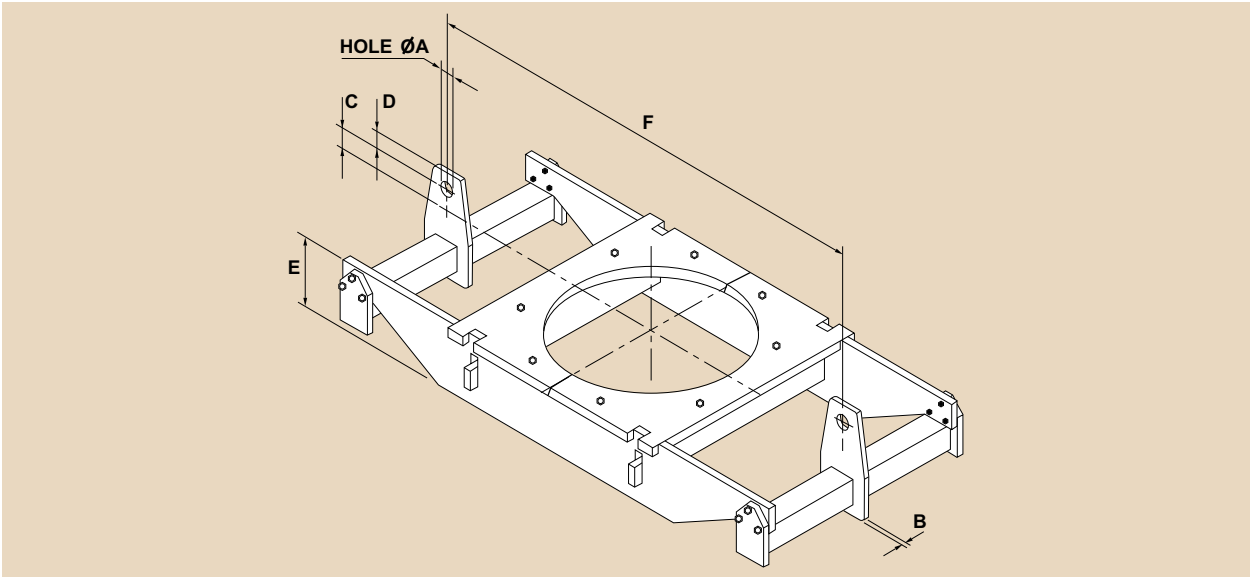
# PA7 RISER CLAMP FLAT PLATE TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C End Beams and Lugs: Carbon Steel. Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | D | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA7-250-0-400 | 273.0 | 10.75 | 14 | 6 | -78 | -3 1/16 | 20 | 158 | 158 | 500 | 2000 | 30.0 | 53.4 | 460 | 460 | | | | | | M8–M12 |
| PA7-250-1-400 | 273.0 | 10.75 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 500 | 2000 | 30.2 | 63.2 | 720 | 720 | | | | | | M8–M16 |
| PA7-250-2-400 | 273.0 | 10.75 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 500 | 2000 | 30.3 | 71.4 | 1060 | 1060 | | | | | | M8–M16 |
| PA7-250-3-400 | 273.0 | 10.75 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 160 | 500 | 2000 | 30.6 | 108.5 | 2020 | 2020 | | | | | | M8–M24 |
| PA7-250-4-400 | 273.0 | 10.75 | 33 | 10 | -38 | -1 1/2 | 55 | 158 | 190 | 500 | 2000 | 30.8 | 124.9 | 3160 | 3160 | | | | | | M8–M30 |
| PA7-250-5-400 | 273.0 | 10.75 | 39 | 12 | -28 | -1 1/8 | 65 | 168 | 200 | 500 | 2000 | 35.5 | 167.0 | 4560 | 4560 | | | | | | M12–M36 |
| PA7-250-6-400 | 273.0 | 10.75 | 52 | 16 | -3 | -1/8 | 85 | 188 | 250 | 600 | 2000 | 53.3 | 210.5 | 7300 | 7300 | | | | | | M20–M48 |
| PA7-250-7-400 | 273.0 | 10.75 | 60 | 20 | 12 | 1/2 | 100 | 188 | 280 | 600 | 2000 | 71.5 | 281.3 | 10680 | 10680 | | | | | | M24–M56 |
| PA7-250-8-400 | 273.0 | 10.75 | 68 | 25 | 32 | 1 1/4 | 115 | 208 | 300 | 700 | 2000 | 118.6 | 363.5 | 14800 | 14800 | | | | | | M36–M64 |
| PA7-250-0-490 | 273.0 | 10.75 | 14 | 6 | -78 | -3 1/16 | 20 | 158 | 158 | 500 | 2000 | 30.0 | 53.4 | 460 | 460 | 460 | 300 | 180 | 130 | 110 | M8–M12 |
| PA7-250-1-490 | 273.0 | 10.75 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 500 | 2000 | 30.2 | 63.2 | 720 | 720 | 720 | 470 | 280 | 200 | 170 | M8–M16 |
| PA7-250-2-490 | 273.0 | 10.75 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 500 | 2000 | 30.3 | 71.4 | 1060 | 1060 | 1060 | 690 | 410 | 300 | 250 | M8–M16 |
| PA7-250-3-490 | 273.0 | 10.75 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 158 | 500 | 2000 | 30.6 | 103.0 | 2020 | 2020 | 2020 | 1310 | 790 | 570 | 480 | M8–M24 |
| PA7-250-4-490 | 273.0 | 10.75 | 33 | 10 | -38 | -1 1/2 | 55 | 158 | 190 | 500 | 2000 | 30.8 | 124.9 | 3160 | 3160 | 3160 | 2050 | 1230 | 880 | 760 | M8–M30 |
| PA7-250-5-490 | 273.0 | 10.75 | 39 | 12 | -28 | -1 1/8 | 65 | 168 | 200 | 500 | 2000 | 35.5 | 167.0 | 4560 | 4560 | 4560 | 2960 | 1780 | 1280 | 1090 | M12–M36 |
| PA7-250-6-490 | 273.0 | 10.75 | 52 | 16 | -3 | -1/8 | 85 | 188 | 250 | 600 | 2000 | 53.3 | 210.5 | 7300 | 7300 | 7300 | 4750 | 2850 | 2040 | 1750 | M20–M48 |
| PA7-250-7-490 | 273.0 | 10.75 | 60 | 20 | 12 | 1/2 | 100 | 188 | 270 | 600 | 2000 | 71.5 | 272.9 | 10680 | 10680 | 10680 | 6940 | 4170 | 2990 | 2560 | M24–M56 |
| PA7-250-8-490 | 273.0 | 10.75 | 68 | 25 | 32 | 1 1/4 | 115 | 208 | 300 | 700 | 2000 | 118.6 | 363.5 | 14800 | 14800 | 14800 | 9620 | 5770 | 4140 | 3550 | M36–M64 |
| PA7-250-0-530 | 273.0 | 10.75 | 14 | 6 | -78 | -3 1/16 | 20 | 158 | 158 | 500 | 2000 | 30.0 | 56.7 | 460 | 460 | 460 | 460 | 280 | 200 | 170 | M8–M12 |
| PA7-250-1-530 | 273.0 | 10.75 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 500 | 2000 | 30.2 | 71.3 | 720 | 720 | 720 | 720 | 430 | 320 | 260 | M8–M16 |
| PA7-250-2-530 | 273.0 | 10.75 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 500 | 2000 | 30.3 | 79.5 | 1060 | 1060 | 1060 | 1060 | 640 | 470 | 380 | M8–M16 |
| PA7-250-3-530 | 273.0 | 10.75 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 170 | 500 | 2000 | 30.6 | 113.8 | 2020 | 2020 | 2020 | 2020 | 1210 | 890 | 730 | M8–M24 |
| PA7-250-4-530 | 273.0 | 10.75 | 33 | 10 | -38 | -1 1/2 | 55 | 158 | 180 | 500 | 2000 | 30.8 | 148.6 | 3160 | 3160 | 3160 | 3160 | 1900 | 1390 | 1140 | M8–M30 |
| PA7-250-5-530 | 273.0 | 10.75 | 39 | 12 | -28 | -1 1/8 | 65 | 168 | 220 | 600 | 2000 | 45.0 | 180.8 | 4560 | 4560 | 4560 | 4560 | 2740 | 2010 | 1640 | M12–M36 |
| PA7-250-6-530 | 273.0 | 10.75 | 52 | 16 | -3 | -1/8 | 85 | 188 | 240 | 600 | 2000 | 67.3 | 243.5 | 7300 | 7300 | 7300 | 7300 | 4380 | 3210 | 2630 | M20–M48 |
| PA7-250-7-530 | 273.0 | 10.75 | 60 | 20 | 12 | 1/2 | 100 | 188 | 300 | 600 | 2000 | 73.6 | 298.0 | 10680 | 10680 | 10680 | 10680 | 6410 | 4700 | 3840 | M24–M56 |
| PA7-250-8-530 | 273.0 | 10.75 | 68 | 25 | 32 | 1 1/4 | 115 | 208 | 320 | 700 | 2000 | 121.8 | 383.2 | 14800 | 14800 | 14800 | 14800 | 8880 | 6510 | 5330 | M36–M64 |
| PA7-250-0-560 | 273.0 | 10.75 | 14 | 6 | -78 | -3 1/16 | 20 | 158 | 158 | 500 | 2000 | 30.0 | 67.2 | 460 | 460 | 460 | 460 | 460 | 360 | 270 | M8–M12 |
| PA7-250-1-560 | 273.0 | 10.75 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 500 | 2000 | 30.2 | 75.4 | 720 | 720 | 720 | 720 | 720 | 560 | 420 | M8–M16 |
| PA7-250-2-560 | 273.0 | 10.75 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 500 | 2000 | 30.3 | 97.2 | 1060 | 1060 | 1060 | 1060 | 1060 | 830 | 610 | M8–M16 |
| PA7-250-3-560 | 273.0 | 10.75 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 190 | 500 | 2000 | 30.6 | 124.7 | 2020 | 2020 | 2020 | 2020 | 2020 | 1580 | 1170 | M8–M24 |
| PA7-250-4-560 | 273.0 | 10.75 | 33 | 10 | -38 | -1 1/2 | 55 | 158 | 210 | 500 | 2000 | 34.6 | 169.0 | 3160 | 3160 | 3160 | 3160 | 3160 | 2460 | 1830 | M8–M30 |
| PA7-250-5-560 | 273.0 | 10.75 | 39 | 12 | -28 | -1 1/8 | 65 | 168 | 240 | 600 | 2000 | 46.6 | 194.5 | 4560 | 4560 | 4560 | 4560 | 4560 | 3560 | 2640 | M12–M36 |
| PA7-250-6-560 | 273.0 | 10.75 | 52 | 16 | -3 | -1/8 | 85 | 188 | 280 | 600 | 2000 | 69.6 | 279.4 | 7300 | 7300 | 7300 | 7300 | 7300 | 5690 | 4230 | M20–M48 |
| PA7-250-7-560 | 273.0 | 10.75 | 60 | 20 | 12 | 1/2 | 100 | 200 | 300 | 600 | 2000 | 83.9 | 346.6 | 10680 | 10680 | 10680 | 10680 | 10680 | 8330 | 6190 | M24–M56 |
| PA7-250-8-560 | 273.0 | 10.75 | 68 | 25 | 32 | 1 1/4 | 115 | 230 | 350 | 700 | 2000 | 131.2 | 412.6 | 14800 | 14800 | 14800 | 14800 | 14800 | 11540 | 8580 | M36–M64 |
| PA7-250-0-600 | 273.0 | 10.75 | 14 | 6 | -78 | -3 1/16 | 20 | 158 | 158 | 500 | 2000 | 30.0 | 75.3 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | M8–M12 |
| PA7-250-1-600 | 273.0 | 10.75 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 500 | 2000 | 30.2 | 102.5 | 720 | 720 | 720 | 720 | 720 | 720 | 720 | M8–M16 |
| PA7-250-2-600 | 273.0 | 10.75 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 180 | 500 | 2000 | 30.3 | 119.0 | 1060 | 1060 | 1060 | 1060 | 1060 | 1060 | 1060 | M8–M16 |
| PA7-250-3-600 | 273.0 | 10.75 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 210 | 500 | 2000 | 34.5 | 168.8 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | M8–M24 |
| PA7-250-4-600 | 273.0 | 10.75 | 33 | 10 | -38 | -1 1/2 | 55 | 158 | 250 | 500 | 2000 | 41.0 | 196.3 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | M8–M30 |
| PA7-250-5-600 | 273.0 | 10.75 | 39 | 12 | -28 | -1 1/8 | 65 | 168 | 270 | 600 | 2000 | 62.0 | 260.2 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | M12–M36 |
| PA7-250-6-600 | 273.0 | 10.75 | 52 | 16 | -3 | - 1/8 | 85 | 188 | 310 | 600 | 2000 | 94.1 | 354.2 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | M20–M48 |
| PA7-250-7-600 | 273.0 | 10.75 | 60 | 20 | 12 | 1/2 | 100 | 220 | 340 | 600 | 2000 | 111.1 | 441.6 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | M24–M56 |
| PA7-250-8-600 | 273.0 | 10.75 | 68 | 25 | 32 | 1 1/4 | 115 | 260 | 400 | 700 | 2000 | 169.7 | 532.9 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | M36–M64 |

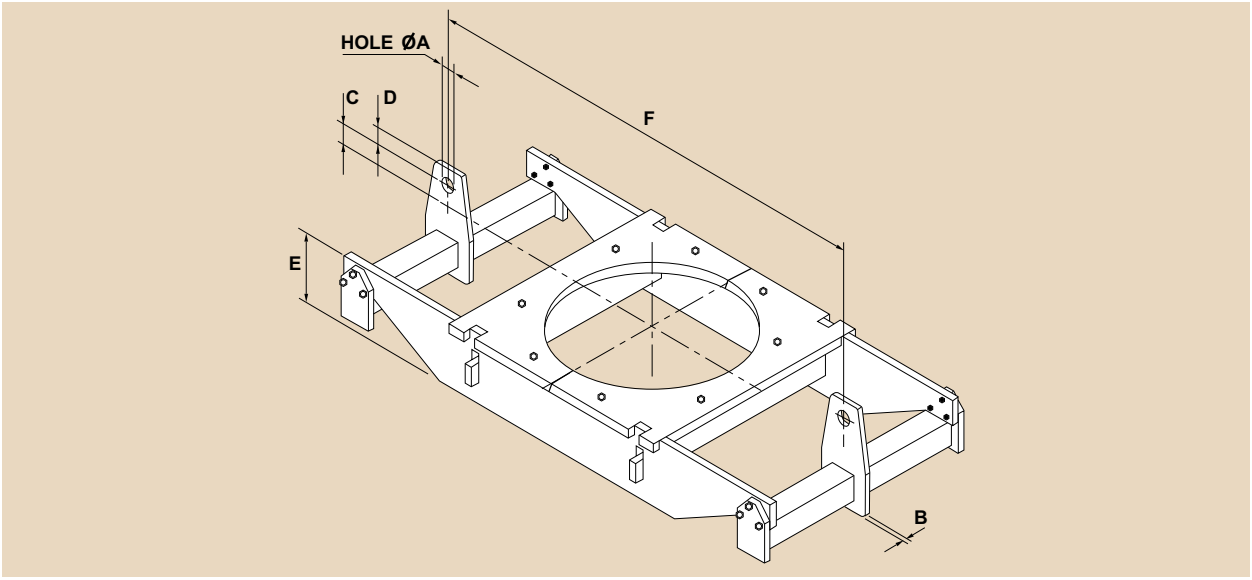
# PA7 RISER CLAMP FLAT PLATE TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C End Beams and Lugs: Carbon Steel. Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | D | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA7-300-1-400 | 323.9 | 12.75 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 35.8 | 60.9 | 720 | 720 | | | | | | M8–M16 |
| PA7-300-2-400 | 323.9 | 12.75 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 35.9 | 75.8 | 1060 | 1060 | | | | | | M8–M16 |
| PA7-300-3-400 | 323.9 | 12.75 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 158 | 600 | 2000 | 36.3 | 108.0 | 2020 | 2020 | | | | | | M8–M24 |
| PA7-300-4-400 | 323.9 | 12.75 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 190 | 600 | 2000 | 39.8 | 134.3 | 3160 | 3160 | | | | | | M8–M30 |
| PA7-300-5-400 | 323.9 | 12.75 | 39 | 12 | -28 | -1 1/8 | 65 | 168 | 200 | 600 | 2000 | 49.3 | 176.5 | 4560 | 4560 | | | | | | M12–M36 |
| PA7-300-6-400 | 323.9 | 12.75 | 52 | 16 | -3 | -1/8 | 85 | 188 | 250 | 600 | 2000 | 65.8 | 226.0 | 7300 | 7300 | | | | | | M20–M48 |
| PA7-300-7-400 | 323.9 | 12.75 | 60 | 20 | 12 | 1/2 | 100 | 208 | 280 | 700 | 2000 | 99.4 | 310.1 | 10680 | 10680 | | | | | | M24–M56 |
| PA7-300-8-400 | 323.9 | 12.75 | 68 | 25 | 32 | 1 1/4 | 115 | 208 | 300 | 700 | 2000 | 115.1 | 381.3 | 14800 | 14800 | | | | | | M36–M64 |
| PA7-300-9-400 | 323.9 | 12.75 | 76 | 25 | 11 | 7/16 | 130 | 244 | 350 | 700 | 2000 | 151.3 | 444.5 | 19300 | 19300 | | | | | | M36–M72 |
| PA7-300-1-490 | 323.9 | 12.75 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 35.8 | 60.9 | 720 | 720 | 720 | 470 | 280 | 200 | 170 | M8–M16 |
| PA7-300-2-490 | 323.9 | 12.75 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 35.9 | 75.8 | 1060 | 1060 | 1060 | 690 | 410 | 300 | 250 | M8–M16 |
| PA7-300-3-490 | 323.9 | 12.75 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 158 | 600 | 2000 | 36.3 | 108.0 | 2020 | 2020 | 2020 | 1310 | 790 | 570 | 480 | M8–M24 |
| PA7-300-4-490 | 323.9 | 12.75 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 190 | 600 | 2000 | 39.8 | 134.3 | 3160 | 3160 | 3160 | 2050 | 1230 | 880 | 760 | M8–M30 |
| PA7-300-5-490 | 323.9 | 12.75 | 39 | 12 | -28 | -1 1/8 | 65 | 168 | 200 | 600 | 2000 | 49.3 | 176.5 | 4560 | 4560 | 4560 | 2960 | 1780 | 1280 | 1090 | M12–M36 |
| PA7-300-6-490 | 323.9 | 12.75 | 52 | 16 | -3 | -1/8 | 85 | 188 | 250 | 600 | 2000 | 65.8 | 226.0 | 7300 | 7300 | 7300 | 4750 | 2850 | 2040 | 1750 | M20–M48 |
| PA7-300-7-490 | 323.9 | 12.75 | 60 | 20 | 12 | 1/2 | 100 | 208 | 270 | 700 | 2000 | 99.4 | 301.4 | 10680 | 10680 | 10680 | 6940 | 4170 | 2990 | 2560 | M24–M56 |
| PA7-300-8-490 | 323.9 | 12.75 | 68 | 25 | 32 | 1 1/4 | 115 | 208 | 300 | 700 | 2000 | 115.1 | 381.3 | 14800 | 14800 | 14800 | 9620 | 5770 | 4140 | 3550 | M36–M64 |
| PA7-300-9-490 | 323.9 | 12.75 | 76 | 25 | 11 | 7/16 | 130 | 244 | 340 | 700 | 2000 | 151.3 | 434.7 | 19300 | 19300 | 19300 | 12550 | 7530 | 5400 | 4630 | M36–M72 |
| PA7-300-1-530 | 323.9 | 12.75 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 35.8 | 71.7 | 720 | 720 | 720 | 720 | 430 | 320 | 260 | M8–M16 |
| PA7-300-2-530 | 323.9 | 12.75 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 35.9 | 84.1 | 1060 | 1060 | 1060 | 1060 | 640 | 470 | 380 | M8–M16 |
| PA7-300-3-530 | 323.9 | 12.75 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 170 | 600 | 2000 | 36.3 | 119.1 | 2020 | 2020 | 2020 | 2020 | 1210 | 890 | 730 | M8–M24 |
| PA7-300-4-530 | 323.9 | 12.75 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 200 | 600 | 2000 | 44.3 | 139.9 | 3160 | 3160 | 3160 | 3160 | 1900 | 1390 | 1140 | M8–M30 |
| PA7-300-5-530 | 323.9 | 12.75 | 39 | 12 | -28 | -1 1/8 | 65 | 168 | 220 | 600 | 2000 | 50.9 | 190.5 | 4560 | 4560 | 4560 | 4560 | 2740 | 2010 | 1640 | M12–M36 |
| PA7-300-6-530 | 323.9 | 12.75 | 52 | 16 | -3 | -1/8 | 85 | 188 | 250 | 700 | 2000 | 84.7 | 268.7 | 7300 | 7300 | 7300 | 7300 | 4380 | 3210 | 2630 | M20–M48 |
| PA7-300-7-530 | 323.9 | 12.75 | 60 | 20 | 12 | 1/2 | 100 | 208 | 300 | 700 | 2000 | 109.3 | 332.7 | 10680 | 10680 | 10680 | 10680 | 6410 | 4700 | 3840 | M24–M56 |
| PA7-300-8-530 | 323.9 | 12.75 | 68 | 25 | 32 | 1 1/4 | 115 | 208 | 320 | 700 | 2000 | 136.5 | 401.3 | 14800 | 14800 | 14800 | 14800 | 8880 | 6510 | 5330 | M36–M64 |
| PA7-300-9-530 | 323.9 | 12.75 | 76 | 25 | 11 | 7/16 | 130 | 244 | 340 | 700 | 2000 | 157.8 | 495.6 | 19300 | 19300 | 19300 | 19300 | 11580 | 8490 | 6950 | M36–M72 |
| PA7-300-1-560 | 323.9 | 12.75 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 35.8 | 79.9 | 720 | 720 | 720 | 720 | 720 | 560 | 420 | M8–M16 |
| PA7-300-2-560 | 323.9 | 12.75 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 35.9 | 102.2 | 1060 | 1060 | 1060 | 1060 | 1060 | 830 | 610 | M8–M16 |
| PA7-300-3-560 | 323.9 | 12.75 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 190 | 600 | 2000 | 36.3 | 130.1 | 2020 | 2020 | 2020 | 2020 | 2020 | 1580 | 1170 | M8–M24 |
| PA7-300-4-560 | 323.9 | 12.75 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 210 | 600 | 2000 | 48.8 | 182.9 | 3160 | 3160 | 3160 | 3160 | 3160 | 2460 | 1830 | M8–M30 |
| PA7-300-5-560 | 323.9 | 12.75 | 39 | 12 | -28 | -1 1/8 | 65 | 168 | 250 | 600 | 2000 | 58.9 | 216.4 | 4560 | 4560 | 4560 | 4560 | 4560 | 3560 | 2640 | M12–M36 |
| PA7-300-6-560 | 323.9 | 12.75 | 52 | 16 | -3 | -1/8 | 85 | 188 | 280 | 700 | 2000 | 94.5 | 294.2 | 7300 | 7300 | 7300 | 7300 | 7300 | 5690 | 4230 | M20–M48 |
| PA7-300-7-560 | 323.9 | 12.75 | 60 | 20 | 12 | 1/2 | 100 | 208 | 300 | 700 | 2000 | 130.0 | 378.2 | 10680 | 10680 | 10680 | 10680 | 10680 | 8330 | 6190 | M24–M56 |
| PA7-300-8-560 | 323.9 | 12.75 | 68 | 25 | 32 | 1 1/4 | 115 | 230 | 330 | 700 | 2000 | 151.3 | 474.7 | 14800 | 14800 | 14800 | 14800 | 14800 | 11540 | 8580 | M36–M64 |
| PA7-300-9-560 | 323.9 | 12.75 | 76 | 25 | 11 | 7/16 | 130 | 260 | 370 | 800 | 2000 | 210.3 | 529.8 | 19300 | 19300 | 19300 | 19300 | 19300 | 15050 | 11190 | M36–M72 |
| PA7-300-1-600 | 323.9 | 12.75 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 35.8 | 107.5 | 720 | 720 | 720 | 720 | 720 | 720 | 720 | M8–M16 |
| PA7-300-2-600 | 323.9 | 12.75 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 170 | 600 | 2000 | 35.9 | 118.7 | 1060 | 1060 | 1060 | 1060 | 1060 | 1060 | 1060 | M8–M16 |
| PA7-300-3-600 | 323.9 | 12.75 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 210 | 600 | 2000 | 45.2 | 178.1 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | M8–M24 |
| PA7-300-4-600 | 323.9 | 12.75 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 230 | 600 | 2000 | 65.8 | 240.5 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | M8–M30 |
| PA7-300-5-600 | 323.9 | 12.75 | 39 | 12 | -28 | -1 1/8 | 65 | 168 | 270 | 600 | 2000 | 73.0 | 274.6 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | M12–M36 |
| PA7-300-6-600 | 323.9 | 12.75 | 52 | 16 | -3 | -1/8 | 85 | 200 | 310 | 700 | 2000 | 119.5 | 371.4 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | M20–M48 |
| PA7-300-7-600 | 323.9 | 12.75 | 60 | 20 | 12 | 1/2 | 100 | 240 | 350 | 700 | 2000 | 151.5 | 494.6 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | M24–M56 |
| PA7-300-8-600 | 323.9 | 12.75 | 68 | 25 | 32 | 1 1/4 | 115 | 280 | 400 | 800 | 2000 | 211.0 | 561.3 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | M36–M64 |
| PA7-300-9-600 | 323.9 | 12.75 | 76 | 25 | 11 | 7/16 | 130 | 290 | 420 | 800 | 2000 | 251.9 | 675.6 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | M36–M72 |

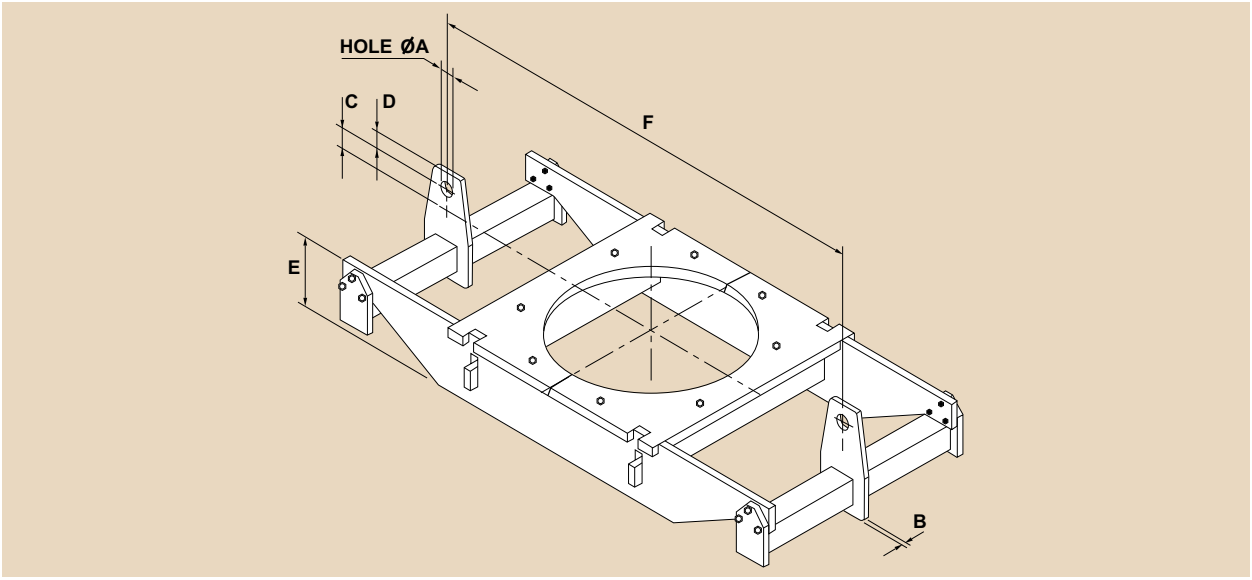
# PA7 RISER CLAMP FLAT PLATE TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C End Beams and Lugs: Carbon Steel. Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | D | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| Pa7 -350-1-400 | 355.6 | 14 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 38.5 | 63.7 | 720 | 720 | | | | | | M8–M16 |
| PA7-350-2-400 | 355.6 | 14 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 38.6 | 78.8 | 1060 | 1060 | | | | | | M8–M16 |
| PA7-350-3-400 | 355.6 | 14 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 158 | 600 | 2000 | 39.0 | 111.3 | 2020 | 2020 | | | | | | M8–M24 |
| PA7-350-4-400 | 355.6 | 14 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 190 | 600 | 2000 | 42.7 | 138.0 | 3160 | 3160 | | | | | | M8–M30 |
| PA7-350-5-400 | 355.6 | 14 | 39 | 12 | -28 | -1 1/8 | 65 | 168 | 200 | 700 | 2000 | 56.9 | 181.2 | 4560 | 4560 | | | | | | M12–M36 |
| PA7-350-6-400 | 355.6 | 14 | 52 | 16 | -3 | -1/8 | 85 | 188 | 250 | 700 | 2000 | 84.7 | 232.1 | 7300 | 7300 | | | | | | M20–M48 |
| PA7-350-7-400 | 355.6 | 14 | 60 | 20 | 12 | 1/2 | 100 | 208 | 280 | 700 | 2000 | 110.7 | 323.9 | 10680 | 10680 | | | | | | M24–M56 |
| PA7-350-8-400 | 355.6 | 14 | 68 | 25 | 32 | 1 1/4 | 115 | 208 | 300 | 800 | 2000 | 155.6 | 390.2 | 14800 | 14800 | | | | | | M36–M64 |
| PA7-350-9-400 | 355.6 | 14 | 76 | 25 | 11 | 7/16 | 130 | 264 | 340 | 800 | 2000 | 184.9 | 460.0 | 19300 | 19300 | | | | | | M36–M72 |
| PA7-350-10-400 | 355.6 | 14 | 86 | 30 | 26 | 1 | 140 | 264 | 380 | 800 | 2000 | 233.8 | 581.0 | 26700 | 26700 | | | | | | M36–M80 |
| PA7-350-1-490 | 355.6 | 14 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 38.5 | 63.7 | 720 | 720 | 720 | 470 | 280 | 200 | 170 | M8–M16 |
| PA7-350-2-490 | 355.6 | 14 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 38.6 | 78.8 | 1060 | 1060 | 1060 | 690 | 410 | 300 | 250 | M8–M16 |
| PA7-350-3-490 | 355.6 | 14 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 158 | 600 | 2000 | 39.0 | 111.3 | 2020 | 2020 | 2020 | 1310 | 790 | 570 | 480 | M8–M24 |
| PA7-350-4-490 | 355.6 | 14 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 180 | 600 | 2000 | 42.7 | 132.5 | 3160 | 3160 | 3160 | 2050 | 1230 | 880 | 760 | M8–M30 |
| PA7-350-5-490 | 355.6 | 14 | 39 | 12 | -28 | -1 1/8 | 65 | 168 | 200 | 700 | 2000 | 56.9 | 181.2 | 4560 | 4560 | 4560 | 2960 | 1780 | 1280 | 1090 | M12–M36 |
| PA7-350-6-490 | 355.6 | 14 | 52 | 16 | -3 | -1/8 | 85 | 188 | 250 | 700 | 2000 | 84.7 | 232.1 | 7300 | 7300 | 7300 | 4750 | 2850 | 2040 | 1750 | M20–M48 |
| PA7-350-7-490 | 355.6 | 14 | 60 | 20 | 12 | 1/2 | 100 | 208 | 280 | 700 | 2000 | 110.7 | 323.9 | 10680 | 10680 | 10680 | 6940 | 4170 | 2990 | 2560 | M24–M56 |
| PA7-350-8-490 | 355.6 | 14 | 68 | 25 | 32 | 1 1/4 | 115 | 208 | 300 | 800 | 2000 | 149.5 | 390.2 | 14800 | 14800 | 14800 | 9620 | 5770 | 4140 | 3550 | M36–M64 |
| PA7-350-9-490 | 355.6 | 14 | 76 | 25 | 11 | 7/16 | 130 | 264 | 340 | 800 | 2000 | 184.9 | 460.0 | 19300 | 19300 | 19300 | 12550 | 7530 | 5400 | 4630 | M36–M72 |
| PA7-350-10-490 | 355.6 | 14 | 86 | 30 | 26 | 1 | 140 | 264 | 380 | 800 | 2000 | 229.5 | 581.0 | 26700 | 26700 | 26700 | 17360 | 10410 | 7480 | 6410 | M36–M80 |
| PA7-350-1-530 | 355.6 | 14 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 38.5 | 74.6 | 720 | 720 | 720 | 720 | 430 | 320 | 260 | M8–M16 |
| PA7-350-2-530 | 355.6 | 14 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 38.6 | 83.0 | 1060 | 1060 | 1060 | 1060 | 640 | 470 | 380 | M8–M16 |
| PA7-350-3-530 | 355.6 | 14 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 160 | 600 | 2000 | 39.0 | 117.0 | 2020 | 2020 | 2020 | 2020 | 1210 | 890 | 730 | M8–M24 |
| PA7-350-4-530 | 355.6 | 14 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 200 | 700 | 2000 | 54.6 | 147.1 | 3160 | 3160 | 3160 | 3160 | 1900 | 1390 | 1140 | M8–M30 |
| PA7-350-5-530 | 355.6 | 14 | 39 | 12 | -28 | -1 1/8 | 65 | 168 | 220 | 700 | 2000 | 66.1 | 201.4 | 4560 | 4560 | 4560 | 4560 | 2740 | 2010 | 1640 | M12–M36 |
| PA7-350-6-530 | 355.6 | 14 | 52 | 16 | -3 | -1/8 | 85 | 188 | 250 | 700 | 2000 | 87.1 | 275.3 | 7300 | 7300 | 7300 | 7300 | 4380 | 3210 | 2630 | M20–M48 |
| PA7-350-7-530 | 355.6 | 14 | 60 | 20 | 12 | 1/2 | 100 | 208 | 300 | 700 | 2000 | 116.0 | 341.2 | 10680 | 10680 | 10680 | 10680 | 6410 | 4700 | 3840 | M24–M56 |
| PA7-350-8-530 | 355.6 | 14 | 68 | 25 | 32 | 1 1/4 | 115 | 220 | 320 | 800 | 2000 | 162.8 | 416.9 | 14800 | 14800 | 14800 | 14800 | 8880 | 6510 | 5330 | M36–M64 |
| PA7-350-9-530 | 355.6 | 14 | 76 | 25 | 11 | 7/16 | 130 | 264 | 340 | 800 | 2000 | 198.4 | 523.3 | 19300 | 19300 | 19300 | 19300 | 11580 | 8490 | 6950 | M36–M72 |
| PA7-350-10-530 | 355.6 | 14 | 86 | 30 | 26 | 1 | 140 | 270 | 400 | 800 | 2000 | 249.2 | 604.4 | 26700 | 26700 | 26700 | 26700 | 16020 | 11750 | 9610 | M36–M80 |
| PA7-350-1-560 | 355.6 | 14 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 38.5 | 82.9 | 720 | 720 | 720 | 720 | 720 | 560 | 420 | M8–M16 |
| PA7-350-2-560 | 355.6 | 14 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 38.6 | 105.5 | 1060 | 1060 | 1060 | 1060 | 1060 | 830 | 610 | M8–M16 |
| PA7-350-3-560 | 355.6 | 14 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 190 | 600 | 2000 | 43.6 | 133.6 | 2020 | 2020 | 2020 | 2020 | 2020 | 1580 | 1170 | M8–M24 |
| PA7-350-4-560 | 355.6 | 14 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 200 | 700 | 2000 | 63.8 | 180.8 | 3160 | 3160 | 3160 | 3160 | 3160 | 2460 | 1830 | M8–M30 |
| PA7-350-5-560 | 355.6 | 14 | 39 | 12 | -28 | -1 1/8 | 65 | 168 | 250 | 700 | 2000 | 76.7 | 222.3 | 4560 | 4560 | 4560 | 4560 | 4560 | 3560 | 2640 | M12–M36 |
| PA7-350-6-560 | 355.6 | 14 | 52 | 16 | -3 | -1/8 | 85 | 188 | 280 | 700 | 2000 | 100.7 | 307.6 | 7300 | 7300 | 7300 | 7300 | 7300 | 5690 | 4230 | M20–M48 |
| PA7-350-7-560 | 355.6 | 14 | 60 | 20 | 12 | 1/2 | 100 | 210 | 300 | 800 | 2000 | 155.9 | 387.1 | 10680 | 10680 | 10680 | 10680 | 10680 | 8330 | 6190 | M24–M56 |
| PA7-350-8-560 | 355.6 | 14 | 68 | 25 | 32 | 1 1/4 | 115 | 250 | 350 | 800 | 2000 | 179.6 | 447.0 | 14800 | 14800 | 14800 | 14800 | 14800 | 11540 | 8580 | M36–M64 |
| PA7-350-9-560 | 355.6 | 14 | 76 | 25 | 11 | 7/16 | 130 | 264 | 370 | 800 | 2000 | 229.7 | 565.0 | 19300 | 19300 | 19300 | 19300 | 19300 | 15050 | 11190 | M36–M72 |
| PA7-350-10-560 | 355.6 | 14 | 86 | 30 | 26 | 1 | 140 | 300 | 400 | 800 | 2000 | 269.2 | 687.6 | 26700 | 26700 | 26700 | 26700 | 26700 | 20830 | 15490 | M36–M80 |
| PA7-350-1-600 | 355.6 | 14 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 600 | 2000 | 38.5 | 105.4 | 720 | 720 | 720 | 720 | 720 | 720 | 720 | M8–M16 |
| PA7-350-2-600 | 355.6 | 14 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 170 | 600 | 2000 | 38.6 | 122.1 | 1060 | 1060 | 1060 | 1060 | 1060 | 1060 | 1060 | M8–M16 |
| PA7-350-3-600 | 355.6 | 14 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 200 | 600 | 2000 | 57.5 | 175.8 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | M8–M24 |
| PA7-350-4-600 | 355.6 | 14 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 230 | 700 | 2000 | 78.7 | 246.8 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | M8–M30 |
| PA7-350-5-600 | 355.6 | 14 | 39 | 12 | -28 | -1 1/8 | 65 | 180 | 280 | 700 | 2000 | 92.5 | 296.4 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | M12–M36 |
| PA7-350-6-600 | 355.6 | 14 | 52 | 16 | -3 | -1/8 | 85 | 200 | 310 | 700 | 2000 | 132.3 | 386.5 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | M20–M48 |
| PA7-350-7-600 | 355.6 | 14 | 60 | 20 | 12 | 1/2 | 100 | 240 | 340 | 800 | 2000 | 200.6 | 494.1 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | M24–M56 |
| PA7-350-8-600 | 355.6 | 14 | 68 | 25 | 32 | 1 1/4 | 115 | 280 | 370 | 800 | 2000 | 227.7 | 606.5 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | M36–M64 |
| PA7-350-9-600 | 355.6 | 14 | 76 | 25 | 11 | 7/16 | 130 | 290 | 420 | 800 | 2000 | 284.7 | 710.0 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | M36–M72 |
| PA7-350-10-600 | 355.6 | 14 | 86 | 30 | 26 | 1 | 140 | 330 | 460 | 800 | 2000 | 316.2 | 847.1 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | M36–M80 |

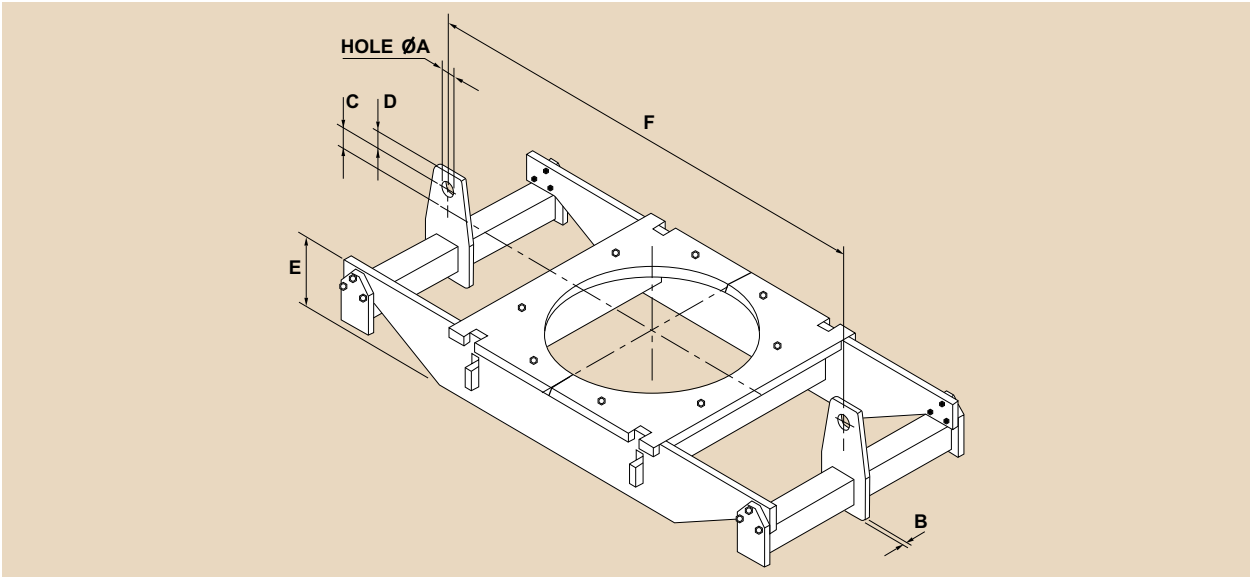
# PA7 RISER CLAMP FLAT PLATE TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C End Beams and Lugs: Carbon Steel. Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | D | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod Sizes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | |
| Pa7 -400-1-400 | 406.4 | 16 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 700 | 2500 | 44.7 | 90.2 | 720 | 720 | | | | | | M8–M16 |
| PA7-400-2-400 | 406.4 | 16 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 700 | 2500 | 44.9 | 105.5 | 1060 | 1060 | | | | | | M8–M16 |
| PA7-400-3-400 | 406.4 | 16 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 170 | 700 | 2500 | 45.2 | 148.2 | 2020 | 2020 | | | | | | M8–M24 |
| PA7-400-4-400 | 406.4 | 16 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 190 | 700 | 2500 | 54.9 | 209.3 | 3160 | 3160 | | | | | | M8–M30 |
| PA7-400-5-400 | 406.4 | 16 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 230 | 700 | 2500 | 78.1 | 260.4 | 4560 | 4560 | | | | | | M12–M36 |
| PA7-400-6-400 | 406.4 | 16 | 52 | 16 | -3 | -1/8 | 85 | 188 | 260 | 800 | 2500 | 99.2 | 341.1 | 7300 | 7300 | | | | | | M20–M48 |
| PA7-400-7-400 | 406.4 | 16 | 60 | 20 | 12 | 1/2 | 100 | 208 | 290 | 800 | 2500 | 128.6 | 451.0 | 10680 | 10680 | | | | | | M24–M56 |
| PA7-400-8-400 | 406.4 | 16 | 68 | 25 | 32 | 1 1/4 | 115 | 208 | 340 | 800 | 2500 | 165.2 | 523.9 | 14800 | 14800 | | | | | | M36–M64 |
| PA7-400-9-400 | 406.4 | 16 | 76 | 25 | 11 | 7/16 | 130 | 264 | 370 | 900 | 2500 | 217.7 | 672.8 | 19300 | 19300 | | | | | | M36–M72 |
| PA7-400-10-400 | 406.4 | 16 | 86 | 30 | 26 | 1 | 140 | 294 | 410 | 900 | 2500 | 296.6 | 866.2 | 26700 | 26700 | | | | | | M36–M80 |
| PA7-400-11-400 | 406.4 | 16 | 86 | 35 | -10 | -3/8 | 140 | 330 | 450 | 900 | 2500 | 337.7 | 1043.3 | 36000 | 36000 | | | | | | M36–M80 |
| PA7-400-1-490 | 406.4 | 16 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 700 | 2500 | 44.7 | 90.2 | 720 | 720 | 720 | 470 | 280 | 200 | 170 | M8–M16 |
| PA7-400-2-490 | 406.4 | 16 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 700 | 2500 | 44.9 | 105.5 | 1060 | 1060 | 1060 | 690 | 410 | 300 | 250 | M8–M16 |
| PA7-400-3-490 | 406.4 | 16 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 170 | 700 | 2500 | 45.2 | 148.2 | 2020 | 2020 | 2020 | 1310 | 790 | 570 | 480 | M8–M24 |
| PA7-400-4-490 | 406.4 | 16 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 190 | 700 | 2500 | 54.9 | 209.3 | 3160 | 3160 | 3160 | 2050 | 1230 | 880 | 760 | M8–M30 |
| PA7-400-5-490 | 406.4 | 16 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 230 | 700 | 2500 | 78.1 | 260.4 | 4560 | 4560 | 4560 | 2960 | 1780 | 1280 | 1090 | M12–M36 |
| PA7-400-6-490 | 406.4 | 16 | 52 | 16 | -3 | -1/8 | 85 | 188 | 260 | 800 | 2500 | 99.2 | 341.1 | 7300 | 7300 | 7300 | 4750 | 2850 | 2040 | 1750 | M20–M48 |
| PA7-400-7-490 | 406.4 | 16 | 60 | 20 | 12 | 1/2 | 100 | 208 | 290 | 800 | 2500 | 128.6 | 451.0 | 10680 | 10680 | 10680 | 6940 | 4170 | 2990 | 2560 | M24–M56 |
| PA7-400-8-490 | 406.4 | 16 | 68 | 25 | 32 | 1 1/4 | 115 | 208 | 340 | 800 | 2500 | 165.2 | 523.9 | 14800 | 14800 | 14800 | 9620 | 5770 | 4140 | 3550 | M36–M64 |
| PA7-400-9-490 | 406.4 | 16 | 76 | 25 | 11 | 7/16 | 130 | 264 | 360 | 900 | 2500 | 217.7 | 658.8 | 19300 | 19300 | 19300 | 12550 | 7530 | 5400 | 4630 | M36–M72 |
| PA7-400-10-490 | 406.4 | 16 | 86 | 30 | 26 | 1 | 140 | 294 | 400 | 900 | 2500 | 296.6 | 850.3 | 26700 | 26700 | 26700 | 17360 | 10410 | 7480 | 6410 | M36–M80 |
| PA7-400-11-490 | 406.4 | 16 | 86 | 35 | -10 | -3/8 | 140 | 330 | 440 | 900 | 2500 | 337.7 | 1025.6 | 36000 | 36000 | 36000 | 23400 | 14040 | 10080 | 8640 | M36–M80 |
| PA7-400-1-530 | 406.4 | 16 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 700 | 2500 | 44.7 | 100.4 | 720 | 720 | 720 | 720 | 430 | 320 | 260 | M8–M16 |
| PA7-400-2-530 | 406.4 | 16 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 700 | 2500 | 44.9 | 127.4 | 1060 | 1060 | 1060 | 1060 | 640 | 470 | 380 | M8–M16 |
| PA7-400-3-530 | 406.4 | 16 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 180 | 700 | 2500 | 50.9 | 155.2 | 2020 | 2020 | 2020 | 2020 | 1210 | 890 | 730 | M8–M24 |
| PA7-400-4-530 | 406.4 | 16 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 200 | 700 | 2500 | 60.7 | 218.1 | 3160 | 3160 | 3160 | 3160 | 1900 | 1390 | 1140 | M8–M30 |
| PA7-400-5-530 | 406.4 | 16 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 250 | 700 | 2500 | 80.0 | 277.8 | 4560 | 4560 | 4560 | 4560 | 2740 | 2010 | 1640 | M12–M36 |
| PA7-400-6-530 | 406.4 | 16 | 52 | 16 | -3 | -1/8 | 85 | 188 | 280 | 800 | 2500 | 112.1 | 370.0 | 7300 | 7300 | 7300 | 7300 | 4380 | 3210 | 2630 | M20–M48 |
| PA7-400-7-530 | 406.4 | 16 | 60 | 20 | 12 | 1/2 | 100 | 208 | 310 | 800 | 2500 | 141.6 | 483.6 | 10680 | 10680 | 10680 | 10680 | 6410 | 4700 | 3840 | M24–M56 |
| PA7-400-8-530 | 406.4 | 16 | 68 | 25 | 32 | 1 1/4 | 115 | 210 | 340 | 800 | 2500 | 180.3 | 595.3 | 14800 | 14800 | 14800 | 14800 | 8880 | 6510 | 5330 | M36–M64 |
| PA7-400-9-530 | 406.4 | 16 | 76 | 25 | 11 | 7/16 | 130 | 264 | 380 | 900 | 2500 | 250.5 | 687.2 | 19300 | 19300 | 19300 | 19300 | 11580 | 8490 | 6950 | M36–M72 |
| PA7-400-10-530 | 406.4 | 16 | 86 | 30 | 26 | 1 | 140 | 294 | 420 | 900 | 2500 | 314.7 | 882.7 | 26700 | 26700 | 26700 | 26700 | 16020 | 11750 | 9610 | M36–M80 |
| PA7-400-11-530 | 406.4 | 16 | 86 | 35 | -10 | -3/8 | 140 | 330 | 460 | 900 | 2500 | 373.9 | 1061.7 | 36000 | 36000 | 36000 | 36000 | 21600 | 15840 | 12960 | M36–M80 |
| PA7-400-1-560 | 406.4 | 16 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 158 | 700 | 2500 | 44.7 | 105.4 | 720 | 720 | 720 | 720 | 720 | 560 | 420 | M8–M16 |
| PA7-400-2-560 | 406.4 | 16 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 160 | 700 | 2500 | 44.9 | 141.1 | 1060 | 1060 | 1060 | 1060 | 1060 | 830 | 610 | M8–M16 |
| PA7-400-3-560 | 406.4 | 16 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 190 | 700 | 2500 | 54.6 | 204.1 | 2020 | 2020 | 2020 | 2020 | 2020 | 1580 | 1170 | M8–M24 |
| PA7-400-4-560 | 406.4 | 16 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 230 | 700 | 2500 | 71.6 | 251.4 | 3160 | 3160 | 3160 | 3160 | 3160 | 2460 | 1830 | M8–M30 |
| PA7-400-5-560 | 406.4 | 16 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 250 | 700 | 2500 | 91.7 | 329.0 | 4560 | 4560 | 4560 | 4560 | 4560 | 3560 | 2640 | M12–M36 |
| PA7-400-6-560 | 406.4 | 16 | 52 | 16 | -3 | -1/8 | 85 | 190 | 280 | 800 | 2500 | 117.9 | 421.5 | 7300 | 7300 | 7300 | 7300 | 7300 | 5690 | 4230 | M20–M48 |
| PA7-400-7-560 | 406.4 | 16 | 60 | 20 | 12 | 1/2 | 100 | 208 | 340 | 800 | 2500 | 165.9 | 520.8 | 10680 | 10680 | 10680 | 10680 | 10680 | 8330 | 6190 | M24–M56 |
| PA7-400-8-560 | 406.4 | 16 | 68 | 25 | 32 | 1 1/4 | 115 | 240 | 370 | 800 | 2500 | 191.6 | 646.0 | 14800 | 14800 | 14800 | 14800 | 14800 | 11540 | 8580 | M36–M64 |
| PA7-400-9-560 | 406.4 | 16 | 76 | 25 | 11 | 7/16 | 130 | 270 | 390 | 900 | 2500 | 273.2 | 797.3 | 19300 | 19300 | 19300 | 19300 | 19300 | 15050 | 11190 | M36–M72 |
| PA7-400-10-560 | 406.4 | 16 | 86 | 30 | 26 | 1 | 140 | 294 | 430 | 900 | 2500 | 346.8 | 990.5 | 26700 | 26700 | 26700 | 26700 | 26700 | 20830 | 15490 | M36–M80 |
| PA7-400-11-560 | 406.4 | 16 | 86 | 35 | -10 | -3/8 | 140 | 340 | 490 | 900 | 2500 | 413.7 | 1124.9 | 36000 | 36000 | 36000 | 36000 | 36000 | 28080 | 20880 | M36–M80 |
| PA7-400-1-600 | 406.4 | 16 | 18 | 6 | -66 | -2 5/8 | 30 | 158 | 160 | 700 | 2500 | 44.7 | 141.0 | 720 | 720 | 720 | 720 | 720 | 720 | 720 | M8–M16 |
| PA7-400-2-600 | 406.4 | 16 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 190 | 700 | 2500 | 50.5 | 161.5 | 1060 | 1060 | 1060 | 1060 | 1060 | 1060 | 1060 | M8–M16 |
| PA7-400-3-600 | 406.4 | 16 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 230 | 700 | 2500 | 69.3 | 246.1 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | M8–M24 |
| PA7-400-4-600 | 406.4 | 16 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 260 | 700 | 2500 | 96.7 | 329.1 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | M8–M30 |
| PA7-400-5-600 | 406.4 | 16 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 280 | 700 | 2500 | 109.5 | 420.1 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | M12–M36 |
| PA7-400-6-600 | 406.4 | 16 | 52 | 16 | -3 | -1/8 | 85 | 210 | 350 | 800 | 2500 | 162.1 | 514.9 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | M20–M48 |
| PA7-400-7-600 | 406.4 | 16 | 60 | 20 | 12 | 1/2 | 100 | 250 | 390 | 800 | 2500 | 199.6 | 671.1 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | M24–M56 |
| PA7-400-8-600 | 406.4 | 16 | 68 | 25 | 32 | 1 1/4 | 115 | 290 | 420 | 900 | 2500 | 268.6 | 815.3 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | M36–M64 |
| PA7-400-9-600 | 406.4 | 16 | 76 | 25 | 11 | 7/16 | 130 | 310 | 440 | 900 | 2500 | 337.3 | 970.8 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | M36–M72 |
| PA7-400-10-600 | 406.4 | 16 | 86 | 30 | 26 | 1 | 140 | 330 | 450 | 900 | 2500 | 442.1 | 1239.5 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | M36–M80 |
| PA7-400-11-600 | 406.4 | 16 | 86 | 35 | -10 | -3/8 | 140 | 390 | 530 | 900 | 2500 | 514.9 | 1454.7 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | M36–M80 |

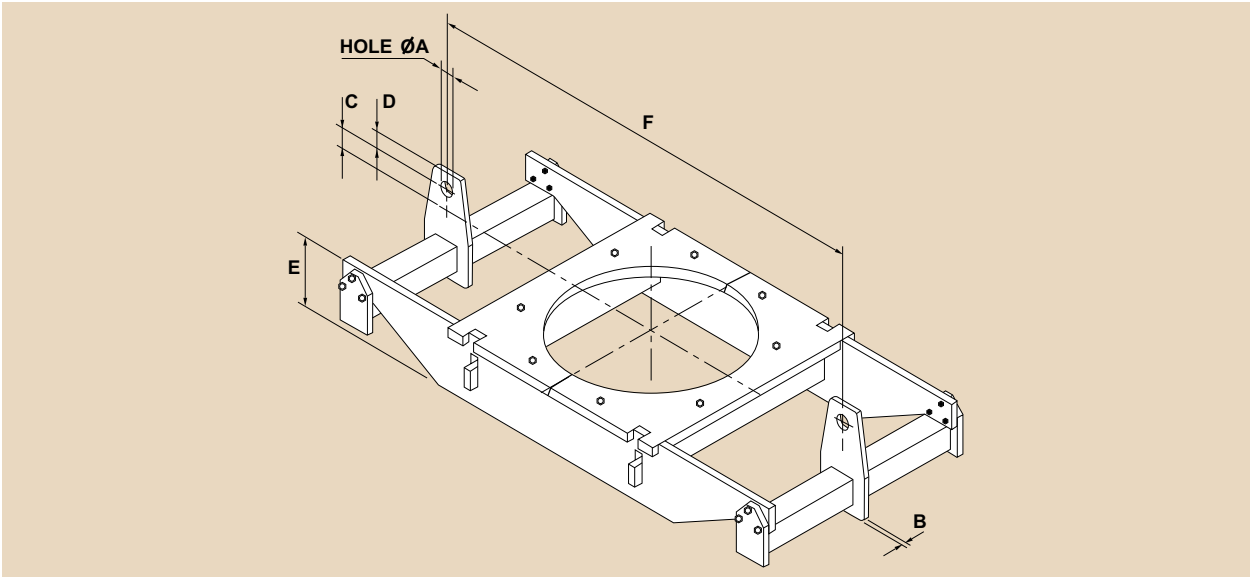
# PA7 RISER CLAMP FLAT PLATE TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C End Beams and Lugs: Carbon Steel. Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | D | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA7-450-2-400 | 457.2 | 18 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 700 | 2500 | 50.1 | 106.2 | 1060 | 1060 | | | | | | M8–M16 |
| PA7-450-3-400 | 457.2 | 18 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 170 | 700 | 2500 | 50.5 | 154.6 | 2020 | 2020 | | | | | | M8–M24 |
| PA7-450-4-400 | 457.2 | 18 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 190 | 800 | 2500 | 69.8 | 217.9 | 3160 | 3160 | | | | | | M8–M30 |
| PA7-450-5-400 | 457.2 | 18 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 230 | 800 | 2500 | 89.7 | 271.5 | 4560 | 4560 | | | | | | M12–M36 |
| PA7-450-6-400 | 457.2 | 18 | 52 | 16 | -3 | -1/8 | 85 | 188 | 260 | 800 | 2500 | 120.8 | 363.3 | 7300 | 7300 | | | | | | M20–M48 |
| PA7-450-7-400 | 457.2 | 18 | 60 | 20 | 12 | 1/2 | 100 | 208 | 290 | 900 | 2500 | 160.6 | 476.8 | 10680 | 10680 | | | | | | M24–M56 |
| PA7-450-8-400 | 457.2 | 18 | 68 | 25 | 32 | 1 1/4 | 115 | 210 | 340 | 900 | 2500 | 203.4 | 542.5 | 14800 | 14800 | | | | | | M36–M64 |
| PA7-450-9-400 | 457.2 | 18 | 76 | 25 | 11 | 7/16 | 130 | 264 | 360 | 900 | 2500 | 231.2 | 681.3 | 19300 | 19300 | | | | | | M36–M72 |
| PA7-450-10-400 | 457.2 | 18 | 86 | 30 | 26 | 1 | 140 | 294 | 400 | 1000 | 2500 | 348.2 | 877.6 | 26700 | 26700 | | | | | | M36–M80 |
| PA7-450-11-400 | 457.2 | 18 | 86 | 35 | -10 | -3/8 | 140 | 330 | 450 | 1000 | 2500 | 420.3 | 1093.9 | 36000 | 36000 | | | | | | M36–M80 |
| PA7-450-12-400 | 457.2 | 18 | 86 | 40 | -10 | -3/8 | 140 | 340 | 470 | 1000 | 2500 | 479.2 | 1387.2 | 46050 | 46050 | | | | | | M36–M80 |
| PA7-450-2-490 | 457.2 | 18 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 700 | 2500 | 50.1 | 106.2 | 1060 | 1060 | 1060 | 690 | 410 | 300 | 250 | M8–M16 |
| PA7-450-3-490 | 457.2 | 18 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 170 | 700 | 2500 | 50.5 | 154.6 | 2020 | 2020 | 2020 | 1310 | 790 | 570 | 480 | M8–M24 |
| PA7-450-4-490 | 457.2 | 18 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 190 | 800 | 2500 | 69.8 | 217.9 | 3160 | 3160 | 3160 | 2050 | 1230 | 880 | 760 | M8–M30 |
| PA7-450-5-490 | 457.2 | 18 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 220 | 800 | 2500 | 89.7 | 262.9 | 4560 | 4560 | 4560 | 2960 | 1780 | 1280 | 1090 | M12–M36 |
| PA7-450-6-490 | 457.2 | 18 | 52 | 16 | -3 | -1/8 | 85 | 188 | 260 | 800 | 2500 | 120.8 | 363.3 | 7300 | 7300 | 7300 | 4750 | 2850 | 2040 | 1750 | M20–M48 |
| PA7-450-7-490 | 457.2 | 18 | 60 | 20 | 12 | 1/2 | 100 | 208 | 290 | 900 | 2500 | 160.6 | 476.8 | 10680 | 10680 | 10680 | 6940 | 4170 | 2990 | 2560 | M24–M56 |
| PA7-450-8-490 | 457.2 | 18 | 68 | 25 | 32 | 1 1/4 | 115 | 208 | 330 | 900 | 2500 | 190.1 | 529.8 | 14800 | 14800 | 14800 | 9620 | 5770 | 4140 | 3550 | M36–M64 |
| PA7-450-9-490 | 457.2 | 18 | 76 | 25 | 11 | 7/16 | 130 | 264 | 360 | 900 | 2500 | 231.2 | 681.3 | 19300 | 19300 | 19300 | 12550 | 7530 | 5400 | 4630 | M36–M72 |
| PA7-450-10-490 | 457.2 | 18 | 86 | 30 | 26 | 1 | 140 | 294 | 400 | 1000 | 2500 | 332.6 | 877.6 | 26700 | 26700 | 26700 | 17360 | 10410 | 7480 | 6410 | M36–M80 |
| PA7-450-11-490 | 457.2 | 18 | 86 | 35 | -10 | -3/8 | 140 | 330 | 440 | 1000 | 2500 | 420.3 | 1076.0 | 36000 | 36000 | 36000 | 23400 | 14040 | 10080 | 8640 | M36–M80 |
| PA7-450-12-490 | 457.2 | 18 | 86 | 40 | -10 | -3/8 | 140 | 340 | 500 | 1000 | 2500 | 479.2 | 1222.3 | 60504 | 60504 | 6050 | 29930 | 17960 | 12890 | 11050 | M36–M80 |
| PA7-450-2-530 | 457.2 | 18 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 700 | 2500 | 50.1 | 133.6 | 1060 | 1060 | 1060 | 1060 | 640 | 470 | 380 | M8–M16 |
| PA7-450-3-530 | 457.2 | 18 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 180 | 700 | 2500 | 57.2 | 167.0 | 2020 | 2020 | 2020 | 2020 | 1210 | 890 | 730 | M8–M24 |
| PA7-450-4-530 | 457.2 | 18 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 210 | 800 | 2500 | 80.6 | 244.7 | 3160 | 3160 | 3160 | 3160 | 1900 | 1390 | 1140 | M8–M30 |
| PA7-450-5-530 | 457.2 | 18 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 240 | 800 | 2500 | 101.4 | 280.5 | 4560 | 4560 | 4560 | 4560 | 2740 | 2010 | 1640 | M12–M36 |
| PA7-450-6-530 | 457.2 | 18 | 52 | 16 | -3 | -1/8 | 85 | 188 | 280 | 800 | 2500 | 123.7 | 384.5 | 7300 | 7300 | 7300 | 7300 | 4380 | 3210 | 2630 | M20–M48 |
| PA7-450-7-530 | 457.2 | 18 | 60 | 20 | 12 | 1/2 | 100 | 208 | 310 | 900 | 2500 | 182.7 | 501.8 | 10680 | 10680 | 10680 | 10680 | 6410 | 4700 | 3840 | M24–M56 |
| PA7-450-8-530 | 457.2 | 18 | 68 | 25 | 32 | 1 1/4 | 115 | 220 | 340 | 900 | 2500 | 207.7 | 625.6 | 14800 | 14800 | 14800 | 14800 | 8880 | 6510 | 5330 | M36–M64 |
| PA7-450-9-530 | 457.2 | 18 | 76 | 25 | 11 | 7/16 | 130 | 264 | 380 | 900 | 2500 | 248.9 | 720.5 | 19300 | 19300 | 19300 | 19300 | 11580 | 8490 | 6950 | M36–M72 |
| PA7-450-10-530 | 457.2 | 18 | 86 | 30 | 26 | 1 | 140 | 294 | 420 | 1000 | 2500 | 353.5 | 921.7 | 26700 | 26700 | 26700 | 26700 | 16020 | 11750 | 9610 | M36–M80 |
| PA7-450-11-530 | 457.2 | 18 | 86 | 35 | -10 | -3/8 | 140 | 330 | 460 | 1000 | 2500 | 426.6 | 1112.6 | 36000 | 36000 | 36000 | 36000 | 21600 | 15840 | 12960 | M36–M80 |
| PA7-450-12-530 | 457.2 | 18 | 86 | 40 | -10 | -3/8 | 140 | 340 | 480 | 1000 | 2500 | 533.4 | 1409.8 | 46050 | 46050 | 46050 | 46050 | 27630 | 20260 | 16580 | M36–M80 |
| PA7-450-2-560 | 457.2 | 18 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 700 | 2500 | 50.1 | 140.4 | 1060 | 1060 | 1060 | 1060 | 1060 | 830 | 610 | M8–M16 |
| PA7-450-3-560 | 457.2 | 18 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 180 | 800 | 2500 | 65.4 | 203.9 | 2020 | 2020 | 2020 | 2020 | 2020 | 1580 | 1170 | M8–M24 |
| PA7-450-4-560 | 457.2 | 18 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 230 | 800 | 2500 | 84.9 | 262.2 | 3160 | 3160 | 3160 | 3160 | 3160 | 2460 | 1830 | M8–M30 |
| PA7-450-5-560 | 457.2 | 18 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 240 | 800 | 2500 | 119.4 | 330.8 | 4560 | 4560 | 4560 | 4560 | 4560 | 3560 | 2640 | M12–M36 |
| PA7-450-6-560 | 457.2 | 18 | 52 | 16 | -3 | -1/8 | 85 | 200 | 280 | 800 | 2500 | 141.7 | 436.6 | 7300 | 7300 | 7300 | 7300 | 7300 | 5690 | 4230 | M20–M48 |
| PA7-450-7-560 | 457.2 | 18 | 60 | 20 | 12 | 1/2 | 100 | 220 | 340 | 900 | 2500 | 204.6 | 539.4 | 10680 | 10680 | 10680 | 10680 | 10680 | 8330 | 6190 | M24–M56 |
| PA7-450-8-560 | 457.2 | 18 | 68 | 25 | 32 | 1 1/4 | 115 | 250 | 360 | 900 | 2500 | 229.4 | 654.2 | 14800 | 14800 | 14800 | 14800 | 14800 | 11540 | 8580 | M36–M64 |
| PA7-450-9-560 | 457.2 | 18 | 76 | 25 | 11 | 7/16 | 130 | 264 | 390 | 900 | 2500 | 299.2 | 823.8 | 19300 | 19300 | 19300 | 19300 | 19300 | 15050 | 11190 | M36–M72 |
| PA7-450-10-560 | 457.2 | 18 | 86 | 30 | 26 | 1 | 140 | 300 | 450 | 1000 | 2500 | 399.8 | 970.6 | 26700 | 26700 | 26700 | 26700 | 26700 | 20830 | 15490 | M36–M80 |
| PA7-450-11-560 | 457.2 | 18 | 86 | 35 | -10 | -3/8 | 140 | 350 | 500 | 1000 | 2500 | 472.3 | 1208.2 | 36000 | 36000 | 36000 | 36000 | 36000 | 28080 | 20880 | M36–M80 |
| PA7-450-12-560 | 457.2 | 18 | 86 | 40 | -10 | -3/8 | 140 | 370 | 500 | 1000 | 2500 | 576.4 | 1454.1 | 46050 | 46050 | 46050 | 46050 | 46050 | 35920 | 26710 | M36–M80 |
| PA7-450-2-600 | 457.2 | 18 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 190 | 700 | 2500 | 56.9 | 173.4 | 1060 | 1060 | 1060 | 1060 | 1060 | 1060 | 1060 | M8–M16 |
| PA7-450-3-600 | 457.2 | 18 | 26 | 10 | -48 | -1 7/8 | 45 | 158 | 230 | 800 | 2500 | 80.5 | 256.6 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | M8–M24 |
| PA7-450-4-600 | 457.2 | 18 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 260 | 800 | 2500 | 111.7 | 351.1 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | M8–M30 |
| PA7-450-5-600 | 457.2 | 18 | 39 | 12 | -28 | -1 1/8 | 65 | 200 | 300 | 800 | 2500 | 140.3 | 404.2 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | M12–M36 |
| PA7-450-6-600 | 457.2 | 18 | 52 | 16 | -3 | -1/8 | 85 | 220 | 350 | 800 | 2500 | 182.4 | 542.8 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | M20–M48 |
| PA7-450-7-600 | 457.2 | 18 | 60 | 20 | 12 | 1/2 | 100 | 240 | 390 | 900 | 2500 | 253.5 | 704.1 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | M24–M56 |
| PA7-450-8-600 | 457.2 | 18 | 68 | 25 | 32 | 1 1/4 | 115 | 280 | 420 | 900 | 2500 | 286.5 | 853.2 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | M36–M64 |
| PA7-450-9-600 | 457.2 | 18 | 76 | 25 | 11 | 7/16 | 130 | 320 | 440 | 1000 | 2500 | 382.7 | 1012.6 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | M36–M72 |
| PA7-450-10-600 | 457.2 | 18 | 86 | 30 | 26 | 1 | 140 | 340 | 450 | 1000 | 2500 | 497.5 | 1299.7 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | M36–M80 |
| PA7-450-11-600 | 457.2 | 18 | 86 | 35 | -10 | -3/8 | 140 | 400 | 520 | 1000 | 2500 | 585.6 | 1483.6 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | M36–M80 |
| PA7-450-12-600 | 457.2 | 18 | 86 | 40 | -10 | -3/8 | 140 | 420 | 590 | 1000 | 2500 | 704.7 | 1676.8 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | M36–M80 |

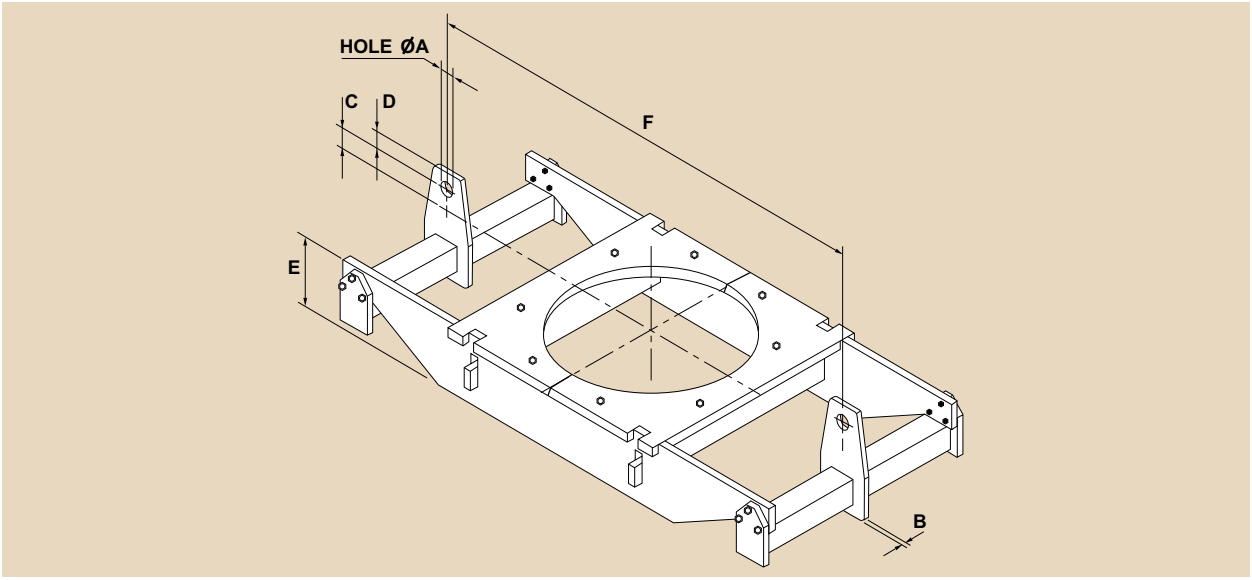
# PA7 RISER CLAMP FLAT PLATE TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C End Beams and Lugs: Carbon Steel. Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | D | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA7-500-2-400 | 508 | 20 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 800 | 2500 | 57.4 | 112.4 | 1060 | 1060 | | | | | | M8–M16 |
| PA7-500-3-400 | 508 | 20 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 168 | 800 | 2500 | 62.2 | 159.5 | 2020 | 2020 | | | | | | M8–M24 |
| PA7-500-4-400 | 508 | 20 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 200 | 800 | 2500 | 77.3 | 194.4 | 3160 | 3160 | | | | | | M8–M30 |
| PA7-500-5-400 | 508 | 20 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 220 | 900 | 2500 | 104.4 | 274.6 | 4560 | 4560 | | | | | | M12–M36 |
| PA7-500-6-400 | 508 | 20 | 52 | 16 | -3 | -1/8 | 85 | 208 | 260 | 900 | 2500 | 149.3 | 394.2 | 7300 | 7300 | | | | | | M20–M48 |
| PA7-500-7-400 | 508 | 20 | 60 | 20 | 12 | 1/2 | 100 | 208 | 290 | 900 | 2500 | 176.0 | 495.8 | 10680 | 10680 | | | | | | M24–M56 |
| PA7-500-8-400 | 508 | 20 | 68 | 25 | 32 | 1 1/4 | 115 | 228 | 340 | 1000 | 2500 | 244.9 | 589.5 | 14800 | 14800 | | | | | | M36–M64 |
| PA7-500-9-400 | 508 | 20 | 76 | 25 | 11 | 7/16 | 130 | 264 | 360 | 1000 | 2500 | 277.2 | 717.3 | 19300 | 19300 | | | | | | M36–M72 |
| PA7-500-10-400 | 508 | 20 | 86 | 30 | 26 | 1 | 140 | 294 | 400 | 1000 | 2500 | 367.6 | 919.5 | 26700 | 26700 | | | | | | M36–M80 |
| PA7-500-11-400 | 508 | 20 | 86 | 35 | -10 | -3/8 | 140 | 330 | 440 | 1100 | 2500 | 468.6 | 1111.4 | 36000 | 36000 | | | | | | M36–M80 |
| PA7-500-12-400 | 508 | 20 | 86 | 40 | -10 | -3/8 | 140 | 350 | 500 | 1100 | 2500 | 534.6 | 1264.1 | 46050 | 46050 | | | | | | M36–M80 |
| PA7-500-13-400 | 508 | 20 | 86 | 40 | -46 | -1 13/16 | 140 | 396 | 520 | 1100 | 2500 | 674.5 | 1634.4 | 56250 | 56250 | | | | | | M36–M80 |
| PA7-500-2-490 | 508 | 20 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 800 | 2500 | 57.4 | 112.4 | 1060 | 1060 | 1060 | 690 | 410 | 300 | 250 | M8–M16 |
| PA7-500-3-490 | 508 | 20 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 168 | 800 | 2500 | 62.2 | 159.5 | 2020 | 2020 | 2020 | 1310 | 790 | 570 | 480 | M8–M24 |
| PA7-500-4-490 | 508 | 20 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 200 | 800 | 2500 | 77.3 | 194.4 | 3160 | 3160 | 3160 | 2050 | 1230 | 880 | 760 | M8–M30 |
| PA7-500-5-490 | 508 | 20 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 220 | 900 | 2500 | 104.4 | 274.6 | 4560 | 4560 | 4560 | 2960 | 1780 | 1280 | 1090 | M12–M36 |
| PA7-500-6-490 | 508 | 20 | 52 | 16 | -3 | -1/8 | 85 | 208 | 260 | 900 | 2500 | 149.3 | 394.2 | 7300 | 7300 | 7300 | 4750 | 2850 | 2040 | 1750 | M20–M48 |
| PA7-500-7-490 | 508 | 20 | 60 | 20 | 12 | 1/2 | 100 | 208 | 290 | 900 | 2500 | 176.0 | 495.8 | 10680 | 10680 | 10680 | 6940 | 4170 | 2990 | 2560 | M24–M56 |
| PA7-500-8-490 | 508 | 20 | 68 | 25 | 32 | 1 1/4 | 115 | 228 | 340 | 1000 | 2500 | 244.9 | 589.5 | 14800 | 14800 | 14800 | 9620 | 5770 | 4140 | 3550 | M36–M64 |
| PA7-500-9-490 | 508 | 20 | 76 | 25 | 11 | 7/16 | 130 | 264 | 360 | 1000 | 2500 | 277.2 | 717.3 | 19300 | 19300 | 19300 | 12550 | 7530 | 5400 | 4630 | M36–M72 |
| PA7-500-10-490 | 508 | 20 | 86 | 30 | 26 | 1 | 140 | 294 | 400 | 1000 | 2500 | 367.6 | 919.5 | 26700 | 26700 | 26700 | 17360 | 10410 | 7480 | 6410 | M36–M80 |
| PA7-500-11-490 | 508 | 20 | 86 | 35 | -10 | -3/8 | 140 | 330 | 440 | 1000 | 2500 | 417.9 | 1111.4 | 36000 | 36000 | 36000 | 23400 | 14040 | 10080 | 8640 | M36–M80 |
| PA7-500-12-490 | 508 | 20 | 86 | 40 | -10 | -3/8 | 140 | 350 | 500 | 1100 | 2500 | 534.6 | 1264.1 | 46050 | 46050 | 46050 | 29930 | 17960 | 12890 | 11050 | M36–M80 |
| PA7-500-13-490 | 508 | 20 | 86 | 40 | -46 | -1 13/16 | 140 | 396 | 500 | 1100 | 2500 | 674.5 | 1560.6 | 56250 | 56250 | 56250 | 36560 | 21940 | 15750 | 13500 | M36–M80 |
| PA7-500-2-530 | 508 | 20 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 800 | 2500 | 57.4 | 133.0 | 1060 | 1060 | 1060 | 1060 | 640 | 470 | 380 | M8–M16 |
| PA7-500-3-530 | 508 | 20 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 180 | 800 | 2500 | 70.3 | 180.1 | 2020 | 2020 | 2020 | 2020 | 1210 | 890 | 730 | M8–M24 |
| PA7-500-4-530 | 508 | 20 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 200 | 800 | 2500 | 92.4 | 247.3 | 3160 | 3160 | 3160 | 3160 | 1900 | 1390 | 1140 | M8–M30 |
| PA7-500-5-530 | 508 | 20 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 240 | 900 | 2500 | 118.2 | 292.3 | 4560 | 4560 | 4560 | 4560 | 2740 | 2010 | 1640 | M12–M36 |
| PA7-500-6-530 | 508 | 20 | 52 | 16 | -3 | -1/8 | 85 | 208 | 270 | 900 | 2500 | 156.0 | 404.8 | 7300 | 7300 | 7300 | 7300 | 4380 | 3210 | 2630 | M20–M48 |
| PA7-500-7-530 | 508 | 20 | 60 | 20 | 12 | 1/2 | 100 | 208 | 300 | 900 | 2500 | 198.6 | 508.7 | 10680 | 10680 | 10680 | 10680 | 6410 | 4700 | 3840 | M24–M56 |
| PA7-500-8-530 | 508 | 20 | 68 | 25 | 32 | 1 1/4 | 115 | 230 | 330 | 1000 | 2500 | 249.3 | 650.5 | 14800 | 14800 | 14800 | 14800 | 8880 | 6510 | 5330 | M36–M64 |
| PA7-500-9-530 | 508 | 20 | 76 | 25 | 11 | 7/16 | 130 | 264 | 380 | 1000 | 2500 | 309.8 | 746.4 | 19300 | 19300 | 19300 | 19300 | 11580 | 8490 | 6950 | M36–M72 |
| PA7-500-10-530 | 508 | 20 | 86 | 30 | 26 | 1 | 140 | 294 | 420 | 1000 | 2500 | 390.9 | 952.7 | 26700 | 26700 | 26700 | 26700 | 16020 | 11750 | 9610 | M36–M80 |
| PA7-500-11-530 | 508 | 20 | 86 | 35 | -10 | -3/8 | 140 | 340 | 470 | 1100 | 2500 | 513.8 | 1193.2 | 36000 | 36000 | 36000 | 36000 | 21600 | 15840 | 12960 | M36–M80 |
| PA7-500-12-530 | 508 | 20 | 86 | 40 | -10 | -3/8 | 140 | 350 | 470 | 1100 | 2500 | 592.9 | 1432.2 | 46050 | 46050 | 46050 | 46050 | 27630 | 20260 | 16580 | M36–M80 |
| PA7-500-13-530 | 508 | 20 | 86 | 40 | -46 | -1 13/16 | 140 | 396 | 520 | 1100 | 2500 | 691.1 | 1634.4 | 56250 | 56250 | 56250 | 56250 | 33750 | 24750 | 20250 | M36–M80 |
| PA7-500-2-560 | 508 | 20 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 158 | 800 | 2500 | 57.4 | 147.1 | 1060 | 1060 | 1060 | 1060 | 1060 | 830 | 610 | M8–M16 |
| PA7-500-3-560 | 508 | 20 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 200 | 800 | 2500 | 89.8 | 194.2 | 2020 | 2020 | 2020 | 2020 | 2020 | 1580 | 1170 | M8–M24 |
| PA7-500-4-560 | 508 | 20 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 230 | 900 | 2500 | 106.8 | 273.6 | 3160 | 3160 | 3160 | 3160 | 3160 | 2460 | 1830 | M8–M30 |
| PA7-500-5-560 | 508 | 20 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 240 | 900 | 2500 | 135.6 | 355.6 | 4560 | 4560 | 4560 | 4560 | 4560 | 3560 | 2640 | M12–M36 |
| PA7-500-6-560 | 508 | 20 | 52 | 16 | -3 | -1/8 | 85 | 208 | 280 | 900 | 2500 | 173.6 | 481.0 | 7300 | 7300 | 7300 | 7300 | 7300 | 5690 | 4230 | M20–M48 |
| PA7-500-7-560 | 508 | 20 | 60 | 20 | 12 | 1/2 | 100 | 220 | 340 | 900 | 2500 | 222.8 | 571.1 | 10680 | 10680 | 10680 | 10680 | 10680 | 8330 | 6190 | M24–M56 |
| PA7-500-8-560 | 508 | 20 | 68 | 25 | 32 | 1 1/4 | 115 | 240 | 360 | 1000 | 2500 | 300.9 | 707.0 | 14800 | 14800 | 14800 | 14800 | 14800 | 11540 | 8580 | M36–M64 |
| PA7-500-9-560 | 508 | 20 | 76 | 25 | 11 | 7/16 | 130 | 270 | 380 | 1000 | 2500 | 338.1 | 835.3 | 19300 | 19300 | 19300 | 19300 | 19300 | 15050 | 11190 | M36–M72 |
| PA7-500-10-560 | 508 | 20 | 86 | 30 | 26 | 1 | 140 | 310 | 450 | 1100 | 2500 | 447.3 | 1015.5 | 26700 | 26700 | 26700 | 26700 | 26700 | 20830 | 15490 | M36–M80 |
| PA7-500-11-560 | 508 | 20 | 86 | 35 | -10 | -3/8 | 140 | 340 | 490 | 1100 | 2500 | 570.9 | 1230.3 | 36000 | 36000 | 36000 | 36000 | 36000 | 28080 | 20880 | M36–M80 |
| PA7-500-12-560 | 508 | 20 | 86 | 40 | -10 | -3/8 | 140 | 380 | 490 | 1100 | 2500 | 642.6 | 1477.0 | 46050 | 46050 | 46050 | 46050 | 46050 | 35920 | 26710 | M36–M80 |
| PA7-500-13-560 | 508 | 20 | 86 | 40 | -46 | -1 13/16 | 140 | 396 | 550 | 1100 | 2500 | 766.2 | 1701.7 | 56250 | 56250 | 56250 | 56250 | 56250 | 43880 | 32630 | M36–M80 |
| PA7-500-2-600 | 508 | 20 | 18 | 8 | -66 | -2 5/8 | 30 | 158 | 190 | 800 | 2500 | 69.9 | 181.6 | 1060 | 1060 | 1060 | 1060 | 1060 | 1060 | 1060 | M8–M16 |
| PA7-500-3-600 | 508 | 20 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 230 | 800 | 2500 | 103.5 | 273.4 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | M8–M24 |
| PA7-500-4-600 | 508 | 20 | 33 | 10 | -38 | -1 1/2 | 55 | 170 | 250 | 900 | 2500 | 130.7 | 355.0 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | M8–M30 |
| PA7-500-5-600 | 508 | 20 | 39 | 12 | -28 | -1 1/8 | 65 | 200 | 300 | 900 | 2500 | 159.7 | 431.8 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | M12–M36 |
| PA7-500-6-600 | 508 | 20 | 52 | 16 | -3 | -1/8 | 85 | 220 | 340 | 900 | 2500 | 220.4 | 568.6 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | M20–M48 |
| PA7-500-7-600 | 508 | 20 | 60 | 20 | 12 | 1/2 | 100 | 250 | 380 | 1000 | 2500 | 288.9 | 715.6 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | M24–M56 |
| PA7-500-8-600 | 508 | 20 | 68 | 25 | 32 | 1 1/4 | 115 | 300 | 410 | 1000 | 2500 | 358.1 | 885.9 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | M36–M64 |
| PA7-500-9-600 | 508 | 20 | 76 | 25 | 11 | 7/16 | 130 | 310 | 430 | 1000 | 2500 | 427.8 | 1027.9 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | M36–M72 |
| PA7-500-10-600 | 508 | 20 | 86 | 30 | 26 | 1 | 140 | 350 | 450 | 1100 | 2500 | 555.4 | 1342.5 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | M36–M80 |
| PA7-500-11-600 | 508 | 20 | 86 | 35 | -10 | -3/8 | 140 | 380 | 520 | 1100 | 2500 | 696.4 | 1557.6 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | M36–M80 |
| PA7-500-12-600 | 508 | 20 | 86 | 40 | -10 | -3/8 | 140 | 430 | 580 | 1100 | 2500 | 783.4 | 1707.5 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | M36–M80 |
| PA7-500-13-600 | 508 | 20 | 86 | 40 | -46 | -1 13/16 | 140 | 450 | 570 | 1100 | 2500 | 928.0 | 2024.4 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | M36–M80 |

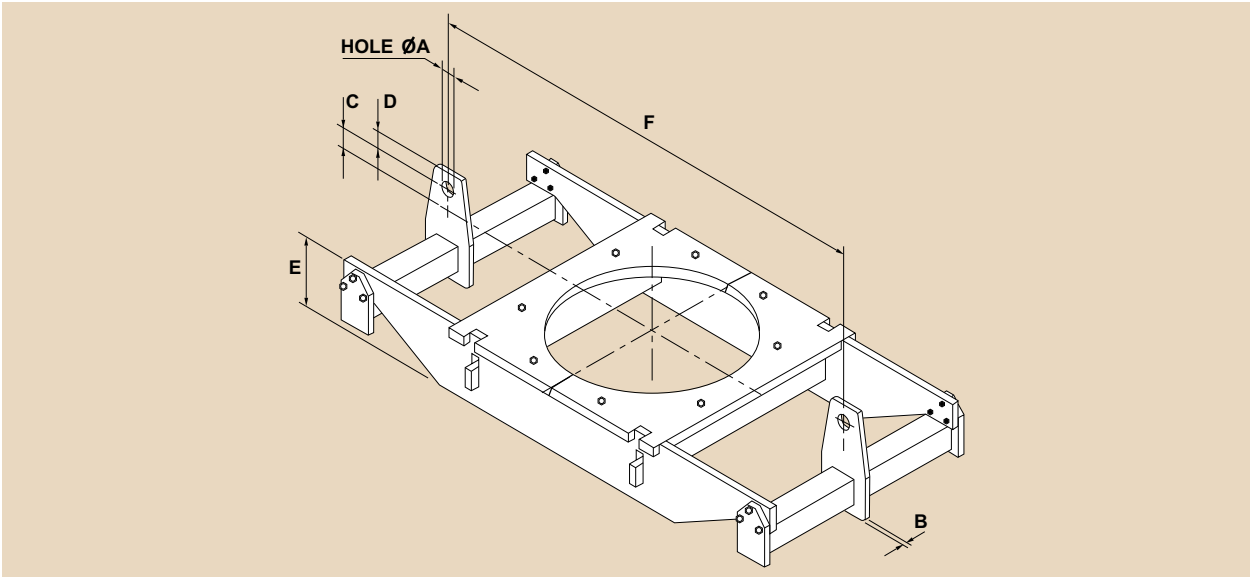
# PA7 RISER CLAMP FLAT PLATE TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C End Beams and Lugs: Carbon Steel. Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | D | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA7-550-3-400 | 558.8 | 22 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 170 | 900 | 2500 | 79.4 | 181.5 | 2020 | 2020 | | | | | | M8–M24 |
| PA7-550-4-400 | 558.8 | 22 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 190 | 900 | 2500 | 102.0 | 249.7 | 3160 | 3160 | | | | | | M8–M30 |
| PA7-550-5-400 | 558.8 | 22 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 220 | 900 | 2500 | 125.3 | 286.6 | 4560 | 4560 | | | | | | M12–M36 |
| PA7-550-6-400 | 558.8 | 22 | 52 | 16 | -3 | -1/8 | 85 | 208 | 250 | 1000 | 2500 | 170.2 | 399.0 | 7300 | 7300 | | | | | | M20–M48 |
| PA7-550-7-400 | 558.8 | 22 | 60 | 20 | 12 | 1/2 | 100 | 208 | 290 | 1000 | 2500 | 216.4 | 514.9 | 10680 | 10680 | | | | | | M24–M56 |
| PA7-550-8-400 | 558.8 | 22 | 68 | 25 | 32 | 1 1/4 | 115 | 228 | 330 | 1000 | 2500 | 264.3 | 598.8 | 14800 | 14800 | | | | | | M36–M64 |
| PA7-550-9-400 | 558.8 | 22 | 76 | 25 | 11 | 7/16 | 130 | 294 | 360 | 1100 | 2500 | 365.3 | 773.3 | 19300 | 19300 | | | | | | M36–M72 |
| PA7-550-10-400 | 558.8 | 22 | 86 | 30 | 26 | 1 | 140 | 294 | 400 | 1100 | 2500 | 409.0 | 951.0 | 26700 | 26700 | | | | | | M36–M80 |
| PA7-550-11-400 | 558.8 | 22 | 86 | 35 | -10 | -3/8 | 140 | 330 | 450 | 1100 | 2500 | 536.6 | 1208.1 | 36000 | 36000 | | | | | | M36–M80 |
| PA7-550-12-400 | 558.8 | 22 | 86 | 40 | -10 | -3/8 | 140 | 360 | 500 | 1100 | 2500 | 585.2 | 1339.0 | 46050 | 46050 | | | | | | M36–M80 |
| PA7-550-13-400 | 558.8 | 22 | 86 | 40 | -46 | -1 13/16 | 140 | 416 | 510 | 1200 | 2500 | 777.4 | 1697.4 | 56250 | 56250 | | | | | | M36–M80 |
| PA7-550-3-490 | 558.8 | 22 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 170 | 900 | 2500 | 79.4 | 181.5 | 2020 | 2020 | 2020 | 1310 | 790 | 570 | 480 | M8–M24 |
| PA7-550-4-490 | 558.8 | 22 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 190 | 900 | 2500 | 102.0 | 249.7 | 3160 | 3160 | 3160 | 2050 | 1230 | 880 | 760 | M8–M30 |
| PA7-550-5-490 | 558.8 | 22 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 220 | 900 | 2500 | 125.3 | 286.6 | 4560 | 4560 | 4560 | 2960 | 1780 | 1280 | 1090 | M12–M36 |
| PA7-550-6-490 | 558.8 | 22 | 52 | 16 | -3 | -1/8 | 85 | 208 | 250 | 1000 | 2500 | 170.2 | 399.0 | 7300 | 7300 | 7300 | 4750 | 2850 | 2040 | 1750 | M20–M48 |
| PA7-550-7-490 | 558.8 | 22 | 60 | 20 | 12 | 1/2 | 100 | 208 | 300 | 1000 | 2500 | 216.4 | 470.3 | 10680 | 10680 | 10680 | 6940 | 4170 | 2990 | 2560 | M24–M56 |
| PA7-550-8-490 | 558.8 | 22 | 68 | 25 | 32 | 1 1/4 | 115 | 228 | 330 | 1000 | 2500 | 264.3 | 598.8 | 14800 | 14800 | 14800 | 9620 | 5770 | 4140 | 3550 | M36–M64 |
| PA7-550-9-490 | 558.8 | 22 | 76 | 25 | 11 | 7/16 | 130 | 294 | 360 | 1100 | 2500 | 365.3 | 773.3 | 19300 | 19300 | 19300 | 12550 | 7530 | 5400 | 4630 | M36–M72 |
| PA7-550-10-490 | 558.8 | 22 | 86 | 30 | 26 | 1 | 140 | 294 | 390 | 1100 | 2500 | 409.0 | 933.8 | 26700 | 26700 | 26700 | 17360 | 10410 | 7480 | 6410 | M36–M80 |
| PA7-550-11-490 | 558.8 | 22 | 86 | 35 | -10 | -3/8 | 140 | 330 | 450 | 1100 | 2500 | 536.6 | 1086.9 | 36000 | 36000 | 36000 | 23400 | 14040 | 10080 | 8640 | M36–M80 |
| PA7-550-12-490 | 558.8 | 22 | 86 | 40 | -10 | -3/8 | 140 | 360 | 490 | 1100 | 2500 | 585.2 | 1319.7 | 46050 | 46050 | 46050 | 29930 | 17960 | 12890 | 11050 | M36–M80 |
| PA7-550-13-490 | 558.8 | 22 | 86 | 40 | -46 | -1 13/16 | 140 | 416 | 510 | 1200 | 2500 | 768.8 | 1697.4 | 56250 | 56250 | 56250 | 36560 | 21940 | 15750 | 13500 | M36–M80 |
| PA7-550-3-530 | 558.8 | 22 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 180 | 900 | 2500 | 84.3 | 188.7 | 2020 | 2020 | 2020 | 2020 | 1210 | 890 | 730 | M8–M24 |
| PA7-550-4-530 | 558.8 | 22 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 200 | 900 | 2500 | 107.0 | 258.8 | 3160 | 3160 | 3160 | 3160 | 1900 | 1390 | 1140 | M8–M30 |
| PA7-550-5-530 | 558.8 | 22 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 240 | 900 | 2500 | 145.0 | 304.6 | 4560 | 4560 | 4560 | 4560 | 2740 | 2010 | 1640 | M12–M36 |
| PA7-550-6-530 | 558.8 | 22 | 52 | 16 | -3 | -1/8 | 85 | 208 | 270 | 1000 | 2500 | 190.4 | 420.8 | 7300 | 7300 | 7300 | 7300 | 4380 | 3210 | 2630 | M20–M48 |
| PA7-550-7-530 | 558.8 | 22 | 60 | 20 | 12 | 1/2 | 100 | 208 | 300 | 1000 | 2500 | 239.1 | 528.0 | 10680 | 10680 | 10680 | 10680 | 6410 | 4700 | 3840 | M24–M56 |
| PA7-550-8-530 | 558.8 | 22 | 68 | 25 | 32 | 1 1/4 | 115 | 240 | 350 | 1000 | 2500 | 287.2 | 624.4 | 14800 | 14800 | 14800 | 14800 | 8880 | 6510 | 5330 | M36–M64 |
| PA7-550-9-530 | 558.8 | 22 | 76 | 25 | 11 | 7/16 | 130 | 294 | 370 | 1100 | 2500 | 391.6 | 787.8 | 19300 | 19300 | 19300 | 19300 | 11580 | 8490 | 6950 | M36–M72 |
| PA7-550-10-530 | 558.8 | 22 | 86 | 30 | 26 | 1 | 140 | 300 | 420 | 1100 | 2500 | 435.3 | 1000.2 | 26700 | 26700 | 26700 | 26700 | 16020 | 11750 | 9610 | M36–M80 |
| PA7-550-11-530 | 558.8 | 22 | 86 | 35 | -10 | -3/8 | 140 | 330 | 460 | 1100 | 2500 | 544.1 | 1227.3 | 36000 | 36000 | 36000 | 36000 | 21600 | 15840 | 12960 | M36–M80 |
| PA7-550-12-530 | 558.8 | 22 | 86 | 40 | -10 | -3/8 | 140 | 370 | 470 | 1200 | 2500 | 719.4 | 1515.5 | 46050 | 46050 | 46050 | 46050 | 27630 | 20260 | 16580 | M36–M80 |
| PA7-550-13-530 | 558.8 | 22 | 86 | 40 | -46 | -1 13/16 | 140 | 416 | 520 | 1200 | 2500 | 786.8 | 1720.9 | 56250 | 56250 | 56250 | 56250 | 33750 | 24750 | 20250 | M36–M80 |
| PA7-550-3-560 | 558.8 | 22 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 180 | 900 | 2500 | 104.4 | 227.3 | 2020 | 2020 | 2020 | 2020 | 2020 | 1580 | 1170 | M8–M24 |
| PA7-550-4-560 | 558.8 | 22 | 33 | 10 | -38 | -1 1/2 | 55 | 168 | 220 | 900 | 2500 | 120.5 | 276.7 | 3160 | 3160 | 3160 | 3160 | 3160 | 2460 | 1830 | M8–M30 |
| PA7-550-5-560 | 558.8 | 22 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 240 | 900 | 2500 | 151.8 | 370.7 | 4560 | 4560 | 4560 | 4560 | 4560 | 3560 | 2640 | M12–M36 |
| PA7-550-6-560 | 558.8 | 22 | 52 | 16 | -3 | -1/8 | 85 | 208 | 300 | 1000 | 2500 | 218.4 | 467.8 | 7300 | 7300 | 7300 | 7300 | 7300 | 5690 | 4230 | M20–M48 |
| PA7-550-7-560 | 558.8 | 22 | 60 | 20 | 12 | 1/2 | 100 | 230 | 330 | 1000 | 2500 | 252.8 | 580.0 | 10680 | 10680 | 10680 | 10680 | 10680 | 8330 | 6190 | M24–M56 |
| PA7-550-8-560 | 558.8 | 22 | 68 | 25 | 32 | 1 1/4 | 115 | 250 | 360 | 1100 | 2500 | 337.6 | 733.3 | 14800 | 14800 | 14800 | 14800 | 14800 | 11540 | 8580 | M36–M64 |
| PA7-550-9-560 | 558.8 | 22 | 76 | 25 | 11 | 7/16 | 130 | 294 | 380 | 1100 | 2500 | 403.9 | 912.3 | 19300 | 19300 | 19300 | 19300 | 19300 | 15050 | 11190 | M36–M72 |
| PA7-550-10-560 | 558.8 | 22 | 86 | 30 | 26 | 1 | 140 | 310 | 440 | 1100 | 2500 | 504.2 | 1033.8 | 26700 | 26700 | 26700 | 26700 | 26700 | 20830 | 15490 | M36–M80 |
| PA7-550-11-560 | 558.8 | 22 | 86 | 35 | -10 | -3/8 | 140 | 350 | 490 | 1100 | 2500 | 565.4 | 1283.0 | 36000 | 36000 | 36000 | 36000 | 36000 | 28080 | 20880 | M36–M80 |
| PA7-550-12-560 | 558.8 | 22 | 86 | 40 | -10 | -3/8 | 140 | 400 | 500 | 1200 | 2500 | 746.3 | 1617.7 | 46050 | 46050 | 46050 | 46050 | 46050 | 35920 | 26710 | M36–M80 |
| PA7-550-13-560 | 558.8 | 22 | 86 | 40 | -46 | -1 13/16 | 140 | 416 | 540 | 1200 | 2500 | 911.1 | 1766.8 | 56250 | 56250 | 56250 | 56250 | 56250 | 43880 | 32630 | M36–M80 |
| PA7-550-3-600 | 558.8 | 22 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 220 | 900 | 2500 | 120.4 | 276.5 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | M8–M24 |
| PA7-550-4-600 | 558.8 | 22 | 33 | 10 | -38 | -1 1/2 | 55 | 180 | 250 | 900 | 2500 | 146.8 | 369.8 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | M8–M30 |
| PA7-550-5-600 | 558.8 | 22 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 300 | 900 | 2500 | 192.8 | 449.7 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | M12–M36 |
| PA7-550-6-600 | 558.8 | 22 | 52 | 16 | -3 | -1/8 | 85 | 240 | 340 | 1000 | 2500 | 268.7 | 590.6 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | M20–M48 |
| PA7-550-7-600 | 558.8 | 22 | 60 | 20 | 12 | 1/2 | 100 | 260 | 380 | 1000 | 2500 | 331.0 | 741.9 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | M24–M56 |
| PA7-550-8-600 | 558.8 | 22 | 68 | 25 | 32 | 1 1/4 | 115 | 280 | 410 | 1100 | 2500 | 415.2 | 917.0 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | M36–M64 |
| PA7-550-9-600 | 558.8 | 22 | 76 | 25 | 11 | 7/16 | 130 | 330 | 430 | 1100 | 2500 | 513.5 | 1097.3 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | M36–M72 |
| PA7-550-10-600 | 558.8 | 22 | 86 | 30 | 26 | 1 | 140 | 350 | 500 | 1100 | 2500 | 620.3 | 1265.1 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | M36–M80 |
| PA7-550-11-600 | 558.8 | 22 | 86 | 35 | -10 | -3/8 | 140 | 400 | 510 | 1200 | 2500 | 790.2 | 1595.7 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | M36–M80 |
| PA7-550-12-600 | 558.8 | 22 | 86 | 40 | -10 | -3/8 | 140 | 450 | 580 | 1200 | 2500 | 905.8 | 1833.5 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | M36–M80 |
| PA7-550-13-600 | 558.8 | 22 | 86 | 40 | -46 | -1 13/16 | 140 | 460 | 570 | 1200 | 2500 | 1051.3 | 2124.4 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | M36–M80 |

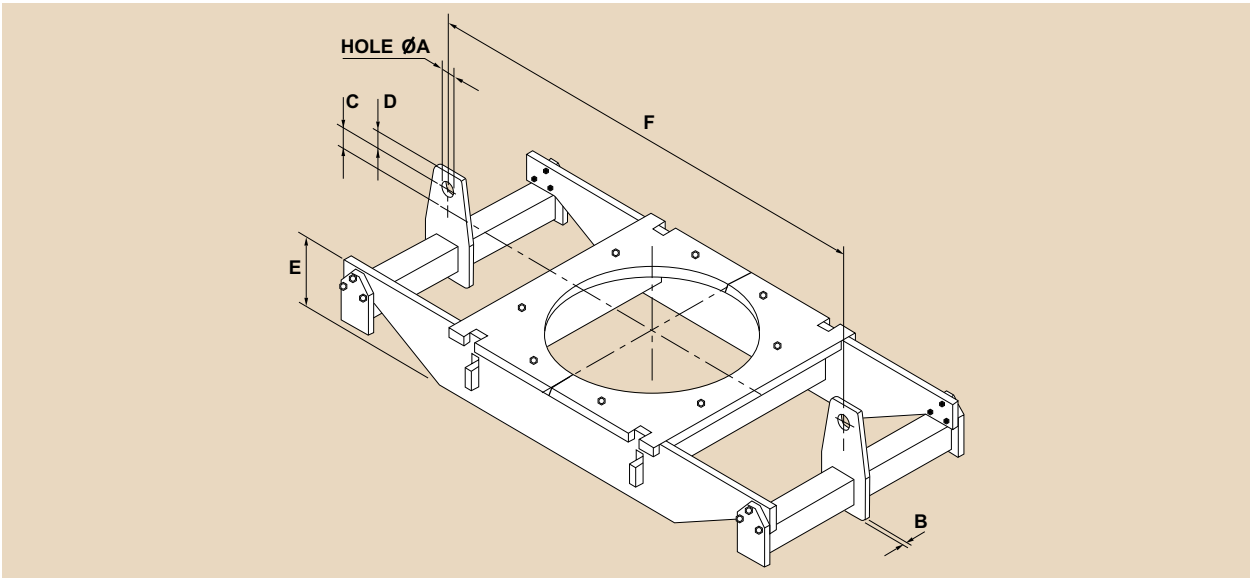
# PA7 RISER CLAMP FLAT PLATE TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C End Beams and Lugs: Carbon Steel. Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | D | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA7-600-3-400 | 609.6 | 24 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 168 | 900 | 2500 | 87.7 | 183.9 | 2020 | 2020 | | | | | | M8–M24 |
| PA7-600-4-400 | 609.6 | 24 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 190 | 1000 | 2500 | 125.3 | 271.8 | 3160 | 3160 | | | | | | M8–M30 |
| PA7-600-5-400 | 609.6 | 24 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 220 | 1000 | 2500 | 144.0 | 299.9 | 4560 | 4560 | | | | | | M12–M36 |
| PA7-600-6-400 | 609.6 | 24 | 52 | 16 | -3 | -1/8 | 85 | 208 | 250 | 1000 | 2500 | 189.2 | 416.6 | 7300 | 7300 | | | | | | M20–M48 |
| PA7-600-7-400 | 609.6 | 24 | 60 | 20 | 12 | 1/2 | 100 | 208 | 300 | 1100 | 2500 | 244.8 | 490.9 | 10680 | 10680 | | | | | | M24–M56 |
| PA7-600-8-400 | 609.6 | 24 | 68 | 25 | 32 | 1 1/4 | 115 | 230 | 330 | 1100 | 2500 | 297.1 | 623.4 | 14800 | 14800 | | | | | | M36–M64 |
| PA7-600-9-400 | 609.6 | 24 | 76 | 25 | 11 | 7/16 | 130 | 294 | 350 | 1200 | 2500 | 405.8 | 787.0 | 19300 | 19300 | | | | | | M36–M72 |
| PA7-600-10-400 | 609.6 | 24 | 86 | 30 | 26 | 1 | 140 | 294 | 390 | 1200 | 2500 | 470.4 | 967.5 | 26700 | 26700 | | | | | | M36–M80 |
| PA7-600-11-400 | 609.6 | 24 | 86 | 35 | -10 | -3/8 | 140 | 330 | 440 | 1200 | 2500 | 596.1 | 1235.3 | 36000 | 36000 | | | | | | M36–M80 |
| PA7-600-12-400 | 609.6 | 24 | 86 | 40 | -10 | -3/8 | 140 | 360 | 490 | 1200 | 2500 | 645.8 | 1366.1 | 46050 | 46050 | | | | | | M36–M80 |
| PA7-600-13-400 | 609.6 | 24 | 86 | 40 | -46 | -1 13/16 | 140 | 416 | 510 | 1200 | 2500 | 805.3 | 1753.5 | 56250 | 56250 | | | | | | M36–M80 |
| PA7-600-3-490 | 609.6 | 24 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 168 | 900 | 2500 | 87.7 | 183.9 | 2020 | 2020 | 2020 | 1310 | 790 | 570 | 480 | M8–M24 |
| PA7-600-4-490 | 609.6 | 24 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 200 | 1000 | 2500 | 125.3 | 236.4 | 3160 | 3160 | 3160 | 2050 | 1230 | 880 | 760 | M8–M30 |
| PA7-600-5-490 | 609.6 | 24 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 220 | 1000 | 2500 | 144.0 | 299.9 | 4560 | 4560 | 4560 | 2960 | 1780 | 1280 | 1090 | M12–M36 |
| PA7-600-6-490 | 609.6 | 24 | 52 | 16 | -3 | -1/8 | 85 | 208 | 250 | 1000 | 2500 | 189.2 | 416.6 | 7300 | 7300 | 7300 | 4750 | 2850 | 2040 | 1750 | M20–M48 |
| PA7-600-7-490 | 609.6 | 24 | 60 | 20 | 12 | 1/2 | 100 | 208 | 300 | 1100 | 2500 | 244.8 | 490.9 | 10680 | 10680 | 10680 | 6940 | 4170 | 2990 | 2560 | M24–M56 |
| PA7-600-8-490 | 609.6 | 24 | 68 | 25 | 32 | 1 1/4 | 115 | 230 | 330 | 1100 | 2500 | 297.1 | 623.4 | 14800 | 14800 | 14800 | 9620 | 5770 | 4140 | 3550 | M36–M64 |
| PA7-600-9-490 | 609.6 | 24 | 76 | 25 | 11 | 7/16 | 130 | 294 | 350 | 1200 | 2500 | 405.8 | 787.0 | 19300 | 19300 | 19300 | 12550 | 7530 | 5400 | 4630 | M36–M72 |
| PA7-600-10-490 | 609.6 | 24 | 86 | 30 | 26 | 1 | 140 | 294 | 390 | 1200 | 2500 | 453.9 | 967.5 | 26700 | 26700 | 26700 | 17360 | 10410 | 7480 | 6410 | M36–M80 |
| PA7-600-11-490 | 609.6 | 24 | 86 | 35 | -10 | -3/8 | 140 | 330 | 440 | 1200 | 2500 | 596.1 | 1235.3 | 36000 | 36000 | 36000 | 23400 | 14040 | 10080 | 8640 | M36–M80 |
| PA7-600-12-490 | 609.6 | 24 | 86 | 40 | -10 | -3/8 | 140 | 360 | 490 | 1200 | 2500 | 645.8 | 1366.1 | 46050 | 46050 | 46050 | 29930 | 17960 | 12890 | 11050 | M36–M80 |
| PA7-600-13-490 | 609.6 | 24 | 86 | 40 | -46 | -1 13/16 | 140 | 416 | 500 | 1200 | 2500 | 805.3 | 1730.9 | 56250 | 56250 | 56250 | 36560 | 21940 | 15750 | 13500 | M36–M80 |
| PA7-600-3-530 | 609.6 | 24 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 180 | 1000 | 2500 | 97.6 | 198.3 | 2020 | 2020 | 2020 | 2020 | 1210 | 890 | 730 | M8–M24 |
| PA7-600-4-530 | 609.6 | 24 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 200 | 1000 | 2500 | 128.0 | 281.1 | 3160 | 3160 | 3160 | 3160 | 1900 | 1390 | 1140 | M8–M30 |
| PA7-600-5-530 | 609.6 | 24 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 240 | 1000 | 2500 | 166.6 | 333.9 | 4560 | 4560 | 4560 | 4560 | 2740 | 2010 | 1640 | M12–M36 |
| PA7-600-6-530 | 609.6 | 24 | 52 | 16 | -3 | -1/8 | 85 | 208 | 270 | 1000 | 2500 | 211.9 | 455.1 | 7300 | 7300 | 7300 | 7300 | 4380 | 3210 | 2630 | M20–M48 |
| PA7-600-7-530 | 609.6 | 24 | 60 | 20 | 12 | 1/2 | 100 | 210 | 300 | 1100 | 2500 | 270.7 | 565.8 | 10680 | 10680 | 10680 | 10680 | 6410 | 4700 | 3840 | M24–M56 |
| PA7-600-8-530 | 609.6 | 24 | 68 | 25 | 32 | 1 1/4 | 115 | 250 | 350 | 1100 | 2500 | 323.2 | 665.8 | 14800 | 14800 | 14800 | 14800 | 8880 | 6510 | 5330 | M36–M64 |
| PA7-600-9-530 | 609.6 | 24 | 76 | 25 | 11 | 7/16 | 130 | 294 | 370 | 1200 | 2500 | 435.5 | 834.2 | 19300 | 19300 | 19300 | 19300 | 11580 | 8490 | 6950 | M36–M72 |
| PA7-600-10-530 | 609.6 | 24 | 86 | 30 | 26 | 1 | 140 | 294 | 410 | 1200 | 2500 | 505.6 | 1019.6 | 26700 | 26700 | 26700 | 26700 | 16020 | 11750 | 9610 | M36–M80 |
| PA7-600-11-530 | 609.6 | 24 | 86 | 35 | -10 | -3/8 | 140 | 330 | 450 | 1200 | 2500 | 603.5 | 1253.8 | 36000 | 36000 | 36000 | 36000 | 21600 | 15840 | 12960 | M36–M80 |
| PA7-600-12-530 | 609.6 | 24 | 86 | 40 | -10 | -3/8 | 140 | 360 | 460 | 1200 | 2500 | 756.0 | 1542.3 | 46050 | 46050 | 46050 | 46050 | 27630 | 20260 | 16580 | M36–M80 |
| PA7-600-13-530 | 609.6 | 24 | 86 | 40 | -46 | -1 13/16 | 140 | 416 | 510 | 1200 | 2500 | 823.6 | 1753.5 | 56250 | 56250 | 56250 | 56250 | 33750 | 24750 | 20250 | M36–M80 |
| PA7-600-3-560 | 609.6 | 24 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 200 | 1000 | 2500 | 117.9 | 227.9 | 2020 | 2020 | 2020 | 2020 | 2020 | 1580 | 1170 | M8–M24 |
| PA7-600-4-560 | 609.6 | 24 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 220 | 1000 | 2500 | 143.4 | 299.3 | 3160 | 3160 | 3160 | 3160 | 3160 | 2460 | 1830 | M8–M30 |
| PA7-600-5-560 | 609.6 | 24 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 240 | 1000 | 2500 | 170.2 | 387.4 | 4560 | 4560 | 4560 | 4560 | 4560 | 3560 | 2640 | M12–M36 |
| PA7-600-6-560 | 609.6 | 24 | 52 | 16 | -3 | -1/8 | 85 | 208 | 300 | 1000 | 2500 | 236.7 | 488.4 | 7300 | 7300 | 7300 | 7300 | 7300 | 5690 | 4230 | M20–M48 |
| PA7-600-7-560 | 609.6 | 24 | 60 | 20 | 12 | 1/2 | 100 | 240 | 330 | 1100 | 2500 | 301.8 | 604.2 | 10680 | 10680 | 10680 | 10680 | 10680 | 8330 | 6190 | M24–M56 |
| PA7-600-8-560 | 609.6 | 24 | 68 | 25 | 32 | 1 1/4 | 115 | 250 | 350 | 1100 | 2500 | 379.3 | 746.5 | 14800 | 14800 | 14800 | 14800 | 14800 | 11540 | 8580 | M36–M64 |
| PA7-600-9-560 | 609.6 | 24 | 76 | 25 | 11 | 7/16 | 130 | 300 | 400 | 1200 | 2500 | 472.1 | 879.7 | 19300 | 19300 | 19300 | 19300 | 19300 | 15050 | 11190 | M36–M72 |
| PA7-600-10-560 | 609.6 | 24 | 86 | 30 | 26 | 1 | 140 | 320 | 440 | 1200 | 2500 | 562.1 | 1071.0 | 26700 | 26700 | 26700 | 26700 | 26700 | 20830 | 15490 | M36–M80 |
| PA7-600-11-560 | 609.6 | 24 | 86 | 35 | -10 | -3/8 | 140 | 340 | 480 | 1200 | 2500 | 673.7 | 1311.0 | 36000 | 36000 | 36000 | 36000 | 36000 | 28080 | 20880 | M36–M80 |
| PA7-600-12-560 | 609.6 | 24 | 86 | 40 | -10 | -3/8 | 140 | 380 | 490 | 1200 | 2500 | 774.1 | 1649.5 | 46050 | 46050 | 46050 | 46050 | 46050 | 35920 | 26710 | M36–M80 |
| PA7-600-13-560 | 609.6 | 24 | 86 | 40 | -46 | -1 13/16 | 140 | 420 | 540 | 1300 | 2500 | 997.8 | 1823.8 | 56250 | 56250 | 56250 | 56250 | 56250 | 43880 | 32630 | M36–M80 |
| PA7-600-3-600 | 609.6 | 24 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 220 | 1000 | 2500 | 135.1 | 289.4 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | M8–M24 |
| PA7-600-4-600 | 609.6 | 24 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 250 | 1000 | 2500 | 173.4 | 397.5 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | M8–M30 |
| PA7-600-5-600 | 609.6 | 24 | 39 | 12 | -28 | -1 1/8 | 65 | 190 | 290 | 1000 | 2500 | 220.1 | 458.4 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | M12–M36 |
| PA7-600-6-600 | 609.6 | 24 | 52 | 16 | -3 | -1/8 | 85 | 250 | 340 | 1000 | 2500 | 296.8 | 615.0 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | M20–M48 |
| PA7-600-7-600 | 609.6 | 24 | 60 | 20 | 12 | 1/2 | 100 | 270 | 370 | 1100 | 2500 | 373.3 | 755.2 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | M24–M56 |
| PA7-600-8-600 | 609.6 | 24 | 68 | 25 | 32 | 1 1/4 | 115 | 280 | 400 | 1100 | 2500 | 446.3 | 952.2 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | M36–M64 |
| PA7-600-9-600 | 609.6 | 24 | 76 | 25 | 11 | 7/16 | 130 | 340 | 430 | 1200 | 2500 | 572.4 | 1172.2 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | M36–M72 |
| PA7-600-10-600 | 609.6 | 24 | 86 | 30 | 26 | 1 | 140 | 360 | 500 | 1200 | 2500 | 689.6 | 1310.3 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | M36–M80 |
| PA7-600-11-600 | 609.6 | 24 | 86 | 35 | -10 | -3/8 | 140 | 390 | 510 | 1200 | 2500 | 864.1 | 1651.4 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | M36–M80 |
| PA7-600-12-600 | 609.6 | 24 | 86 | 40 | -10 | -3/8 | 140 | 440 | 570 | 1200 | 2500 | 986.2 | 1872.6 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | M36–M80 |
| PA7-600-13-600 | 609.6 | 24 | 86 | 40 | -46 | -1 13/16 | 140 | 470 | 560 | 1300 | 2500 | 1151.7 | 2162.9 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | M36–M80 |

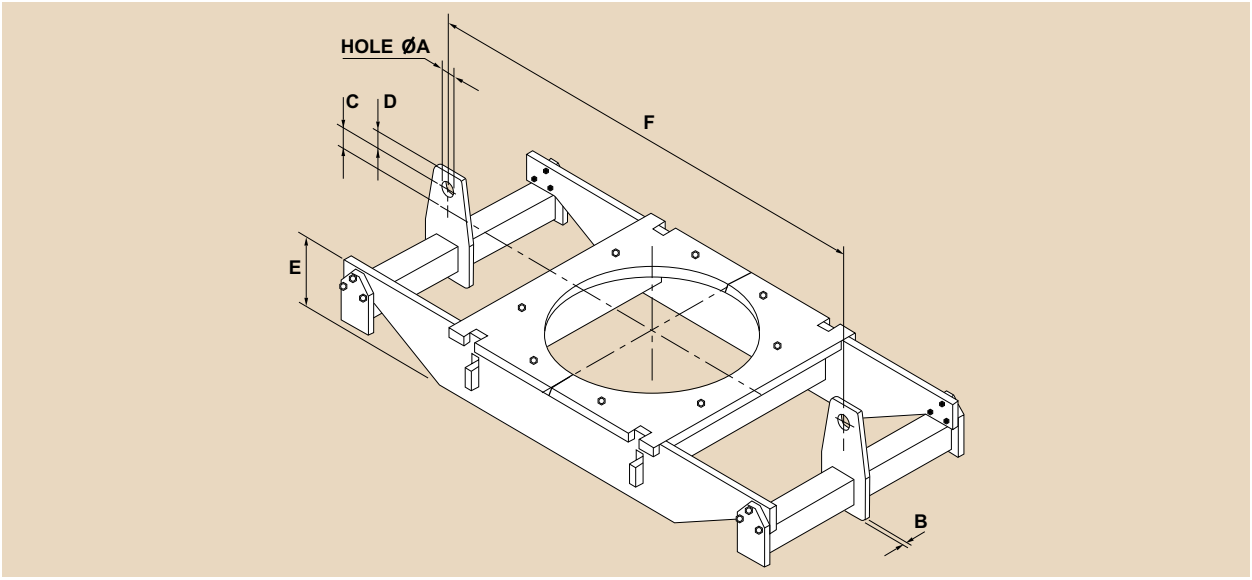
# PA7 RISER CLAMP FLAT PLATE TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C End Beams and Lugs: Carbon Steel. Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | D | E | | F | | Weight kg | | Load Capacity (kg) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA7-650-3-400 | 660.4 | 26 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 180 | 1000 | 3000 | 98.0 | 229.1 | 2020 | 2020 | | | | | | M8–M24 |
| PA7-650-4-400 | 660.4 | 26 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 200 | 1000 | 3000 | 137.0 | 323.7 | 3160 | 3160 | | | | | | M8–M30 |
| PA7-650-5-400 | 660.4 | 26 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 240 | 1100 | 3000 | 159.2 | 367.0 | 4560 | 4560 | | | | | | M12–M36 |
| PA7-650-6-400 | 660.4 | 26 | 52 | 16 | -3 | -1/8 | 85 | 208 | 280 | 1100 | 3000 | 208.7 | 517.3 | 7300 | 7300 | | | | | | M20–M48 |
| PA7-650-7-400 | 660.4 | 26 | 60 | 20 | 12 | 1/2 | 100 | 228 | 310 | 1100 | 3000 | 281.5 | 663.3 | 10680 | 10680 | | | | | | M24–M56 |
| PA7-650-8-400 | 660.4 | 26 | 68 | 25 | 32 | 1 1/4 | 115 | 240 | 340 | 1200 | 3000 | 331.3 | 821.4 | 14800 | 14800 | | | | | | M36–M64 |
| PA7-650-9-400 | 660.4 | 26 | 76 | 25 | 11 | 7/16 | 130 | 294 | 390 | 1200 | 3000 | 425.3 | 969.4 | 19300 | 19300 | | | | | | M36–M72 |
| PA7-650-10-400 | 660.4 | 26 | 86 | 30 | 26 | 1 | 140 | 300 | 440 | 1200 | 3000 | 519.1 | 1236.5 | 26700 | 26700 | | | | | | M36–M80 |
| PA7-650-11-400 | 660.4 | 26 | 86 | 35 | -10 | -3/8 | 140 | 330 | 490 | 1200 | 3000 | 635.6 | 1520.3 | 36000 | 36000 | | | | | | M36–M80 |
| PA7-650-12-400 | 660.4 | 26 | 86 | 40 | -10 | -3/8 | 140 | 380 | 510 | 1300 | 3000 | 846.3 | 1968.4 | 46050 | 46050 | | | | | | M36–M80 |
| PA7-650-13-400 | 660.4 | 26 | 86 | 40 | -46 | -1 13/16 | 140 | 416 | 550 | 1300 | 3000 | 880.2 | 2097.9 | 56250 | 56250 | | | | | | M36–M80 |
| PA7-650-3-490 | 660.4 | 26 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 180 | 1000 | 3000 | 98.0 | 229.1 | 2020 | 2020 | 2020 | 1310 | 790 | 570 | 480 | M8–M24 |
| PA7-650-4-490 | 660.4 | 26 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 200 | 1000 | 3000 | 137.0 | 323.7 | 3160 | 3160 | 3160 | 2050 | 1230 | 880 | 760 | M8–M30 |
| PA7-650-5-490 | 660.4 | 26 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 240 | 1100 | 3000 | 159.2 | 367.0 | 4560 | 4560 | 4560 | 2960 | 1780 | 1280 | 1090 | M12–M36 |
| PA7-650-6-490 | 660.4 | 26 | 52 | 16 | -3 | -1/8 | 85 | 208 | 270 | 1100 | 3000 | 208.7 | 504.2 | 7300 | 7300 | 7300 | 4750 | 2850 | 2040 | 1750 | M20–M48 |
| PA7-650-7-490 | 660.4 | 26 | 60 | 20 | 12 | 1/2 | 100 | 228 | 310 | 1100 | 3000 | 281.5 | 663.3 | 10680 | 10680 | 10680 | 6940 | 4170 | 2990 | 2560 | M24–M56 |
| PA7-650-8-490 | 660.4 | 26 | 68 | 25 | 32 | 1 1/4 | 115 | 230 | 340 | 1200 | 3000 | 325.6 | 821.4 | 14800 | 14800 | 14800 | 9620 | 5770 | 4140 | 3550 | M36–M64 |
| PA7-650-9-490 | 660.4 | 26 | 76 | 25 | 11 | 7/16 | 130 | 294 | 390 | 1200 | 3000 | 425.3 | 969.4 | 19300 | 19300 | 19300 | 12550 | 7530 | 5400 | 4630 | M36–M72 |
| PA7-650-10-490 | 660.4 | 26 | 86 | 30 | 26 | 1 | 140 | 300 | 430 | 1200 | 3000 | 519.1 | 1216.3 | 26700 | 26700 | 26700 | 17360 | 10410 | 7480 | 6410 | M36–M80 |
| PA7-650-11-490 | 660.4 | 26 | 86 | 35 | -10 | -3/8 | 140 | 330 | 480 | 1200 | 3000 | 635.6 | 1498.7 | 36000 | 36000 | 36000 | 23400 | 14040 | 10080 | 8640 | M36–M80 |
| PA7-650-12-490 | 660.4 | 26 | 86 | 40 | -10 | -3/8 | 140 | 380 | 490 | 1300 | 3000 | 787.4 | 1870.6 | 46050 | 46050 | 46050 | 29930 | 17960 | 12890 | 11050 | M36–M80 |
| PA7-650-13-490 | 660.4 | 26 | 86 | 40 | -46 | -1 13/16 | 140 | 416 | 550 | 1300 | 3000 | 880.2 | 2097.9 | 56250 | 56250 | 56250 | 36560 | 21940 | 15750 | 13500 | M36–M80 |
| PA7-650-3-530 | 660.4 | 26 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 190 | 1000 | 3000 | 106.4 | 237.4 | 2020 | 2020 | 2020 | 2020 | 1210 | 890 | 730 | M8–M24 |
| PA7-650-4-530 | 660.4 | 26 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 220 | 1100 | 3000 | 154.4 | 345.1 | 3160 | 3160 | 3160 | 3160 | 1900 | 1390 | 1140 | M8–M30 |
| PA7-650-5-530 | 660.4 | 26 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 240 | 1100 | 3000 | 184.9 | 446.6 | 4560 | 4560 | 4560 | 4560 | 2740 | 2010 | 1640 | M12–M36 |
| PA7-650-6-530 | 660.4 | 26 | 52 | 16 | -3 | -1/8 | 85 | 208 | 300 | 1100 | 3000 | 234.5 | 562.1 | 7300 | 7300 | 7300 | 7300 | 4380 | 3210 | 2630 | M20–M48 |
| PA7-650-7-530 | 660.4 | 26 | 60 | 20 | 12 | 1/2 | 100 | 228 | 330 | 1100 | 3000 | 310.2 | 712.7 | 10680 | 10680 | 10680 | 10680 | 6410 | 4700 | 3840 | M24–M56 |
| PA7-650-8-530 | 660.4 | 26 | 68 | 25 | 32 | 1 1/4 | 115 | 230 | 360 | 1200 | 3000 | 383.7 | 875.9 | 14800 | 14800 | 14800 | 14800 | 8880 | 6510 | 5330 | M36–M64 |
| PA7-650-9-530 | 660.4 | 26 | 76 | 25 | 11 | 7/16 | 130 | 294 | 390 | 1200 | 3000 | 464.2 | 1100.3 | 19300 | 19300 | 19300 | 19300 | 11580 | 8490 | 6950 | M36–M72 |
| PA7-650-10-530 | 660.4 | 26 | 86 | 30 | 26 | 1 | 140 | 294 | 450 | 1200 | 3000 | 548.6 | 1255.9 | 26700 | 26700 | 26700 | 26700 | 16020 | 11750 | 9610 | M36–M80 |
| PA7-650-11-530 | 660.4 | 26 | 86 | 35 | -10 | -3/8 | 140 | 340 | 500 | 1200 | 3000 | 651.4 | 1542.9 | 36000 | 36000 | 36000 | 36000 | 21600 | 15840 | 12960 | M36–M80 |
| PA7-650-12-530 | 660.4 | 26 | 86 | 40 | -10 | -3/8 | 140 | 380 | 520 | 1300 | 3000 | 855.7 | 1996.0 | 46050 | 46050 | 46050 | 46050 | 27630 | 20260 | 16580 | M36–M80 |
| PA7-650-13-530 | 660.4 | 26 | 86 | 40 | -46 | -1 13/16 | 140 | 416 | 560 | 1300 | 3000 | 967.3 | 2125.5 | 56250 | 56250 | 56250 | 56250 | 33750 | 24750 | 20250 | M36–M80 |
| PA7-650-3-560 | 660.4 | 26 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 200 | 1000 | 3000 | 129.3 | 313.7 | 2020 | 2020 | 2020 | 2020 | 2020 | 1580 | 1170 | M8–M24 |
| PA7-650-4-560 | 660.4 | 26 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 240 | 1100 | 3000 | 184.2 | 366.4 | 3160 | 3160 | 3160 | 3160 | 3160 | 2460 | 1830 | M8–M30 |
| PA7-650-5-560 | 660.4 | 26 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 260 | 1100 | 3000 | 192.9 | 472.3 | 4560 | 4560 | 4560 | 4560 | 4560 | 3560 | 2640 | M12–M36 |
| PA7-650-6-560 | 660.4 | 26 | 52 | 16 | -3 | -1/8 | 85 | 208 | 300 | 1100 | 3000 | 266.2 | 630.5 | 7300 | 7300 | 7300 | 7300 | 7300 | 5690 | 4230 | M20–M48 |
| PA7-650-7-560 | 660.4 | 26 | 60 | 20 | 12 | 1/2 | 100 | 250 | 330 | 1100 | 3000 | 343.8 | 799.9 | 10680 | 10680 | 10680 | 10680 | 10680 | 8330 | 6190 | M24–M56 |
| PA7-650-8-560 | 660.4 | 26 | 68 | 25 | 32 | 1 1/4 | 115 | 260 | 390 | 1200 | 3000 | 422.8 | 927.8 | 14800 | 14800 | 14800 | 14800 | 14800 | 11540 | 8580 | M36–M64 |
| PA7-650-9-560 | 660.4 | 26 | 76 | 25 | 11 | 7/16 | 130 | 300 | 410 | 1200 | 3000 | 503.6 | 1139.9 | 19300 | 19300 | 19300 | 19300 | 19300 | 15050 | 11190 | M36–M72 |
| PA7-650-10-560 | 660.4 | 26 | 86 | 30 | 26 | 1 | 140 | 330 | 460 | 1200 | 3000 | 618.1 | 1425.3 | 26700 | 26700 | 26700 | 26700 | 26700 | 20830 | 15490 | M36–M80 |
| PA7-650-11-560 | 660.4 | 26 | 86 | 35 | -10 | -3/8 | 140 | 360 | 480 | 1300 | 3000 | 789.4 | 1764.1 | 36000 | 36000 | 36000 | 36000 | 36000 | 28080 | 20880 | M36–M80 |
| PA7-650-12-560 | 660.4 | 26 | 86 | 40 | -10 | -3/8 | 140 | 400 | 540 | 1300 | 3000 | 885.5 | 2050.0 | 46050 | 46050 | 46050 | 46050 | 46050 | 35920 | 26710 | M36–M80 |
| PA7-650-13-560 | 660.4 | 26 | 86 | 40 | -46 | -1 13/16 | 140 | 416 | 600 | 1300 | 3000 | 1041.7 | 2277.3 | 56250 | 56250 | 56250 | 56250 | 56250 | 43880 | 32630 | M36–M80 |
| PA7-650-3-600 | 660.4 | 26 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 240 | 1000 | 3000 | 171.8 | 356.1 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | M8–M24 |
| PA7-650-4-600 | 660.4 | 26 | 33 | 10 | -38 | -1 1/2 | 55 | 200 | 270 | 1100 | 3000 | 217.9 | 484.3 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | M8–M30 |
| PA7-650-5-600 | 660.4 | 26 | 39 | 12 | -28 | -1 1/8 | 65 | 200 | 300 | 1100 | 3000 | 248.8 | 610.5 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | M12–M36 |
| PA7-650-6-600 | 660.4 | 26 | 52 | 16 | -3 | -1/8 | 85 | 230 | 340 | 1100 | 3000 | 354.8 | 797.7 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | M20–M48 |
| PA7-650-7-600 | 660.4 | 26 | 60 | 20 | 12 | 1/2 | 100 | 280 | 380 | 1200 | 3000 | 432.3 | 1010.4 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | M24–M56 |
| PA7-650-8-600 | 660.4 | 26 | 68 | 25 | 32 | 1 1/4 | 115 | 290 | 440 | 1200 | 3000 | 497.2 | 1173.7 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | M36–M64 |
| PA7-650-9-600 | 660.4 | 26 | 76 | 25 | 11 | 7/16 | 130 | 340 | 470 | 1200 | 3000 | 610.7 | 1430.8 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | M36–M72 |
| PA7-650-10-600 | 660.4 | 26 | 86 | 30 | 26 | 1 | 140 | 380 | 480 | 1300 | 3000 | 781.4 | 1730.8 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | M36–M80 |
| PA7-650-11-600 | 660.4 | 26 | 86 | 35 | -10 | -3/8 | 140 | 410 | 560 | 1300 | 3000 | 960.8 | 2021.2 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | M36–M80 |
| PA7-650-12-600 | 660.4 | 26 | 86 | 40 | -10 | -3/8 | 140 | 430 | 560 | 1300 | 3000 | 1147.5 | 2436.3 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | M36–M80 |
| PA7-650-13-600 | 660.4 | 26 | 86 | 40 | -46 | -1 13/16 | 140 | 460 | 560 | 1300 | 3000 | 1201.8 | 2773.3 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | M36–M80 |

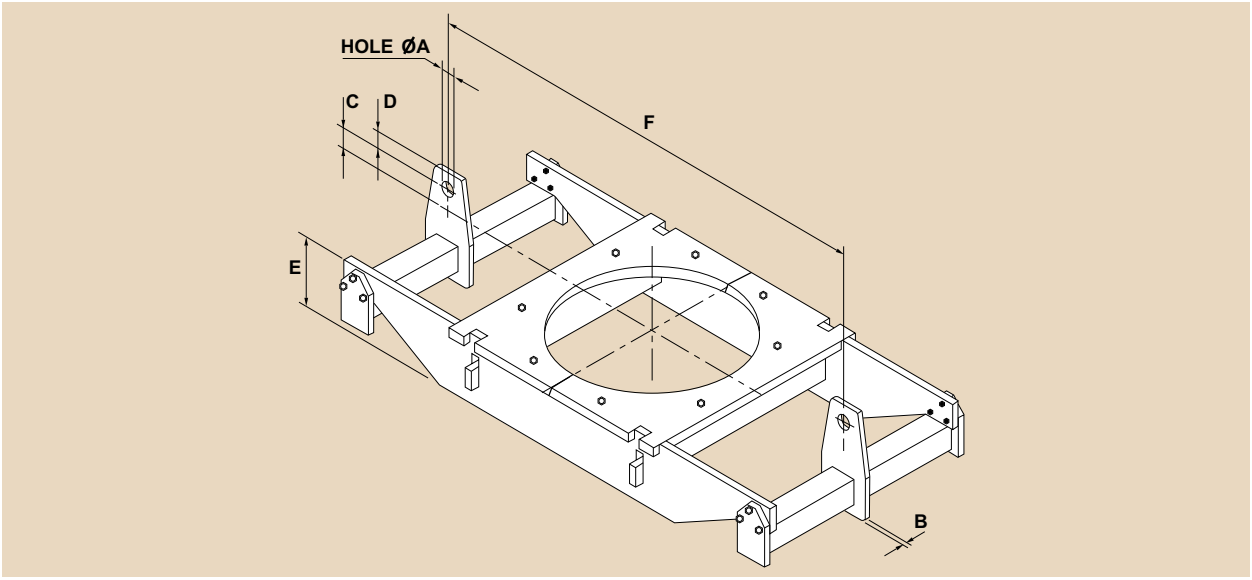
# PA7 RISER CLAMP FLAT PLATE TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C End Beams and Lugs: Carbon Steel. Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | D | E | | F | | Weight kgf | | Load Capacity (kgf) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA7 -700-3-400 | 711.2 | 28 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 180 | 1100 | 3000 | 117.8 | 239.3 | 2020 | 2020 | | | | | | M8–M24 |
| PA7-700-4-400 | 711.2 | 28 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 200 | 1100 | 3000 | 154.6 | 337.7 | 3160 | 3160 | | | | | | M8–M30 |
| PA7-700-5-400 | 711.2 | 28 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 240 | 1100 | 3000 | 176.0 | 381.4 | 4560 | 4560 | | | | | | M12–M36 |
| PA7-700-6-400 | 711.2 | 28 | 52 | 16 | -3 | -1/8 | 85 | 208 | 270 | 1100 | 3000 | 253.6 | 523.1 | 7300 | 7300 | | | | | | M20–M48 |
| PA7-700-7-400 | 711.2 | 28 | 60 | 20 | 12 | 1/2 | 100 | 228 | 310 | 1200 | 3000 | 334.0 | 686.3 | 10680 | 10680 | | | | | | M24–M56 |
| PA7-700-8-400 | 711.2 | 28 | 68 | 25 | 32 | 1 1/4 | 115 | 258 | 340 | 1200 | 3000 | 403.5 | 878.5 | 14800 | 14800 | | | | | | M36–M64 |
| PA7-700-9-400 | 711.2 | 28 | 76 | 25 | 11 | 7/16 | 130 | 294 | 390 | 1300 | 3000 | 497.4 | 1001.1 | 19300 | 19300 | | | | | | M36–M72 |
| PA7-700-10-400 | 711.2 | 28 | 86 | 30 | 26 | 1 | 140 | 294 | 430 | 1300 | 3000 | 587.0 | 1256.1 | 26700 | 26700 | | | | | | M36–M80 |
| PA7-700-11-400 | 711.2 | 28 | 86 | 35 | -10 | -3/8 | 140 | 360 | 480 | 1300 | 3000 | 720.0 | 1579.5 | 36000 | 36000 | | | | | | M36–M80 |
| PA7-700-12-400 | 711.2 | 28 | 86 | 40 | -10 | -3/8 | 140 | 380 | 500 | 1400 | 3000 | 922.9 | 2000.8 | 46050 | 46050 | | | | | | M36–M80 |
| PA7-700-13-400 | 711.2 | 28 | 86 | 40 | -46 | -1 13/16 | 140 | 416 | 550 | 1400 | 3000 | 986.9 | 2176.9 | 56250 | 56250 | | | | | | M36–M80 |
| PA7-700-3-490 | 711.2 | 28 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 180 | 1100 | 3000 | 114.6 | 239.3 | 2020 | 2020 | 2020 | 1310 | 790 | 570 | 480 | M8–M24 |
| PA7-700-4-490 | 711.2 | 28 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 200 | 1100 | 3000 | 154.6 | 337.7 | 3160 | 3160 | 3160 | 2050 | 1230 | 880 | 760 | M8–M30 |
| PA7-700-5-490 | 711.2 | 28 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 240 | 1100 | 3000 | 176.0 | 381.4 | 4560 | 4560 | 4560 | 2960 | 1780 | 1280 | 1090 | M12–M36 |
| PA7-700-6-490 | 711.2 | 28 | 52 | 16 | -3 | -1/8 | 85 | 208 | 270 | 1100 | 3000 | 229.1 | 523.1 | 7300 | 7300 | 7300 | 4750 | 2850 | 2040 | 1750 | M20–M48 |
| PA7-700-7-490 | 711.2 | 28 | 60 | 20 | 12 | 1/2 | 100 | 228 | 300 | 1200 | 3000 | 307.8 | 671.3 | 10680 | 10680 | 10680 | 6940 | 4170 | 2990 | 2560 | M24–M56 |
| PA7-700-8-490 | 711.2 | 28 | 68 | 25 | 32 | 1 1/4 | 115 | 258 | 340 | 1200 | 3000 | 403.5 | 878.5 | 14800 | 14800 | 14800 | 9620 | 5770 | 4140 | 3550 | M36–M64 |
| PA7-700-9-490 | 711.2 | 28 | 76 | 25 | 11 | 7/16 | 130 | 294 | 380 | 1300 | 3000 | 468.3 | 983.8 | 19300 | 19300 | 19300 | 12550 | 7530 | 5400 | 4630 | M36–M72 |
| PA7-700-10-490 | 711.2 | 28 | 86 | 30 | 26 | 1 | 140 | 300 | 430 | 1300 | 3000 | 564.1 | 1256.1 | 26700 | 26700 | 26700 | 17360 | 10410 | 7480 | 6410 | M36–M80 |
| PA7-700-11-490 | 711.2 | 28 | 86 | 35 | -10 | -3/8 | 140 | 360 | 470 | 1300 | 3000 | 720.0 | 1556.5 | 36000 | 36000 | 36000 | 23400 | 14040 | 10080 | 8640 | M36–M80 |
| PA7-700-12-490 | 711.2 | 28 | 86 | 40 | -10 | -3/8 | 140 | 380 | 500 | 1400 | 3000 | 912.9 | 2000.8 | 46050 | 46050 | 46050 | 29930 | 17960 | 12890 | 11050 | M36–M80 |
| PA7-700-13-490 | 711.2 | 28 | 86 | 40 | -46 | -1 13/16 | 140 | 416 | 540 | 1400 | 3000 | 976.1 | 2150.3 | 56250 | 56250 | 56250 | 36560 | 21940 | 15750 | 13500 | M36–M80 |
| PA7-700-3-530 | 711.2 | 28 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 190 | 1100 | 3000 | 120.7 | 247.7 | 2020 | 2020 | 2020 | 2020 | 1210 | 890 | 730 | M8–M24 |
| PA7-700-4-530 | 711.2 | 28 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 220 | 1100 | 3000 | 171.4 | 359.3 | 3160 | 3160 | 3160 | 3160 | 1900 | 1390 | 1140 | M8–M30 |
| PA7-700-5-530 | 711.2 | 28 | 39 | 12 | -28 | -1 1/8 | 65 | 188 | 240 | 1100 | 3000 | 204.3 | 464.5 | 4560 | 4560 | 4560 | 4560 | 2740 | 2010 | 1640 | M12–M36 |
| PA7-700-6-530 | 711.2 | 28 | 52 | 16 | -3 | -1/8 | 85 | 208 | 300 | 1200 | 3000 | 281.0 | 584.1 | 7300 | 7300 | 7300 | 7300 | 4380 | 3210 | 2630 | M20–M48 |
| PA7-700-7-530 | 711.2 | 28 | 60 | 20 | 12 | 1/2 | 100 | 230 | 330 | 1200 | 3000 | 345.2 | 738.6 | 10680 | 10680 | 10680 | 10680 | 6410 | 4700 | 3840 | M24–M56 |
| PA7-700-8-530 | 711.2 | 28 | 68 | 25 | 32 | 1 1/4 | 115 | 258 | 360 | 1300 | 3000 | 451.1 | 936.3 | 14800 | 14800 | 14800 | 14800 | 8880 | 6510 | 5330 | M36–M64 |
| PA7-700-9-530 | 711.2 | 28 | 76 | 25 | 11 | 7/16 | 130 | 294 | 380 | 1300 | 3000 | 511.8 | 1116.3 | 19300 | 19300 | 19300 | 19300 | 11580 | 8490 | 6950 | M36–M72 |
| PA7-700-10-530 | 711.2 | 28 | 86 | 30 | 26 | 1 | 140 | 300 | 450 | 1300 | 3000 | 603.9 | 1296.1 | 26700 | 26700 | 26700 | 26700 | 16020 | 11750 | 9610 | M36–M80 |
| PA7-700-11-530 | 711.2 | 28 | 86 | 35 | -10 | -3/8 | 140 | 360 | 490 | 1300 | 3000 | 737.2 | 1601.4 | 36000 | 36000 | 36000 | 36000 | 21600 | 15840 | 12960 | M36–M80 |
| PA7-700-12-530 | 711.2 | 28 | 86 | 40 | -10 | -3/8 | 140 | 380 | 510 | 1400 | 3000 | 933.8 | 2027.4 | 46050 | 46050 | 46050 | 46050 | 27630 | 20260 | 16580 | M36–M80 |
| PA7-700-13-530 | 711.2 | 28 | 86 | 40 | -46 | -1 13/16 | 140 | 416 | 560 | 1400 | 3000 | 1127.6 | 2204.8 | 56250 | 56250 | 56250 | 56250 | 33750 | 24750 | 20250 | M36–M80 |
| PA7-700-3-560 | 711.2 | 28 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 200 | 1100 | 3000 | 146.5 | 327.3 | 2020 | 2020 | 2020 | 2020 | 2020 | 1580 | 1170 | M8–M24 |
| PA7-700-4-560 | 711.2 | 28 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 250 | 1100 | 3000 | 199.8 | 412.2 | 3160 | 3160 | 3160 | 3160 | 3160 | 2460 | 1830 | M8–M30 |
| PA7-700-5-560 | 711.2 | 28 | 39 | 12 | -28 | -1 1/8 | 65 | 190 | 260 | 1100 | 3000 | 212.6 | 490.4 | 4560 | 4560 | 4560 | 4560 | 4560 | 3560 | 2640 | M12–M36 |
| PA7-700-6-560 | 711.2 | 28 | 52 | 16 | -3 | -1/8 | 85 | 210 | 300 | 1200 | 3000 | 318.2 | 652.9 | 7300 | 7300 | 7300 | 7300 | 7300 | 5690 | 4230 | M20–M48 |
| PA7-700-7-560 | 711.2 | 28 | 60 | 20 | 12 | 1/2 | 100 | 230 | 330 | 1200 | 3000 | 406.9 | 827.2 | 10680 | 10680 | 10680 | 10680 | 10680 | 8330 | 6190 | M24–M56 |
| PA7-700-8-560 | 711.2 | 28 | 68 | 25 | 32 | 1 1/4 | 115 | 270 | 390 | 1300 | 3000 | 494.0 | 1011.5 | 14800 | 14800 | 14800 | 14800 | 14800 | 11540 | 8580 | M36–M64 |
| PA7-700-9-560 | 711.2 | 28 | 76 | 25 | 11 | 7/16 | 130 | 294 | 410 | 1300 | 3000 | 570.7 | 1175.9 | 19300 | 19300 | 19300 | 19300 | 19300 | 15050 | 11190 | M36–M72 |
| PA7-700-10-560 | 711.2 | 28 | 86 | 30 | 26 | 1 | 140 | 340 | 460 | 1300 | 3000 | 680.9 | 1472.9 | 26700 | 26700 | 26700 | 26700 | 26700 | 20830 | 15490 | M36–M80 |
| PA7-700-11-560 | 711.2 | 28 | 86 | 35 | -10 | -3/8 | 140 | 360 | 470 | 1300 | 3000 | 864.3 | 1827.6 | 36000 | 36000 | 36000 | 36000 | 36000 | 28080 | 20880 | M36–M80 |
| PA7-700-12-560 | 711.2 | 28 | 86 | 40 | -10 | -3/8 | 140 | 380 | 540 | 1400 | 3000 | 1022.0 | 2109.9 | 46050 | 46050 | 46050 | 46050 | 46050 | 35920 | 26710 | M36–M80 |
| PA7-700-13-560 | 711.2 | 28 | 86 | 40 | -46 | -1 13/16 | 140 | 430 | 590 | 1400 | 3000 | 1162.5 | 2335.4 | 56250 | 56250 | 56250 | 56250 | 56250 | 43880 | 32630 | M36–M80 |
| PA7-700-3-600 | 711.2 | 28 | 26 | 10 | -48 | -1 7/8 | 45 | 168 | 250 | 1100 | 3000 | 190.9 | 401.6 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | M8–M24 |
| PA7-700-4-600 | 711.2 | 28 | 33 | 10 | -38 | -1 1/2 | 55 | 200 | 270 | 1100 | 3000 | 236.4 | 502.5 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | M8–M30 |
| PA7-700-5-600 | 711.2 | 28 | 39 | 12 | -28 | -1 1/8 | 65 | 210 | 290 | 1100 | 3000 | 293.9 | 616.8 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | M12–M36 |
| PA7-700-6-600 | 711.2 | 28 | 52 | 16 | -3 | -1/8 | 85 | 240 | 340 | 1200 | 3000 | 396.4 | 824.8 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | M20–M48 |
| PA7-700-7-600 | 711.2 | 28 | 60 | 20 | 12 | 1/2 | 100 | 280 | 380 | 1200 | 3000 | 462.5 | 1066.0 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | M24–M56 |
| PA7-700-8-600 | 711.2 | 28 | 68 | 25 | 32 | 1 1/4 | 115 | 320 | 440 | 1300 | 3000 | 637.4 | 1246.2 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | M36–M64 |
| PA7-700-9-600 | 711.2 | 28 | 76 | 25 | 11 | 7/16 | 130 | 350 | 470 | 1300 | 3000 | 672.7 | 1478.0 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | M36–M72 |
| PA7-700-10-600 | 711.2 | 28 | 86 | 30 | 26 | 1 | 140 | 380 | 480 | 1300 | 3000 | 830.1 | 1782.2 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | M36–M80 |
| PA7-700-11-600 | 711.2 | 28 | 86 | 35 | -10 | -3/8 | 140 | 420 | 550 | 1400 | 3000 | 1081.5 | 2094.1 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | M36–M80 |
| PA7-700-12-600 | 711.2 | 28 | 86 | 40 | -10 | -3/8 | 140 | 440 | 560 | 1400 | 3000 | 1251.7 | 2504.3 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | M36–M80 |
| PA7-700-13-600 | 711.2 | 28 | 86 | 40 | -46 | -1 13/16 | 140 | 490 | 550 | 1400 | 3000 | 1399.2 | 2827.2 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | M36–M80 |

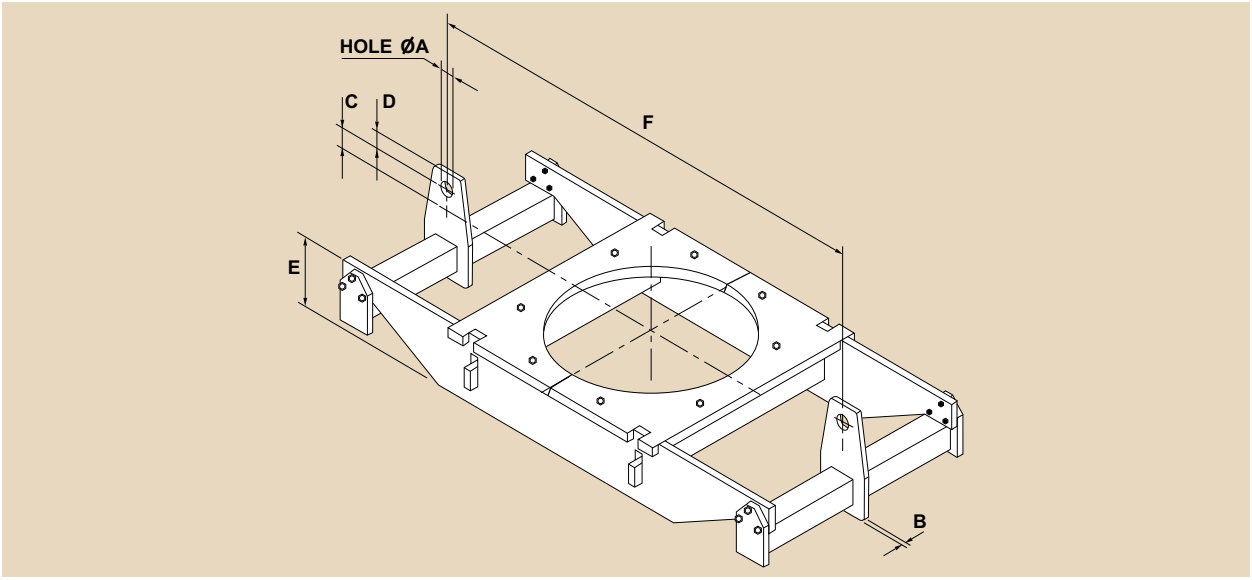
# PA7 RISER CLAMP FLAT PLATE TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C End Beams and Lugs: Carbon Steel. Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | D | E | | F | | Weight kg | | Load Capacity (kg) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA7-750-4-400 | 762 | 30 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 200 | 1200 | 3000 | 170.9 | 353.0 | 3160 | 3160 | | | | | | M8–M30 |
| PA7-750-5-400 | 762 | 30 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 230 | 1200 | 3000 | 236.6 | 403.1 | 4560 | 4560 | | | | | | M12–M36 |
| PA7-750-6-400 | 762 | 30 | 52 | 16 | -3 | -1/8 | 85 | 208 | 280 | 1200 | 3000 | 279.3 | 581.7 | 7300 | 7300 | | | | | | M20–M48 |
| PA7-750-7-400 | 762 | 30 | 60 | 20 | 12 | 1/2 | 100 | 228 | 310 | 1300 | 3000 | 371.6 | 736.1 | 10680 | 10680 | | | | | | M24–M56 |
| PA7-750-8-400 | 762 | 30 | 68 | 25 | 32 | 1 1/4 | 115 | 258 | 340 | 1300 | 3000 | 473.6 | 934.0 | 14800 | 14800 | | | | | | M36–M64 |
| PA7-750-9-400 | 762 | 30 | 76 | 25 | 11 | 7/16 | 130 | 294 | 390 | 1300 | 3000 | 537.8 | 1060.5 | 19300 | 19300 | | | | | | M36–M72 |
| PA7-750-10-400 | 762 | 30 | 86 | 30 | 26 | 1 | 140 | 294 | 430 | 1400 | 3000 | 659.0 | 1313.8 | 26700 | 26700 | | | | | | M36–M80 |
| PA7-750-11-400 | 762 | 30 | 86 | 35 | -10 | -3/8 | 140 | 360 | 480 | 1400 | 3000 | 788.6 | 1631.7 | 36000 | 36000 | | | | | | M36–M80 |
| PA7-750-12-400 | 762 | 30 | 86 | 40 | -10 | -3/8 | 140 | 380 | 500 | 1400 | 3000 | 976.4 | 2064.5 | 46050 | 46050 | | | | | | M36–M80 |
| PA7-750-13-400 | 762 | 30 | 86 | 40 | -46 | -1 13/16 | 140 | 416 | 540 | 1400 | 3000 | 1042.1 | 2216.1 | 56250 | 56250 | | | | | | M36–M80 |
| PA7-750-4-490 | 762 | 30 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 200 | 1200 | 3000 | 170.9 | 353.0 | 3160 | 3160 | 3160 | 2050 | 1230 | 880 | 760 | M8–M30 |
| PA7-750-5-490 | 762 | 30 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 230 | 1200 | 3000 | 208.9 | 403.1 | 4560 | 4560 | 4560 | 2960 | 1780 | 1280 | 1090 | M12–M36 |
| PA7-750-6-490 | 762 | 30 | 52 | 16 | -3 | -1/8 | 85 | 208 | 270 | 1200 | 3000 | 279.3 | 543.6 | 7300 | 7300 | 7300 | 4750 | 2850 | 2040 | 1750 | M20–M48 |
| PA7-750-7-490 | 762 | 30 | 60 | 20 | 12 | 1/2 | 100 | 228 | 300 | 1300 | 3000 | 371.6 | 696.4 | 10680 | 10680 | 10680 | 6940 | 4170 | 2990 | 2560 | M24–M56 |
| PA7-750-8-490 | 762 | 30 | 68 | 25 | 32 | 1 1/4 | 115 | 258 | 340 | 1300 | 3000 | 473.6 | 934.0 | 14800 | 14800 | 14800 | 9620 | 5770 | 4140 | 3550 | M36–M64 |
| PA7-750-9-490 | 762 | 30 | 76 | 25 | 11 | 7/16 | 130 | 294 | 380 | 1300 | 3000 | 537.8 | 1043.0 | 19300 | 19300 | 19300 | 12550 | 7530 | 5400 | 4630 | M36–M72 |
| PA7-750-10-490 | 762 | 30 | 86 | 30 | 26 | 1 | 140 | 294 | 420 | 1400 | 3000 | 659.0 | 1294.1 | 26700 | 26700 | 26700 | 17360 | 10410 | 7480 | 6410 | M36–M80 |
| PA7-750-11-490 | 762 | 30 | 86 | 35 | -10 | -3/8 | 140 | 360 | 470 | 1400 | 3000 | 788.6 | 1608.5 | 36000 | 36000 | 36000 | 23400 | 14040 | 10080 | 8640 | M36–M80 |
| PA7-750-12-490 | 762 | 30 | 86 | 40 | -10 | -3/8 | 140 | 380 | 490 | 1400 | 3000 | 976.4 | 2036.3 | 46050 | 46050 | 46050 | 29930 | 17960 | 12890 | 11050 | M36–M80 |
| PA7-750-13-490 | 762 | 30 | 86 | 40 | -46 | -1 13/16 | 140 | 416 | 540 | 1400 | 3000 | 1042.1 | 2216.1 | 56250 | 56250 | 56250 | 36560 | 21940 | 15750 | 13500 | M36–M80 |
| PA7-750-4-530 | 762 | 30 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 210 | 1200 | 3000 | 188.8 | 363.6 | 3160 | 3160 | 3160 | 3160 | 1900 | 1390 | 1140 | M8–M30 |
| PA7-750-5-530 | 762 | 30 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 230 | 1200 | 3000 | 240.9 | 489.2 | 4560 | 4560 | 4560 | 4560 | 2740 | 2010 | 1640 | M12–M36 |
| PA7-750-6-530 | 762 | 30 | 52 | 16 | -3 | -1/8 | 85 | 208 | 290 | 1200 | 3000 | 307.9 | 594.6 | 7300 | 7300 | 7300 | 7300 | 4380 | 3210 | 2630 | M20–M48 |
| PA7-750-7-530 | 762 | 30 | 60 | 20 | 12 | 1/2 | 100 | 230 | 330 | 1300 | 3000 | 377.4 | 767.1 | 10680 | 10680 | 10680 | 10680 | 6410 | 4700 | 3840 | M24–M56 |
| PA7-750-8-530 | 762 | 30 | 68 | 25 | 32 | 1 1/4 | 115 | 258 | 350 | 1300 | 3000 | 488.2 | 951.5 | 14800 | 14800 | 14800 | 14800 | 8880 | 6510 | 5330 | M36–M64 |
| PA7-750-9-530 | 762 | 30 | 76 | 25 | 11 | 7/16 | 130 | 294 | 400 | 1300 | 3000 | 545.4 | 1078.8 | 19300 | 19300 | 19300 | 19300 | 11580 | 8490 | 6950 | M36–M72 |
| PA7-750-10-530 | 762 | 30 | 86 | 30 | 26 | 1 | 140 | 320 | 440 | 1400 | 3000 | 735.5 | 1334.5 | 26700 | 26700 | 26700 | 26700 | 16020 | 11750 | 9610 | M36–M80 |
| PA7-750-11-530 | 762 | 30 | 86 | 35 | -10 | -3/8 | 140 | 360 | 490 | 1400 | 3000 | 851.4 | 1653.8 | 36000 | 36000 | 36000 | 36000 | 21600 | 15840 | 12960 | M36–M80 |
| PA7-750-12-530 | 762 | 30 | 86 | 40 | -10 | -3/8 | 140 | 380 | 510 | 1400 | 3000 | 987.4 | 2091.3 | 46050 | 46050 | 46050 | 46050 | 27630 | 20260 | 16580 | M36–M80 |
| PA7-750-13-530 | 762 | 30 | 86 | 40 | -46 | -1 13/16 | 140 | 416 | 550 | 1400 | 3000 | 1191.8 | 2443.0 | 56250 | 56250 | 56250 | 56250 | 33750 | 24750 | 20250 | M36–M80 |
| PA7-750-4-560 | 762 | 30 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 240 | 1200 | 3000 | 220.6 | 420.3 | 3160 | 3160 | 3160 | 3160 | 3160 | 2460 | 1830 | M8–M30 |
| PA7-750-5-560 | 762 | 30 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 260 | 1200 | 3000 | 277.6 | 529.0 | 4560 | 4560 | 4560 | 4560 | 4560 | 3560 | 2640 | M12–M36 |
| PA7-750-6-560 | 762 | 30 | 52 | 16 | -3 | -1/8 | 85 | 220 | 290 | 1200 | 3000 | 348.9 | 661.8 | 7300 | 7300 | 7300 | 7300 | 7300 | 5690 | 4230 | M20–M48 |
| PA7-750-7-560 | 762 | 30 | 60 | 20 | 12 | 1/2 | 100 | 240 | 330 | 1300 | 3000 | 451.9 | 856.6 | 10680 | 10680 | 10680 | 10680 | 10680 | 8330 | 6190 | M24–M56 |
| PA7-750-8-560 | 762 | 30 | 68 | 25 | 32 | 1 1/4 | 115 | 280 | 390 | 1300 | 3000 | 535.1 | 1048.4 | 14800 | 14800 | 14800 | 14800 | 14800 | 11540 | 8580 | M36–M64 |
| PA7-750-9-560 | 762 | 30 | 76 | 25 | 11 | 7/16 | 130 | 294 | 410 | 1300 | 3000 | 616.2 | 1242.0 | 19300 | 19300 | 19300 | 19300 | 19300 | 15050 | 11190 | M36–M72 |
| PA7-750-10-560 | 762 | 30 | 86 | 30 | 26 | 1 | 140 | 340 | 450 | 1400 | 3000 | 753.6 | 1515.1 | 26700 | 26700 | 26700 | 26700 | 26700 | 20830 | 15490 | M36–M80 |
| PA7-750-11-560 | 762 | 30 | 86 | 35 | -10 | -3/8 | 140 | 370 | 470 | 1400 | 3000 | 944.2 | 1883.6 | 36000 | 36000 | 36000 | 36000 | 36000 | 28080 | 20880 | M36–M80 |
| PA7-750-12-560 | 762 | 30 | 86 | 40 | -10 | -3/8 | 140 | 380 | 530 | 1400 | 3000 | 1078.4 | 2146.4 | 46050 | 46050 | 46050 | 46050 | 46050 | 35920 | 26710 | M36–M80 |
| PA7-750-13-560 | 762 | 30 | 86 | 40 | -46 | -1 13/16 | 140 | 430 | 590 | 1400 | 3000 | 1227.2 | 2408.9 | 56250 | 56250 | 56250 | 56250 | 56250 | 43880 | 32630 | M36–M80 |
| PA7-750-4-600 | 762 | 30 | 33 | 10 | 38 | -1 1/2 | 55 | 188 | 270 | 1200 | 3000 | 283.3 | 522.4 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | M8–M30 |
| PA7-750-5-600 | 762 | 30 | 39 | 12 | -28 | -1 1/8 | 65 | 220 | 290 | 1200 | 3000 | 347.1 | 660.1 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | M12–M36 |
| PA7-750-6-600 | 762 | 30 | 52 | 16 | -3 | -1/8 | 85 | 240 | 340 | 1200 | 3000 | 425.4 | 879.3 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | M20–M48 |
| PA7-750-7-600 | 762 | 30 | 60 | 20 | 12 | 1/2 | 100 | 300 | 400 | 1300 | 3000 | 544.4 | 1032.1 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | M24–M56 |
| PA7-750-8-600 | 762 | 30 | 68 | 25 | 32 | 1 1/4 | 115 | 320 | 440 | 1300 | 3000 | 681.2 | 1289.4 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | M36–M64 |
| PA7-750-9-600 | 762 | 30 | 76 | 25 | 11 | 7/16 | 130 | 330 | 460 | 1400 | 3000 | 780.2 | 1506.4 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | M36–M72 |
| PA7-750-10-600 | 762 | 30 | 86 | 30 | 26 | 1 | 140 | 390 | 470 | 1400 | 3000 | 924.2 | 1824.4 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | M36–M80 |
| PA7-750-11-600 | 762 | 30 | 86 | 35 | -10 | -3/8 | 140 | 420 | 540 | 1400 | 3000 | 1144.3 | 2131.8 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | M36–M80 |
| PA7-750-12-600 | 762 | 30 | 86 | 40 | -10 | -3/8 | 140 | 450 | 550 | 1500 | 3000 | 1361.1 | 2545.7 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | M36–M80 |
| PA7-750-13-600 | 762 | 30 | 86 | 40 | -46 | -1 13/16 | 140 | 500 | 540 | 1500 | 3000 | 1521.1 | 2869.3 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | M36–M80 |

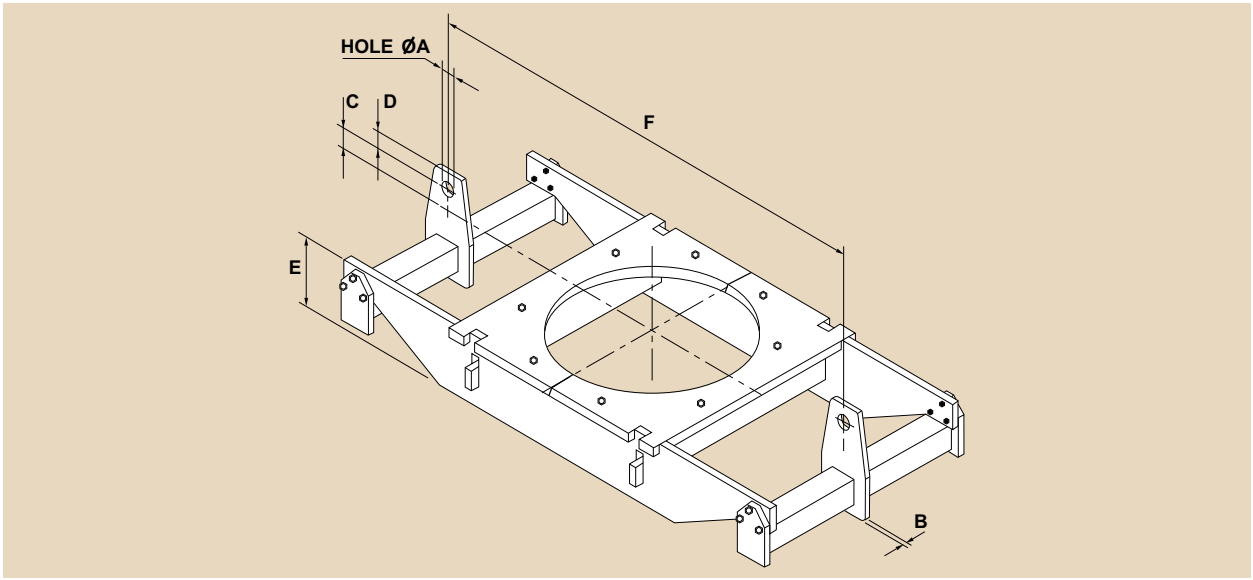
# PA7 RISER CLAMP FLAT PLATE TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C End Beams and Lugs: Carbon Steel. Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | D | E | | F | | Weight kg | | Load Capacity (kg) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA7-800-4-400 | 812.8 | 32 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 200 | 1200 | 3000 | 198.8 | 369.0 | 3160 | 3160 | | | | | | M8–M30 |
| PA7-800-5-400 | 812.8 | 32 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 240 | 1300 | 3000 | 259.1 | 458.4 | 4560 | 4560 | | | | | | M12–M36 |
| PA7-800-6-400 | 812.8 | 32 | 52 | 16 | -3 | -1/8 | 85 | 208 | 270 | 1300 | 3000 | 330.6 | 592.9 | 7300 | 7300 | | | | | | M20–M48 |
| PA7-800-7-400 | 812.8 | 32 | 60 | 20 | 12 | 1/2 | 100 | 228 | 310 | 1300 | 3000 | 398.3 | 765.6 | 10680 | 10680 | | | | | | M24–M56 |
| PA7-800-8-400 | 812.8 | 32 | 68 | 25 | 32 | 1 1/4 | 115 | 258 | 340 | 1400 | 3000 | 521.3 | 969.0 | 14800 | 14800 | | | | | | M36–M64 |
| PA7-800-9-400 | 812.8 | 32 | 76 | 25 | 11 | 7/16 | 130 | 294 | 380 | 1400 | 3000 | 590.6 | 1081.9 | 19300 | 19300 | | | | | | M36–M72 |
| PA7-800-10-400 | 812.8 | 32 | 86 | 30 | 26 | 1 | 140 | 300 | 420 | 1400 | 3000 | 709.4 | 1340.4 | 26700 | 26700 | | | | | | M36–M80 |
| PA7-800-11-400 | 812.8 | 32 | 86 | 35 | -10 | -3/8 | 140 | 360 | 470 | 1400 | 3000 | 845.4 | 1663.4 | 36000 | 36000 | | | | | | M36–M80 |
| PA7-800-12-400 | 812.8 | 32 | 86 | 40 | -10 | -3/8 | 140 | 380 | 490 | 1500 | 3000 | 1082.7 | 2122.8 | 46050 | 46050 | | | | | | M36–M80 |
| PA7-800-13-400 | 812.8 | 32 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 540 | 1600 | 3000 | 1378.4 | 2368.1 | 56250 | 56250 | | | | | | M36–M80 |
| PA7-800-4-490 | 812.8 | 32 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 200 | 1200 | 3000 | 198.8 | 369.0 | 3160 | 3160 | 3160 | 2050 | 1230 | 880 | 760 | M8–M30 |
| PA7-800-5-490 | 812.8 | 32 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 240 | 1300 | 3000 | 259.1 | 458.4 | 4560 | 4560 | 4560 | 2960 | 1780 | 1280 | 1090 | M12–M36 |
| PA7-800-6-490 | 812.8 | 32 | 52 | 16 | -3 | -1/8 | 85 | 208 | 270 | 1300 | 3000 | 330.6 | 592.9 | 7300 | 7300 | 7300 | 4750 | 2850 | 2040 | 1750 | M20–M48 |
| PA7-800-7-490 | 812.8 | 32 | 60 | 20 | 12 | 1/2 | 100 | 228 | 300 | 1300 | 3000 | 398.3 | 750.4 | 10680 | 10680 | 10680 | 6940 | 4170 | 2990 | 2560 | M24–M56 |
| PA7-800-8-490 | 812.8 | 32 | 68 | 25 | 32 | 1 1/4 | 115 | 258 | 350 | 1400 | 3000 | 521.3 | 887.8 | 14800 | 14800 | 14800 | 9620 | 5770 | 4140 | 3550 | M36–M64 |
| PA7-800-9-490 | 812.8 | 32 | 76 | 25 | 11 | 7/16 | 130 | 294 | 380 | 1400 | 3000 | 582.5 | 1081.9 | 19300 | 19300 | 19300 | 12550 | 7530 | 5400 | 4630 | M36–M72 |
| PA7-800-10-490 | 812.8 | 32 | 86 | 30 | 26 | 1 | 140 | 300 | 420 | 1400 | 3000 | 709.4 | 1340.4 | 26700 | 26700 | 26700 | 17360 | 10410 | 7480 | 6410 | M36–M80 |
| PA7-800-11-490 | 812.8 | 32 | 86 | 35 | -10 | -3/8 | 140 | 360 | 460 | 1400 | 3000 | 845.4 | 1641.1 | 36000 | 36000 | 36000 | 23400 | 14040 | 10080 | 8640 | M36–M80 |
| PA7-800-12-490 | 812.8 | 32 | 86 | 40 | -10 | -3/8 | 140 | 380 | 490 | 1500 | 3000 | 1082.7 | 2122.8 | 46050 | 46050 | 46050 | 29930 | 17960 | 12890 | 11050 | M36–M80 |
| PA7-800-13-490 | 812.8 | 32 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 530 | 1600 | 3000 | 1291.5 | 2339.3 | 56250 | 56250 | 56250 | 36560 | 21940 | 15750 | 13500 | M36–M80 |
| PA7-800-4-530 | 812.8 | 32 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 210 | 1200 | 3000 | 203.6 | 379.7 | 3160 | 3160 | 3160 | 3160 | 1900 | 1390 | 1140 | M8–M30 |
| PA7-800-5-530 | 812.8 | 32 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 250 | 1300 | 3000 | 268.7 | 469.2 | 4560 | 4560 | 4560 | 4560 | 2740 | 2010 | 1640 | M12–M36 |
| PA7-800-6-530 | 812.8 | 32 | 52 | 16 | -3 | -1/8 | 85 | 208 | 290 | 1300 | 3000 | 342.6 | 619.5 | 7300 | 7300 | 7300 | 7300 | 4380 | 3210 | 2630 | M20–M48 |
| PA7-800-7-530 | 812.8 | 32 | 60 | 20 | 12 | 1/2 | 100 | 240 | 320 | 1300 | 3000 | 410.5 | 781.6 | 10680 | 10680 | 10680 | 10680 | 6410 | 4700 | 3840 | M24–M56 |
| PA7-800-8-530 | 812.8 | 32 | 68 | 25 | 32 | 1 1/4 | 115 | 258 | 350 | 1400 | 3000 | 528.8 | 986.7 | 14800 | 14800 | 14800 | 14800 | 8880 | 6510 | 5330 | M36–M64 |
| PA7-800-9-530 | 812.8 | 32 | 76 | 25 | 11 | 7/16 | 130 | 294 | 400 | 1400 | 3000 | 598.1 | 1118.1 | 19300 | 19300 | 19300 | 19300 | 11580 | 8490 | 6950 | M36–M72 |
| PA7-800-10-530 | 812.8 | 32 | 86 | 30 | 26 | 1 | 140 | 330 | 450 | 1400 | 3000 | 792.0 | 1461.0 | 26700 | 26700 | 26700 | 26700 | 16020 | 11750 | 9610 | M36–M80 |
| PA7-800-11-530 | 812.8 | 32 | 86 | 35 | -10 | -3/8 | 140 | 360 | 480 | 1500 | 3000 | 927.8 | 1686.8 | 36000 | 36000 | 36000 | 36000 | 21600 | 15840 | 12960 | M36–M80 |
| PA7-800-12-530 | 812.8 | 32 | 86 | 40 | -10 | -3/8 | 140 | 390 | 500 | 1500 | 3000 | 1093.5 | 2151.3 | 46050 | 46050 | 46050 | 46050 | 27630 | 20260 | 16580 | M36–M80 |
| PA7-800-13-530 | 812.8 | 32 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 550 | 1600 | 3000 | 1392.4 | 2458.0 | 56250 | 56250 | 56250 | 56250 | 33750 | 24750 | 20250 | M36–M80 |
| PA7-800-4-560 | 812.8 | 32 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 240 | 1200 | 3000 | 243.0 | 439.9 | 3160 | 3160 | 3160 | 3160 | 3160 | 2460 | 1830 | M8–M30 |
| PA7-800-5-560 | 812.8 | 32 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 250 | 1300 | 3000 | 304.4 | 536.8 | 4560 | 4560 | 4560 | 4560 | 4560 | 3560 | 2640 | M12–M36 |
| PA7-800-6-560 | 812.8 | 32 | 52 | 16 | -3 | -1/8 | 85 | 220 | 290 | 1300 | 3000 | 381.6 | 687.5 | 7300 | 7300 | 7300 | 7300 | 7300 | 5690 | 4230 | M20–M48 |
| PA7-800-7-560 | 812.8 | 32 | 60 | 20 | 12 | 1/2 | 100 | 240 | 350 | 1300 | 3000 | 482.9 | 855.9 | 10680 | 10680 | 10680 | 10680 | 10680 | 8330 | 6190 | M24–M56 |
| PA7-800-8-560 | 812.8 | 32 | 68 | 25 | 32 | 1 1/4 | 115 | 280 | 380 | 1400 | 3000 | 580.3 | 1069.9 | 14800 | 14800 | 14800 | 14800 | 14800 | 11540 | 8580 | M36–M64 |
| PA7-800-9-560 | 812.8 | 32 | 76 | 25 | 11 | 7/16 | 130 | 300 | 400 | 1400 | 3000 | 677.0 | 1266.6 | 19300 | 19300 | 19300 | 19300 | 19300 | 15050 | 11190 | M36–M72 |
| PA7-800-10-560 | 812.8 | 32 | 86 | 30 | 26 | 1 | 140 | 350 | 450 | 1400 | 3000 | 810.3 | 1569.7 | 26700 | 26700 | 26700 | 26700 | 26700 | 20830 | 15490 | M36–M80 |
| PA7-800-11-560 | 812.8 | 32 | 86 | 35 | -10 | -3/8 | 140 | 380 | 460 | 1500 | 3000 | 1029.5 | 1914.2 | 36000 | 36000 | 36000 | 36000 | 36000 | 28080 | 20880 | M36–M80 |
| PA7-800-12-560 | 812.8 | 32 | 86 | 40 | -10 | -3/8 | 140 | 400 | 520 | 1500 | 3000 | 1263.5 | 2206.8 | 46050 | 46050 | 46050 | 46050 | 46050 | 35920 | 26710 | M36–M80 |
| PA7-800-13-560 | 812.8 | 32 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 580 | 1600 | 3000 | 1419.3 | 2543.1 | 56250 | 56250 | 56250 | 56250 | 56250 | 43880 | 32630 | M36–M80 |
| PA7-800-4-600 | 812.8 | 32 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 260 | 1300 | 3000 | 310.7 | 530.3 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | M8–M30 |
| PA7-800-5-600 | 812.8 | 32 | 39 | 12 | -28 | -1 1/8 | 65 | 220 | 290 | 1300 | 3000 | 379.9 | 685.7 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | M12–M36 |
| PA7-800-6-600 | 812.8 | 32 | 52 | 16 | -3 | -1/8 | 85 | 250 | 330 | 1300 | 3000 | 471.5 | 895.1 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | M20–M48 |
| PA7-800-7-600 | 812.8 | 32 | 60 | 20 | 12 | 1/2 | 100 | 270 | 400 | 1300 | 3000 | 569.1 | 1070.7 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | M24–M56 |
| PA7-800-8-600 | 812.8 | 32 | 68 | 25 | 32 | 1 1/4 | 115 | 330 | 430 | 1400 | 3000 | 749.3 | 1313.5 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | M36–M64 |
| PA7-800-9-600 | 812.8 | 32 | 76 | 25 | 11 | 7/16 | 130 | 340 | 460 | 1400 | 3000 | 838.8 | 1559.6 | 9300 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | M36–M72 |
| PA7-800-10-600 | 812.8 | 32 | 86 | 30 | 26 | 1 | 140 | 400 | 460 | 1400 | 3000 | 991.9 | 1855.3 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | M36–M80 |
| PA7-800-11-600 | 812.8 | 32 | 86 | 35 | -10 | -3/8 | 140 | 430 | 540 | 1500 | 3000 | 1244.6 | 2197.8 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | M36–M80 |
| PA7-800-12-600 | 812.8 | 32 | 86 | 40 | -10 | -3/8 | 140 | 450 | 540 | 1500 | 3000 | 1456.7 | 2612.8 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | M36–M80 |
| PA7-800-13-600 | 812.8 | 32 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 600 | 1600 | 3000 | 1776.0 | 2990.4 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | M36–M80 |

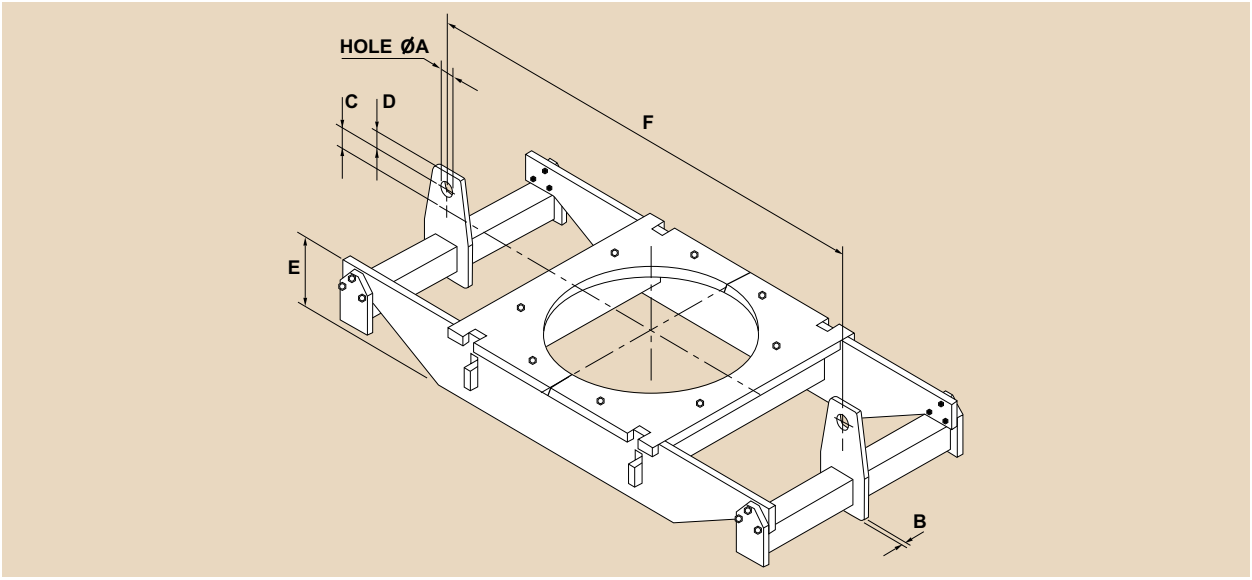
# PA7 RISER CLAMP FLAT PLATE TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C End Beams and Lugs: Carbon Steel. Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | D | E | | F | | Weight kg | | Load Capacity (kg) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA7-850-4-400 | 863.6 | 34 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 200 | 1300 | 3000 | 221.6 | 385.0 | 3160 | 3160 | | | | | | M8–M30 |
| PA7-850-5-400 | 863.6 | 34 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 240 | 1300 | 3000 | 282.4 | 478.5 | 4560 | 4560 | | | | | | M12–M36 |
| PA7-850-6-400 | 863.6 | 34 | 52 | 16 | -3 | -1/8 | 85 | 208 | 270 | 1300 | 3000 | 359.1 | 617.4 | 7300 | 7300 | | | | | | M20–M48 |
| PA7-850-7-400 | 863.6 | 34 | 60 | 20 | 12 | 1/2 | 100 | 230 | 300 | 1400 | 3000 | 437.6 | 780.0 | 10680 | 10680 | | | | | | M24–M56 |
| PA7-850-8-400 | 863.6 | 34 | 68 | 25 | 32 | 1 1/4 | 115 | 258 | 350 | 1400 | 3000 | 552.8 | 921.9 | 14800 | 14800 | | | | | | M36–M64 |
| PA7-850-9-400 | 863.6 | 34 | 76 | 25 | 11 | 7/16 | 130 | 294 | 380 | 1500 | 3000 | 648.9 | 1134.6 | 19300 | 19300 | | | | | | M36–M72 |
| PA7-850-10-400 | 863.6 | 34 | 86 | 30 | 26 | 1 | 140 | 300 | 420 | 1500 | 3000 | 763.2 | 1386.8 | 26700 | 26700 | | | | | | M36–M80 |
| PA7-850-11-400 | 863.6 | 34 | 86 | 35 | -10 | -3/8 | 140 | 380 | 470 | 1500 | 3000 | 1005.7 | 1751.1 | 36000 | 36000 | | | | | | M36–M80 |
| PA7-850-12-400 | 863.6 | 34 | 86 | 40 | -10 | -3/8 | 140 | 390 | 490 | 1500 | 3000 | 1152.3 | 2190.0 | 46050 | 46050 | | | | | | M36–M80 |
| PA7-850-13-400 | 863.6 | 34 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 540 | 1600 | 3000 | 1446.3 | 2506.1 | 56250 | 56250 | | | | | | M36–M80 |
| PA7-850-4-490 | 863.6 | 34 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 190 | 1300 | 3000 | 221.6 | 373.6 | 3160 | 3160 | 3160 | 2050 | 1230 | 880 | 760 | M8–M30 |
| PA7-850-5-490 | 863.6 | 34 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 230 | 1300 | 3000 | 282.4 | 467.1 | 4560 | 4560 | 4560 | 2960 | 1780 | 1280 | 1090 | M12–M36 |
| PA7-850-6-490 | 863.6 | 34 | 52 | 16 | -3 | -1/8 | 85 | 208 | 270 | 1300 | 3000 | 359.1 | 617.4 | 7300 | 7300 | 7300 | 4750 | 2850 | 2040 | 1750 | M20–M48 |
| PA7-850-7-490 | 863.6 | 34 | 60 | 20 | 12 | 1/2 | 100 | 230 | 300 | 1400 | 3000 | 437.6 | 780.0 | 10680 | 10680 | 10680 | 6940 | 4170 | 2990 | 2560 | M24–M56 |
| PA7-850-8-490 | 863.6 | 34 | 68 | 25 | 32 | 1 1/4 | 115 | 258 | 350 | 1400 | 3000 | 552.8 | 921.9 | 14800 | 14800 | 14800 | 9620 | 5770 | 4140 | 3550 | M36–M64 |
| PA7-850-9-490 | 863.6 | 34 | 76 | 25 | 11 | 7/16 | 130 | 294 | 380 | 1500 | 3000 | 648.9 | 1134.6 | 19300 | 19300 | 19300 | 12550 | 7530 | 5400 | 4630 | M36–M72 |
| PA7-850-10-490 | 863.6 | 34 | 86 | 30 | 26 | 1 | 140 | 300 | 420 | 1500 | 3000 | 763.2 | 1386.8 | 26700 | 26700 | 26700 | 17360 | 10410 | 7480 | 6410 | M36–M80 |
| PA7-850-11-490 | 863.6 | 34 | 86 | 35 | -10 | -3/8 | 140 | 380 | 460 | 1500 | 3000 | 993.8 | 1728.5 | 36000 | 36000 | 36000 | 23400 | 14040 | 10080 | 8640 | M36–M80 |
| PA7-850-12-490 | 863.6 | 34 | 86 | 40 | -10 | -3/8 | 140 | 380 | 480 | 1500 | 3000 | 1141.4 | 2162.8 | 46050 | 46050 | 46050 | 29930 | 17960 | 12890 | 11050 | M36–M80 |
| PA7-850-13-490 | 863.6 | 34 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 530 | 1600 | 3000 | 1352.4 | 2047.7 | 56250 | 56250 | 56250 | 56250 | 21940 | 15750 | 13500 | M36–M80 |
| PA7-850-4-530 | 863.6 | 34 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 210 | 1300 | 3000 | 226.2 | 395.8 | 3160 | 3160 | 3160 | 3160 | 1900 | 1390 | 1140 | M8–M30 |
| PA7-850-5-530 | 863.6 | 34 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 250 | 1300 | 3000 | 287.5 | 489.4 | 4560 | 4560 | 4560 | 4560 | 2740 | 2010 | 1640 | M12–M36 |
| PA7-850-6-530 | 863.6 | 34 | 52 | 16 | -3 | -1/8 | 85 | 208 | 290 | 1300 | 3000 | 365.5 | 644.2 | 7300 | 7300 | 7300 | 7300 | 4380 | 3210 | 2630 | M20–M48 |
| PA7-850-7-530 | 863.6 | 34 | 60 | 20 | 12 | 1/2 | 100 | 240 | 320 | 1400 | 3000 | 444.3 | 811.5 | 10680 | 10680 | 10680 | 10680 | 6410 | 4700 | 3840 | M24–M56 |
| PA7-850-8-530 | 863.6 | 34 | 68 | 25 | 32 | 1 1/4 | 115 | 260 | 350 | 1400 | 3000 | 568.7 | 1022.0 | 14800 | 14800 | 14800 | 14800 | 8880 | 6510 | 5330 | M36–M64 |
| PA7-850-9-530 | 863.6 | 34 | 76 | 25 | 11 | 7/16 | 130 | 300 | 400 | 1500 | 3000 | 665.5 | 1171.1 | 19300 | 19300 | 19300 | 19300 | 11580 | 8490 | 6950 | M36–M72 |
| PA7-850-10-530 | 863.6 | 34 | 86 | 30 | 26 | 1 | 140 | 340 | 440 | 1500 | 3000 | 864.0 | 1494.5 | 26700 | 26700 | 26700 | 26700 | 16020 | 11750 | 9610 | M36–M80 |
| PA7-850-11-530 | 863.6 | 34 | 86 | 35 | -10 | -3/8 | 140 | 380 | 480 | 1500 | 3000 | 1016.6 | 1774.9 | 36000 | 36000 | 36000 | 36000 | 21600 | 15840 | 12960 | M36–M80 |
| PA7-850-12-530 | 863.6 | 34 | 86 | 40 | -10 | -3/8 | 140 | 400 | 500 | 1500 | 3000 | 1164.2 | 2218.8 | 46050 | 46050 | 46050 | 46050 | 27630 | 20260 | 16580 | M36–M80 |
| PA7-850-13-530 | 863.6 | 34 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 550 | 1600 | 3000 | 1460.5 | 2533.7 | 56250 | 56250 | 56250 | 56250 | 33750 | 24750 | 20250 | M36–M80 |
| PA7-850-4-560 | 863.6 | 34 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 240 | 1300 | 3000 | 265.1 | 459.4 | 3160 | 3160 | 3160 | 3160 | 3160 | 2460 | 1830 | M8–M30 |
| PA7-850-5-560 | 863.6 | 34 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 250 | 1300 | 3000 | 321.4 | 557.9 | 4560 | 4560 | 4560 | 4560 | 4560 | 3560 | 2640 | M12–M36 |
| PA7-850-6-560 | 863.6 | 34 | 52 | 16 | -3 | -1/8 | 85 | 230 | 290 | 1300 | 3000 | 413.7 | 713.3 | 7300 | 7300 | 7300 | 7300 | 7300 | 5690 | 4230 | M20–M48 |
| PA7-850-7-560 | 863.6 | 34 | 60 | 20 | 12 | 1/2 | 100 | 250 | 350 | 1400 | 3000 | 529.7 | 889.4 | 10680 | 10680 | 10680 | 10680 | 10680 | 8330 | 6190 | M24–M56 |
| PA7-850-8-560 | 863.6 | 34 | 68 | 25 | 32 | 1 1/4 | 115 | 290 | 380 | 1400 | 3000 | 623.1 | 1109.1 | 14800 | 14800 | 14800 | 14800 | 14800 | 11540 | 8580 | M36–M64 |
| PA7-850-9-560 | 863.6 | 34 | 76 | 25 | 11 | 7/16 | 130 | 300 | 400 | 1500 | 3000 | 742.6 | 1324.7 | 19300 | 19300 | 19300 | 19300 | 19300 | 15050 | 11190 | M36–M72 |
| PA7-850-10-560 | 863.6 | 34 | 86 | 30 | 26 | 1 | 140 | 330 | 450 | 1500 | 3000 | 925.8 | 1624.4 | 26700 | 26700 | 26700 | 26700 | 26700 | 20830 | 15490 | M36–M80 |
| PA7-850-11-560 | 863.6 | 34 | 86 | 35 | -10 | -3/8 | 140 | 390 | 470 | 1500 | 3000 | 1125.9 | 2106.7 | 36000 | 36000 | 36000 | 36000 | 36000 | 28080 | 20880 | M36–M80 |
| PA7-850-12-560 | 863.6 | 34 | 86 | 40 | -10 | -3/8 | 140 | 410 | 520 | 1600 | 3000 | 1365.3 | 2274.9 | 46050 | 46050 | 46050 | 46050 | 46050 | 35920 | 26710 | M36–M80 |
| PA7-850-13-560 | 863.6 | 34 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 570 | 1600 | 3000 | 1501.0 | 2590.5 | 56250 | 56250 | 56250 | 56250 | 56250 | 43880 | 32630 | M36–M80 |
| PA7-850-4-600 | 863.6 | 34 | 33 | 10 | -38 | -1 1/2 | 55 | 190 | 270 | 1300 | 3000 | 338.4 | 594.8 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | M8–M30 |
| PA7-850-5-600 | 863.6 | 34 | 39 | 12 | -28 | -1 1/8 | 65 | 230 | 280 | 1300 | 3000 | 411.9 | 696.3 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | M12–M36 |
| PA7-850-6-600 | 863.6 | 34 | 52 | 16 | -3 | -1/8 | 85 | 260 | 330 | 1400 | 3000 | 519.0 | 929.1 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | M20–M48 |
| PA7-850-7-600 | 863.6 | 34 | 60 | 20 | 12 | 1/2 | 100 | 280 | 400 | 1400 | 3000 | 625.4 | 1109.6 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | M24–M56 |
| PA7-850-8-600 | 863.6 | 34 | 68 | 25 | 32 | 1 1/4 | 115 | 340 | 430 | 1500 | 3000 | 819.7 | 1358.5 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | M36–M64 |
| PA7-850-9-600 | 863.6 | 34 | 76 | 25 | 11 | 7/16 | 130 | 350 | 450 | 1500 | 3000 | 927.4 | 1603.3 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | M36–M72 |
| PA7-850-10-600 | 863.6 | 34 | 86 | 30 | 26 | 1 | 140 | 380 | 470 | 1500 | 3000 | 1135.3 | 2009.7 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | M36–M80 |
| PA7-850-11-600 | 863.6 | 34 | 86 | 35 | -10 | -3/8 | 140 | 440 | 540 | 1600 | 3000 | 1379.5 | 2372.9 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | M36–M80 |
| PA7-850-12-600 | 863.6 | 34 | 86 | 40 | -10 | -3/8 | 140 | 460 | 600 | 1600 | 3000 | 1575.1 | 2568.4 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | M36–M80 |
| PA7-850-13-600 | 863.6 | 34 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 600 | 1700 | 3000 | 1925.4 | 3076.1 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | M36–M80 |

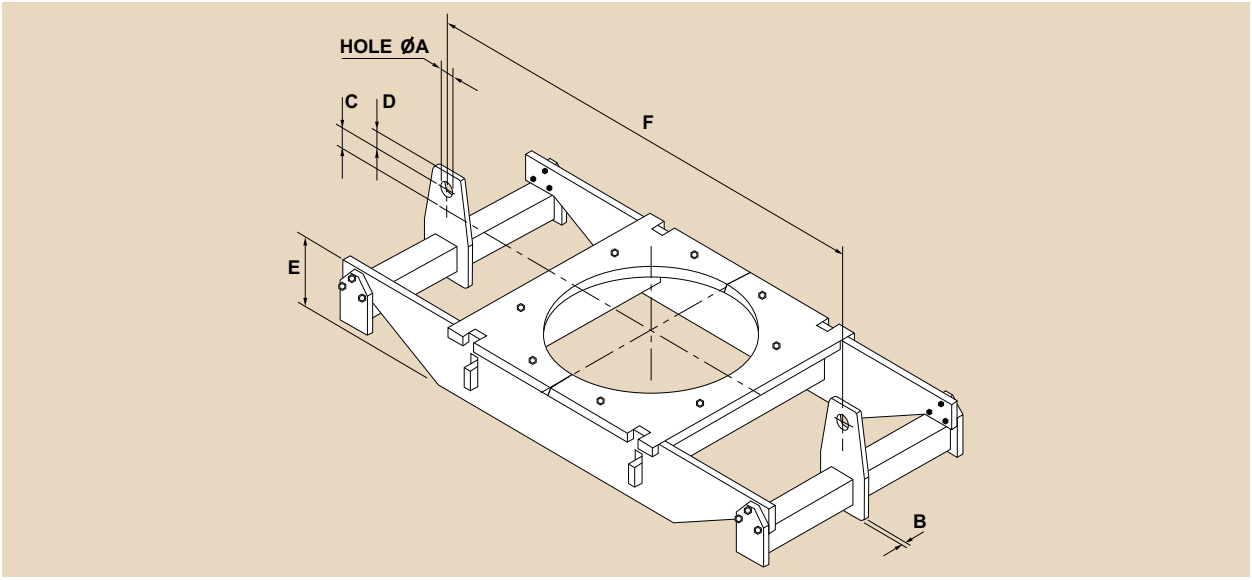
# PA7 RISER CLAMP FLAT PLATE TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C End Beams and Lugs: Carbon Steel. Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | D | E | | F | | Weight kg | | Load Capacity (kg) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA7-900-4-400 | 914.4 | 36 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 190 | 1400 | 3000 | 241.2 | 391.0 | 3160 | 3160 | | | | | | M8–M30 |
| PA7-900-5-400 | 914.4 | 36 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 230 | 1400 | 3000 | 307.1 | 489.1 | 4560 | 4560 | | | | | | M12–M36 |
| PA7-900-6-400 | 914.4 | 36 | 52 | 16 | -3 | -1/8 | 85 | 208 | 270 | 1400 | 3000 | 389.7 | 644.3 | 7300 | 7300 | | | | | | M20–M48 |
| PA7-900-7-400 | 914.4 | 36 | 60 | 20 | 12 | 1/2 | 100 | 240 | 300 | 1400 | 3000 | 473.8 | 811.5 | 10680 | 10680 | | | | | | M24–M56 |
| PA7-900-8-400 | 914.4 | 36 | 68 | 25 | 32 | 1 1/4 | 115 | 258 | 350 | 1500 | 3000 | 603.9 | 958.3 | 14800 | 14800 | | | | | | M36–M64 |
| PA7-900-9-400 | 914.4 | 36 | 76 | 25 | 11 | 7/16 | 130 | 294 | 380 | 1500 | 3000 | 696.4 | 1177.6 | 19300 | 19300 | | | | | | M36–M72 |
| PA7-900-10-400 | 914.4 | 36 | 86 | 30 | 26 | 1 | 140 | 324 | 420 | 1600 | 3000 | 849.3 | 1463.7 | 26700 | 26700 | | | | | | M36–M80 |
| PA7-900-11-400 | 914.4 | 36 | 86 | 35 | -10 | -3/8 | 140 | 380 | 460 | 1600 | 3000 | 1076.1 | 1787.4 | 36000 | 36000 | | | | | | M36–M80 |
| PA7-900-12-400 | 914.4 | 36 | 86 | 40 | -10 | -3/8 | 140 | 400 | 480 | 1600 | 3000 | 1246.8 | 2234.0 | 46050 | 46050 | | | | | | M36–M80 |
| PA7-900-13-400 | 914.4 | 36 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 540 | 1700 | 3000 | 1555.5 | 2586.0 | 56250 | 56250 | | | | | | M36–M80 |
| PA7-900-4-490 | 914.4 | 36 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 190 | 1400 | 3000 | 241.2 | 391.0 | 3160 | 3160 | 3160 | 2050 | 1230 | 880 | 760 | M8–M30 |
| PA7-900-5-490 | 914.4 | 36 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 230 | 1400 | 3000 | 307.1 | 489.1 | 4560 | 4560 | 4560 | 2960 | 1780 | 1280 | 1090 | M12–M36 |
| PA7-900-6-490 | 914.4 | 36 | 52 | 16 | -3 | -1/8 | 85 | 208 | 270 | 1400 | 3000 | 389.7 | 644.3 | 7300 | 7300 | 7300 | 4750 | 2850 | 2040 | 1750 | M20–M48 |
| PA7-900-7-490 | 914.4 | 36 | 60 | 20 | 12 | 1/2 | 100 | 230 | 300 | 1400 | 3000 | 466.9 | 811.5 | 10680 | 10680 | 10680 | 6940 | 4170 | 2990 | 2560 | M24–M56 |
| PA7-900-8-490 | 914.4 | 36 | 68 | 25 | 32 | 1 1/4 | 115 | 258 | 350 | 1500 | 3000 | 603.9 | 958.3 | 14800 | 14800 | 14800 | 9620 | 5770 | 4140 | 3550 | M36–M64 |
| PA7-900-9-490 | 914.4 | 36 | 76 | 25 | 11 | 7/16 | 130 | 294 | 370 | 1500 | 3000 | 696.4 | 1158.7 | 19300 | 19300 | 19300 | 12550 | 7530 | 5400 | 4630 | M36–M72 |
| PA7-900-10-490 | 914.4 | 36 | 86 | 30 | 26 | 1 | 140 | 324 | 410 | 1600 | 3000 | 849.3 | 1442.2 | 26700 | 26700 | 26700 | 17360 | 10410 | 7480 | 6410 | M36–M80 |
| PA7-900-11-490 | 914.4 | 36 | 86 | 35 | -10 | -3/8 | 140 | 380 | 460 | 1600 | 3000 | 1076.1 | 1787.4 | 36000 | 36000 | 36000 | 23400 | 14040 | 10080 | 8640 | M36–M80 |
| PA7-900-12-490 | 914.4 | 36 | 86 | 40 | -10 | -3/8 | 140 | 390 | 480 | 1600 | 3000 | 1234.3 | 2234.0 | 46050 | 46050 | 46050 | 29930 | 17960 | 12890 | 11050 | M36–M80 |
| PA7-900-13-490 | 914.4 | 36 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 530 | 1700 | 3000 | 1555.5 | 2556.9 | 56250 | 56250 | 56250 | 36560 | 21940 | 15750 | 13500 | M36–M80 |
| PA7-900-4-530 | 914.4 | 36 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 210 | 1400 | 3000 | 246.1 | 413.4 | 3160 | 3160 | 3160 | 3160 | 1900 | 1390 | 1140 | M8–M30 |
| PA7-900-5-530 | 914.4 | 36 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 250 | 1400 | 3000 | 312.5 | 511.6 | 4560 | 4560 | 4560 | 4560 | 2740 | 2010 | 1640 | M12–M36 |
| PA7-900-6-530 | 914.4 | 36 | 52 | 16 | -3 | -1/8 | 85 | 208 | 280 | 1400 | 3000 | 396.6 | 658.2 | 7300 | 7300 | 7300 | 7300 | 4380 | 3210 | 2630 | M20–M48 |
| PA7-900-7-530 | 914.4 | 36 | 60 | 20 | 12 | 1/2 | 100 | 250 | 310 | 1400 | 3000 | 480.1 | 827.0 | 10680 | 10680 | 10680 | 10680 | 6410 | 4700 | 3840 | M24–M56 |
| PA7-900-8-530 | 914.4 | 36 | 68 | 25 | 32 | 1 1/4 | 115 | 270 | 340 | 1500 | 3000 | 620.8 | 1042.3 | 14800 | 14800 | 14800 | 14800 | 8880 | 6510 | 5330 | M36–M64 |
| PA7-900-9-530 | 914.4 | 36 | 76 | 25 | 11 | 7/16 | 130 | 294 | 390 | 1500 | 3000 | 731.8 | 1195.5 | 19300 | 19300 | 19300 | 19300 | 11580 | 8490 | 6950 | M36–M72 |
| PA7-900-10-530 | 914.4 | 36 | 86 | 30 | 26 | 1 | 140 | 340 | 440 | 1600 | 3000 | 949.8 | 1579.3 | 26700 | 26700 | 26700 | 26700 | 16020 | 11750 | 9610 | M36–M80 |
| PA7-900-11-530 | 914.4 | 36 | 86 | 35 | -10 | -3/8 | 140 | 380 | 470 | 1600 | 3000 | 1100.2 | 1810.2 | 36000 | 36000 | 36000 | 36000 | 21600 | 15840 | 12960 | M36–M80 |
| PA7-900-12-530 | 914.4 | 36 | 86 | 40 | -10 | -3/8 | 140 | 380 | 490 | 1600 | 3000 | 1323.6 | 2261.5 | 46050 | 46050 | 46050 | 46050 | 27630 | 20260 | 16580 | M36–M80 |
| PA7-900-13-530 | 914.4 | 36 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 540 | 1700 | 3000 | 1569.3 | 2586.4 | 56250 | 56250 | 56250 | 56250 | 33750 | 24750 | 20250 | M36–M80 |
| PA7-900-4-560 | 914.4 | 36 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 230 | 1400 | 3000 | 294.4 | 469.3 | 3160 | 3160 | 3160 | 3160 | 3160 | 2460 | 1830 | M8–M30 |
| PA7-900-5-560 | 914.4 | 36 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 250 | 1400 | 3000 | 381.7 | 581.0 | 4560 | 4560 | 4560 | 4560 | 4560 | 3560 | 2640 | M12–M36 |
| PA7-900-6-560 | 914.4 | 36 | 52 | 16 | -3 | -1/8 | 85 | 240 | 290 | 1400 | 3000 | 456.2 | 775.3 | 7300 | 7300 | 7300 | 7300 | 7300 | 5690 | 4230 | M20–M48 |
| PA7-900-7-560 | 914.4 | 36 | 60 | 20 | 12 | 1/2 | 100 | 250 | 350 | 1500 | 3000 | 572.6 | 925.2 | 10680 | 10680 | 10680 | 10680 | 10680 | 8330 | 6190 | M24–M56 |
| PA7-900-8-560 | 914.4 | 36 | 68 | 25 | 32 | 1 1/4 | 115 | 300 | 370 | 1500 | 3000 | 680.9 | 1132.5 | 14800 | 14800 | 14800 | 14800 | 14800 | 11540 | 8580 | M36–M64 |
| PA7-900-9-560 | 914.4 | 36 | 76 | 25 | 11 | 7/16 | 130 | 310 | 390 | 1500 | 3000 | 795.4 | 1351.5 | 19300 | 19300 | 19300 | 19300 | 19300 | 15050 | 11190 | M36–M72 |
| PA7-900-10-560 | 914.4 | 36 | 86 | 30 | 26 | 1 | 140 | 340 | 440 | 1600 | 3000 | 1030.6 | 1688.7 | 26700 | 26700 | 26700 | 26700 | 26700 | 20830 | 15490 | M36–M80 |
| PA7-900-11-560 | 914.4 | 36 | 86 | 35 | -10 | -3/8 | 140 | 400 | 460 | 1600 | 3000 | 1219.2 | 2149.0 | 36000 | 36000 | 36000 | 36000 | 36000 | 28080 | 20880 | M36–M80 |
| PA7-900-12-560 | 914.4 | 36 | 86 | 40 | -10 | -3/8 | 140 | 420 | 510 | 1600 | 3000 | 1451.8 | 2318.1 | 46050 | 46050 | 46050 | 46050 | 46050 | 35920 | 26710 | M36–M80 |
| PA7-900-13-560 | 914.4 | 36 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 570 | 1700 | 3000 | 1645.2 | 2671.5 | 56250 | 56250 | 56250 | 56250 | 56250 | 43880 | 32630 | M36–M80 |
| PA7-900-4-600 | 914.4 | 36 | 33 | 10 | -38 | -1 1/2 | 55 | 190 | 260 | 1400 | 3000 | 368.4 | 607.8 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | M8–M30 |
| PA7-900-5-600 | 914.4 | 36 | 39 | 12 | -28 | -1 1/8 | 65 | 230 | 280 | 1400 | 3000 | 447.6 | 723.7 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | M12–M36 |
| PA7-900-6-600 | 914.4 | 36 | 52 | 16 | -3 | -1/8 | 85 | 260 | 350 | 1400 | 3000 | 552.9 | 904.8 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | M20–M48 |
| PA7-900-7-600 | 914.4 | 36 | 60 | 20 | 12 | 1/2 | 100 | 290 | 390 | 1500 | 3000 | 718.9 | 1132.9 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | M24–M56 |
| PA7-900-8-600 | 914.4 | 36 | 68 | 25 | 32 | 1 1/4 | 115 | 350 | 420 | 1500 | 3000 | 879.3 | 1386.3 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | M36–M64 |
| PA7-900-9-600 | 914.4 | 36 | 76 | 25 | 11 | 7/16 | 130 | 350 | 450 | 1500 | 3000 | 980.6 | 1660.7 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | M36–M72 |
| PA7-900-10-600 | 914.4 | 36 | 86 | 30 | 26 | 1 | 140 | 380 | 460 | 1600 | 3000 | 1245.3 | 2087.5 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | M36–M80 |
| PA7-900-11-600 | 914.4 | 36 | 86 | 35 | -10 | -3/8 | 140 | 450 | 540 | 1600 | 3000 | 1464.3 | 2451.9 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | M36–M80 |
| PA7-900-12-600 | 914.4 | 36 | 86 | 40 | -10 | -3/8 | 140 | 470 | 600 | 1600 | 3000 | 1671.4 | 2726.7 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | M36–M80 |
| PA7-900-13-600 | 914.4 | 36 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 590 | 1700 | 3000 | 1990.7 | 3135.0 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | M36–M80 |

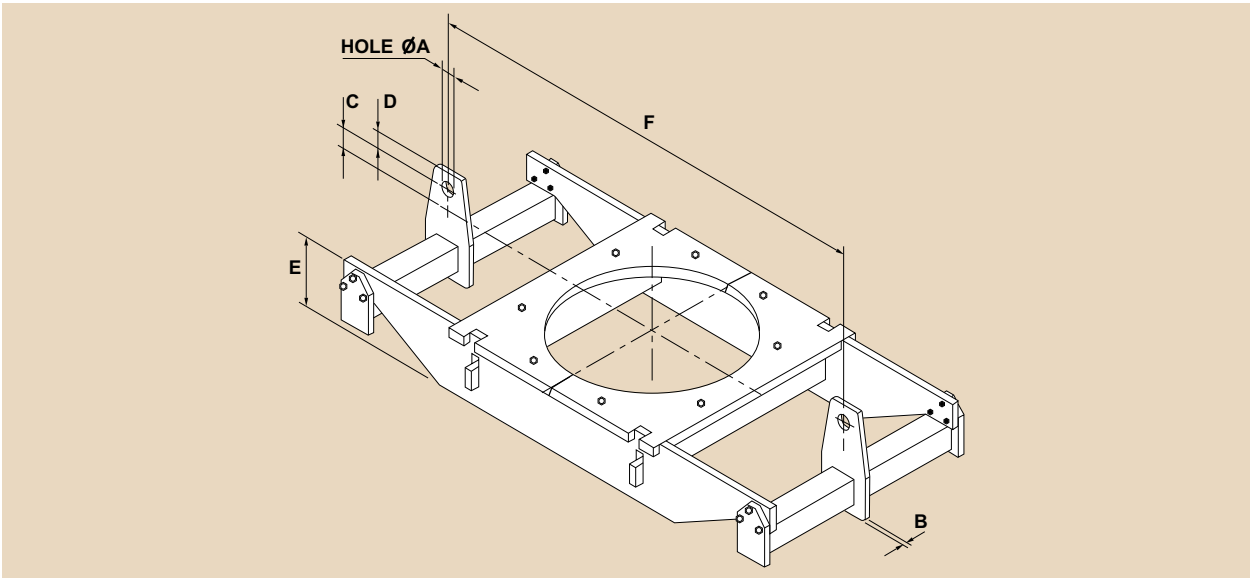
# PA7 RISER CLAMP FLAT PLATE TYPE




*Material: Carbon Steel to 400°C Alloy Steel above 400°C End Beams and Lugs: Carbon Steel. Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | D | E | | F | | Weight kg | | Load Capacity (kg) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA7-950-4-400 | 965.2 | 38 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 190 | 1400 | 3000 | 258.2 | 409.1 | 3160 | 3160 | | | | | | M8–M30 |
| PA7-950-5-400 | 965.2 | 38 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 230 | 1400 | 3000 | 334.2 | 512.0 | 4560 | 4560 | | | | | | M12–M36 |
| PA7-950-6-400 | 965.2 | 38 | 52 | 16 | -3 | -1/8 | 85 | 228 | 260 | 1500 | 3000 | 443.6 | 675.7 | 7300 | 7300 | | | | | | M20–M48 |
| PA7-950-7-400 | 965.2 | 38 | 60 | 20 | 12 | 1/2 | 100 | 258 | 300 | 1500 | 3000 | 536.3 | 873.3 | 10680 | 10680 | | | | | | M24–M56 |
| PA7-950-8-400 | 965.2 | 38 | 68 | 25 | 32 | 1 1/4 | 115 | 260 | 350 | 1600 | 3000 | 658.3 | 996.7 | 14800 | 14800 | | | | | | M36–M64 |
| PA7-950-9-400 | 965.2 | 38 | 76 | 25 | 11 | 7/16 | 130 | 300 | 370 | 1600 | 3000 | 757.1 | 1202.7 | 19300 | 19300 | | | | | | M36–M72 |
| PA7-950-10-400 | 965.2 | 38 | 86 | 30 | 26 | 1 | 140 | 324 | 410 | 1600 | 3000 | 907.1 | 1493.8 | 26700 | 26700 | | | | | | M36–M80 |
| PA7-950-11-400 | 965.2 | 38 | 86 | 35 | -10 | -3/8 | 140 | 380 | 460 | 1700 | 3000 | 1160.2 | 1849.3 | 36000 | 36000 | | | | | | M36–M80 |
| PA7-950-12-400 | 965.2 | 38 | 86 | 40 | -10 | -3/8 | 140 | 380 | 480 | 1700 | 3000 | 1411.9 | 2308.8 | 46050 | 46050 | | | | | | M36–M80 |
| PA7-950-13-400 | 965.2 | 38 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 530 | 1700 | 3000 | 1646.2 | 2641.0 | 56250 | 56250 | | | | | | M36–M80 |
| PA7-950-4-490 | 965.2 | 38 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 190 | 1400 | 3000 | 258.2 | 409.1 | 3160 | 3160 | 3160 | 2050 | 1230 | 880 | 760 | M8–M30 |
| PA7-950-5-490 | 965.2 | 38 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 230 | 1400 | 3000 | 328.7 | 512.0 | 4560 | 4560 | 4560 | 2960 | 1780 | 1280 | 1090 | M12–M36 |
| PA7-950-6-490 | 965.2 | 38 | 52 | 16 | -3 | -1/8 | 85 | 228 | 260 | 1500 | 3000 | 443.6 | 675.7 | 7300 | 7300 | 7300 | 4750 | 2850 | 2040 | 1750 | M20–M48 |
| PA7-950-7-490 | 965.2 | 38 | 60 | 20 | 12 | 1/2 | 100 | 258 | 290 | 1500 | 3000 | 536.3 | 856.6 | 10680 | 10680 | 10680 | 6940 | 4170 | 2990 | 2560 | M24–M56 |
| PA7-950-8-490 | 965.2 | 38 | 68 | 25 | 32 | 1 1/4 | 115 | 260 | 340 | 1600 | 3000 | 658.3 | 980.9 | 14800 | 14800 | 14800 | 9620 | 5770 | 4140 | 3550 | M36–M64 |
| PA7-950-9-490 | 965.2 | 38 | 76 | 25 | 11 | 7/16 | 130 | 294 | 370 | 1600 | 3000 | 747.8 | 1202.7 | 19300 | 19300 | 19300 | 12550 | 7530 | 5400 | 4630 | M36–M72 |
| PA7-950-10-490 | 965.2 | 38 | 86 | 30 | 26 | 1 | 140 | 324 | 410 | 1600 | 3000 | 907.1 | 1493.8 | 26700 | 26700 | 26700 | 17360 | 10410 | 7480 | 6410 | M36–M80 |
| PA7-950-11-490 | 965.2 | 38 | 86 | 35 | -10 | -3/8 | 140 | 380 | 450 | 1700 | 3000 | 1160.2 | 1825.0 | 36000 | 36000 | 36000 | 23400 | 14040 | 10080 | 8640 | M36–M80 |
| PA7-950-12-490 | 965.2 | 38 | 86 | 40 | -10 | -3/8 | 140 | 400 | 470 | 1700 | 3000 | 1331.2 | 2279.4 | 46050 | 46050 | 46050 | 29930 | 17960 | 12890 | 11050 | M36–M80 |
| PA7-950-13-490 | 965.2 | 38 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 530 | 1700 | 3000 | 1632.2 | 2641.0 | 56250 | 56250 | 56250 | 36560 | 21940 | 15750 | 13500 | M36–M80 |
| PA7-950-4-530 | 965.2 | 38 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 200 | 1400 | 3000 | 263.2 | 420.7 | 3160 | 3160 | 3160 | 3160 | 1900 | 1390 | 1140 | M8–M30 |
| PA7-950-5-530 | 965.2 | 38 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 240 | 1400 | 3000 | 339.3 | 523.7 | 4560 | 4560 | 4560 | 4560 | 2740 | 2010 | 1640 | M12–M36 |
| PA7-950-6-530 | 965.2 | 38 | 52 | 16 | -3 | -1/8 | 85 | 228 | 280 | 1500 | 3000 | 450.3 | 703.2 | 7300 | 7300 | 7300 | 7300 | 4380 | 3210 | 2630 | M20–M48 |
| PA7-950-7-530 | 965.2 | 38 | 60 | 20 | 12 | 1/2 | 100 | 258 | 310 | 1600 | 3000 | 588.4 | 889.0 | 10680 | 10680 | 10680 | 10680 | 6410 | 4700 | 3840 | M24–M56 |
| PA7-950-8-530 | 965.2 | 38 | 68 | 25 | 32 | 1 1/4 | 115 | 270 | 340 | 1600 | 3000 | 666.8 | 1081.3 | 14800 | 14800 | 14800 | 14800 | 8880 | 6510 | 5330 | M36–M64 |
| PA7-950-9-530 | 965.2 | 38 | 76 | 25 | 11 | 7/16 | 130 | 294 | 380 | 1600 | 3000 | 785.2 | 1221.8 | 19300 | 19300 | 19300 | 19300 | 11580 | 8490 | 6950 | M36–M72 |
| PA7-950-10-530 | 965.2 | 38 | 86 | 30 | 26 | 1 | 140 | 350 | 430 | 1600 | 3000 | 1014.6 | 1617.5 | 26700 | 26700 | 26700 | 26700 | 16020 | 11750 | 9610 | M36–M80 |
| PA7-950-11-530 | 965.2 | 38 | 86 | 35 | -10 | -3/8 | 140 | 380 | 470 | 1700 | 3000 | 1277.1 | 1872.3 | 36000 | 36000 | 36000 | 36000 | 21600 | 15840 | 12960 | M36–M80 |
| PA7-950-12-530 | 965.2 | 38 | 86 | 40 | -10 | -3/8 | 140 | 390 | 480 | 1700 | 3000 | 1425.6 | 2308.8 | 46050 | 46050 | 46050 | 46050 | 27630 | 20260 | 16580 | M36–M80 |
| PA7-950-13-530 | 965.2 | 38 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 540 | 1700 | 3000 | 1661.4 | 2670.7 | 56250 | 56250 | 56250 | 56250 | 33750 | 24750 | 20250 | M36–M80 |
| PA7-950-4-560 | 965.2 | 38 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 230 | 1400 | 3000 | 315.4 | 491.5 | 3160 | 3160 | 3160 | 3160 | 3160 | 2460 | 1830 | M8–M30 |
| PA7-950-5-560 | 965.2 | 38 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 240 | 1500 | 3000 | 419.7 | 591.7 | 4560 | 4560 | 4560 | 4560 | 4560 | 3560 | 2640 | M12–M36 |
| PA7-950-6-560 | 965.2 | 38 | 52 | 16 | -3 | -1/8 | 85 | 240 | 280 | 1500 | 3000 | 508.8 | 809.7 | 7300 | 7300 | 7300 | 7300 | 7300 | 5690 | 4230 | M20–M48 |
| PA7-950-7-560 | 965.2 | 38 | 60 | 20 | 12 | 1/2 | 100 | 260 | 340 | 1600 | 3000 | 653.6 | 976.3 | 10680 | 10680 | 10680 | 10680 | 10680 | 8330 | 6190 | M24–M56 |
| PA7-950-8-560 | 965.2 | 38 | 68 | 25 | 32 | 1 1/4 | 115 | 300 | 370 | 1600 | 3000 | 732.1 | 1175.7 | 14800 | 14800 | 14800 | 14800 | 14800 | 11540 | 8580 | M36–M64 |
| PA7-950-9-560 | 965.2 | 38 | 76 | 25 | 11 | 7/16 | 130 | 320 | 390 | 1600 | 3000 | 865.1 | 1401.9 | 19300 | 19300 | 19300 | 19300 | 19300 | 15050 | 11190 | M36–M72 |
| PA7-950-10-560 | 965.2 | 38 | 86 | 30 | 26 | 1 | 140 | 340 | 430 | 1600 | 3000 | 1086.0 | 1725.5 | 26700 | 26700 | 26700 | 26700 | 26700 | 20830 | 15490 | M36–M80 |
| PA7-950-11-560 | 965.2 | 38 | 86 | 35 | -10 | -3/8 | 140 | 400 | 500 | 1700 | 3000 | 1302.4 | 2025.3 | 36000 | 36000 | 36000 | 36000 | 36000 | 28080 | 20880 | M36–M80 |
| PA7-950-12-560 | 965.2 | 38 | 86 | 40 | -10 | -3/8 | 140 | 430 | 500 | 1700 | 3000 | 1564.4 | 2365.9 | 46050 | 46050 | 46050 | 46050 | 46050 | 35920 | 26710 | M36–M80 |
| PA7-950-13-560 | 965.2 | 38 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 560 | 1700 | 3000 | 1740.1 | 2728.5 | 56250 | 56250 | 56250 | 56250 | 56250 | 43880 | 32630 | M36–M80 |
| PA7-950-4-600 | 965.2 | 38 | 33 | 10 | -38 | -1 1/2 | 55 | 200 | 260 | 1400 | 3000 | 400.8 | 635.0 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | M8–M30 |
| PA7-950-5-600 | 965.2 | 38 | 39 | 12 | -28 | -1 1/8 | 65 | 240 | 270 | 1500 | 3000 | 492.0 | 736.1 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | M12–M36 |
| PA7-950-6-600 | 965.2 | 38 | 52 | 16 | -3 | -1/8 | 85 | 260 | 350 | 1500 | 3000 | 614.2 | 960.0 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | M20–M48 |
| PA7-950-7-600 | 965.2 | 38 | 60 | 20 | 12 | 1/2 | 100 | 290 | 380 | 1600 | 3000 | 803.5 | 1190.1 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | M24–M56 |
| PA7-950-8-600 | 965.2 | 38 | 68 | 25 | 32 | 1 1/4 | 115 | 350 | 410 | 1600 | 3000 | 947.0 | 1415.0 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | M36–M64 |
| PA7-950-9-600 | 965.2 | 38 | 76 | 25 | 11 | 7/16 | 130 | 360 | 440 | 1600 | 3000 | 1064.4 | 1698.4 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | M36–M72 |
| PA7-950-10-600 | 965.2 | 38 | 86 | 30 | 26 | 1 | 140 | 390 | 460 | 1700 | 3000 | 1345.5 | 2160.1 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | M36–M80 |
| PA7-950-11-600 | 965.2 | 38 | 86 | 35 | -10 | -3/8 | 140 | 420 | 530 | 1700 | 3000 | 1595.6 | 2505.5 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | M36–M80 |
| PA7-950-12-600 | 965.2 | 38 | 86 | 40 | -10 | -3/8 | 140 | 480 | 590 | 1700 | 3000 | 1802.1 | 2790.9 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | M36–M80 |
| PA7-950-13-600 | 965.2 | 38 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 580 | 1800 | 3000 | 2112.3 | 3198.5 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | M36–M80 |

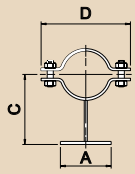
# PA7 RISER CLAMP FLAT PLATE TYPE



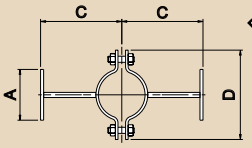

*Material: Carbon Steel to 400°C Alloy Steel above 400°C End Beams and Lugs: Carbon Steel. Order by Part No. and Rod Centres "F"*

| Part Number | Pipe O/D | | A | B | C | | D | E | | F | | Weight kg | | Load Capacity (kg) at Temperature C | | | | | | | Compatible with Rod |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | mm | mm | in | mm | Min. | Max. | Min. | Max. | Min. | Max. | 350 | 400 | 490 | 530 | 560 | 580 | 600 | Sizes |
| PA7-1000-4-400 | 1016 | 40 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 190 | 1500 | 3000 | 284.0 | 427.3 | 3160 | 3160 | | | | | | M8–M30 |
| PA7-1000-5-400 | 1016 | 40 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 230 | 1500 | 3000 | 360.3 | 535.1 | 4560 | 4560 | | | | | | M12–M36 |
| PA7-1000-6-400 | 1016 | 40 | 52 | 16 | -3 | -1/8 | 85 | 228 | 260 | 1500 | 3000 | 470.4 | 704.1 | 7300 | 7300 | | | | | | M20–M48 |
| PA7-1000-7-400 | 1016 | 40 | 60 | 20 | 12 | 1/2 | 100 | 258 | 290 | 1600 | 3000 | 574.9 | 890.4 | 10680 | 10680 | | | | | | M24–M56 |
| PA7-1000-8-400 | 1016 | 40 | 68 | 25 | 32 | 1 1/4 | 115 | 260 | 340 | 1600 | 3000 | 694.8 | 1019.2 | 14800 | 14800 | | | | | | M36–M64 |
| PA7-1000-9-400 | 1016 | 40 | 76 | 25 | 11 | 7/16 | 130 | 300 | 370 | 1600 | 3000 | 798.6 | 1247.2 | 19300 | 19300 | | | | | | M36–M72 |
| PA7-1000-10-400 | 1016 | 40 | 86 | 30 | 26 | 1 | 140 | 340 | 420 | 1700 | 3000 | 1073.3 | 1656.5 | 26700 | 26700 | | | | | | M36–M80 |
| PA7-1000-11-400 | 1016 | 40 | 86 | 35 | -10 | -3/8 | 140 | 380 | 450 | 1700 | 3000 | 1230.5 | 1886.7 | 36000 | 36000 | | | | | | M36–M80 |
| PA7-1000-12-400 | 1016 | 40 | 86 | 40 | -10 | -3/8 | 140 | 430 | 470 | 1800 | 3000 | 1576.1 | 2432.7 | 46050 | 46050 | | | | | | M36–M80 |
| PA7-1000-13-400 | 1016 | 40 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 530 | 1800 | 3000 | 1761.9 | 2724.8 | 56250 | 56250 | | | | | | M36–M80 |
| PA7-1000-4-490 | 1016 | 40 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 190 | 1500 | 3000 | 278.7 | 427.3 | 3160 | 3160 | 3160 | 2050 | 1230 | 880 | 760 | M8–M30 |
| PA7-1000-5-490 | 1016 | 40 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 230 | 1500 | 3000 | 360.3 | 535.1 | 4560 | 4560 | 4560 | 2960 | 1780 | 1280 | 1090 | M12–M36 |
| PA7-1000-6-490 | 1016 | 40 | 52 | 16 | -3 | -1/8 | 85 | 228 | 260 | 1500 | 3000 | 470.4 | 704.1 | 7300 | 7300 | 7300 | 4750 | 2850 | 2040 | 1750 | M20–M48 |
| PA7-1000-7-490 | 1016 | 40 | 60 | 20 | 12 | 1/2 | 100 | 258 | 290 | 1600 | 3000 | 574.9 | 890.4 | 10680 | 10680 | 10680 | 6940 | 4170 | 2990 | 2560 | M24–M56 |
| PA7-1000-8-490 | 1016 | 40 | 68 | 25 | 32 | 1 1/4 | 115 | 260 | 340 | 1600 | 3000 | 694.8 | 1019.2 | 14800 | 14800 | 14800 | 9620 | 5770 | 4140 | 3550 | M36–M64 |
| PA7-1000-9-490 | 1016 | 40 | 76 | 25 | 11 | 7/16 | 130 | 300 | 360 | 1600 | 3000 | 798.6 | 1229.0 | 19300 | 19300 | 19300 | 12550 | 7530 | 5400 | 4630 | M36–M72 |
| PA7-1000-10-490 | 1016 | 40 | 86 | 30 | 26 | 1 | 140 | 324 | 400 | 1700 | 3000 | 967.3 | 1524.6 | 26700 | 26700 | 26700 | 17360 | 10410 | 7480 | 6410 | M36–M80 |
| PA7-1000-11-490 | 1016 | 40 | 86 | 35 | -10 | -3/8 | 140 | 380 | 450 | 1700 | 3000 | 1230.5 | 1886.7 | 36000 | 36000 | 36000 | 23400 | 14040 | 10080 | 8640 | M36–M80 |
| PA7-1000-12-490 | 1016 | 40 | 86 | 40 | -10 | -3/8 | 140 | 430 | 470 | 1800 | 3000 | 1576.1 | 2432.7 | 46050 | 46050 | 46050 | 29930 | 17960 | 12890 | 11050 | M36–M80 |
| PA7-1000-13-490 | 1016 | 40 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 520 | 1800 | 3000 | 1746.0 | 2696.6 | 56250 | 56250 | 56250 | 36560 | 21940 | 15750 | 13500 | M36–M80 |
| PA7-1000-4-530 | 1016 | 40 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 200 | 1500 | 3000 | 289.8 | 439.1 | 3160 | 3160 | 3160 | 3160 | 1900 | 1390 | 1140 | M8–M30 |
| PA7-1000-5-530 | 1016 | 40 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 240 | 1500 | 3000 | 365.6 | 546.9 | 4560 | 4560 | 4560 | 4560 | 2740 | 2010 | 1640 | M12–M36 |
| PA7-1000-6-530 | 1016 | 40 | 52 | 16 | -3 | -1/8 | 85 | 228 | 280 | 1500 | 3000 | 484.6 | 731.9 | 7300 | 7300 | 7300 | 7300 | 4380 | 3210 | 2630 | M20–M48 |
| PA7-1000-7-530 | 1016 | 40 | 60 | 20 | 12 | 1/2 | 100 | 258 | 310 | 1600 | 3000 | 630.1 | 923.1 | 10680 | 10680 | 10680 | 10680 | 6410 | 4700 | 3840 | M24–M56 |
| PA7-1000-8-530 | 1016 | 40 | 68 | 25 | 32 | 1 1/4 | 115 | 280 | 340 | 1600 | 3000 | 754.8 | 1120.9 | 14800 | 14800 | 14800 | 14800 | 8880 | 6510 | 5330 | M36–M64 |
| PA7-1000-9-530 | 1016 | 40 | 76 | 25 | 11 | 7/16 | 130 | 300 | 380 | 1600 | 3000 | 890.2 | 1266.5 | 19300 | 19300 | 19300 | 19300 | 11580 | 8490 | 6950 | M36–M72 |
| PA7-1000-10-530 | 1016 | 40 | 86 | 30 | 26 | 1 | 140 | 330 | 430 | 1700 | 3000 | 1145.0 | 1677.2 | 26700 | 26700 | 26700 | 26700 | 16020 | 11750 | 9610 | M36–M80 |
| PA7-1000-11-530 | 1016 | 40 | 86 | 35 | -10 | -3/8 | 140 | 390 | 460 | 1700 | 3000 | 1354.4 | 1911.2 | 36000 | 36000 | 36000 | 36000 | 21600 | 15840 | 12960 | M36–M80 |
| PA7-1000-12-530 | 1016 | 40 | 86 | 40 | -10 | -3/8 | 140 | 430 | 480 | 1800 | 3000 | 1592.1 | 2462.7 | 46050 | 46050 | 46050 | 46050 | 27630 | 20260 | 16580 | M36–M80 |
| PA7-1000-13-530 | 1016 | 40 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 530 | 1800 | 3000 | 1776.6 | 2724.8 | 56250 | 56250 | 56250 | 56250 | 33750 | 24750 | 20250 | M36–M80 |
| PA7-1000-4-560 | 1016 | 40 | 33 | 10 | -38 | -1 1/2 | 55 | 188 | 230 | 1500 | 3000 | 340.8 | 513.9 | 3160 | 3160 | 3160 | 3160 | 3160 | 2460 | 1830 | M8–M30 |
| PA7-1000-5-560 | 1016 | 40 | 39 | 12 | -28 | -1 1/8 | 65 | 208 | 240 | 1500 | 3000 | 446.1 | 615.7 | 4560 | 4560 | 4560 | 4560 | 4560 | 3560 | 2640 | M12–M36 |
| PA7-1000-6-560 | 1016 | 40 | 52 | 16 | -3 | -1/8 | 85 | 240 | 280 | 1500 | 3000 | 539.7 | 842.8 | 7300 | 7300 | 7300 | 7300 | 7300 | 5690 | 4230 | M20–M48 |
| PA7-1000-7-560 | 1016 | 40 | 60 | 20 | 12 | 1/2 | 100 | 260 | 340 | 1600 | 3000 | 690.1 | 1014.6 | 10680 | 10680 | 10680 | 10680 | 10680 | 8330 | 6190 | M24–M56 |
| PA7-1000-8-560 | 1016 | 40 | 68 | 25 | 32 | 1 1/4 | 115 | 280 | 360 | 1600 | 3000 | 801.2 | 1201.3 | 14800 | 14800 | 14800 | 14800 | 14800 | 11540 | 8580 | M36–M64 |
| PA7-1000-9-560 | 1016 | 40 | 76 | 25 | 11 | 7/16 | 130 | 320 | 390 | 1600 | 3000 | 911.3 | 1452.3 | 19300 | 19300 | 19300 | 19300 | 19300 | 15050 | 11190 | M36–M72 |
| PA7-1000-10-560 | 1016 | 40 | 86 | 30 | 26 | 1 | 140 | 350 | 450 | 1700 | 3000 | 1170.5 | 1719.8 | 26700 | 26700 | 26700 | 26700 | 26700 | 20830 | 15490 | M36–M80 |
| PA7-1000-11-560 | 1016 | 40 | 86 | 35 | -10 | -3/8 | 140 | 380 | 500 | 1800 | 3000 | 1470.1 | 2095.8 | 36000 | 36000 | 36000 | 36000 | 36000 | 28080 | 20880 | M36–M80 |
| PA7-1000-12-560 | 1016 | 40 | 86 | 40 | -10 | -3/8 | 140 | 440 | 500 | 1800 | 3000 | 1742.6 | 2521.0 | 46050 | 46050 | 46050 | 46050 | 46050 | 35920 | 26710 | M36–M80 |
| PA7-1000-13-560 | 1016 | 40 | 86 | 40 | -46 | -1 13/16 | 140 | 466 | 550 | 1800 | 3000 | 1860.7 | 2783.1 | 56250 | 56250 | 56250 | 56250 | 56250 | 43880 | 32630 | M36–M80 |
| PA7-1000-4-600 | 1016 | 40 | 33 | 10 | -38 | -1 1/2 | 55 | 200 | 250 | 1500 | 3000 | 432.4 | 648.2 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | 3160 | M8–M30 |
| PA7-1000-5-600 | 1016 | 40 | 39 | 12 | -28 | -1 1/8 | 65 | 240 | 300 | 1500 | 3000 | 522.5 | 782.4 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | 4560 | M12–M36 |
| PA7-1000-6-600 | 1016 | 40 | 52 | 16 | -3 | -1/8 | 85 | 270 | 350 | 1600 | 3000 | 667.8 | 997.9 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | 7300 | M20–M48 |
| PA7-1000-7-600 | 1016 | 40 | 60 | 20 | 12 | 1/2 | 100 | 300 | 380 | 1600 | 3000 | 859.6 | 1234.2 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | 10680 | M24–M56 |
| PA7-1000-8-600 | 1016 | 40 | 68 | 25 | 32 | 1 1/4 | 115 | 330 | 420 | 1700 | 3000 | 1071.1 | 1576.1 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | 14800 | M36–M64 |
| PA7-1000-9-600 | 1016 | 40 | 76 | 25 | 11 | 7/16 | 130 | 370 | 440 | 1700 | 3000 | 1149.3 | 1758.6 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | 19300 | M36–M72 |
| PA7-1000-10-600 | 1016 | 40 | 86 | 30 | 26 | 1 | 140 | 400 | 450 | 1700 | 3000 | 1427.2 | 2203.1 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | 26700 | M36–M80 |
| PA7-1000-11-600 | 1016 | 40 | 86 | 35 | -10 | -3/8 | 140 | 430 | 520 | 1800 | 3000 | 1713.1 | 2560.2 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | 36000 | M36–M80 |
| PA7-1000-12-600 | 1016 | 40 | 86 | 40 | -10 | -3/8 | 140 | 490 | 590 | 1800 | 3000 | 1998.9 | 2967.3 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | 46050 | M36–M80 |
| PA7-1000-13-600 | 1016 | 40 | 86 | 40 | -46 | -1 13/16 | 140 | 480 | 580 | 1800 | 3000 | 2357.4 | 3293.2 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | 56250 | M36–M80 |

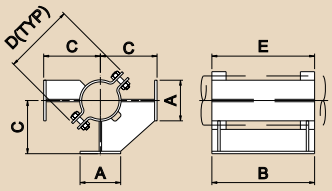
# PS PIPE CLAMP BASE FOR USE AS A SLIDING BASE OR WITH TYPE TB7 SPREADER BEAMS



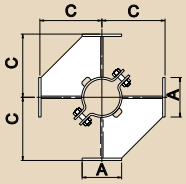

PS1-T1



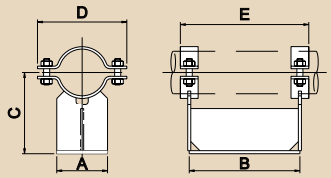

PS2-T1



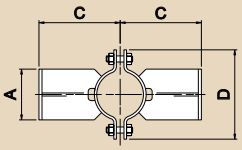

PS3-T1



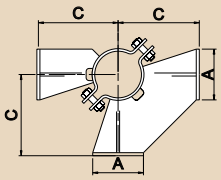

PS4-T1



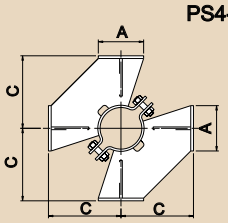

PS1-T2




PS2-T2




PS3-T2




PS4-T2

TYPE PS1 IS FOR USE AS A SLIDING BASE OR WITH SPREADER BEAMS. IF IT IS GUIDED AT THE BASE, THE LOAD CAPACITY IN THE HORIZONTAL DIRECTION IS 30% OF THE STATED VERTICAL LOAD CAPACITY.

TYPE PS2 IS FOR USE AS A GUIDE ON HORIZONTAL OR VERTICAL PIPES OR WHEN USED WITH THE LEGS VERTICAL AS A VERTICAL RESTRAINT ON HORIZONTAL PIPES IN CASES WHERE THE VERTICAL LOAD CAN ACT UPWARDS.

TYPE PS3 IS FOR USE AS A GUIDE ON HORIZONTAL PIPES. THE STATED LOAD CAPACITY IS APPLICABLE TO BOTH VERTICAL AND LATERAL LOADINGS ACTING CONCURRENTLY.

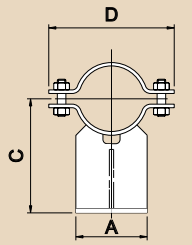
TYPE PS4 IS A TWO WAY GUIDE WHICH CAN BE USED FOR EITHER HORIZONTAL OR VERTICAL PIPES. ANY OF THE PIPE BASES CAN ALSO BE USED AS AXIAL RESTRAINTS IF SHEAR LUGS OR COLLARS ARE FITTED TO THE PIPE. THE LOAD CAPACITY IN THE DIRECTION OF THE PIPE AXIS IS LIMITED TO 30% OF THE LOAD CAPACITY IN THE VERTICAL DIRECTION.

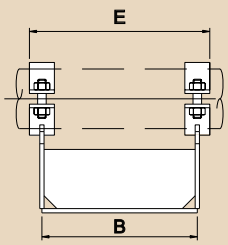
FOR PS1 & PS2 UPTO 40 NB SIZE TYPE TI SHALL BE USED. FOR PS3 & PS4 UPTO 65 NB SIZE TYPE TI SHALL BE USED. FOR 80 NB AND ABOVE SIZE TYPE T2 SHALL BE USED FOR PS1 , PS2, PS3 & PS4.

*Material: Carbon Steel to 400°C Alloy Steel above 400°C Base Plate Weldable Carbon Steel*

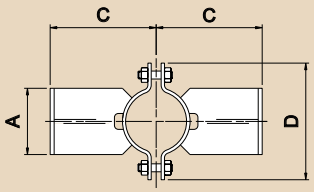
| Part No. (Type PS1) | TYPE (REFER TYPICAL DRAWING) | | Pipe O/D | | A | B | C | | D | E | Max. Temp. | Weight | | | | Load Capacity (See Notes) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Multi-Leg types, replace PS1 with PS2, PS3 or PS4 | PS1&PS2 | PS3&PS4 | mm | in | mm | mm | mm | in | mm | mm | °C | PS1 kgf | PS2 kgf | PS3 kgf | PS4 kgf | kgf |
| PS1-15-1-400 | T1 | T1 | 21.3 | 0.84 | 54 | 185 | 90 | 3 9/16 | 120 | 185 | 400 | 2.0 | 3.0 | 4.7 | 6.1 | 360 |
| PS1-15-1-530 | T1 | T1 | 21.3 | 0.84 | 70 | 190 | 110 | 4 5/16 | 120 | 190 | 530 | 2.6 | 4.0 | 6.4 | 8.2 | 360 |
| PS1-15-1-600 | T1 | T1 | 21.3 | 0.84 | 84 | 190 | 140 | 5 1/2 | 120 | 190 | 600 | 3.0 | 4.7 | 8.2 | 10.7 | 360 |
| PS1-20-1-400 | T1 | T1 | 26.7 | 1.05 | 54 | 185 | 90 | 3 9/16 | 120 | 185 | 400 | 2.0 | 3.0 | 4.6 | 5.9 | 360 |
| PS1-20-1-530 | T1 | T1 | 26.7 | 1.05 | 70 | 190 | 110 | 4 5/16 | 120 | 190 | 530 | 2.5 | 3.9 | 6.3 | 8.1 | 360 |
| PS1-20-1-600 | T1 | T1 | 26.7 | 1.05 | 84 | 190 | 140 | 5 1/2 | 120 | 190 | 600 | 2.9 | 4.7 | 8.1 | 10.6 | 360 |
| PS1-25-1-400 | T1 | T1 | 33.4 | 1.32 | 54 | 185 | 90 | 3 9/16 | 120 | 185 | 400 | 2.1 | 3.3 | 4.5 | 5.8 | 360 |
| PS1-25-1-530 | T1 | T1 | 33.4 | 1.32 | 72 | 190 | 120 | 4 3/4 | 120 | 190 | 530 | 2.9 | 4.6 | 6.7 | 8.6 | 360 |
| PS1-25-1-600 | T1 | T1 | 33.4 | 1.32 | 84 | 190 | 140 | 5 1/2 | 120 | 190 | 600 | 3.2 | 5.3 | 8.0 | 10.5 | 360 |
| PS1-32-1-400 | T1 | T1 | 42.2 | 1.66 | 60 | 185 | 100 | 3 15/16 | 126 | 185 | 400 | 2.3 | 3.6 | 5.0 | 6.5 | 360 |
| PS1-32-1-530 | T1 | T1 | 42.2 | 1.66 | 72 | 190 | 120 | 4 3/4 | 126 | 190 | 530 | 2.9 | 4.6 | 6.6 | 8.5 | 360 |
| PS1-32-1-600 | T1 | T1 | 42.2 | 1.66 | 90 | 190 | 150 | 5 7/8 | 126 | 190 | 600 | 3.4 | 5.6 | 8.6 | 11.3 | 360 |
| PS1-40-1-400 | T1 | T1 | 48.3 | 1.90 | 60 | 185 | 100 | 3 15/16 | 126 | 185 | 400 | 2.3 | 3.6 | 5.0 | 6.4 | 360 |
| PS1-40-1-530 | T1 | T1 | 48.3 | 1.90 | 80 | 190 | 130 | 5 1/8 | 136 | 190 | 530 | 3.2 | 5.0 | 7.3 | 9.5 | 360 |
| PS1-40-1-600 | T1 | T1 | 48.3 | 1.90 | 90 | 190 | 150 | 5 7/8 | 136 | 190 | 600 | 3.5 | 5.7 | 8.6 | 11.3 | 360 |
| PS1-50-2-400 | T2 | T1 | 60.3 | 2.38 | 70 | *203/168 | 110 | 4 5/16 | 146 | 203 | 400 | 2.6 | 3.9 | 5.7 | 7.3 | 530 |
| PS1-50-2-530 | T2 | T1 | 60.3 | 2.38 | 80 | *208/168 | 130 | 5 1/8 | 146 | 208 | 530 | 3.3 | 5.1 | 7.2 | 9.3 | 530 |
| PS1-50-2-600 | T2 | T1 | 60.3 | 2.38 | 100 | *208/168 | 160 | 6 5/16 | 146 | 208 | 600 | 4.2 | 6.8 | 9.4 | 12.4 | 530 |
| PS1-65-2-400 | T2 | T1 | 73.0 | 2.88 | 70 | *253/218 | 110 | 4 5/16 | 166 | 253 | 400 | 2.9 | 4.4 | 6.4 | 8.3 | 530 |
| PS1-65-2-530 | T2 | T1 | 73.0 | 2.88 | 84 | *258/218 | 140 | 5 1/2 | 166 | 258 | 530 | 3.9 | 6.1 | 8.9 | 11.6 | 530 |
| PS1-65-2-600 | T2 | T1 | 73.0 | 2.88 | 100 | *268/218 | 160 | 6 5/16 | 176 | 268 | 600 | 6.2 | 9.1 | 12.4 | 15.7 | 530 |
| PS1-80-2-400 | T2 | T2 | 88.9 | 3.50 | 100 | 218 | 160 | 6 5/16 | 176 | 253 | 400 | 4.3 | 7.1 | 10.0 | 13.1 | 530 |
| PS1-80-2-530 | T2 | T2 | 88.9 | 3.50 | 102 | 218 | 170 | 6 11/16 | 176 | 258 | 530 | 4.8 | 7.9 | 11.0 | 14.4 | 530 |
| PS1-80-2-600 | T2 | T2 | 88.9 | 3.50 | 110 | 218 | 180 | 7 1/16 | 196 | 268 | 600 | 7.1 | 10.4 | 13.8 | 17.6 | 530 |
| PS1-90-2-400 | T2 | T2 | 101.6 | 4.00 | 100 | 218 | 160 | 6 5/16 | 186 | 253 | 400 | 4.3 | 7.0 | 9.8 | 12.9 | 530 |
| PS1-90-2-530 | T2 | T2 | 101.6 | 4.00 | 110 | 218 | 180 | 7 1/16 | 196 | 258 | 530 | 5.3 | 8.6 | 12.0 | 15.7 | 530 |
| PS1-90-2-600 | T2 | T2 | 101.6 | 4.00 | 114 | 218 | 190 | 7 1/2 | 206 | 268 | 600 | 7.5 | 11.0 | 14.6 | 18.7 | 530 |
| PS1-100-3-400 | T2 | T2 | 114.3 | 4.50 | 102 | 218 | 170 | 6 11/16 | 206 | 253 | 400 | 4.7 | 7.5 | 10.5 | 13.8 | 1010 |
| PS1-100-3-530 | T2 | T2 | 114.3 | 4.50 | 114 | 224 | 190 | 7 1/2 | 206 | 264 | 530 | 6.9 | 11.4 | 16.2 | 21.5 | 1010 |
| PS1-100-3-600 | T2 | T2 | 114.3 | 4.50 | 120 | 224 | 200 | 7 7/8 | 226 | 274 | 600 | 9.5 | 14.5 | 19.6 | 25.3 | 1010 |
| PS1-125-3-400 | T2 | T2 | 141.3 | 5.56 | 110 | 218 | 180 | 7 1/16 | 226 | 253 | 400 | 5.1 | 8.0 | 11.1 | 14.6 | 1010 |
| PS1-125-3-530 | T2 | T2 | 141.3 | 5.56 | 120 | 224 | 200 | 7 7/8 | 236 | 264 | 530 | 7.4 | 12.0 | 17.0 | 22.6 | 1010 |
| PS1-125-3-600 | T2 | T2 | 141.3 | 5.56 | 130 | 224 | 210 | 8 1/4 | 246 | 274 | 600 | 10.3 | 15.4 | 20.9 | 26.9 | 1010 |
| PS1-150-4-400 | T2 | T2 | 168.3 | 6.63 | 120 | 224 | 200 | 7 7/8 | 288 | 264 | 400 | 8.4 | 12.6 | 17.3 | 22.4 | 1580 |
| PS1-150-4-530 | T2 | T2 | 168.3 | 6.63 | 130 | 224 | 210 | 8 1/4 | 276 | 274 | 530 | 10.6 | 15.3 | 20.6 | 26.2 | 1580 |
| PS1-150-4-600 | T2 | T2 | 168.3 | 6.63 | 140 | 224 | 230 | 9 1/16 | 276 | 274 | 600 | 11.5 | 17.2 | 23.3 | 30.1 | 1580 |
| PS1-175-5-400 | T2 | T2 | 193.7 | 7.63 | 144 | 274 | 240 | 9 7/16 | 318 | 314 | 400 | 11.1 | 17.6 | 24.8 | 32.6 | 2280 |
| PS1-175-5-530 | T2 | T2 | 193.7 | 7.63 | 150 | 274 | 250 | 9 13/16 | 306 | 324 | 530 | 13.6 | 20.6 | 28.3 | 36.7 | 2280 |
| PS1-175-5-600 | T2 | T2 | 193.7 | 7.63 | 162 | 280 | 270 | 10 5/8 | 306 | 340 | 600 | 18.0 | 28.1 | 39.2 | 51.4 | 2280 |

# PS PIPE CLAMP BASE FOR USE AS A SLIDING BASE OR WITH TYPE TB7 SPREADER BEAMS

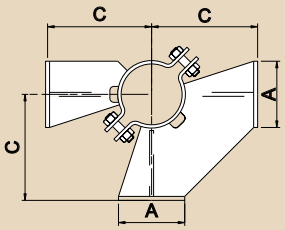



PS1-T2




PS2-T2



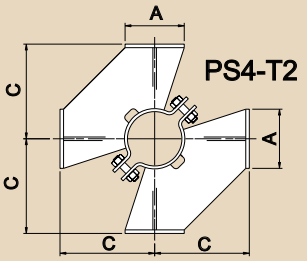

PS3-T2

TYPE PS1 IS FOR USE AS A SLIDING BASE OR WITH SPREADER BEAMS. IF IT IS GUIDED AT THE BASE, THE LOAD CAPACITY IN THE HORIZONTAL DIRECTION IS 30% OF THE STATED VERTICAL LOAD CAPACITY.

TYPE PS2 IS FOR USE AS A GUIDE ON HORIZONTAL OR VERTICAL PIPES OR WHEN USED WITH THE LEGS VERTICAL AS A VERTICAL RESTRAINT ON HORIZONTAL PIPES IN CASES WHERE THE VERTICAL LOAD CAN ACT UPWARDS.

TYPE PS3 IS FOR USE AS A GUIDE ON HORIZONTAL PIPES. THE STATED LOAD CAPACITY IS APPLICABLE TO BOTH VERTICAL AND LATERAL LOADINGS ACTING CONCURRENTLY.

TYPE PS4 IS A TWO WAY GUIDE WHICH CAN BE USED FOR EITHER HORIZONTAL OR VERTICAL PIPES. ANY OF THE PIPE BASES CAN ALSO BE USED AS AXIAL RESTRAINTS IF SHEAR LUGS OR COLLARS ARE FITTED TO THE PIPE. THE LOAD CAPACITY IN THE DIRECTION OF THE PIPE AXIS IS LIMITED TO 30% OF THE LOAD CAPACITY IN THE VERTICAL DIRECTION.

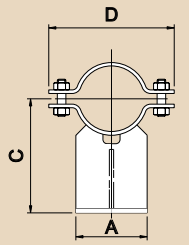


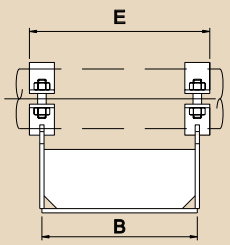

PS4-T2

*Material: Carbon Steel to 400°C Alloy Steel above 400°C Base Plate Weldable Carbon Steel*

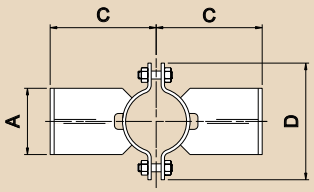
| Part No. (Type PS1) | TYPE (REFER TYPICAL DRAWING) | | Pipe O/D | | A | B | C | | D | E | Max. Temp. | Weight | | | | Load Capacity (See Notes) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Multi-Leg types, replace PS1 with PS2, PS3 or PS4 | PS1&PS2 | PS3&PS4 | mm | in | mm | mm | mm | in | mm | mm | °C | PS1 kgf | PS2 kgf | PS3 kgf | PS4 kgf | kgf |
| PS1-200-3-400 | T2 | T2 | 219.1 | 8.6 | 150 | 268 | 250 | 9 13/16 | 316 | 308 | 400 | 8.5 | 13.5 | 19.1 | 25.2 | 1010 |
| PS1-200-6-400 | T2 | T2 | 219.1 | 8.6 | 150 | 286 | 250 | 9 13/16 | 380 | 346 | 400 | 21.3 | 30.9 | 41.9 | 53.6 | 3650 |
| PS1-200-3-530 | T2 | T2 | 219.1 | 8.6 | 160 | 274 | 260 | 10 1/4 | 336 | 324 | 530 | 14.5 | 21.7 | 29.8 | 38.6 | 1010 |
| PS1-200-6-530 | T2 | T2 | 219.1 | 8.6 | 162 | 286 | 270 | 10 5/8 | 336 | 356 | 530 | 23.1 | 34.4 | 47.2 | 61.0 | 3650 |
| PS1-200-3-600 | T2 | T2 | 219.1 | 8.6 | 170 | 274 | 280 | 11 | 336 | 324 | 600 | 15.6 | 24.0 | 33.2 | 43.3 | 1010 |
| PS1-200-6-600 | T2 | T2 | 219.1 | 8.6 | 170 | 295 | 280 | 11 | 356 | 375 | 600 | 34.6 | 50.9 | 68.9 | 88.5 | 3650 |
| PS1-225-3-400 | T2 | T2 | 244.5 | 9.6 | 160 | 268 | 260 | 10 1/4 | 336 | 308 | 400 | 8.9 | 14.1 | 20.0 | 26.4 | 1010 |
| PS1-225-6-400 | T2 | T2 | 244.5 | 9.6 | 162 | 286 | 270 | 10 5/8 | 410 | 346 | 400 | 23.3 | 33.9 | 46.2 | 59.3 | 3650 |
| PS1-225-3-530 | T2 | T2 | 244.5 | 9.6 | 170 | 274 | 280 | 11 | 356 | 324 | 530 | 15.7 | 23.6 | 32.5 | 42.2 | 1010 |
| PS1-225-6-530 | T2 | T2 | 244.5 | 9.6 | 170 | 286 | 280 | 11 | 366 | 356 | 530 | 24.6 | 36.2 | 49.5 | 63.8 | 3650 |
| PS1-225-3-600 | T2 | T2 | 244.5 | 9.6 | 174 | 274 | 290 | 11 7/16 | 356 | 324 | 600 | 16.2 | 24.5 | 34.1 | 44.5 | 1010 |
| PS1-225-6-600 | T2 | T2 | 244.5 | 9.6 | 180 | 295 | 300 | 11 13/16 | 398 | 375 | 600 | 38.9 | 56.6 | 76.5 | 98.0 | 3650 |
| PS1-250-4-400 | T2 | T2 | 273.0 | 10.8 | 170 | 274 | 280 | 11 | 398 | 314 | 400 | 13.3 | 20.6 | 29.2 | 38.4 | 1580 |
| PS1-250-7-400 | T2 | T2 | 273.0 | 10.8 | 170 | 286 | 280 | 11 | 440 | 346 | 400 | 24.5 | 35.3 | 47.9 | 61.2 | 5340 |
| PS1-250-4-530 | T2 | T2 | 273.0 | 10.8 | 174 | 274 | 290 | 11 7/16 | 386 | 324 | 530 | 16.3 | 24.1 | 33.2 | 43.0 | 1580 |
| PS1-250-7-530 | T2 | T2 | 273.0 | 10.8 | 180 | 295 | 300 | 11 13/16 | 396 | 365 | 530 | 30.8 | 47.4 | 66.6 | 87.2 | 5340 |
| PS1-250-4-600 | T2 | T2 | 273.0 | 10.8 | 180 | 274 | 300 | 11 13/16 | 396 | 344 | 600 | 22.5 | 30.9 | 40.6 | 51.0 | 1580 |
| PS1-250-7-600 | T2 | T2 | 273.0 | 10.8 | 190 | 295 | 310 | 12 3/16 | 428 | 395 | 600 | 46.6 | 64.6 | 85.1 | 107.3 | 5340 |
| PS1-300-4-400 | T2 | T2 | 323.9 | 12.8 | 192 | 324 | 320 | 12 5/8 | 448 | 364 | 400 | 16.3 | 26.0 | 37.3 | 49.4 | 1580 |
| PS1-300-6-400 | T2 | T2 | 323.9 | 12.8 | 192 | 336 | 320 | 12 5/8 | 490 | 396 | 400 | 29.6 | 43.8 | 60.5 | 78.1 | 3650 |
| PS1-300-8-400 | T2 | T2 | 323.9 | 12.8 | 192 | 345 | 320 | 12 5/8 | 542 | 410 | 400 | 47.2 | 65.4 | 86.9 | 109.4 | 7400 |
| PS1-300-4-530 | T2 | T2 | 323.9 | 12.8 | 200 | 324 | 330 | 13 | 446 | 374 | 530 | 20.3 | 30.6 | 42.6 | 55.5 | 1580 |
| PS1-300-6-530 | T2 | T2 | 323.9 | 12.8 | 200 | 336 | 330 | 13 | 468 | 406 | 530 | 32.9 | 48.3 | 66.1 | 85.1 | 3650 |
| PS1-300-8-530 | T2 | T2 | 323.9 | 12.8 | 204 | 345 | 340 | 13 3/8 | 478 | 425 | 530 | 47.5 | 68.8 | 93.8 | 120.3 | 7400 |
| PS1-300-4-600 | T2 | T2 | 323.9 | 12.8 | 222 | 324 | 370 | 14 9/16 | 446 | 394 | 600 | 29.3 | 42.3 | 57.3 | 73.6 | 1580 |
| PS1-300-6-600 | T2 | T2 | 323.9 | 12.8 | 222 | 345 | 370 | 14 9/16 | 478 | 445 | 600 | 58.4 | 84.2 | 113.8 | 145.8 | 3650 |
| PS1-300-8-600 | T2 | T2 | 323.9 | 12.8 | 230 | 360 | 380 | 14 15/16 | 498 | 460 | 600 | 75.0 | 108.9 | 147.5 | 189.2 | 7400 |
| PS1-350-6-400 | T2 | T2 | 355.6 | 14.0 | 210 | 336 | 340 | 13 3/8 | 520 | 396 | 400 | 32.1 | 47.6 | 65.8 | 85.2 | 3650 |
| PS1-350-7-400 | T2 | T2 | 355.6 | 14.0 | 210 | 336 | 340 | 13 3/8 | 520 | 396 | 400 | 32.1 | 47.6 | 65.8 | 85.2 | 5340 |
| PS1-350-9-400 | T2 | T2 | 355.6 | 14.0 | 210 | 360 | 340 | 13 3/8 | 572 | 425 | 400 | 55.9 | 80.8 | 110.0 | 140.7 | 9650 |
| PS1-350-6-530 | T2 | T2 | 355.6 | 14.0 | 210 | 336 | 350 | 13 3/4 | 498 | 416 | 530 | 37.5 | 53.8 | 72.9 | 93.3 | 3650 |
| PS1-350-7-530 | T2 | T2 | 355.6 | 14.0 | 210 | 345 | 350 | 13 3/4 | 498 | 425 | 530 | 42.9 | 64.6 | 90.0 | 117.0 | 5340 |
| PS1-350-9-530 | T2 | T2 | 355.6 | 14.0 | 220 | 360 | 360 | 14 3/16 | 518 | 440 | 530 | 57.4 | 86.3 | 120.0 | 155.7 | 9650 |
| PS1-350-6-600 | T2 | T2 | 355.6 | 14.0 | 234 | 345 | 390 | 15 3/8 | 538 | 445 | 600 | 71.6 | 98.3 | 129.7 | 163.4 | 3650 |
| PS1-350-7-600 | T2 | T2 | 355.6 | 14.0 | 234 | 345 | 390 | 15 3/8 | 538 | 445 | 600 | 71.6 | 98.3 | 129.7 | 163.4 | 5340 |
| PS1-350-9-600 | T2 | T2 | 355.6 | 14.0 | 234 | 360 | 390 | 15 3/8 | 538 | 460 | 600 | 78.1 | 111.6 | 150.7 | 192.7 | 9650 |
| PS1-400-6-400 | T2 | T2 | 406.4 | 16.0 | 240 | 336 | 360 | 14 3/16 | 590 | 391 | 400 | 39.2 | 55.9 | 75.4 | 96.0 | 3650 |
| PS1-400-8-400 | T2 | T2 | 406.4 | 16.0 | 240 | 345 | 360 | 14 3/16 | 622 | 410 | 400 | 55.9 | 77.6 | 103.2 | 130.0 | 7400 |
| PS1-400-10-400 | T2 | T2 | 406.4 | 16.0 | 240 | 375 | 370 | 14 9/16 | 660 | 465 | 400 | 85.7 | 121.1 | 162.6 | 205.9 | 13350 |
| PS1-400-6-530 | T2 | T2 | 406.4 | 16.0 | 240 | 336 | 370 | 14 9/16 | 568 | 416 | 530 | 49.2 | 66.6 | 87.2 | 109.0 | 3650 |
| PS1-400-8-530 | T2 | T2 | 406.4 | 16.0 | 240 | 345 | 380 | 14 15/16 | 568 | 445 | 530 | 63.4 | 87.7 | 116.4 | 146.8 | 7400 |
| PS1-400-10-530 | T2 | T2 | 406.4 | 16.0 | 240 | 375 | 390 | 15 3/8 | 610 | 475 | 530 | 90.2 | 128.9 | 174.6 | 222.6 | 13350 |
| PS1-400-6-600 | T2 | T2 | 406.4 | 16.0 | 250 | 345 | 410 | 16 1/8 | 588 | 445 | 600 | 77.4 | 105.2 | 138.1 | 173.2 | 3650 |
| PS1-400-8-600 | T2 | T2 | 406.4 | 16.0 | 252 | 360 | 420 | 16 9/16 | 588 | 460 | 600 | 85.7 | 121.9 | 164.9 | 210.9 | 7400 |
| PS1-400-10-600 | T2 | T2 | 406.4 | 16.0 | 252 | 375 | 420 | 16 9/16 | 630 | 465 | 600 | 103.0 | 147.4 | 200.1 | 256.2 | 13350 |
| PS1-450-6-400 | T2 | T2 | 457.2 | 18.0 | 270 | 336 | 390 | 15 3/8 | 640 | 391 | 400 | 43.4 | 62.2 | 84.3 | 107.5 | 3650 |
| PS1-450-9-400 | T2 | T2 | 457.2 | 18.0 | 270 | 360 | 390 | 15 3/8 | 682 | 425 | 400 | 68.4 | 99.0 | 135.0 | 172.5 | 9650 |

# PS PIPE CLAMP BASE FOR USE AS A SLIDING BASE OR WITH TYPE TB7 SPREADER BEAMS

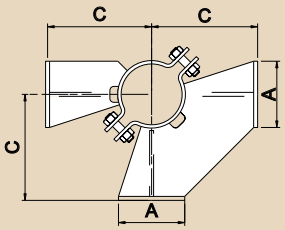



PS1-T2




PS2-T2



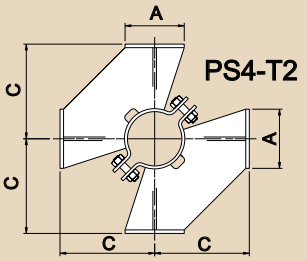

PS3-T2

TYPE PS1 IS FOR USE AS A SLIDING BASE OR WITH SPREADER BEAMS. IF IT IS GUIDED AT THE BASE, THE LOAD CAPACITY IN THE HORIZONTAL DIRECTION IS 30% OF THE STATED VERTICAL LOAD CAPACITY.

TYPE PS2 IS FOR USE AS A GUIDE ON HORIZONTAL OR VERTICAL PIPES OR WHEN USED WITH THE LEGS VERTICAL AS A VERTICAL RESTRAINT ON HORIZONTAL PIPES IN CASES WHERE THE VERTICAL LOAD CAN ACT UPWARDS.

TYPE PS3 IS FOR USE AS A GUIDE ON HORIZONTAL PIPES. THE STATED LOAD CAPACITY IS APPLICABLE TO BOTH VERTICAL AND LATERAL LOADINGS ACTING CONCURRENTLY.

TYPE PS4 IS A TWO WAY GUIDE WHICH CAN BE USED FOR EITHER HORIZONTAL OR VERTICAL PIPES. ANY OF THE PIPE BASES CAN ALSO BE USED AS AXIAL RESTRAINTS IF SHEAR LUGS OR COLLARS ARE FITTED TO THE PIPE. THE LOAD CAPACITY IN THE DIRECTION OF THE PIPE AXIS IS LIMITED TO 30% OF THE LOAD CAPACITY IN THE VERTICAL DIRECTION.

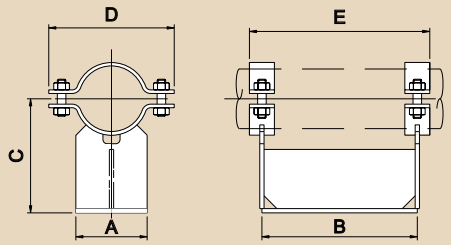



PS4-T2

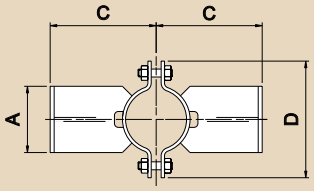
*Material: Carbon Steel to 400°C Alloy Steel above 400°C Base Plate Weldable Carbon Steel*

| Part No. (Type PS1) | TYPE (REFER TYPICAL DRAWING) | Pipe O/D | | A | B | C | | D | E | Max. Temp. | Weight | | | | Load Capacity (See Notes) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Multi-Leg types, replace PS1 with PS2, PS3 or PS4 | PS1,PS2,PS3 & PS4 | mm | in | mm | mm | mm | in | mm | mm | °C | PS1 kgf | PS2 kgf | PS3 kgf | PS4 kgf | kgf |
| PS1-450-11-400 | T2 | 457.2 | 18.0 | 270 | 390 | 400 | 15 3/4 | 738 | 500 | 400 | 117.7 | 165.4 | 221.1 | 279.1 | 18000 |
| PS1-450-6-530 | T2 | 457.2 | 18.0 | 270 | 336 | 400 | 15 3/4 | 618 | 416 | 530 | 54.5 | 74.1 | 97.2 | 121.7 | 3650 |
| PS1-450-9-530 | T2 | 457.2 | 18.0 | 270 | 360 | 410 | 16 1/8 | 618 | 460 | 530 | 77.2 | 111.3 | 151.4 | 193.7 | 9650 |
| PS1-450-11-530 | T2 | 457.2 | 18.0 | 270 | 390 | 420 | 16 9/16 | 692 | 480 | 530 | 117.1 | 167.9 | 228.0 | 290.9 | 18000 |
| PS1-450-6-600 | T2 | 457.2 | 18.0 | 270 | 345 | 440 | 17 5/16 | 638 | 445 | 600 | 84.6 | 114.5 | 150.5 | 189.0 | 3650 |
| PS1-450-9-600 | T2 | 457.2 | 18.0 | 270 | 360 | 450 | 17 11/16 | 638 | 460 | 600 | 93.3 | 132.2 | 179.0 | 229.0 | 9650 |
| PS1-450-11-600 | T2 | 457.2 | 18.0 | 280 | 390 | 460 | 18 1/8 | 700 | 490 | 600 | 145.4 | 205.5 | 277.1 | 353.0 | 18000 |
| PS1-500-6-400 | T2 | 508.0 | 20.0 | 300 | 436 | 440 | 17 5/16 | 690 | 491 | 400 | 53.6 | 80.3 | 111.3 | 143.9 | 3650 |
| PS1-500-9-400 | T2 | 508.0 | 20.0 | 300 | 460 | 450 | 17 11/16 | 732 | 525 | 400 | 86.4 | 131.8 | 184.4 | 239.6 | 9650 |
| PS1-500-12-400 | T2 | 508.0 | 20.0 | 300 | 490 | 460 | 18 1/8 | 788 | 600 | 400 | 145.6 | 215.8 | 297.0 | 381.9 | 23025 |
| PS1-500-6-530 | T2 | 508.0 | 20.0 | 300 | 436 | 450 | 17 11/16 | 668 | 516 | 530 | 65.8 | 93.5 | 125.7 | 159.7 | 3650 |
| PS1-500-9-530 | T2 | 508.0 | 20.0 | 300 | 460 | 460 | 18 1/8 | 668 | 560 | 530 | 94.9 | 142.8 | 198.2 | 256.8 | 9650 |
| PS1-500-12-530 | T2 | 508.0 | 20.0 | 300 | 520 | 480 | 18 7/8 | 752 | 610 | 530 | 170.6 | 268.8 | 382.7 | 501.8 | 23025 |
| PS1-500-6-600 | T2 | 508.0 | 20.0 | 300 | 445 | 490 | 19 5/16 | 698 | 545 | 600 | 101.7 | 143.1 | 192.1 | 244.3 | 3650 |
| PS1-500-9-600 | T2 | 508.0 | 20.0 | 300 | 460 | 500 | 19 11/16 | 698 | 570 | 600 | 119.4 | 173.0 | 236.2 | 303.6 | 9650 |
| PS1-500-12-600 | T2 | 508.0 | 20.0 | 312 | 520 | 520 | 20 1/2 | 772 | 630 | 600 | 219.3 | 332.8 | 465.4 | 605.7 | 23025 |
| PS1-550-6-400 | T2 | 558.8 | 22.0 | 330 | 436 | 460 | 18 1/8 | 740 | 491 | 400 | 57.4 | 85.9 | 118.8 | 153.4 | 3650 |
| PS1-550-8-400 | T2 | 558.8 | 22.0 | 330 | 445 | 470 | 18 1/2 | 782 | 510 | 400 | 82.8 | 121.3 | 166.2 | 213.3 | 7400 |
| PS1-550-10-400 | T2 | 558.8 | 22.0 | 330 | 475 | 480 | 18 7/8 | 810 | 565 | 400 | 126.0 | 188.4 | 260.7 | 336.3 | 13350 |
| PS1-550-13-400 | T2 | 558.8 | 22.0 | 330 | 520 | 490 | 19 5/16 | 896 | 650 | 400 | 225.9 | 326.9 | 443.4 | 564.6 | 28125 |
| PS1-550-6-530 | T2 | 558.8 | 22.0 | 330 | 436 | 480 | 18 7/8 | 718 | 516 | 530 | 71.7 | 102.2 | 137.7 | 175.2 | 3650 |
| PS1-550-8-530 | T2 | 558.8 | 22.0 | 330 | 445 | 480 | 18 7/8 | 760 | 545 | 530 | 106.4 | 146.4 | 193.0 | 242.0 | 7400 |
| PS1-550-10-530 | T2 | 558.8 | 22.0 | 330 | 475 | 490 | 19 5/16 | 760 | 575 | 530 | 130.9 | 195.5 | 270.5 | 349.3 | 13350 |
| PS1-550-13-530 | T2 | 558.8 | 22.0 | 330 | 520 | 500 | 19 11/16 | 830 | 650 | 530 | 222.0 | 326.6 | 447.6 | 573.8 | 28125 |
| PS1-550-6-600 | T2 | 558.8 | 22.0 | 330 | 445 | 520 | 20 1/2 | 748 | 545 | 600 | 110.5 | 156.0 | 209.7 | 266.8 | 3650 |
| PS1-550-8-600 | T2 | 558.8 | 22.0 | 330 | 460 | 520 | 20 1/2 | 768 | 550 | 600 | 129.8 | 185.8 | 252.0 | 322.2 | 7400 |
| PS1-550-10-600 | T2 | 558.8 | 22.0 | 330 | 475 | 530 | 20 7/8 | 780 | 575 | 600 | 155.5 | 227.7 | 313.0 | 403.4 | 13350 |
| PS1-550-13-600 | T2 | 558.8 | 22.0 | 330 | 550 | 550 | 21 5/8 | 890 | 670 | 600 | 320.5 | 466.4 | 638.3 | 818.5 | 28125 |
| PS1-600-6-400 | T2 | 609.6 | 24.0 | 360 | 436 | 490 | 19 5/16 | 800 | 491 | 400 | 62.5 | 93.5 | 129.7 | 167.3 | 3650 |
| PS1-600-8-400 | T2 | 609.6 | 24.0 | 360 | 445 | 490 | 19 5/16 | 842 | 510 | 400 | 88.5 | 129.2 | 176.8 | 226.0 | 7400 |
| PS1-600-10-400 | T2 | 609.6 | 24.0 | 360 | 475 | 500 | 19 11/16 | 870 | 565 | 400 | 134.5 | 200.4 | 277.0 | 356.1 | 13350 |
| PS1-600-13-400 | T2 | 609.6 | 24.0 | 360 | 520 | 520 | 20 1/2 | 946 | 650 | 400 | 243.3 | 353.8 | 482.1 | 614.4 | 28125 |
| PS1-600-6-530 | T2 | 609.6 | 24.0 | 360 | 436 | 500 | 19 11/16 | 778 | 516 | 530 | 76.9 | 109.0 | 146.5 | 185.7 | 3650 |
| PS1-600-8-530 | T2 | 609.6 | 24.0 | 360 | 445 | 500 | 19 11/16 | 820 | 545 | 530 | 114.1 | 156.2 | 205.7 | 257.0 | 7400 |
| PS1-600-10-530 | T2 | 609.6 | 24.0 | 360 | 475 | 510 | 20 1/16 | 820 | 575 | 530 | 140.0 | 208.2 | 287.7 | 370.1 | 13350 |
| PS1-600-13-530 | T2 | 609.6 | 24.0 | 360 | 520 | 530 | 20 7/8 | 910 | 630 | 530 | 241.7 | 354.1 | 485.2 | 620.7 | 28125 |
| PS1-600-6-600 | T2 | 609.6 | 24.0 | 360 | 445 | 540 | 21 1/4 | 798 | 545 | 600 | 117.9 | 165.7 | 222.6 | 282.4 | 3650 |
| PS1-600-8-600 | T2 | 609.6 | 24.0 | 360 | 460 | 550 | 21 5/8 | 818 | 550 | 600 | 140.2 | 201.1 | 273.5 | 349.5 | 7400 |
| PS1-600-10-600 | T2 | 609.6 | 24.0 | 360 | 475 | 550 | 21 5/8 | 840 | 585 | 600 | 175.3 | 251.5 | 341.5 | 436.1 | 13350 |
| PS1-600-13-600 | T2 | 609.6 | 24.0 | 360 | 550 | 580 | 22 13/16 | 950 | 670 | 600 | 347.6 | 506.5 | 694.4 | 890.1 | 28125 |
| PS1-650-6-400 | T2 | 660.4 | 26.0 | 390 | 436 | 540 | 21 1/4 | 870 | 501 | 400 | 85.2 | 120.8 | 162.5 | 206.5 | 3650 |
| PS1-650-8-400 | T2 | 660.4 | 26.0 | 390 | 445 | 540 | 21 1/4 | 892 | 510 | 400 | 98.4 | 145.9 | 201.4 | 259.9 | 7400 |
| PS1-650-10-400 | T2 | 660.4 | 26.0 | 390 | 475 | 550 | 21 5/8 | 920 | 565 | 400 | 149.7 | 226.4 | 315.8 | 409.7 | 13350 |
| PS1-650-13-400 | T2 | 660.4 | 26.0 | 390 | 520 | 570 | 22 7/16 | 996 | 670 | 400 | 289.5 | 418.0 | 567.5 | 724.1 | 28125 |
| PS1-650-6-530 | T2 | 660.4 | 26.0 | 390 | 436 | 580 | 22 13/16 | 828 | 516 | 530 | 88.6 | 129.3 | 177.3 | 228.7 | 3650 |
| PS1-650-8-530 | T2 | 660.4 | 26.0 | 390 | 445 | 580 | 22 13/16 | 848 | 545 | 530 | 128.2 | 181.7 | 245.0 | 312.5 | 7400 |
| PS1-650-10-530 | T2 | 660.4 | 26.0 | 390 | 475 | 590 | 23 1/4 | 870 | 575 | 530 | 163.1 | 249.5 | 351.1 | 459.2 | 13350 |

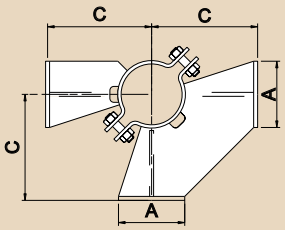
# PS PIPE CLAMP BASE FOR USE AS A SLIDING BASE OR WITH TYPE TB7 SPREADER BEAMS




PS1-T2




PS2-T2



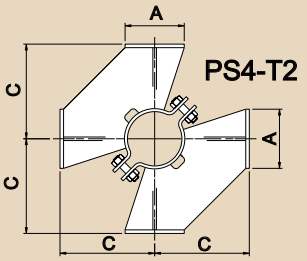

PS3-T2

TYPE PS1 IS FOR USE AS A SLIDING BASE OR WITH SPREADER BEAMS. IF IT IS GUIDED AT THE BASE, THE LOAD CAPACITY IN THE HORIZONTAL DIRECTION IS 30% OF THE STATED VERTICAL LOAD CAPACITY.

TYPE PS2 IS FOR USE AS A GUIDE ON HORIZONTAL OR VERTICAL PIPES OR WHEN USED WITH THE LEGS VERTICAL AS A VERTICAL RESTRAINT ON HORIZONTAL PIPES IN CASES WHERE THE VERTICAL LOAD CAN ACT UPWARDS.

TYPE PS3 IS FOR USE AS A GUIDE ON HORIZONTAL PIPES. THE STATED LOAD CAPACITY IS APPLICABLE TO BOTH VERTICAL AND LATERAL LOADINGS ACTING CONCURRENTLY.

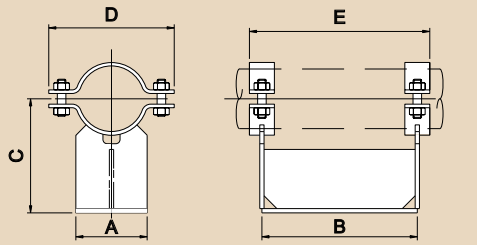
TYPE PS4 IS A TWO WAY GUIDE WHICH CAN BE USED FOR EITHER HORIZONTAL OR VERTICAL PIPES. ANY OF THE PIPE BASES CAN ALSO BE USED AS AXIAL RESTRAINTS IF SHEAR LUGS OR COLLARS ARE FITTED TO THE PIPE. THE LOAD CAPACITY IN THE DIRECTION OF THE PIPE AXIS IS LIMITED TO 30% OF THE LOAD CAPACITY IN THE VERTICAL DIRECTION.



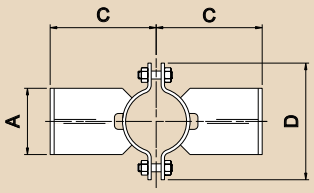

PS4-T2

| Part No. (Type PS1) | TYPE (REFER TYPICAL DRAWING) | Pipe O/D | | A | B | C | | D | E | Max. Temp. | Weight | | | | Load Capacity (See Notes) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Multi-Leg types, replace PS1 with PS2, PS3 or PS4 | PS1,PS2,PS3 & PS4 | mm | in | mm | mm | mm | in | mm | mm | °C | PS1 kgf | PS2 kgf | PS3 kgf | PS4 kgf | kgf |
| PS1-650-13-530 | T2 | 660.4 | 26.0 | 390 | 520 | 600 | 23 5/8 | 960 | 630 | 530 | 275.7 | 414.1 | 576.8 | 748.4 | 28125 |
| PS1-650-6-600 | T2 | 660.4 | 26.0 | 390 | 445 | 620 | 24 7/16 | 848 | 545 | 600 | 134.6 | 194.2 | 265.5 | 342.3 | 3650 |
| PS1-650-8-600 | T2 | 660.4 | 26.0 | 390 | 460 | 620 | 24 7/16 | 868 | 550 | 600 | 158.6 | 232.4 | 320.6 | 415.3 | 7400 |
| PS1-650-10-600 | T2 | 660.4 | 26.0 | 390 | 475 | 630 | 24 13/16 | 890 | 595 | 600 | 210.0 | 304.8 | 418.1 | 539.6 | 13350 |
| PS1-650-13-600 | T2 | 660.4 | 26.0 | 390 | 550 | 650 | 25 9/16 | 1000 | 670 | 600 | 393.0 | 585.8 | 815.8 | 1059.6 | 28125 |
| PS1-700-6-400 | T2 | 711.2 | 28.0 | 420 | 536 | 560 | 22 1/16 | 920 | 601 | 400 | 95.5 | 138.2 | 187.3 | 238.7 | 3650 |
| PS1-700-8-400 | T2 | 711.2 | 28.0 | 420 | 545 | 570 | 22 7/16 | 942 | 610 | 400 | 112.8 | 171.4 | 238.9 | 309.6 | 7400 |
| PS1-700-10-400 | T2 | 711.2 | 28.0 | 420 | 575 | 580 | 22 13/16 | 970 | 665 | 400 | 171.8 | 266.2 | 374.4 | 487.6 | 13350 |
| PS1-700-13-400 | T2 | 711.2 | 28.0 | 420 | 620 | 590 | 23 1/4 | 1046 | 770 | 400 | 323.0 | 475.7 | 650.4 | 832.2 | 28125 |
| PS1-700-6-530 | T2 | 711.2 | 28.0 | 420 | 536 | 600 | 23 5/8 | 878 | 616 | 530 | 99.6 | 148.0 | 204.1 | 263.6 | 3650 |
| PS1-700-8-530 | T2 | 711.2 | 28.0 | 420 | 545 | 610 | 24 | 920 | 645 | 530 | 147.4 | 212.9 | 289.0 | 369.6 | 7400 |
| PS1-700-10-530 | T2 | 711.2 | 28.0 | 420 | 575 | 620 | 24 7/16 | 920 | 675 | 530 | 186.9 | 292.2 | 414.1 | 542.9 | 13350 |
| PS1-700-13-530 | T2 | 711.2 | 28.0 | 420 | 620 | 630 | 24 13/16 | 1010 | 730 | 530 | 313.7 | 482.1 | 676.9 | 881.4 | 28125 |
| PS1-700-6-600 | T2 | 711.2 | 28.0 | 420 | 545 | 640 | 25 3/16 | 898 | 645 | 600 | 150.5 | 221.2 | 303.9 | 392.2 | 3650 |
| PS1-700-8-600 | T2 | 711.2 | 28.0 | 420 | 560 | 650 | 25 9/16 | 918 | 650 | 600 | 179.9 | 269.5 | 374.7 | 486.7 | 7400 |
| PS1-700-10-600 | T2 | 711.2 | 28.0 | 420 | 575 | 650 | 25 9/16 | 960 | 675 | 600 | 234.4 | 345.1 | 475.0 | 612.9 | 13350 |
| PS1-700-13-600 | T2 | 711.2 | 28.0 | 420 | 650 | 680 | 26 3/4 | 1050 | 770 | 600 | 444.4 | 676.9 | 949.4 | 1236.9 | 28125 |
| PS1-750-6-400 | T2 | 762.0 | 30.0 | 450 | 536 | 590 | 23 1/4 | 970 | 601 | 400 | 101.9 | 147.7 | 200.7 | 256.0 | 3650 |
| PS1-750-8-400 | T2 | 762.0 | 30.0 | 450 | 545 | 590 | 23 1/4 | 992 | 610 | 400 | 118.5 | 179.7 | 249.7 | 323.1 | 7400 |
| PS1-750-10-400 | T2 | 762.0 | 30.0 | 450 | 575 | 600 | 23 5/8 | 1020 | 665 | 400 | 180.3 | 278.8 | 391.8 | 509.6 | 13350 |
| PS1-750-13-400 | T2 | 762.0 | 30.0 | 450 | 620 | 620 | 24 7/16 | 1096 | 770 | 400 | 343.6 | 507.7 | 695.8 | 891.5 | 28125 |
| PS1-750-6-530 | T2 | 762.0 | 30.0 | 450 | 536 | 630 | 24 13/16 | 928 | 616 | 530 | 106.2 | 158.1 | 218.0 | 281.6 | 3650 |
| PS1-750-8-530 | T2 | 762.0 | 30.0 | 450 | 545 | 630 | 24 13/16 | 970 | 645 | 530 | 155.0 | 223.2 | 302.4 | 386.0 | 7400 |
| PS1-750-10-530 | T2 | 762.0 | 30.0 | 450 | 575 | 640 | 25 3/16 | 970 | 675 | 530 | 196.4 | 306.3 | 433.3 | 567.3 | 13350 |
| PS1-750-13-530 | T2 | 762.0 | 30.0 | 450 | 620 | 660 | 26 | 1060 | 730 | 530 | 333.8 | 514.2 | 723.2 | 942.6 | 28125 |
| PS1-750-6-600 | T2 | 762.0 | 30.0 | 450 | 545 | 670 | 26 3/8 | 948 | 645 | 600 | 160.3 | 235.8 | 323.9 | 418.1 | 3650 |
| PS1-750-8-600 | T2 | 762.0 | 30.0 | 450 | 560 | 670 | 26 3/8 | 978 | 650 | 600 | 190.0 | 283.5 | 393.0 | 509.3 | 7400 |
| PS1-750-10-600 | T2 | 762 | 30.0 | 450 | 575 | 680 | 26 3/4 | 1010 | 675 | 600 | 249.4 | 367.7 | 506.7 | 654.2 | 13350 |
| PS1-750-13-600 | T2 | 762 | 30.0 | 450 | 650 | 700 | 27 9/16 | 1100 | 770 | 600 | 466.3 | 709.1 | 993.0 | 1291.8 | 28125 |
| PS1-800-6-400 | T2 | 812.8 | 32.0 | 480 | 536 | 610 | 24 | 1020 | 601 | 400 | 107.0 | 154.6 | 209.7 | 267.1 | 3650 |
| PS1-800-8-400 | T2 | 812.8 | 32.0 | 480 | 545 | 620 | 24 7/16 | 1042 | 610 | 400 | 125.9 | 191.2 | 266.7 | 345.4 | 7400 |
| PS1-800-10-400 | T2 | 812.8 | 32.0 | 480 | 575 | 630 | 24 13/16 | 1070 | 685 | 400 | 210.2 | 315.6 | 436.9 | 563.4 | 13350 |
| PS1-800-13-400 | T2 | 812.8 | 32.0 | 480 | 620 | 640 | 25 3/16 | 1176 | 770 | 400 | 395.9 | 564.2 | 757.8 | 958.3 | 28125 |
| PS1-800-6-530 | T2 | 812.8 | 32.0 | 480 | 536 | 650 | 25 9/16 | 978 | 616 | 530 | 111.4 | 165.3 | 227.8 | 293.8 | 3650 |
| PS1-800-8-530 | T2 | 812.8 | 32.0 | 480 | 545 | 660 | 26 | 1020 | 645 | 530 | 164.6 | 237.4 | 322.1 | 411.5 | 7400 |
| PS1-800-10-530 | T2 | 812.8 | 32.0 | 480 | 575 | 670 | 26 3/8 | 1042 | 685 | 530 | 221.2 | 338.4 | 474.2 | 617.5 | 13350 |
| PS1-800-13-530 | T2 | 812.8 | 32.0 | 480 | 620 | 680 | 26 3/4 | 1110 | 730 | 530 | 349.3 | 537.0 | 754.4 | 982.1 | 28125 |
| PS1-800-6-600 | T2 | 812.8 | 32.0 | 480 | 545 | 690 | 27 3/16 | 1008 | 645 | 600 | 168.9 | 247.3 | 339.0 | 436.6 | 3650 |
| PS1-800-8-600 | T2 | 812.8 | 32.0 | 480 | 560 | 700 | 27 9/16 | 1050 | 660 | 600 | 215.5 | 315.0 | 431.9 | 556.0 | 7400 |
| PS1-800-10-600 | T2 | 812.8 | 32.0 | 480 | 575 | 700 | 27 9/16 | 1070 | 675 | 600 | 262.5 | 385.6 | 530.0 | 682.9 | 13350 |
| PS1-800-13-600 | T2 | 812.8 | 32.0 | 480 | 650 | 730 | 28 3/4 | 1160 | 770 | 600 | 495.7 | 754.5 | 1057.5 | 1376.4 | 28125 |
| PS1-850-6-400 | T2 | 863.6 | 34.0 | 510 | 536 | 640 | 25 3/16 | 1070 | 601 | 400 | 113.5 | 164.5 | 223.7 | 285.3 | 3650 |
| PS1-850-8-400 | T2 | 863.6 | 34.0 | 510 | 545 | 640 | 25 3/16 | 1092 | 610 | 400 | 131.8 | 199.7 | 278.3 | 360.1 | 7400 |
| PS1-850-10-400 | T2 | 863.6 | 34.0 | 510 | 575 | 650 | 25 9/16 | 1120 | 685 | 400 | 219.9 | 329.5 | 455.8 | 587.2 | 13350 |
| PS1-850-13-400 | T2 | 863.6 | 34.0 | 510 | 620 | 670 | 26 3/8 | 1226 | 770 | 400 | 418.8 | 599.1 | 806.9 | 1022.3 | 28125 |
| PS1-850-6-530 | T2 | 863.6 | 34.0 | 510 | 536 | 680 | 26 3/4 | 1028 | 616 | 530 | 118.1 | 175.6 | 242.4 | 313.0 | 3650 |

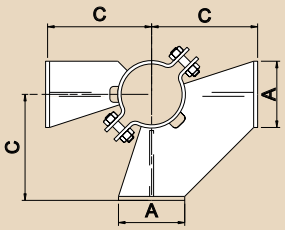
# PS PIPE CLAMP BASE FOR USE AS A SLIDING BASE OR WITH TYPE TB7 SPREADER BEAMS




PS1-T2




PS2-T2



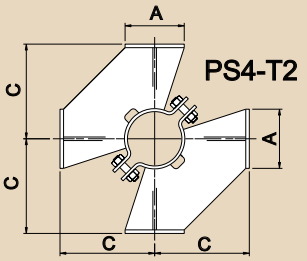

PS3-T2

TYPE PS1 IS FOR USE AS A SLIDING BASE OR WITH SPREADER BEAMS. IF IT IS GUIDED AT THE BASE, THE LOAD CAPACITY IN THE HORIZONTAL DIRECTION IS 30% OF THE STATED VERTICAL LOAD CAPACITY.

TYPE PS2 IS FOR USE AS A GUIDE ON HORIZONTAL OR VERTICAL PIPES OR WHEN USED WITH THE LEGS VERTICAL AS A VERTICAL RESTRAINT ON HORIZONTAL PIPES IN CASES WHERE THE VERTICAL LOAD CAN ACT UPWARDS.

TYPE PS3 IS FOR USE AS A GUIDE ON HORIZONTAL PIPES. THE STATED LOAD CAPACITY IS APPLICABLE TO BOTH VERTICAL AND LATERAL LOADINGS ACTING CONCURRENTLY.

TYPE PS4 IS A TWO WAY GUIDE WHICH CAN BE USED FOR EITHER HORIZONTAL OR VERTICAL PIPES. ANY OF THE PIPE BASES CAN ALSO BE USED AS AXIAL RESTRAINTS IF SHEAR LUGS OR COLLARS ARE FITTED TO THE PIPE. THE LOAD CAPACITY IN THE DIRECTION OF THE PIPE AXIS IS LIMITED TO 30% OF THE LOAD CAPACITY IN THE VERTICAL DIRECTION.

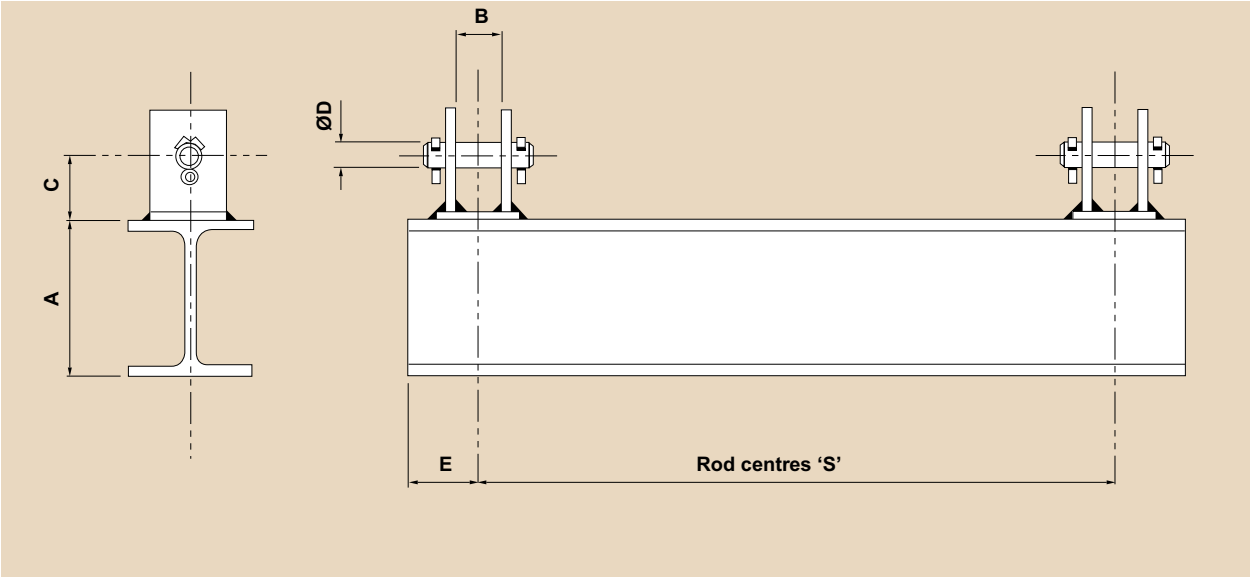



PS4-T2

*Material: Carbon Steel to 400°C Alloy Steel above 400°C Base Plate Weldable Carbon Steel*

| Part No. (Type PS1) | TYPE (REFER TYPICAL DRAWING) | Pipe O/D | | A | B | C | | D | E | Max. Temp. | Weight | | | | Load Capacity (See Notes) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Multi-Leg types, replace PS1 with PS2, PS3 or PS4 | PS1,PS2,PS3 & PS4 | mm | in | mm | mm | mm | in | mm | mm | °C | PS1 kgf | PS2 kgf | PS3 kgf | PS4 kgf | kgf |
| PS1-850-8-530 | T2 | 863.6 | 34.0 | 510 | 545 | 680 | 26 3/4 | 1070 | 645 | 530 | 172.5 | 248.2 | 336.3 | 429.0 | 7400 |
| PS1-850-10-530 | T2 | 863.6 | 34.0 | 510 | 575 | 690 | 27 3/16 | 1092 | 685 | 530 | 231.3 | 353.2 | 494.6 | 643.3 | 13350 |
| PS1-850-13-530 | T2 | 863.6 | 34.0 | 510 | 620 | 710 | 27 15/16 | 1170 | 740 | 530 | 386.0 | 586.3 | 818.8 | 1062.4 | 28125 |
| PS1-850-6-600 | T2 | 863.6 | 34.0 | 510 | 545 | 720 | 28 3/8 | 1058 | 645 | 600 | 178.9 | 262.4 | 360.2 | 464.3 | 3650 |
| PS1-850-8-600 | T2 | 863.6 | 34.0 | 510 | 560 | 720 | 28 3/8 | 1100 | 660 | 600 | 225.6 | 329.2 | 450.6 | 579.3 | 7400 |
| PS1-850-10-600 | T2 | 863.6 | 34.0 | 510 | 575 | 730 | 28 3/4 | 1120 | 675 | 600 | 277.9 | 409.0 | 563.1 | 726.1 | 13350 |
| PS1-850-13-600 | T2 | 863.6 | 34.0 | 510 | 650 | 750 | 29 1/2 | 1210 | 770 | 600 | 517.9 | 787.4 | 1102.3 | 1433.2 | 28125 |
| PS1-900-6-400 | T2 | 914.4 | 36.0 | 540 | 636 | 670 | 26 3/8 | 1130 | 701 | 400 | 127.0 | 187.8 | 257.5 | 329.9 | 3650 |
| PS1-900-8-400 | T2 | 914.4 | 36.0 | 540 | 645 | 670 | 26 3/8 | 1142 | 710 | 400 | 148.1 | 229.1 | 321.7 | 417.7 | 7400 |
| PS1-900-10-400 | T2 | 914.4 | 36.0 | 540 | 675 | 680 | 26 3/4 | 1180 | 785 | 400 | 246.7 | 377.0 | 525.4 | 679.3 | 13350 |
| PS1-900-13-400 | T2 | 914.4 | 36.0 | 540 | 720 | 690 | 27 3/16 | 1276 | 870 | 400 | 457.7 | 665.7 | 902.5 | 1146.5 | 28125 |
| PS1-900-6-530 | T2 | 914.4 | 36.0 | 540 | 636 | 700 | 27 9/16 | 1088 | 736 | 530 | 146.4 | 212.8 | 288.9 | 368.7 | 3650 |
| PS1-900-8-530 | T2 | 914.4 | 36.0 | 540 | 645 | 710 | 27 15/16 | 1130 | 745 | 530 | 191.9 | 281.5 | 384.5 | 492.5 | 7400 |
| PS1-900-10-530 | T2 | 914.4 | 36.0 | 540 | 675 | 720 | 28 3/8 | 1172 | 765 | 530 | 260.9 | 403.0 | 566.3 | 736.9 | 13350 |
| PS1-900-13-530 | T2 | 914.4 | 36.0 | 540 | 720 | 730 | 28 3/4 | 1220 | 850 | 530 | 440.2 | 670.3 | 933.8 | 1208.1 | 28125 |
| PS1-900-6-600 | T2 | 914.4 | 36.0 | 540 | 645 | 740 | 29 1/8 | 1108 | 745 | 600 | 196.4 | 292.4 | 403.3 | 520.4 | 3650 |
| PS1-900-8-600 | T2 | 914.4 | 36.0 | 540 | 660 | 750 | 29 1/2 | 1150 | 760 | 600 | 250.0 | 371.8 | 512.7 | 661.3 | 7400 |
| PS1-900-10-600 | T2 | 914.4 | 36.0 | 540 | 675 | 750 | 29 1/2 | 1170 | 775 | 600 | 304.8 | 455.3 | 629.6 | 812.8 | 13350 |
| PS1-900-13-600 | T2 | 914.4 | 36.0 | 540 | 750 | 780 | 30 11/16 | 1260 | 870 | 600 | 575.5 | 890.6 | 1254.6 | 1635.4 | 28125 |
| PS1-950-6-400 | T2 | 965.2 | 38.0 | 570 | 636 | 690 | 27 3/16 | 1180 | 701 | 400 | 132.2 | 195.1 | 267.2 | 341.9 | 3650 |
| PS1-950-8-400 | T2 | 965.2 | 38.0 | 570 | 645 | 690 | 27 3/16 | 1202 | 735 | 400 | 181.0 | 264.7 | 360.5 | 459.6 | 7400 |
| PS1-950-10-400 | T2 | 965.2 | 38.0 | 570 | 675 | 700 | 27 9/16 | 1230 | 785 | 400 | 256.5 | 391.1 | 544.7 | 703.6 | 13350 |
| PS1-950-13-400 | T2 | 965.2 | 38.0 | 570 | 720 | 720 | 28 3/8 | 1336 | 870 | 400 | 483.0 | 703.6 | 955.6 | 1215.3 | 28125 |
| PS1-950-6-530 | T2 | 965.2 | 38.0 | 570 | 636 | 730 | 28 3/4 | 1138 | 736 | 530 | 154.2 | 224.5 | 305.2 | 389.8 | 3650 |
| PS1-950-8-530 | T2 | 965.2 | 38.0 | 570 | 645 | 730 | 28 3/4 | 1180 | 745 | 530 | 200.0 | 292.7 | 399.4 | 511.0 | 7400 |
| PS1-950-10-530 | T2 | 965.2 | 38.0 | 570 | 675 | 740 | 29 1/8 | 1222 | 765 | 530 | 271.2 | 418.0 | 586.9 | 763.0 | 13350 |
| PS1-950-13-530 | T2 | 965.2 | 38.0 | 570 | 720 | 760 | 29 15/16 | 1270 | 850 | 530 | 463.3 | 706.9 | 986.4 | 1277.5 | 28125 |
| PS1-950-6-600 | T2 | 965.2 | 38.0 | 570 | 645 | 770 | 30 5/16 | 1158 | 745 | 600 | 206.9 | 308.5 | 426.1 | 550.3 | 3650 |
| PS1-950-8-600 | T2 | 965.2 | 38.0 | 570 | 660 | 780 | 30 11/16 | 1200 | 760 | 600 | 263.0 | 391.7 | 540.8 | 698.0 | 7400 |
| PS1-950-10-600 | T2 | 965.2 | 38.0 | 570 | 675 | 780 | 30 11/16 | 1220 | 775 | 600 | 320.7 | 479.8 | 664.3 | 858.3 | 13350 |
| PS1-950-13-600 | T2 | 965.2 | 38.0 | 570 | 750 | 810 | 31 7/8 | 1320 | 880 | 600 | 628.9 | 961.9 | 1347.2 | 1750.3 | 28125 |
| PS1-1000-6-400 | T2 | 1016 | 40.0 | 600 | 636 | 720 | 28 3/8 | 1230 | 701 | 400 | 139.2 | 205.9 | 282.6 | 362.1 | 3650 |
| PS1-1000-8-400 | T2 | 1016 | 40.0 | 600 | 645 | 720 | 28 3/8 | 1252 | 735 | 400 | 190.7 | 279.6 | 381.8 | 487.5 | 7400 |
| PS1-1000-10-400 | T2 | 1016 | 40.0 | 600 | 675 | 730 | 28 3/4 | 1280 | 785 | 400 | 270.1 | 412.9 | 576.3 | 745.3 | 13350 |
| PS1-1000-13-400 | T2 | 1016 | 40.0 | 600 | 720 | 740 | 29 1/8 | 1386 | 870 | 400 | 501.6 | 729.8 | 990.8 | 1259.2 | 28125 |
| PS1-1000-6-530 | T2 | 1016.0 | 40.0 | 600 | 636 | 750 | 29 1/2 | 1188 | 736 | 530 | 160.5 | 233.1 | 316.6 | 404.0 | 3650 |
| PS1-1000-8-530 | T2 | 1016.0 | 40.0 | 600 | 645 | 760 | 29 15/16 | 1230 | 745 | 530 | 210.3 | 308.5 | 421.6 | 540.0 | 7400 |
| PS1-1000-10-530 | T2 | 1016 | 40.0 | 600 | 675 | 770 | 30 5/16 | 1272 | 765 | 530 | 285.3 | 440.8 | 619.9 | 806.7 | 13350 |
| PS1-1000-13-530 | T2 | 1016 | 40.0 | 600 | 720 | 780 | 30 11/16 | 1320 | 850 | 530 | 481.2 | 733.1 | 1022.4 | 1323.0 | 28125 |
| PS1-1000-6-600 | T2 | 1016 | 40.0 | 600 | 645 | 800 | 31 1/2 | 1208 | 755 | 600 | 228.5 | 335.8 | 460.2 | 591.6 | 3650 |
| PS1-1000-8-600 | T2 | 1016 | 40.0 | 600 | 660 | 800 | 31 1/2 | 1250 | 770 | 600 | 287.4 | 420.3 | 574.5 | 736.7 | 7400 |
| PS1-1000-10-600 | T2 | 1016 | 40.0 | 600 | 675 | 810 | 31 7/8 | 1270 | 775 | 600 | 337.1 | 505.2 | 700.5 | 905.7 | 13350 |
| PS1-1000-13-600 | T2 | 1016 | 40.0 | 600 | 750 | 830 | 32 11/16 | 1370 | 890 | 600 | 676.3 | 1020.7 | 1419.1 | 1835.2 | 28125 |

# TB6 SPREADERBEAM




*Material: Carbon Steel*

*Order by Part No., Beam Reference and Rod Centres "S"*

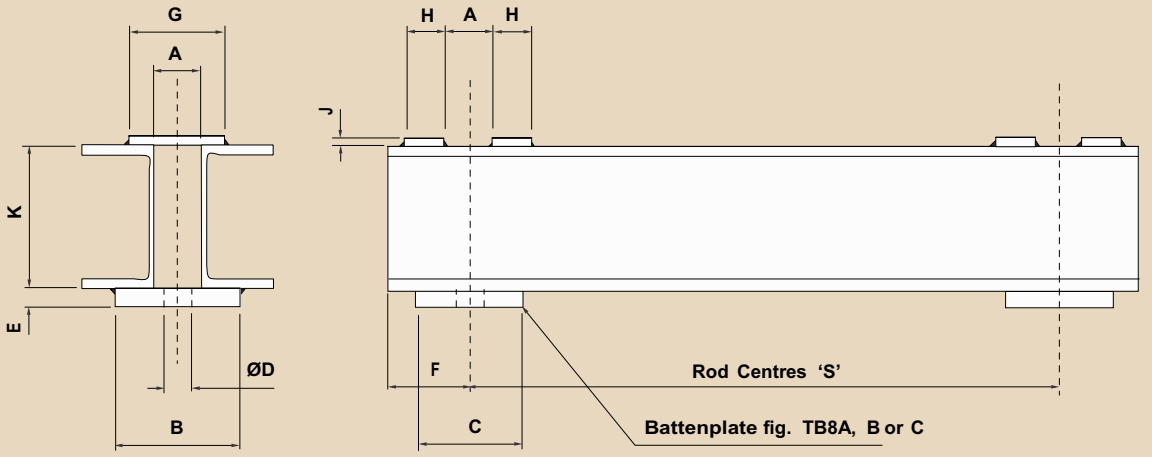
| PART No. | ROD DIA | LOAD CAPACITY | | LOAD GROUP | B | C | D | E | WEIGHT EXCLUDING BEAM |
|---|---|---|---|---|---|---|---|---|---|
| | | kg | kN | | mm | mm | mm | mm | kg |
| TB6M10 | 10 | 720 | 7.0 | 1 | 30 | 36 | 10 | 50 | 0.78 |
| TB6M12 | 12 | 1060 | 10.4 | 2 | 30 | 36 | 12 | 50 | 0.80 |
| TB6M16 | 16 | 2020 | 19.8 | 3 | 30 | 42 | 16 | 50 | 1.0 |
| TB6M20 | 20 | 3160 | 31.0 | 4 | 35 | 60 | 20 | 60 | 2.2 |
| TB6M24 | 24 | 4560 | 44.8 | 5 | 40 | 70 | 24 | 60 | 4.0 |
| TB6M30 | 30 | 7300 | 71.6 | 6 | 40 | 82 | 30 | 60 | 6.9 |
| TB6M36 | 36 | 10680 | 104.8 | 7 | 55 | 95 | 36 | 75 | 11.5 |
| TB6M42 | 42 | 14800 | 145.2 | 8 | 65 | 105 | 42 | 80 | 15.7 |
| TB6M48 | 48 | 19300 | 189.2 | 9 | 70 | 125 | 48 | 90 | 27.2 |
| TB6M56 | 56 | 26700 | 261.8 | 10 | 80 | 140 | 56 | 95 | 37.5 |
| TB6M64 | 64 | 36000 | 353.0 | 11 | 90 | 160 | 64 | 105 | 48.3 |
| TB6M72 | 72 | 46050 | 451.6 | 12 | 100 | 180 | 72 | 110 | 71.0 |

| BEAM REFERENCE | DEPTH 'A' (NOM.) mm | WEIGHT PER METRE (NOM.) kgf |
|---|---|---|
| A | 125 | 13.5 |
| B | 150 | 14.6 |
| C | 175 | 19.9 |
| D | 200 | 22.7 |
| E | 250 | 32.7 |
| F | 300 | 40.4 |
| G | 350 | 47.9 |
| H | 400 | 61.8 |
| J | 450 | 72.5 |
| K | 515 | 87.7 |
| L | 600 | 108.0 |

ORDER BY PART NUMBER AND ROD CENTRES 'S'

| ROD DIA | LOAD CAPACITY | | LOAD GROUP | BEAM REFERENCE FOR SPAN S = mm |
|---|---|---|---|---|
| | kgf | kN | | 250 500 750 1000 1250 1500 1750 2000 2250 2500 2750 3000 |
| 10 | 720 | 7.0 | 1 | A B C |
| 12 | 1060 | 10.4 | 2 | A B C D |
| 16 | 2020 | 19.8 | 3 | A B C D E |
| 20 | 3160 | 31.0 | 4 | A B C D E F |
| 24 | 4560 | 44.8 | 5 | B C D E F G |
| 30 | 7300 | 71.6 | 6 | D E F G H J |
| 36 | 10680 | 104.8 | 7 | E F G H J K |
| 42 | 14800 | 145.2 | 8 | G H J K L |
| 48 | 19300 | 189.2 | 9 | G H J |
| 56 | 26700 | 261.8 | 10 | J K L |
| 64 | 36000 | 353.0 | 11 | K L |
| 72 | 46050 | 451.6 | 12 | L |

# TB7 SPREADER BEAM & TB8 BATTEN PLATE




*Material: Carbon Steel*

*Order by Part No., Beam Reference and Rod Centres "S"*

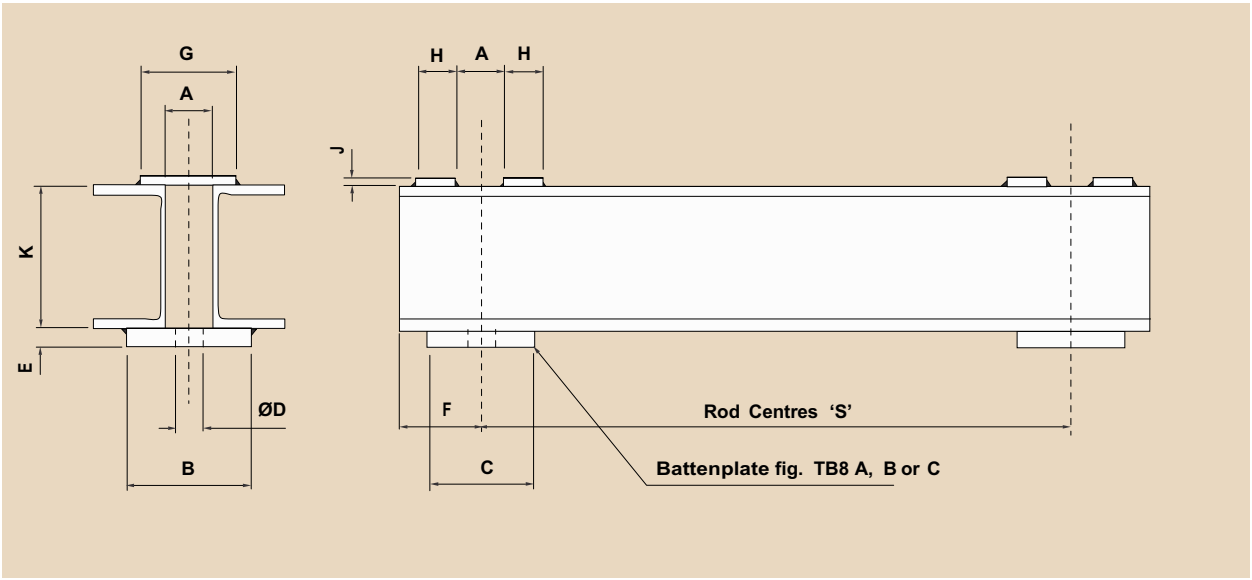
| PART No. | ROD DIA | LOAD CAPACITY | | LOAD GROUP | Fig. TB7A — PFC SPREADER BEAM FOR NO ROD ANGULATION | | | | | | | | | WEIGHT EXCLUDING CHANNELS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | kN | | A | B | C | D | E | F | G | H | J | kgf |
| TB7AM10 | 10 | 720 | 7.0 | 1 | 14 | 60 | 40 | 12 | 6 | 35 | 60 | 20 | 6 | 0.5 |
| TB7AM12 | 12 | 1060 | 10.4 | 2 | 16 | 65 | 50 | 14 | 8 | 35 | 65 | 20 | 6 | 0.7 |
| TB7AM16 | 16 | 2020 | 19.8 | 3 | 20 | 85 | 60 | 18 | 10 | 40 | 85 | 20 | 6 | 1.1 |
| TB7AM20 | 20 | 3160 | 31.0 | 4 | 24 | 85 | 60 | 22 | 10 | 50 | 85 | 30 | 8 | 1.4 |
| TB7AM24 | 24 | 4560 | 44.8 | 5 | 28 | 85 | 85 | 26 | 12 | 65 | 85 | 40 | 8 | 2.2 |
| TB7AM30 | 30 | 7300 | 71.6 | 6 | 36 | 120 | 100 | 33 | 16 | 80 | 120 | 50 | 8 | 4.3 |
| TB7AM36 | 36 | 10680 | 104.8 | 7 | 42 | 150 | 100 | 39 | 20 | 85 | 150 | 50 | 10 | 7.1 |
| TB7AM42 | 42 | 14800 | 145.2 | 8 | 48 | 170 | 110 | 45 | 25 | 85 | 170 | 50 | 10 | 10.0 |
| TB7AM48 | 48 | 19300 | 189.2 | 9 | 54 | 180 | 130 | 51 | 25 | 100 | 180 | 60 | 12 | 13.3 |
| TB7AM56 | 56 | 26700 | 261.8 | 10 | 64 | 200 | 150 | 60 | 30 | 125 | 200 | 80 | 12 | 20.2 |
| TB7AM64 | 64 | 36000 | 353.0 | 11 | 72 | 200 | 180 | 68 | 35 | 150 | 200 | 100 | 16 | 29.2 |
| TB7AM72 | 72 | 46050 | 451.6 | 12 | 80 | 200 | 200 | 76 | 40 | 160 | 200 | 100 | 20 | 37.7 |

| PART No. | ROD DIA | LOAD CAPACITY | | LOAD GROUP | Fig. TB7B — PFC SPREADER BEAM FOR USE WITH Fig. RA9 SPHERICAL WASHERS AND FOR MAX 5 Deg. ROD ANGULATION | | | | | | | | | WEIGHT EXCLUDING CHANNELS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | kN | | A | B | C | D | E | F | G | H | J | kgf |
| TB7BM10 | 10 | 720 | 7.0 | 1 | 38 | 90 | 60 | 16 | 10 | 55 | 90 | 30 | 6 | 1.4 |
| TB7BM12 | 12 | 1060 | 10.4 | 2 | 40 | 90 | 60 | 18 | 10 | 60 | 90 | 30 | 6 | 1.4 |
| TB7BM16 | 16 | 2020 | 19.8 | 3 | 48 | 100 | 80 | 22 | 12 | 70 | 100 | 40 | 6 | 2.3 |
| TB7BM20 | 20 | 3160 | 31.0 | 4 | 58 | 110 | 100 | 30 | 16 | 85 | 110 | 50 | 8 | 4.0 |
| TB7BM24 | 24 | 4560 | 44.8 | 5 | 68 | 120 | 100 | 33 | 20 | 95 | 120 | 50 | 8 | 5.3 |
| TB7BM30 | 30 | 7300 | 71.6 | 6 | 84 | 160 | 110 | 43 | 25 | 100 | 160 | 50 | 8 | 8.9 |
| TB7BM36 | 36 | 10680 | 104.8 | 7 | 98 | 200 | 150 | 48 | 30 | 135 | 200 | 75 | 10 | 18.8 |
| TB7BM42 | 42 | 14800 | 145.2 | 8 | 120 | 250 | 180 | 56 | 35 | 145 | 250 | 75 | 10 | 30.6 |
| TB7BM48 | 48 | 19300 | 189.2 | 9 | 135 | 260 | 200 | 64 | 40 | 180 | 260 | 100 | 12 | 42.5 |
| TB7BM56 | 56 | 26700 | 261.8 | 10 | 145 | 275 | 250 | 74 | 40 | 185 | 275 | 100 | 12 | 53.5 |
| TB7BM64 | 64 | 36000 | 353.0 | 11 | 155 | 300 | 250 | 84 | 50 | 195 | 300 | 100 | 16 | 73.0 |
| TB7BM72 | 72 | 46050 | 451.6 | 12 | 165 | 300 | 250 | 94 | 60 | 205 | 300 | 100 | 20 | 89.5 |

| PART No. | ROD DIA | LOAD CAPACITY | | LOAD GROUP | Fig. TB7C — PFC SPREADER BEAM FOR USE WITH Fig. 281 DUAL FACED ROCKER WASHERS AND FOR MAX 5 Deg. ROD ANGULATION | | | | | | | | | WEIGHT EXCLUDING CHANNELS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kg | kN | | A | B | C | D | E | F | G | H | J | kgf |
| TB7CM12 | 12 | 1060 | 10.4 | 2 | 40 | 90 | 90 | 38 | 10 | 60 | 90 | 30 | 6 | 1.8 |
| TB7CM16 | 16 | 2020 | 19.8 | 3 | 48 | 100 | 100 | 38 | 16 | 70 | 100 | 40 | 6 | 3.1 |
| TB7CM20 | 20 | 3160 | 31.0 | 4 | 58 | 110 | 110 | 49 | 20 | 85 | 110 | 50 | 8 | 5.2 |
| TB7CM24 | 24 | 4560 | 44.8 | 5 | 68 | 120 | 120 | 49 | 20 | 95 | 120 | 50 | 8 | 6.0 |
| TB7CM30 | 30 | 7300 | 71.6 | 6 | 84 | 160 | 160 | 66 | 25 | 100 | 160 | 50 | 8 | 12.1 |
| TB7CM36 | 36 | 10680 | 104.8 | 7 | 98 | 200 | 200 | 66 | 30 | 135 | 200 | 75 | 10 | 23.5 |
| TB7CM42 | 42 | 14800 | 145.2 | 8 | 120 | 250 | 250 | 74 | 35 | 145 | 250 | 75 | 10 | 40.2 |
| TB7CM48 | 48 | 19300 | 189.2 | 9 | 135 | 260 | 260 | 82 | 40 | 180 | 260 | 100 | 12 | 52.2 |
| TB7CM56 | 56 | 26700 | 261.8 | 10 | 145 | 275 | 275 | 93 | 50 | 185 | 275 | 100 | 12 | 69.7 |
| TB7CM64 | 64 | 36000 | 353.0 | 11 | 155 | 300 | 300 | 104 | 50 | 195 | 300 | 100 | 16 | 84.8 |

SPREADER BEAM ASSEMBLY INCLUDES TWO BATTENPLATES AS SHOWN
BATTENPLATES CAN ALSO BE ORDERED SEPARATELY

# TB7 SPREADER BEAM & TB8 BATTEN PLATE



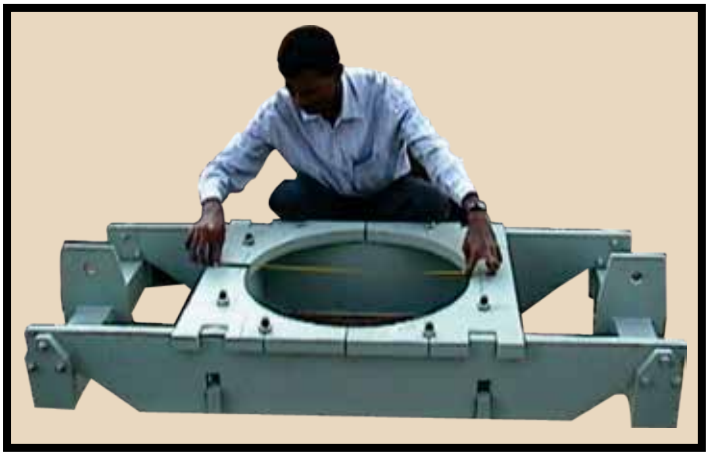

*Material: Carbon Steel*

*Order by Part No., Beam Reference and Rod Centres "S"*

| BEAM REFERENCE | DEPTH K (NOM.) mm | WEIGHT PER METRE FOR TWO CHANNELS (NOM.) kgf |
|---|---|---|
| A | 75 | 14.2 |
| B | 100 | 20.0 |
| C | 125 | 27.4 |
| D | 150 | 39.2 |
| E | 200 | 49.0 |
| F | 250 | 67.4 |
| G | 300 | 80.2 |
| H | 390 | 109.0 |
| J | 430 | 128.8 |

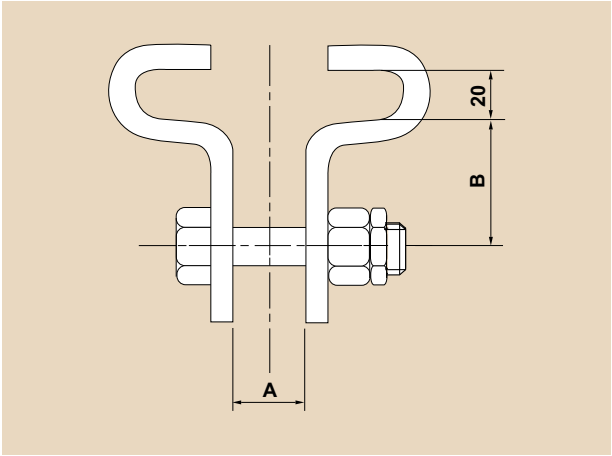
| ROD DIA | LOAD CAPACITY kg | LOAD CAPACITY kN | LOAD GROUP | BEAM REFERENCE FOR SPAN S = mm (250 500 750 1000 1250 1500 1750 2000 2250 2500 2750 3000) |
|---|---|---|---|---|
| 10 | 720 | 7.0 | 1 | A B C |
| 12 | 1060 | 10.4 | 2 | A B C |
| 16 | 2020 | 19.8 | 3 | A B C D |
| 20 | 3160 | 31.0 | 4 | A B C D E |
| 24 | 4560 | 44.8 | 5 | A B C D E F |
| 30 | 7300 | 71.6 | 6 | B C D E F G |
| 36 | 10680 | 104.8 | 7 | C D E F G H |
| 42 | 14800 | 145.2 | 8 | E F G H J |
| 48 | 19300 | 189.2 | 9 | E F G H J |
| 56 | 26700 | 261.8 | 10 | F G H J |
| 64 | 36000 | 353.0 | 11 | G H J |
| 72 | 46050 | 451.6 | 12 | H J |

Clamps being hot formed in 150T press



Flat plate type riser clamp

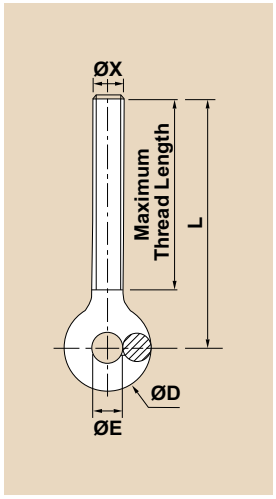
## UA6 BEAM CLAMP




| PART No. | FLANGE WIDTH | STEEL SIZE | A | B | BOLT SIZE | LOAD CAPACITY kgf | LOAD CAPACITY kN |
|---|---|---|---|---|---|---|---|
| UA6-1 | 63-152 | 35×8 | 10 | 40 | M10 | 360 | 3.5 |
| | 203 max. | 40×10 | | | | | |
| UA6-2 | 63-152 | 40×10 | 12 | 40 | M12 | 500 | 4.9 |
| | 203 max. | 45×10 | | | | | |
| UA6-3 | 63-152 | 45×10 | 16 | 45 | M16 | 650 | 6.4 |
| | 203 max. | 60×10 | | | | | |
| UA6-4 | 63-178 | 55×12 | 20 | 55 | M20 | 900 | 8.8 |
| | 254 max. | 70×12 | | | | | |
| UA6-5 | 63-178 | 70×12 | 20 | 65 | M20 | 1200 | 11.8 |
| | 254 max. | 60×15 | | | | | |
| UA6-6 | 63-178 | 60×15 | 20 | 65 | M20 | 1550 | 15.2 |
| | 254 max. | 80×15 | | | | | |

*Material: Carbon Steel Order by Part No. & Beam Size*

## RA16 FORGED EYEBOLT RIGHT HAND
## RA16A FORGED EYEBOLT LEFT HAND



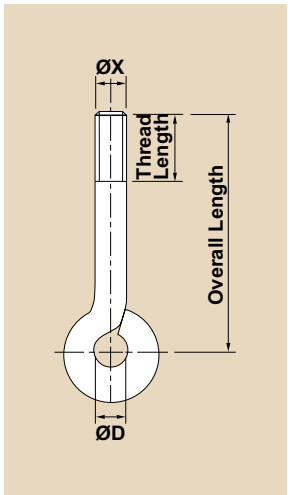

| PART Nos. RH THREAD | PART Nos. LH THREAD | DIA X | L | MAX TREAD LENGTH | MIN DIA D | DIA E | LOAD CAPACITY kgf | LOAD CAPACITY kN |
|---|---|---|---|---|---|---|---|---|
| RA16 M10 | RA16 AM10 | 10 | 300 | 275 | 7 | 16 | 360 | 3.5 |
| RA16 M12 | RA16 AM12 | 12 | 300 | 270 | 9 | 18 | 530 | 5.2 |
| RA16 M16 | RA16 AM16 | 16 | 300 | 270 | 12 | 22 | 1010 | 9.9 |
| RA16 M20 | RA16 AM20 | 20 | 300 | 260 | 14 | 26 | 1580 | 15.5 |
| RA16 M24 | RA16 AM24 | 24 | 300 | 260 | 17 | 30 | F2280 | 22.4 |
| RA16 M30 | RA16 AM30 | 30 | 300 | 255 | 21 | 36 | 3650 | 35.8 |
| RA16 M36 | RA16 AM36 | 36 | 300 | 245 | 26 | 42 | 5340 | 52.4 |
| RA16 M42 | RA16 AM42 | 42 | 300 | 235 | 30 | 48 | 7400 | 72.6 |
| RA16 M48 | RA16 AM48 | 48 | 340 | 220 | 35 | 44 | 9650 | 94.6 |
| RA16 M56 | RA16 AM56 | 56 | 355 | 230 | 41 | 57 | 13350 | 130.9 |
| RA16 M64 | RA16 AM64 | 64 | 370 | 230 | 47 | 60 | 18000 | 176.5 |
| RA16 M72 | RA16 AM72 | 72 | 420 | 240 | 57 | 76 | 23025 | 225.8 |
| RA16 M80 | RA16 AM80 | 80 | 500 | 260 | 60 | 90 | 28125 | 275.8 |
| RA16 M90 | RA16 AM90 | 90 | 600 | 320 | 70 | 100 | 35595 | 349.1 |

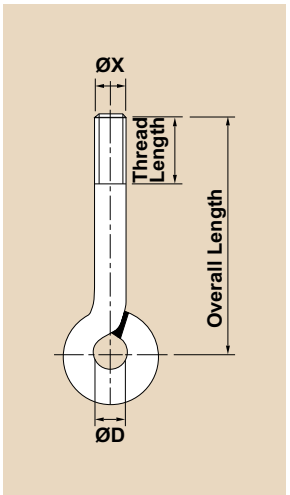
*Material: Forged Steel* Sizes M42 and above are oval eye pattern. Equivalent fabricated design is also available

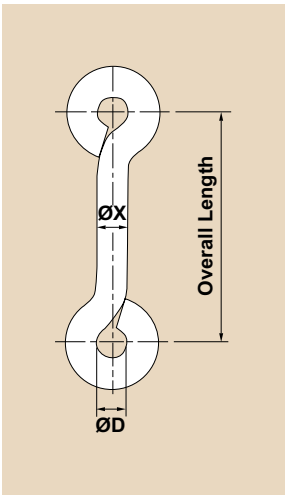
## BENT EYE ROD
## RA17 RH
## RA17A LH

## BENT EYE ROD WELDED
## RA18 RH
## RA18A LH

## RA 19 DOUBLE BENT EYE ROD



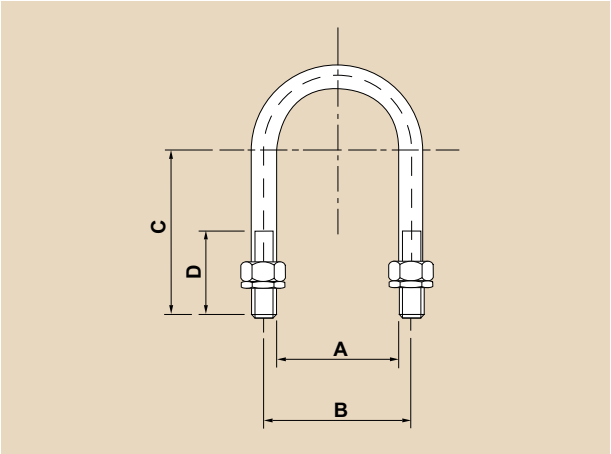




| DIA X | DIA D | LOAD CAPACITY kgf | LOAD CAPACITY kN |
|---|---|---|---|
| 10 | 12 | 105 | 1.0 |
| 12 | 15 | 160 | 1.6 |
| 16 | 19 | 285 | 2.8 |
| 20 | 24 | 430 | 4.2 |
| 24 | 28 | 660 | 6.5 |
| 30 | 43 | 1080 | 10.6 |
| 36 | 49 | 2100 | 20.6 |
| 42 | 55 | 2950 | 28.9 |

For Thread lengths see
Fig RA2 Hanger Rod (Page 8)

*Material: Carbon Steel Order by Figure number, size and overall length*

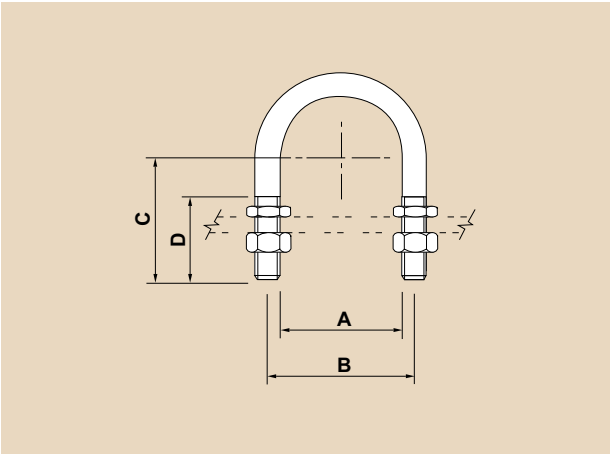
## PA8 U BOLT GRIP TYPE –20°C to 350°C




*Material: Carbon Steel. Also available in Stainless Steel*

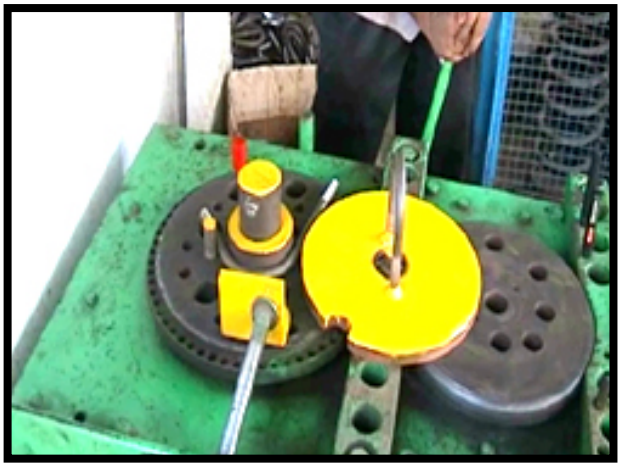
| PART No. | PIPE NB mm | PIPE NB in | Thread Size | A | B | C | D | Load capacities (kg) Vertical | Lateral | Axial |
|---|---|---|---|---|---|---|---|---|---|---|
| PA8-10 | 10 | 3/8 | 8 | 19 | 27 | 34 | 23 | 460 | 210 | 100 |
| PA8-15 | 15 | 1/2 | 8 | 23 | 31 | 36 | 25 | 460 | 170 | 80 |
| PA8-20 | 20 | 3/4 | 8 | 29 | 37 | 43 | 25 | 460 | 140 | 70 |
| PA8-25 | 25 | 1 | 8 | 37 | 45 | 44 | 25 | 460 | 100 | 50 |
| PA8-32 | 32 | 1 1/4 | 8 | 47 | 55 | 50 | 25 | 460 | 80 | 40 |
| PA8-40 | 40 | 1 1/2 | 10 | 50 | 60 | 61 | 35 | 720 | 140 | 70 |
| PA8-50 | 50 | 2 | 10 | 65 | 75 | 65 | 35 | 720 | 110 | 60 |
| PA8-65 | 65 | 2 1/2 | 12 | 78 | 90 | 86 | 45 | 1060 | 160 | 80 |
| PA8-80 | 80 | 3 | 16 | 92 | 108 | 98 | 50 | 2020 | 330 | 170 |
| PA8-100 | 100 | 4 | 16 | 119 | 135 | 110 | 50 | 2020 | 250 | 120 |
| PA8-125 | 125 | 5 | 16 | 144 | 160 | 123 | 50 | 2020 | 210 | 100 |
| PA8-150 | 150 | 6 | 20 | 170 | 190 | 141 | 55 | 3160 | 340 | 170 |
| PA8-200 | 200 | 8 | 20 | 225 | 245 | 176 | 65 | 3160 | 260 | 130 |
| PA8-250 | 250 | 10 | 20 | 280 | 300 | 203 | 65 | 3160 | 210 | 100 |
| PA8-300 | 300 | 12 | 20 | 330 | 350 | 228 | 65 | 3160 | 170 | 90 |
| PA8-350 | 350 | 14 | 24 | 361 | 385 | 251 | 75 | 4560 | 280 | 140 |
| PA8-400 | 400 | 16 | 24 | 411 | 435 | 285 | 80 | 4560 | 240 | 120 |
| PA8-450 | 450 | 18 | 24 | 461 | 485 | 300 | 70 | 4560 | 220 | 110 |
| PA8-500 | 500 | 20 | 24 | 516 | 540 | 334 | 75 | 4560 | 190 | 100 |
| PA8-600 | 600 | 24 | 24 | 616 | 640 | 383 | 75 | 4560 | 160 | 80 |

## PA9 U BOLT NON GRIP TYPE –20°C to 350°C



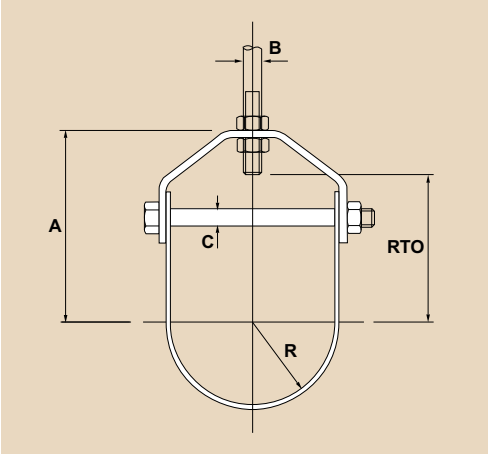

*Material: Carbon Steel. Also available in Stainless Steel*

| PART No. | PIPE NB mm | PIPE NB in | Thread Size | A | B | C | D | Load Capacities (kg) Vertical | Lateral | Axial |
|---|---|---|---|---|---|---|---|---|---|---|
| PA9-10 | 10 | 3/8 | 8 | 28 | 36 | 23 | 23 | 170 | 130 | 70 |
| PA9-15 | 15 | 1/2 | 8 | 32 | 40 | 25 | 25 | 150 | 120 | 60 |
| PA9-20 | 20 | 3/4 | 8 | 37 | 45 | 33 | 30 | 140 | 100 | 50 |
| PA9-25 | 25 | 1 | 8 | 42 | 50 | 35 | 30 | 130 | 90 | 40 |
| PA9-32 | 32 | 1 1/4 | 8 | 52 | 60 | 40 | 30 | 110 | 70 | 40 |
| PA9-40 | 40 | 1 1/2 | 10 | 55 | 65 | 53 | 40 | 190 | 130 | 70 |
| PA9-50 | 50 | 2 | 10 | 70 | 80 | 60 | 40 | 160 | 100 | 50 |
| PA9-65 | 65 | 2 1/2 | 12 | 83 | 95 | 73 | 50 | 230 | 150 | 80 |
| PA9-80 | 80 | 3 | 16 | 94 | 110 | 85 | 55 | 470 | 310 | 160 |
| PA9-100 | 100 | 4 | 16 | 124 | 140 | 95 | 55 | 380 | 240 | 120 |
| PA9-125 | 125 | 5 | 16 | 149 | 165 | 108 | 55 | 330 | 200 | 100 |
| PA9-150 | 150 | 6 | 20 | 175 | 195 | 128 | 65 | 540 | 330 | 160 |
| PA9-200 | 200 | 8 | 20 | 230 | 250 | 150 | 65 | 430 | 250 | 130 |
| PA9-250 | 250 | 10 | 20 | 285 | 305 | 183 | 75 | 350 | 200 | 100 |
| PA9-300 | 300 | 12 | 20 | 335 | 355 | 208 | 75 | 310 | 170 | 90 |
| PA9-350 | 350 | 14 | 24 | 366 | 390 | 230 | 80 | 480 | 270 | 140 |
| PA9-400 | 400 | 16 | 24 | 416 | 440 | 255 | 80 | 430 | 240 | 120 |
| PA9-450 | 450 | 18 | 24 | 471 | 495 | 278 | 80 | 380 | 210 | 110 |
| PA9-500 | 500 | 20 | 24 | 521 | 545 | 303 | 80 | 350 | 190 | 100 |
| PA9-600 | 600 | 24 | 24 | 621 | 645 | 353 | 80 | 300 | 160 | 80 |



U Bolt forming M/C

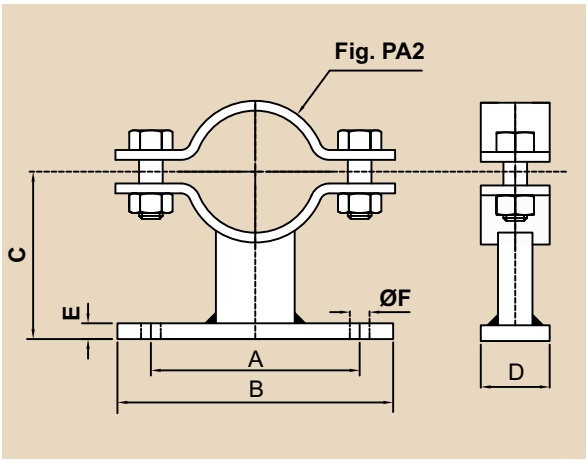
## PA10 CLEVIS HANGER -20°C TO 100°C




*Material: Carbon Steel*

| PART No. | PIPE NB | | A | B | C | R | RTO | SWL | | TOP STEEL SIZE | BOTTOM STEEL SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | | | | | | Kgf | KN | | |
| PA10-15 | 15 | 1/2 | 60 | M6 | M6 | 11.0 | 39 | 250 | 2.45 | 25x3 | 25x3 |
| PA10-20 | 20 | 3/4 | 64 | M6 | M6 | 13.5 | 42 | 250 | 2.45 | 25x3 | 25x3 |
| PA10-25 | 25 | 1 | 65 | M6 | M6 | 17.0 | 45 | 250 | 2.45 | 25x3 | 25x3 |
| PA10-32 | 32 | 1 1/4 | 72 | M10 | M10 | 21.5 | 50 | 250 | 2.45 | 30x3 | 30x3 |
| PA10-40 | 40 | 1 1/2 | 76 | M10 | M10 | 24.5 | 54 | 250 | 2.45 | 30x3 | 30x3 |
| PA10-50 | 50 | 2 | 79 | M10 | M10 | 30.5 | 58 | 250 | 2.45 | 30x3 | 30x3 |
| PA10-65 | 65 | 2 1/2 | 105 | M12 | M12 | 38.0 | 74 | 500 | 4.9 | 40x5 | 40x3 |
| PA10-80 | 80 | 3 | 115 | M12 | M12 | 44.5 | 82 | 500 | 4.9 | 40x5 | 40x3 |
| PA10-100 | 100 | 4 | 140 | M12 | M12 | 57.5 | 101 | 500 | 4.9 | 40x5 | 40x3 |
| PA10-125 | 125 | 5 | 160 | M16 | M16 | 70.0 | 117 | 600 | 5.88 | 50x6 | 50x6 |
| PA10-150 | 150 | 6 | 183 | M16 | M16 | 86.0 | 137 | 850 | 8.34 | 50x6 | 50x6 |
| PA10-175 | 175 | 7 | 200 | M20 | M16 | 99.0 | 148 | 850 | 8.34 | 50x10 | 50x6 |
| PA10-200 | 200 | 8 | 215 | M20 | M16 | 112.0 | 162 | 850 | 8.34 | 50x10 | 50x6 |
| PA10-250 | 250 | 10 | 255 | M20 | M20 | 139.0 | 197 | 1550 | 15.2 | 50x10 | 50x6 |
| PA10-300 | 300 | 12 | 283 | M24 | M20 | 165.0 | 221 | 1550 | 15.2 | 50x12 | 50x10 |
| PA10-350 | 350 | 14 | 305 | M24 | M20 | 181.0 | 240 | 1750 | 17.2 | 60x12 | 60x10 |
| PA10-400 | 400 | 16 | 336 | M24 | M24 | 206.0 | 270 | 1850 | 18.1 | 60x12 | 60x10 |
| PA10-450 | 450 | 18 | 390 | M24 | M24 | 232.0 | 310 | 2000 | 19.6 | 80x12 | 80x10 |
| PA10-500 | 500 | 20 | 440 | M30 | M24 | 258.0 | 344 | 2000 | 19.6 | 80x15 | 80x12 |
| PA10-600 | 600 | 24 | 495 | M30 | M24 | 309.0 | 397 | 2000 | 19.6 | 80x15 | 80x12 |
| PA10-750 | 750 | 30 | 610 | M30 | M42 | 385.0 | 499 | 2000 | 19.6 | 80x20 | 80x12 |

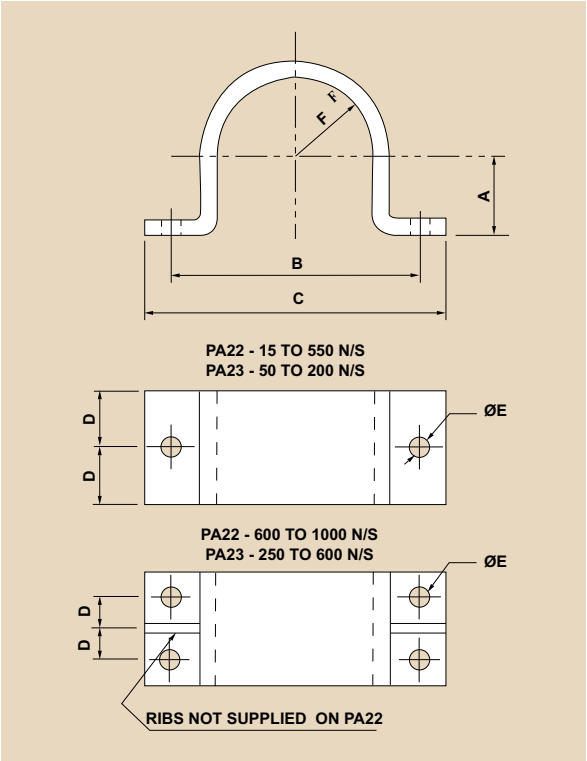
## PA20 OFFSET PIPE CLAMP -20°C TO 350°C




*Material: Carbon Steel*

| PART No. | PIPE SIZE | A | B | C | D | E | F | LOAD CAPACITY kgf | LOAD CAPACITY kN |
|---|---|---|---|---|---|---|---|---|---|
| PA20-15 | 15 | 60 | 100 | 55 | 35 | 5 | 12 | 280 | 2.7 |
| PA20-20 | 20 | 70 | 110 | 55 | 35 | 5 | 12 | 280 | 2.7 |
| PA20-25 | 25 | 70 | 110 | 60 | 35 | 5 | 12 | 280 | 2.7 |
| PA20-32 | 32 | 80 | 120 | 70 | 35 | 8 | 14 | 280 | 2.7 |
| PA20-40 | 40 | 90 | 130 | 80 | 35 | 8 | 14 | 280 | 2.7 |
| PA20-50 | 50 | 100 | 140 | 85 | 35 | 8 | 14 | 280 | 2.7 |
| PA20-65 | 65 | 110 | 160 | 90 | 45 | 10 | 18 | 450 | 4.4 |
| PA20-80 | 80 | 120 | 170 | 95 | 45 | 10 | 18 | 450 | 4.4 |
| PA20-100 | 100 | 140 | 190 | 110 | 45 | 10 | 18 | 450 | 4.4 |
| PA20-125 | 125 | 160 | 210 | 120 | 45 | 10 | 18 | 450 | 4.4 |
| PA20-150 | 150 | 180 | 230 | 135 | 45 | 10 | 18 | 450 | 4.4 |
| PA20-200 | 200 | 220 | 270 | 160 | 60 | 10 | 18 | 520 | 5.1 |

# PA22 HOLD DOWN PIPE CLAMP
# PA23 ANCHOR HOLD DOWN CLAMP

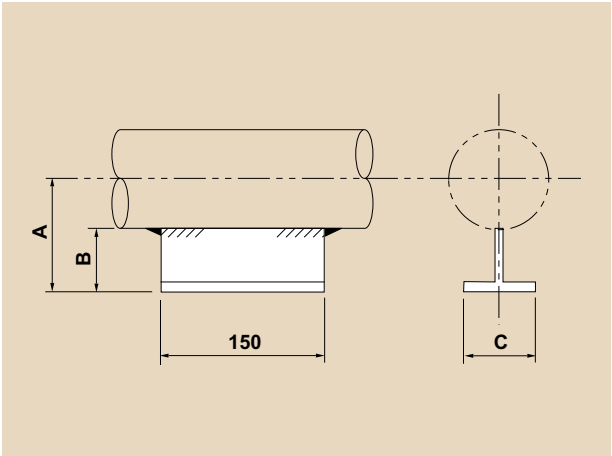



*Material: Carbon Steel*

| PART No. | PIPE SIZE | PIPE O/D | A | B | C | D | ØE | F | STEEL SIZE |
|---|---|---|---|---|---|---|---|---|---|
| PA22-15 | 15 | 21.3 | 10 | 70 | 110 | 17.5 | 12 | 11.5 | 35x5 |
| PA22-20 | 20 | 26.9 | 13 | 80 | 120 | 17.5 | 12 | 14 | 35x5 |
| PA22-25 | 25 | 33.7 | 16 | 90 | 130 | 17.5 | 12 | 18 | 35x5 |
| PA22-32 | 32 | 42.4 | 20 | 110 | 140 | 17.5 | 15 | 22 | 35x8 |
| PA22-40 | 40 | 48.3 | 23 | 120 | 160 | 17.5 | 15 | 25 | 35x8 |
| PA22-50 | 50 | 60.3 | 29 | 130 | 170 | 17.5 | 15 | 31 | 35x8 |
| PA22-65 | 65 | 76.1 | 36 | 160 | 210 | 22.5 | 19 | 40 | 45x10 |
| PA22-80 | 80 | 88.9 | 43 | 180 | 230 | 22.5 | 19 | 46 | 45x10 |
| PA22-100 | 100 | 114.3 | 55 | 210 | 260 | 22.5 | 19 | 59 | 45x10 |
| PA22-125 | 125 | 139.7 | 68 | 240 | 300 | 30.0 | 24 | 72 | 60x10 |
| PA22-150 | 150 | 168.3 | 82 | 270 | 330 | 30.0 | 24 | 86 | 60x10 |
| PA22-175 | 175 | 193.7 | 95 | 310 | 370 | 27.5 | 24 | 99 | 55x15 |
| PA22-200 | 200 | 219.1 | 107 | 340 | 400 | 27.5 | 24 | 112 | 55x15 |
| PA22-225 | 225 | 244.5 | 122 | 360 | 420 | 27.5 | 24 | 124 | 55x15 |
| PA22-250 | 250 | 273.0 | 135 | 390 | 450 | 27.5 | 24 | 138 | 55x15 |
| PA22-300 | 300 | 323.9 | 162 | 440 | 500 | 27.5 | 24 | 164 | 55x15 |
| PA22-350 | 350 | 355.6 | 172 | 480 | 540 | 27.5 | 24 | 180 | 55x15 |
| PA22-400 | 400 | 406.4 | 202 | 530 | 600 | 30.0 | 28 | 205 | 60x15 |
| PA22-450 | 450 | 457.0 | 228 | 590 | 660 | 30.0 | 28 | 231 | 60x15 |
| PA22-500 | 500 | 508.0 | 258 | 640 | 710 | 30.0 | 28 | 256 | 60x15 |
| PA22-550 | 550 | 559.0 | 278 | 690 | 760 | 30.0 | 28 | 282 | 60x15 |
| PA22-600 | 600 | 610 | 305 | 730 | 790 | 30.0 | 24 | 308 | 100x15 |
| PA22-650 | 650 | 660 | 328 | 780 | 840 | 30.0 | 24 | 333 | 100x15 |
| PA22-700 | 700 | 711 | 355 | 830 | 890 | 30.0 | 24 | 358 | 100x15 |
| PA22-750 | 750 | 762 | 380 | 890 | 950 | 30.0 | 24 | 385 | 100x15 |
| PA22-800 | 800 | 813 | 405 | 970 | 1040 | 33.0 | 28 | 410 | 110x20 |
| PA22-850 | 850 | 864 | 430 | 1020 | 1090 | 33.0 | 28 | 435 | 110x20 |
| PA22-900 | 900 | 914 | 455 | 1070 | 1140 | 33.0 | 28 | 460 | 110x20 |
| PA22-1000 | 1000 | 1016 | 507 | 1170 | 1240 | 33.0 | 28 | 511 | 110x20 |

| PART No. | PIPE SIZE | PIPE O/D | A | B | C | D | ØE | F | STEEL SIZE |
|---|---|---|---|---|---|---|---|---|---|
| PA23-50 | 50 | 60.3 | 27 | 150 | 210 | 40 | 22 | 31 | 80x10 |
| PA23-65 | 65 | 76.1 | 34 | 170 | 230 | 40 | 22 | 40 | 80x10 |
| PA23-80 | 80 | 88.9 | 40 | 180 | 240 | 40 | 22 | 46 | 80x10 |
| PA23-100 | 100 | 114.3 | 53 | 210 | 270 | 40 | 22 | 59 | 80x10 |
| PA23-125 | 125 | 139.7 | 65 | 240 | 300 | 40 | 22 | 72 | 80x10 |
| PA23-150 | 150 | 168.3 | 80 | 280 | 350 | 75 | 27 | 86 | 150x12 |
| PA23-200 | 200 | 219.1 | 105 | 330 | 400 | 75 | 27 | 112 | 150x12 |
| PA23-250 | 250 | 273.0 | 131 | 390 | 460 | 65 | 27 | 139 | 200x12 |
| PA23-300 | 300 | 323.9 | 156 | 440 | 510 | 65 | 27 | 165 | 200x12 |
| PA23-350 | 350 | 355.6 | 172 | 470 | 540 | 75 | 27 | 181 | 250x12 |
| PA23-400 | 400 | 406.4 | 198 | 520 | 590 | 75 | 27 | 206 | 250x12 |
| PA23-450 | 450 | 457.0 | 222 | 570 | 640 | 90 | 27 | 232 | 300x12 |
| PA23-500 | 500 | 508.0 | 247 | 620 | 690 | 90 | 27 | 258 | 300x12 |
| PA23-600 | 600 | 610 | 298 | 730 | 800 | 90 | 27 | 309 | 300x12 |

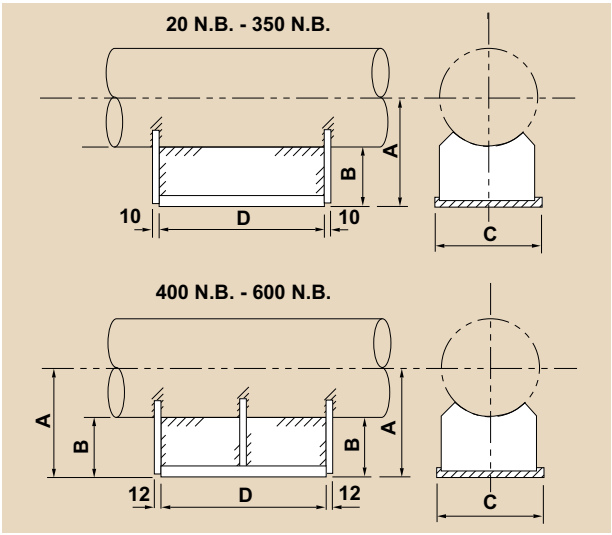
## PBL PIPE BASE LIGHT DUTY MAX. 150 N.B.




| PART No. | PIPE N.B. | A | B | C | LOAD CAPACITY kgf | LOAD CAPACITY kN |
|---|---|---|---|---|---|---|
| PBL-20 | 20 | 76 | 62 | 76 | 150 | 1.5 |
| PBL-25 | 25 | 79 | 62 | 76 | 150 | 1.5 |
| PBL-32 | 32 | 83 | 62 | 76 | 150 | 1.5 |
| PBL-40 | 40 | 86 | 62 | 76 | 150 | 1.5 |
| PBL-50 | 50 | 92 | 62 | 76 | 150 | 1.5 |
| PBL-65 | 65 | 100 | 62 | 76 | 150 | 1.5 |
| PBL-80 | 80 | 106 | 62 | 76 | 150 | 1.5 |
| PBL-100 | 100 | 132 | 75 | 89 | 150 | 1.5 |
| PBL-125 | 125 | 170 | 100 | 102 | 150 | 1.5 |
| PBL-150 | 150 | 184 | 100 | 102 | 150 | 1.5 |

*Material: Carbon Steel*

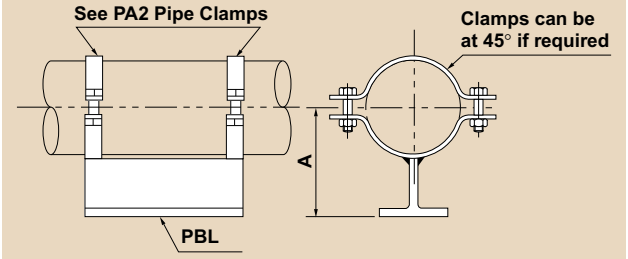
## PBH PIPE BASE HEAVY DUTY




*Material: Carbon Steel*

| PART No. | PIPE N.B. | A | B | C | D | LOAD CAPACITY kgf | LOAD CAPACITY kN |
|---|---|---|---|---|---|---|---|
| PBH-20 | 20 | 76 | 62 | 76 | 150 | 1200 | 11.8 |
| PBH-25 | 25 | 79 | 62 | 76 | 150 | 1200 | 11.8 |
| PBH-32 | 32 | 83 | 62 | 76 | 150 | 1200 | 11.8 |
| PBH-40 | 40 | 86 | 62 | 76 | 150 | 1200 | 11.8 |
| PBH-50 | 50 | 92 | 62 | 76 | 150 | 1200 | 11.8 |
| PBH-65 | 65 | 100 | 62 | 76 | 150 | 1200 | 11.8 |
| PBH-80 | 80 | 106 | 62 | 76 | 150 | 1200 | 11.8 |
| PBH-100 | 100 | 132 | 75 | 89 | 150 | 1200 | 11.8 |
| PBH-125 | 125 | 170 | 100 | 102 | 150 | 1200 | 11.8 |
| PBH-150 | 150 | 184 | 100 | 102 | 150 | 1200 | 11.8 |
| PBH-175 | 175 | 197 | 100 | 203 | 200 | 2000 | 19.6 |
| PBH-200 | 200 | 210 | 100 | 203 | 200 | 2000 | 19.6 |
| PBH-225 | 225 | 222 | 100 | 203 | 200 | 2000 | 19.6 |
| PBH-250 | 250 | 237 | 100 | 203 | 200 | 2000 | 19.6 |
| PBH-300 | 300 | 262 | 100 | 203 | 200 | 4000 | 39.2 |
| PBH-350 | 350 | 278 | 100 | 203 | 200 | 4000 | 39.2 |
| PBH-400 | 400 | 304 | 100 | 203 | 300 | 9000 | 88.3 |
| PBH-450 | 450 | 329 | 100 | 203 | 300 | 12000 | 117.7 |
| PBH-500 | 500 | 354 | 100 | 203 | 300 | 12000 | 117.7 |
| PBH-550 | 550 | 380 | 100 | 203 | 300 | 12000 | 117.7 |
| PBH-600 | 600 | 405 | 100 | 203 | 300 | 14000 | 137.3 |

## PCL PIPE CLAMP BASE LIGHT DUTY MAX. 150 N.B.




| PART No. | PIPE N.B. | A | LOAD CAPACITY kgf | LOAD CAPACITY kN |
|---|---|---|---|---|
| PCL-20 | 20 | 81 | 150 | 1.5 |
| PCL-25 | 25 | 85 | 150 | 1.5 |
| PCL-32 | 32 | 89 | 150 | 1.5 |
| PCL-40 | 40 | 92 | 150 | 1.5 |
| PCL-50 | 50 | 98 | 150 | 1.5 |
| PCL-65 | 65 | 107 | 150 | 1.5 |
| PCL-80 | 80 | 113 | 150 | 1.5 |
| PCL-100 | 100 | 139 | 150 | 1.5 |
| PCL-125 | 125 | 177 | 150 | 1.5 |
| PCL-150 | 150 | 191 | 150 | 1.5 |

*Material: Carbon Steel*

# LOW FRICTION SLIDE BEARINGS

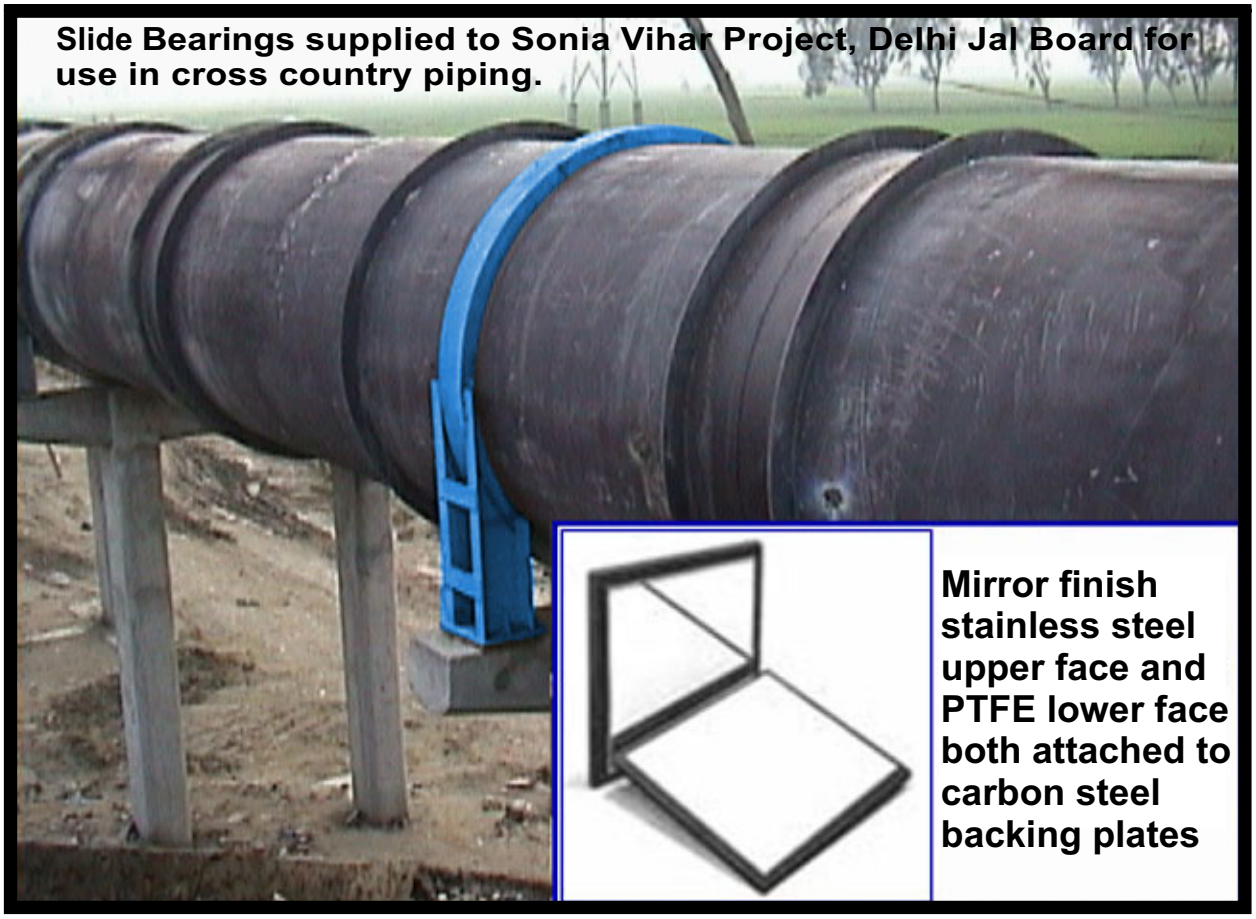
## WHY USE SLIDE BEARINGS

When pipe lines / structures are subjected to heat by external means due to difference in day & night temperatures or due to weather changes or due to temperatures of fluids carried in them as in the case of pipe lines, they will expand and contract by an amount decided by the geometry / shape and co-eff of thermal expansion of the material used in building them.

By not allowing them to expand and contract freely, severe stresses get induced leading to failures or over loadings.

A sensible & cost effective way of accommodating such expansion is to allow one item to move with respect to another — and this can be achieved by using low friction slide bearings to separate the expanding item from the supporting structure.

It is imperative that slide bearing is designed to keep frictional force to a minimum, to prevent the development of high loads and stresses.



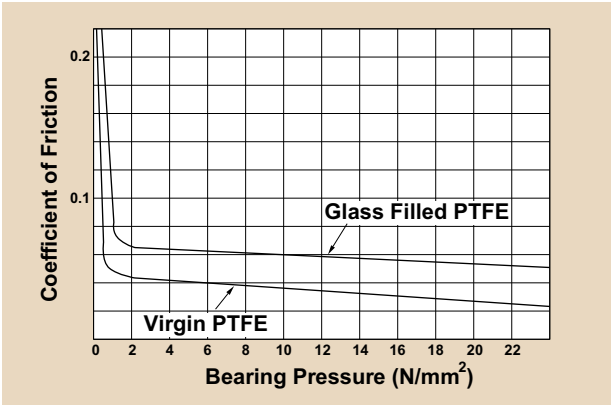

## WHY USE EASISLIDE BEARINGS?

- They incorporate PTFE — which has a coefficient of friction lower than any other solid material.
- The bearings are designed to achieve optimum performance, by carefully designing bearing pad dimensions to achieve ideal workable compressive stress.
- No routine maintenance required can work completely dry, require no lubrication.
- Designed to withstand a wide range of environmental conditions — operating at temperatures from minus 200$^{O}$C to plus 150$^{O}$C and are resistant to a wide range of organic and inorganic chemicals and vagaries of nature.
- Can tolerate some embedment of small particles in the bearing pad without causing failure.
- Compact design — fit into areas unsuitable for other types of bearing.
- Designed for easy on-site installation. No special tools or tackles required
- Long and maintenance free life.
- Operating successfully in a wide range of installations.

## THE RIGHT MATERIALS

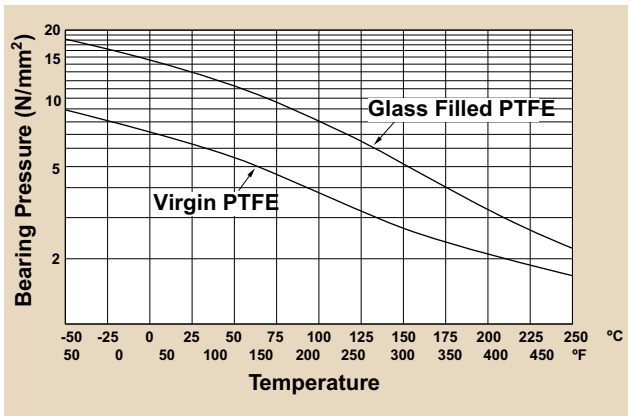
The Slide Bearing standard range uses a PTFE pad (or pads) counterfaced by a larger polished stainless steel plate — the PTFE is bonded to a carbon steel backing plate for attachment to existing steelwork either by means of countersunk bolts or by welding. The stainless steel pad is similarly attached to a carbon steel backing plate. For corrosive environments, units can be supplied manufactured entirely in stainless steel with a PTFE slider pad.

Alternatively, other combinations of material, Different slider materials such as bronze based or Graphite based for High temperature applications are also available.



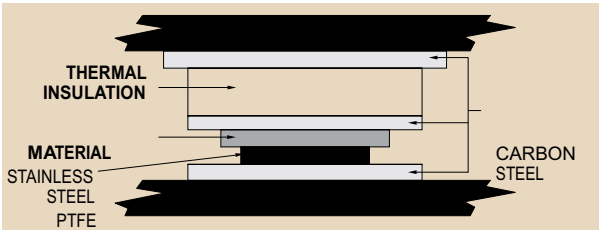

## THE RIGHT BEARING SIZE

The PTFE pad is sized based on allowable bearing pressure at the working temperature or ambient temperature. PTFE bearing pads will not function well at low bearing pressures and co-eff of friction may increase defeating the purpose of providing them. Bearing pressures can be read off the curve below, but as a thumb rule 60 kg / cm^2 at normal ambient temperature is recommended.
The inputs for calculating will be the load, the movement in transverse and axial directions, the ambient temperature and the space available to accommodate the bearing. Sometimes filled PTFE slide bearings with a higher bearing pressure may be used in order to reduce size and operating at higher temperatures. Typical fillers are 25% Glass or 60% Bronze.
The size of the counter facing stainless plate ( AISI SS304 mirror finished on one side) is calculated by adding 2 x expected movements to the size of the bearing PTFE pad + 25 mm over travel .




## THE RIGHT CONDITIONS

PTFE is suitable for continuous operation at temperatures up to 150°C — at greater temperatures load bearing thermal insulation material can be used to reduce the temperature of the bearing.




## SELECTING THE RIGHT LOW FRICTION SLIDE BEARING

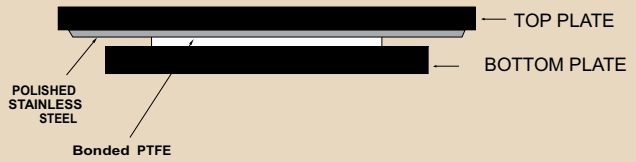
- Decide the style of bearing required and check that the imposed load is within the recommended operating load range of the bearing assembly.
- The standard bearing may be used at loadings below the recommended minimum, but an increased coefficient of friction will result.
- For loadings in excess of the recommended maximum, please state the load capacity required, and we will design an assembly to suit.
- Select the appropriate axial and lateral movement ranges to accommodate the maximum anticipated movements.
- Where the bearing gives a choice of height dimensions, these should be specified.
- If no standard bearing suits your application, please contact our design service with your requirements.

## THE RIGHT DESIGN

Low Friction Slide Bearings are designed and produced by Pipe Hangers & Supports Pvt Ltd.
We have the expertise and experience to design bearings for larger loads or movements or those with special operating requirements (Whether you need a bearing for a larger load or movement than those covered by our standard range, or even to a totally different style, our experienced team can design a) to meet your needs exactly.
So whatever your slide bearing requirements, call PHSPL and ask for Low Friction Slide Bearings.

## SL07 / SL07DS

SL07




Slide bearings can be used as stand alone or in conjuction with spring hangers or pipe shoes

## SLIDER ASSEMBLY-SL07

The Slider assembly is selected/offered for the following condition:

Normally rest supports are used in piping system, to take care of the vertical load having no vertical movements. But, these rest supports may have horizontal movements(axial & lateral with respect to pipe axis).When these supports are permitted to move/slide, it causes FRICTION. This friction is measured/defined as Coefficient of friction & is termed as"μ" which is a mere no. and has no unit. This value will be normally 0.3 or above, between steel to steel as sliding surfaces. This friction causes some load in the horizontal/lateral axis(frictional load) which normally any client would try to keep it minimum. When it is required to reduce this friction Slider assemblies are recommended.

Nowadays the slider assembly is offered as a substitute for rollers, as its performance will be considerably better than the latter. In case of rollers, even though galvanized carbon steel rollers are used, it gets rusted soon & it ceases to function in due course of time. This is not advisable technically.

Depending on the type of slider used the coefficient of friction is reduced to 0.16/0.1.

The sliders normally offered are
PTFE or Graphite
PTFE is offered for temp ≤ 150°C on the face of top plate used along with slider assembly to reduce the Coefficient of friction as low as 0.1(between PTFE & Polished Stainless steel face).
PTFE supplied by PHSPL will be normally of circular shape and thickness used is 5.5mm. The bearing stress varies depending on the applicable temperature & the type of PTFE selected (viz- virgin/Glass filled/bronze filled). Unless requested specifically, PHSPL offers virgin PTFE only.

Graphite will be selected for temperatures≥ 150°C and upto 250°C on the face of top plate used, to reduce the Coefficient of friction to around 0.15/0.16 (between Graphite & Polished Stainless steel face).
Graphite supplied is square or rectangular in shape & thickness used is 12.7mm.

# SLIDER ASSEMBLY-SL07

Generally, slider assembly can be categorized into 3 types, depending on the usage.
1. Exclusive slider assembly.
2. Slider assembly used along with pipe clamp base/pipe shoe/saddle
3.Slider assembly used along with spring/constant support(bottom supported)
The slider assembly mainly consists of Top plate, SS sheet, PTFE or Graphite& Bottom plate.
1-Top plate (material- normally carbon steel with10 mm thick)
(sizes-length & width suitable to accommodate the SS sheet, fixed by tack weld, to the bottom face of top plate). This top plate will be normally welded to the bottom plate of pipe clamp base/ pipe shoe/ saddle, existing or supplied by PHSPL as the case may be. In some cases, SS sheet is directly tack welded to the bottom plate of pipe clamp base/pipe shoe/saddle if its size is suitable. In such case, the top plate will be absent. This is based on client requirement.
2. SS sheet with one side mirror finish of 2.5 mm thick(material SS304/J4)
3a.If PTFE, it is5.5mm thick & Circular in shape.
3b.If Graphite, it is 12.7mm thick &square/rectangular in shape.
4-Bottom plate (material-carbon steel with 10 thick normally)
4a. When used with PTFE, it is square in size & plate is grooved to a depth of 3mm to house PTFEin the groove and is fixed by gluing.
4b. When used with Graphite, it is square/rectangular in size so as to fix graphite by gluing, along with a retainer strip of 6mm square
cross section kept all around the graphite and tack welded to the bottom plate.

Normally, sizing of PTFE/Graphite is done not only for the given vertical load, but also considering the horizontal movements (lateral & axial).Apart from that, although it is not mandatory, it is a good practice to size it considering the pipe size (parent pipe or trunnion in certain cases) also.

Final PTFE size will be greater of the above considerations. The minimum size will be 50 mm diameter, rounded off to the nearest 10mm& to suit market availability.

Final graphite size will be greater of the above considerations. The minimum size will be 50mm square rounded off to the nearest 10mm & to suit market availability.

When PTFE or Graphite is used along with Bottom supported spring/constant support, there is a limitation on fixing the size of PTFE/Graphite, as it is housed on the load flange of the selected spring or constant support. In such situations, PHSPL can accommodate the slider with increased load flange size upto a certain extent, on case to case basis. This is because the spring load flange size cannot be increased indefinitely.

Care has to be taken that at least the slider sized based on vertical load, can be accommodated with the increased load flange. In such case the slider size may not satisfy fully the horizontal movements. This is only the best possible solution in such a condition. For this reason only, it is not advisable to use Bottom support spring (“F” type) arrangement at support locations having very high horizontal movements. In such cases, it is preferred to choose hanging type support for better performance of support, unless it is unavoidable & in exceptional cases.

Typical arrangement of slider assembly is shown below, for the understanding purpose. Tailor made design of slider assembly is also possible to meet the specific needs of the client.

Note-
In slider assembly, normally the top plate will be tack welded to the bottom plate of either pipe clamp base or saddle/pipe shoe. (As stated above in some cases, the SS sheet is directly tack welded to bottom plate of pipe clamp base or saddle/pipe shoe). The bottom plate of slider assembly is welded to the structure. As such both top & bottom plate are not directly load bearing members as they are being integral part of any one of the afore said item. Hence its thickness is not very critical & normally can be taken as 10mm, to arrive at the final assembly height of slider. With the above points in mind, the normal assembly height will be

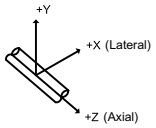
For Types 1 &2, approximate assembly height will be

a-With top plate & PTFE=25mm; With top plate & graphite =35mm.
b-Without top plate & PTFE=15mm; With top plate & graphite =25mm.
For type 3.approximate assembly height will be(there is no bottom plate as slider is fixed on load flange)
a-With top plate & PTFE=15mm; With top plate & graphite =25mm.
b-Without top plate & PTFE=5mm; With top plate & graphite =15mm.

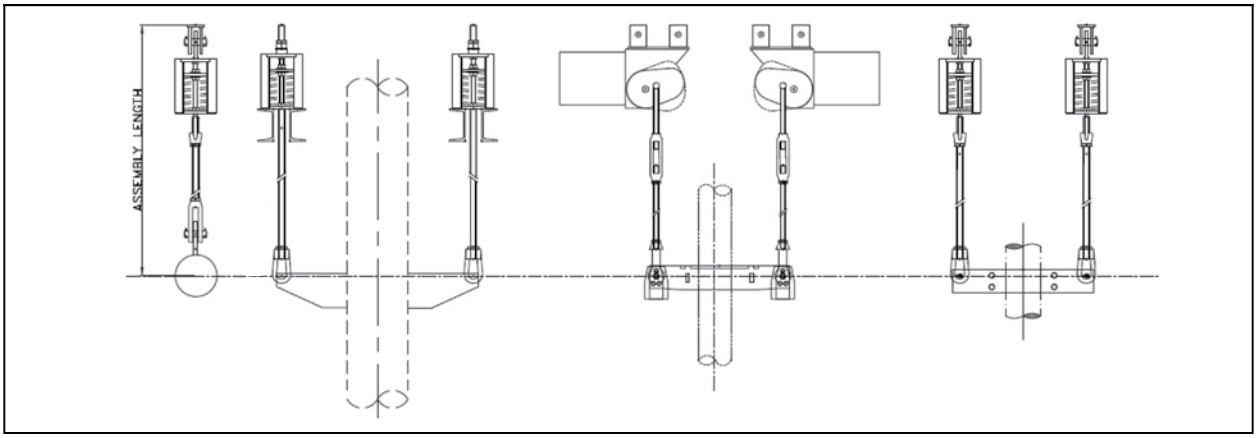
However, varying thickness of top, bottom plate, PTFE can also be offered to meet client's specific requirement or to match the client's specific assembly height. The bottom plate is welded to the structure (beam/channel under client scope) and when its size is big, then it may be over hanging on the structure. This is not advisable. To avoid overhanging of bottom plate, it is to be suitably supported by vertical stiffener plates by client, welded at site.

# Pipe Hangers & Supports Private Limited

## Ordering Information




1) Hot Load (Operating Load) in Kgs :
2) Thermal Movement / Travel (Direction + or -) in mm : UP (+) mm
3) Type of Hanger Variable / Constant /Rigid : VariableEffort Support
4) For Constant Add Over Travel : ☐ Yes ☐ No
5) For Variable Springs Max Allowable % Load Variation : %
6) Horizontal / Lateral Movement (If any) : 'X' Dir mm / 'Z' Dir mm
7) Hydro Load ( If any) : Kgs
8) Model & Type of Support :
9) Assembly Length (From BOS/TOS to Pipe CL ) : mm
10) Operating Temperature : Deg C
11) Pipe Insulation Thk : mm
12) Pipe Material :
13) Require Pipe Shoe for Foot Mounted Support : ☐ Yes ☐ No
14) For Foot Mounted Support Match Height : ☐ Yes ☐ No
15) Attachments like Lugs, Cleats Welded to Pipe in Scope : ☐ Yes ☐ No
16) Operating Load includes Wt of Accessories like Clamp, Tie Rods, Cleats, Lugs etc. : ☐ Yes ☐ No
17) Preferred Surface Protection / Painting :
18) For 'G' Type / Double / Trapeze type Hanger the Load Given above is for 1 assembly consisting of 2 Hangers / Individual Hanger : ☐ Yes ☐ No



# PIPE HANGERS & SUPPORTS PRIVATE LIMITED

## SOME FACTORS REQUIRED FOR PROPER SELECTION OF SUPPORT ITEMS

1. a) Plant is close to the sea Yes ☐ NO ☐

   b) If yes, proximity of the plant from the sea _____ Km

2. Is the atmosphere corrosive? Yes ☐ NO ☐

3. Plant under consideration: (Tick applicable plant)

   a) Power ☐ / Process ☐ / Petrochemical ☐ / Nuclear ☐ / Chemical industry ☐ Others ☐

   b) Is there any corrosive chemical plant nearby? Yes ☐ NO ☐

4. What is the preferred surface preparation / paint specification based on recommendation from your consultants for this location
   a) For spring _____
   b) Other components _____

5. Approx ambient temperature in °C of the plant under consideration _____ °C

6. Storage: It is strongly recommended that all our products are stored in tact under covered roof only even after boxes are opened and awaiting erection. In no case, should it be kept exposed to open atmosphere. Kindly confirm. Yes ☐

# Nuclear Power Plants & Sites in India

*Supplied By*

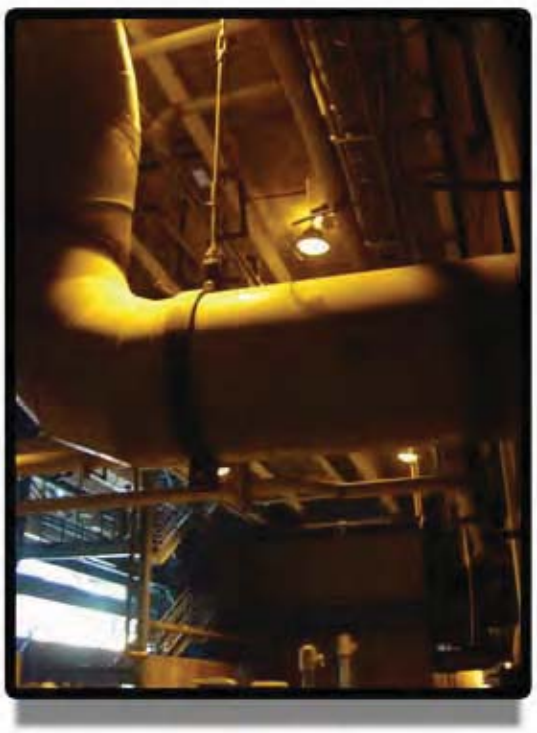
## Pipe Hangers & Supports Private Limited

# Additional Services

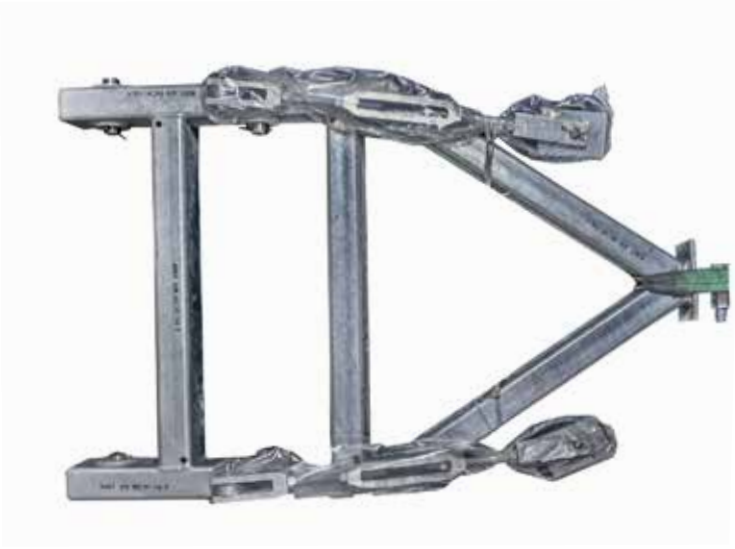
- Design and Detail of complete Pipe Support Systems
- Survey of existing pipe supports
- Inspection at site prior to commissioning
- Assist customers with innovative ideas to provide unique solutions

- Stress analysis & detail support engineering
- Conduct training programs on Hangers & Supports

# PIPE HANGERS & SUPPORTS



# COUNTER WEIGHT SUPPORTS



# Pipe Hangers & Supports Private Limited

## VALUES


**Our People:** By fostering teamwork, nurturing talent, enhancing leadership capability & acting with pace, pride & passion

**Our Offer:** By becoming the supplier of choice, delivering premium products & services & creating value for our customers

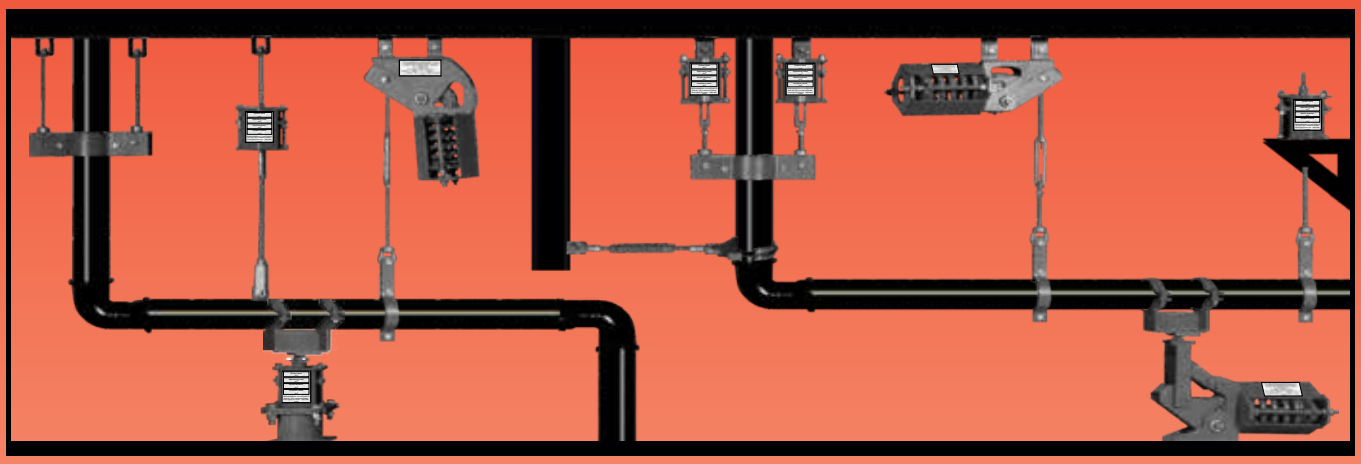
**Our Innovative Approach:** By developing leading edge solutions in technology, process & products

**Our Conduct:** By providing a safe workplace, respecting the environment, caring for our communities & demonstrating high ethical standards

**Quality Vision:** We aspire to be the most trusted & preferred supplier of choice to our valuable customers

# Pipe Hangers & Supports Private Limited

## GIVE PIPEWORK THE SUPPORT IT DESERVES



### Corporate office

Plot No. 40, 1st Floor,
Industrial Estate, Perungudi,
Chennai - 600 096,
India

### Thanjavur factory

Plot No. 18-20, 22, 23
SIDCO Industrial Estate,
Nanjikottai, Thanjavur - 613 006
India

**Website: www.pipehangers.in**