



**OVERVIEW**



## Head Quarters

### Manufacturing Unit-1

SHRIDHAN Automation Pvt. Ltd.  
# B-54, KSSIDC Industrial Estate,  
Kumbalgodu, Mysore Road,  
Bangalore - 560074, India.

**+91 80 - 28437847**

**+91 80 - 28437848**

### Manufacturing Unit-2

SHRIDHAN Automation Pvt. Ltd.  
#D-13, KIADB Industrial Area, Phase-I  
Kumbalgodu, Mysore Road,  
Bangalore - 560074, India.

### Manufacturing Unit-3

SHRIDHAN Automation Pvt. Ltd.  
#18, KIADB Industrial Area, Phase-II  
Kumbalgodu, Bangalore-560074, India.



**info@shridhan.com**



## Middle East

ORBIT Automation FZE  
Z3-38, II Floor, PO Box 122828,  
SAIF Zone, Sharjah-UAE.

A 100% subsidiary of  
SHRIDHAN Automation Pvt. Ltd., India.

**+971 6 579 2662**



**me@shridhan.com**

**ISO 9001**

**ISO 14001**

**ISO 45001**

**Certified**



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updates on LinkedIn

## About Us

Shridhan offers Field Instrument products and solutions, with control panels for highly critical applications along with the necessary Product and System Approvals to support most global applications in Oil & Gas, Onshore, Power, Steel, Pharmaceutical, Chemical, Food & Beverages, Marine & Mining industries.

Our Global Sales and Marketing reach covers Middle East, Europe, USA & Far East with Diverse Sales & Representative Offices.

Having a team of Qualified Engineers, Technicians & Highly Experienced Employees – We form a superior solution provider to your application needs.



BANGALORE, INDIA



SHARJAH, UAE

Shridhan firmly believes that continuous pursuit of Customer Satisfaction starts with the close analysis of our customer requirement and continuous Innovation that is consistently performing in the market with an excellent product range and support.

An essential part of our activities has been expanding our global reach with our subsidiary in the Middle East and Europe gradual implementation of expanding our product manufacturing facilities globally which lead to expanding our customer base around the world.

In coming years, we strive to be one of the most reputed brands in Field Instrumentation and Automation Worldwide.





## Products



Level Instrumentation



Diaphragm Seal Systems



Equipment & Systems



Control Panel Solutions



Integrated Solutions



Flow Instrumentation

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## Services



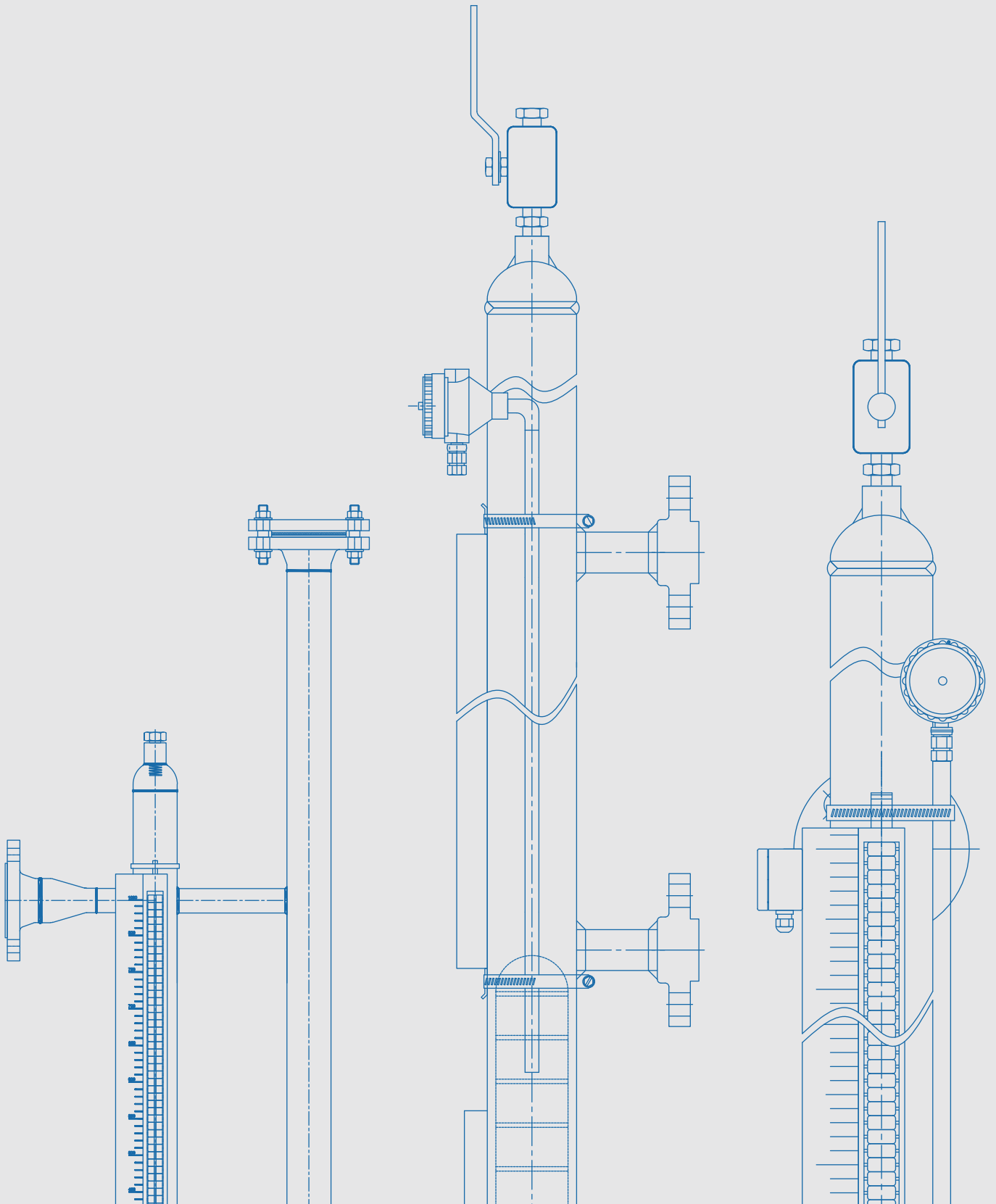
Diaphragm Seal Repair/  
Refurbishment



Engineering & Validation



# Level Instrumentation



# Magnetic Level Indicators

A reliable solution for accurate level measurement in various industrial applications. With advanced magnetic technology, this indicator offers clear visibility of liquid levels, eliminating the need for manual measurements. Featuring robust construction and easy installation, it ensures seamless operation and enhances overall process efficiency. Its durable construction and easy installation make it an ideal choice for a wide range of industries.

With additions of Point Level Switches and Level transmitters, we can achieve an All-in-One Level measurement and Control Solution for most Process applications.

## Features

- Conforms to the Pressure Equipment Directive (PED) 2014/68/EU for liquids in Groups 1 and 2.
- Conforms to ATEX directives 2014/34/EU: Group II, Category II / MEHA / ISO 80079-36 / ISO 80079-37 standards
- All welds are full penetration to enhance integrity and mitigate corrosion risks.

## Applications

- Total Level
- Interface Level
- Flashing
- Power Generation
- Strong Acids
- Alkalis
- Boilers
- Petrochemicals
- High Pressure
- High Temperature

## Material of construction

- SS304 / SS316 / SS316L
- SS316 / 316L (Dual Certified)
- Titanium
- Hastelloy C276
- Inconel 625 / Inconel 825
- PVDF / Kynar



**PED**  
2014/68/EU



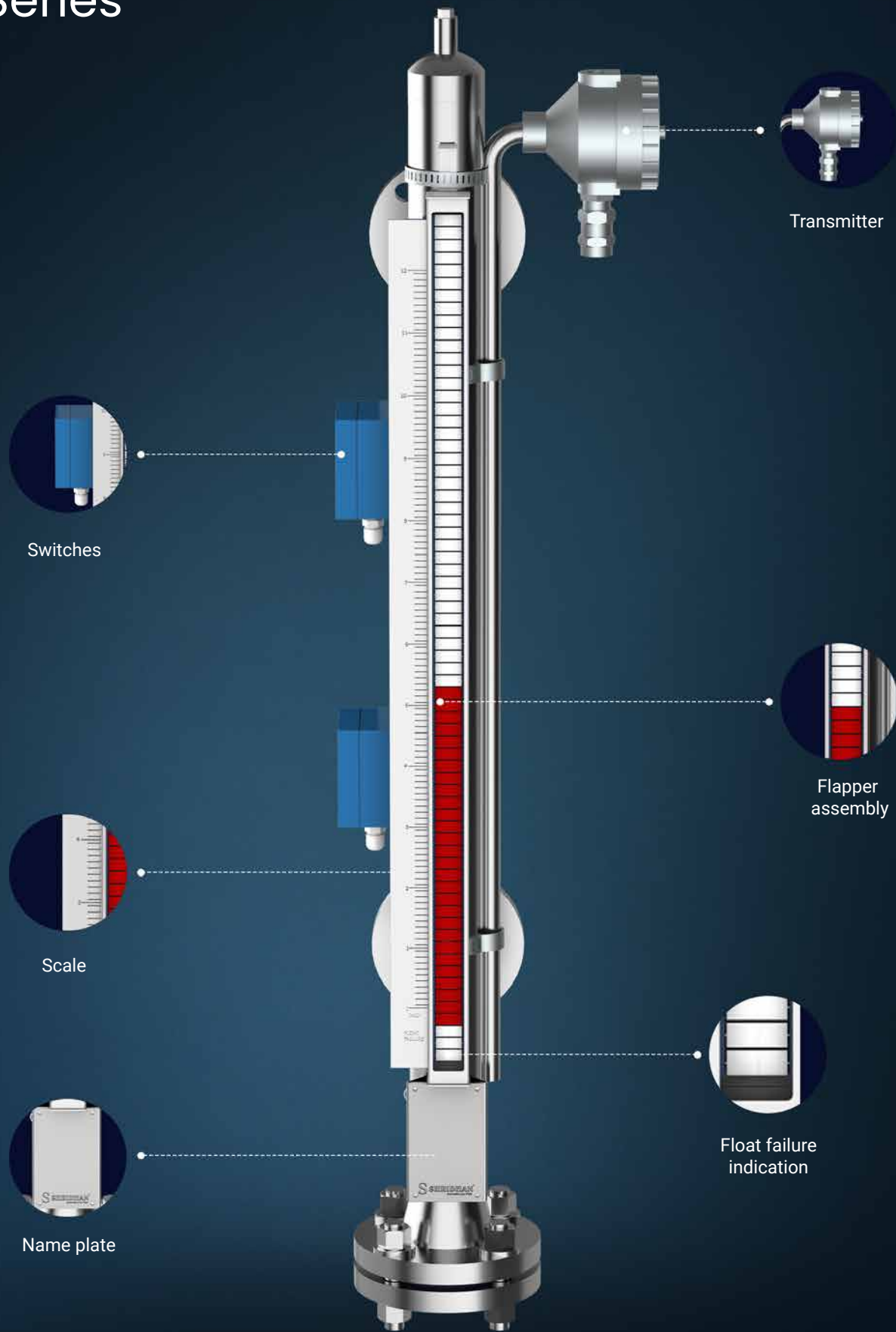
**Ex**  
2014/34/EU

**CE**  
2460





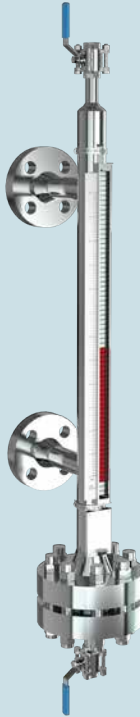
# MLI Series



## Product Variants



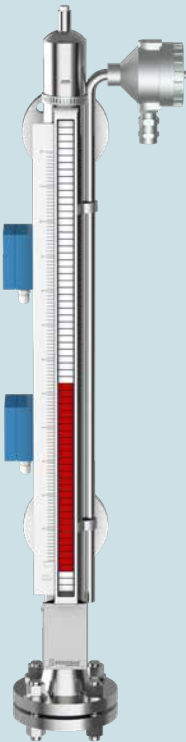
MLI - SS version



MLI - High pressure version



MLI - with thermal insulation



MLI - with switches  
and transmitter

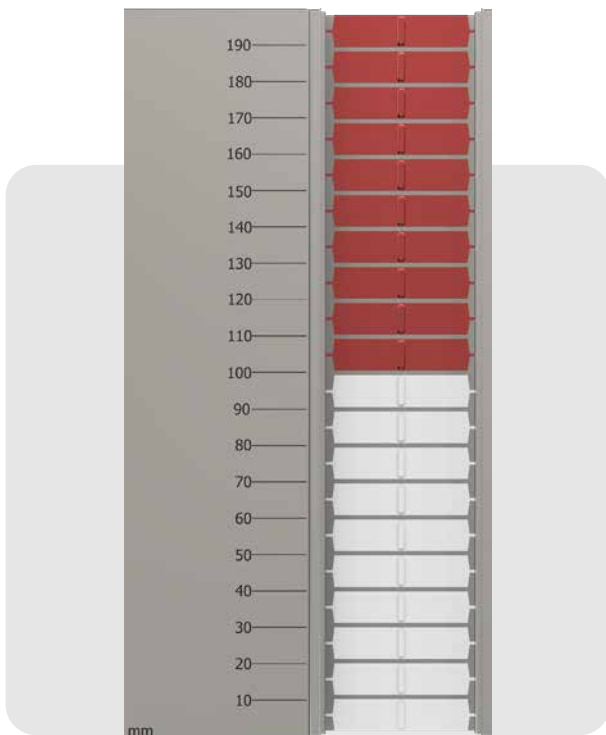


MLI - Engineered plastics version



MBLI - Duo series

## Scale and Flapper assembly



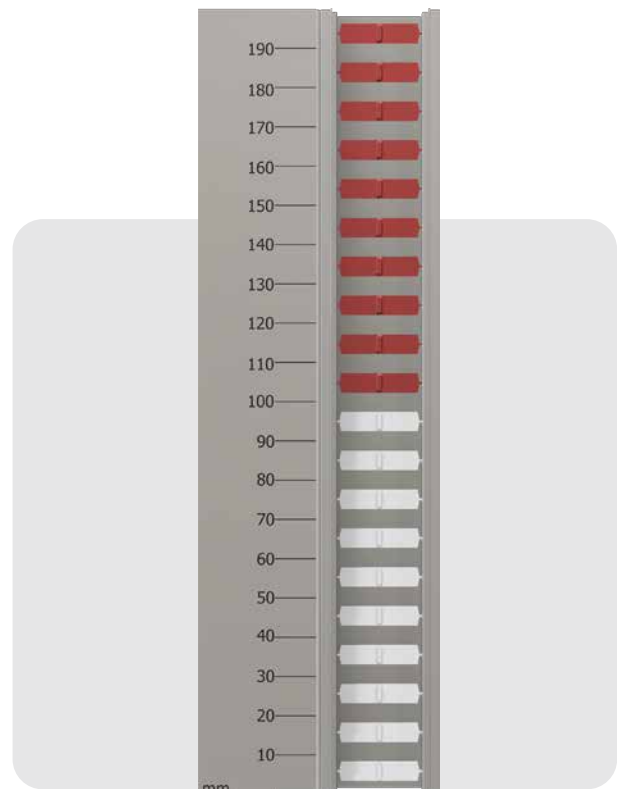
Broad Indicator with Scale

### Indication Type

- Rotating Flappers (Red / White)
- Standard
- Shuttle
- Hermetically Sealed Flappers
- Broad Indicators
- Custom Color Flappers
- Indicator Visibility upto 200 ft.

### Scale

- Inches / Feet
- Running Inches
- Millimeters / Meters
- Centimeters / Meters
- Percent (5% increments)
- Gallons
- Liters
- Indicator Visibility upto 100 ft.



Standard Indicator with Scale

# Float & Displacer Level Switches

Float & Displacer Level Switches, the perfect choice for accurate and reliable level sensing in diverse industrial environments. These switches offer precise liquid level detection and control, ensuring optimal process performance.

## Product Variants

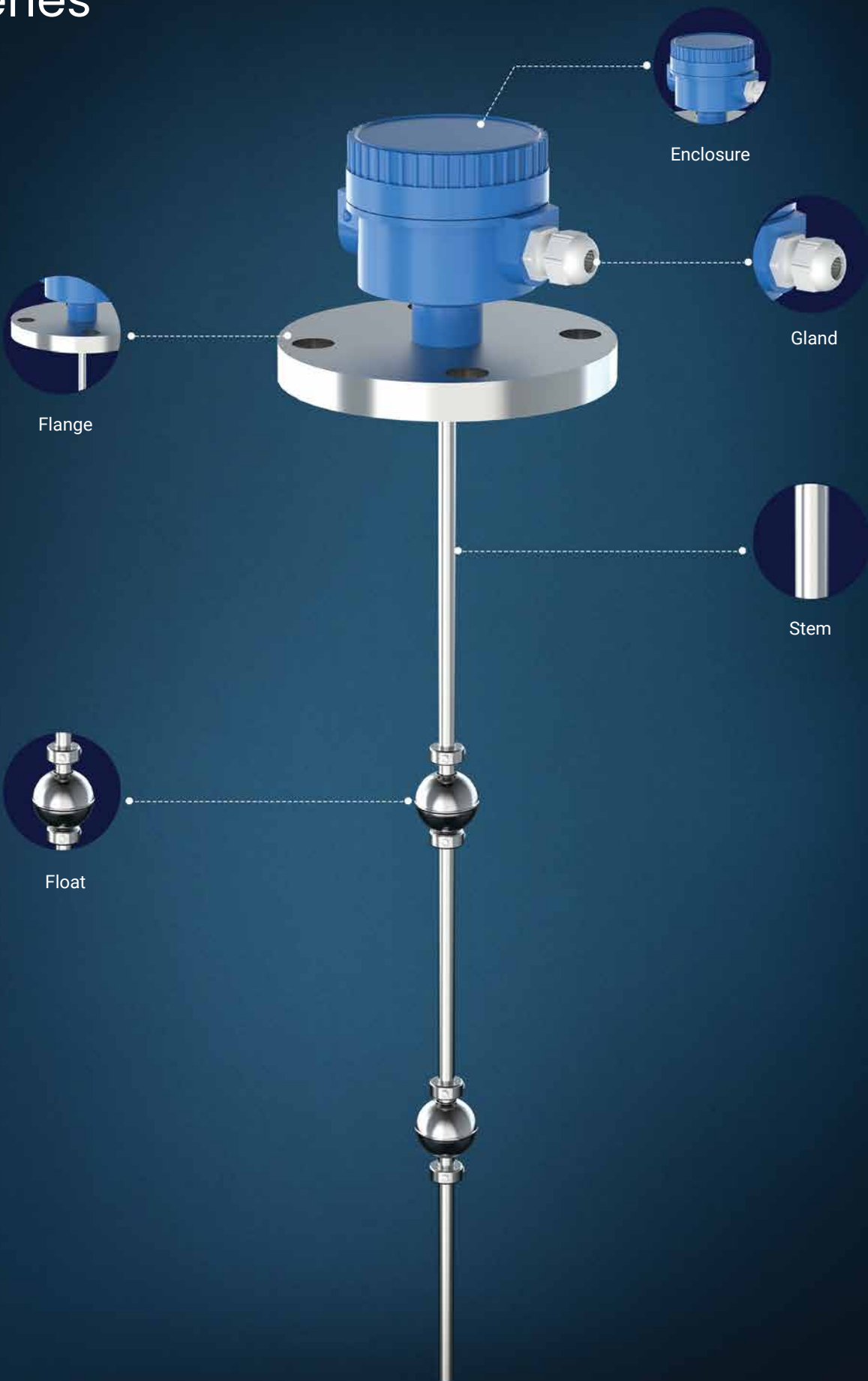
- **VFS Series:**  
Vertical Mounting Magnetic Float Level Switches
- **MVFS Series:**  
Mini Vertical Mounting Magnetic Float Level Switches
- **MHFS Series:**  
Mini Horizontal Mounting Float Level Switches
- **BVFS Series:**  
Bend Version Magnetic Float Level Switches
- **HFS Series:**  
Horizontal Mounting Magnetic Float Level Switches
- **MLS Series:**  
External Chamber Level Switches
- **CFS Series:**  
Cable Float Operated Level Switches
- **DLS Series:**  
Displacer Operated Magnetic Level Switches

## Applications

- Water / Wastewater treatment plants
- Cooling Towers, Lubrication / filtration systems
- Paint Shops
- Food / Drug / Pharmaceutical / Chemical & Petrochemical Industries
- Boilers
- Heat Exchangers
- Leak Detection Systems
- Process vessels etc.



# VFS Series



## Product Variants



HFS Series



MLS Series



MVFS Series



BVFS Series



MHFS Series



CFS Series



# Bilge Level Switches

Bilge Level Switches, crucial for detecting liquid in hard-to-access areas such as dead spaces, voids, and sumps.

They provide early indication of rising liquid levels, highlighting potential leakage or flooding risks.

## Applications

- Ship bilges and tanks
- Industrial sumps and tanks

*Refer "Bilge Alarm System" for Integrated Solution in Maritime Applications*





# Conductivity Level Switches

Our Point Level Controller is a cost-effective solution designed for detecting conductive liquids with various characteristics.

Whether it's low density, high viscosity, the presence of solid particles, or even the interface between non-conductive and conductive liquids, this controller excels.

It's simplicity and versatility for efficient liquid level detection in diverse applications.

## Applications

- Water
- Milk
- Fruit juice
- Effluents
- Caustic
- Phosphate
- Sludge coolant
- Sulphuric acid
- Sump
- Reservoir Control
- Cooling Towers
- Waste water & sewage treatment plants.



# Float Operated Level Transmitters

A simple and reliable sensor for continuous level indication and control of any liquid chemically compatible with the (sensor) material, unaffected by electrical conductivity, temperature, pressure or viscosity. The float is designed for variety of liquids and its unique self-cleaning construction which is well suited for sticky or dirty environment with no float hang-ups.

## Product Variants

- **MLX Series** - Magnetostrictive Level Transmitter
- **FLX Series** - Reed Chain Level Transmitter

## Applications

- Water
- Milk
- Fruit juice
- Effluents
- Sump
- Waste water & sewage treatment plants
- Caustic
- Phosphate
- Sludge coolant
- Sulphuric acid
- Cooling Towers
- Reservoir Control



MLX Series



**PED**  
2014/68/EU



**Ex**  
2014/34/EU

**CE**  
2460

**HART**  
COMMUNICATION PROTOCOL

**SIL2**



FLX  
Series



# Hydrostatic Level Transmitters

Hydrostatic transmitters are used in applications of open or vented tanks in industrial plants or in reservoirs and open channels in water and wastewater treatment applications. Its mounting adaptability makes it ideally suited for use in tanks of all shapes and sizes, on-board ships and in a wide range of industrial applications from water to stringent chemical processes.

## Applications

- Borehole transmitter for various industries
- Used in small diameter pipes
- Sewage water
- Saline/Sea water
- Potable water



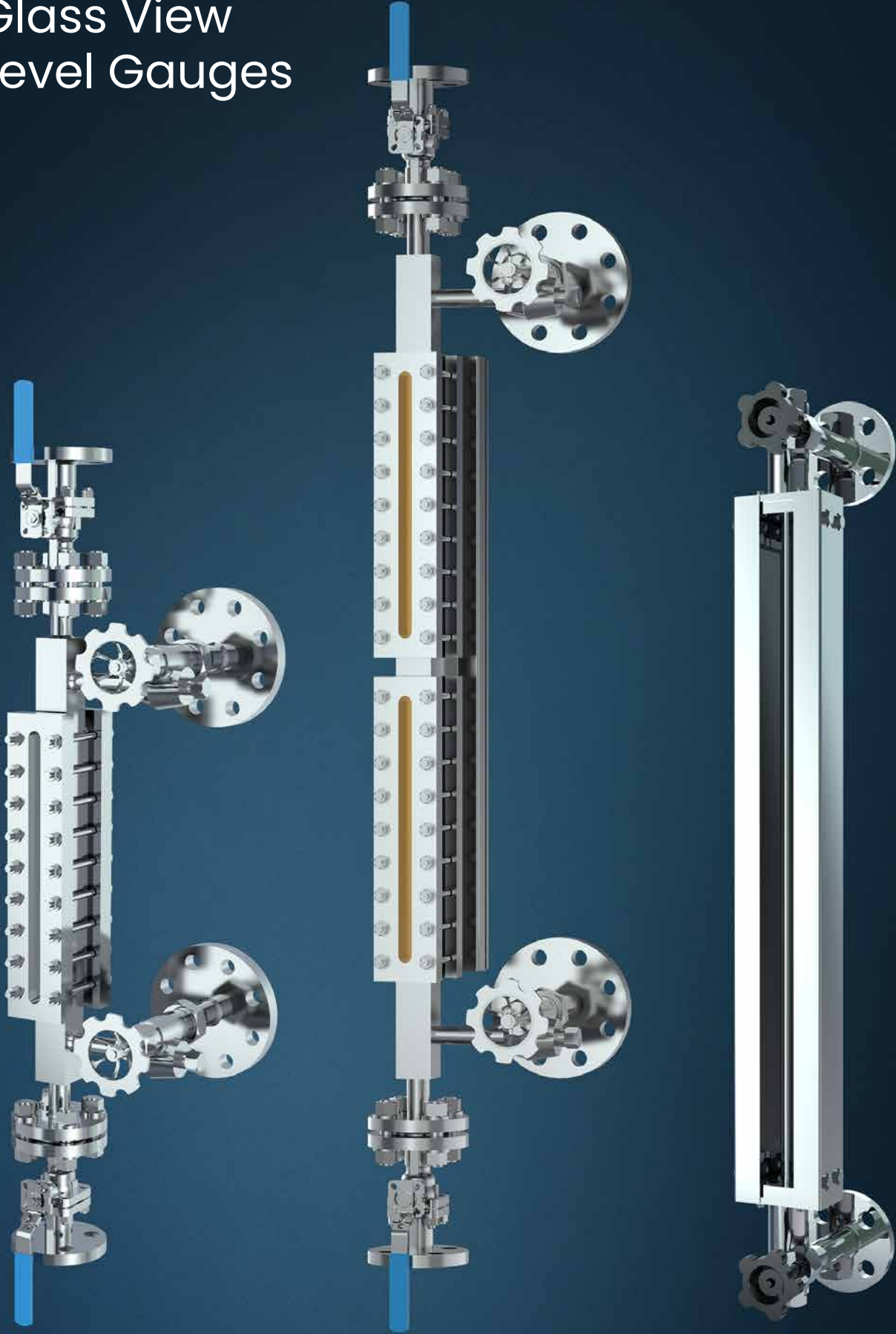
# Sight Level Gauges

Level indicators are cost-effective and conventional technologies used to visually indicate the liquid level in a process. They provide a simple and efficient means of liquid level measurement.

## Product Variants

- **SLI Series:** Sight Level Indicator
- **TLG:** Transparent Level Gauge
- **RLG:** Reflex Level Gauge
- **TLI:** Tubular Level Gauge

# Glass View Level Gauges



Transparent  
Level Gauge

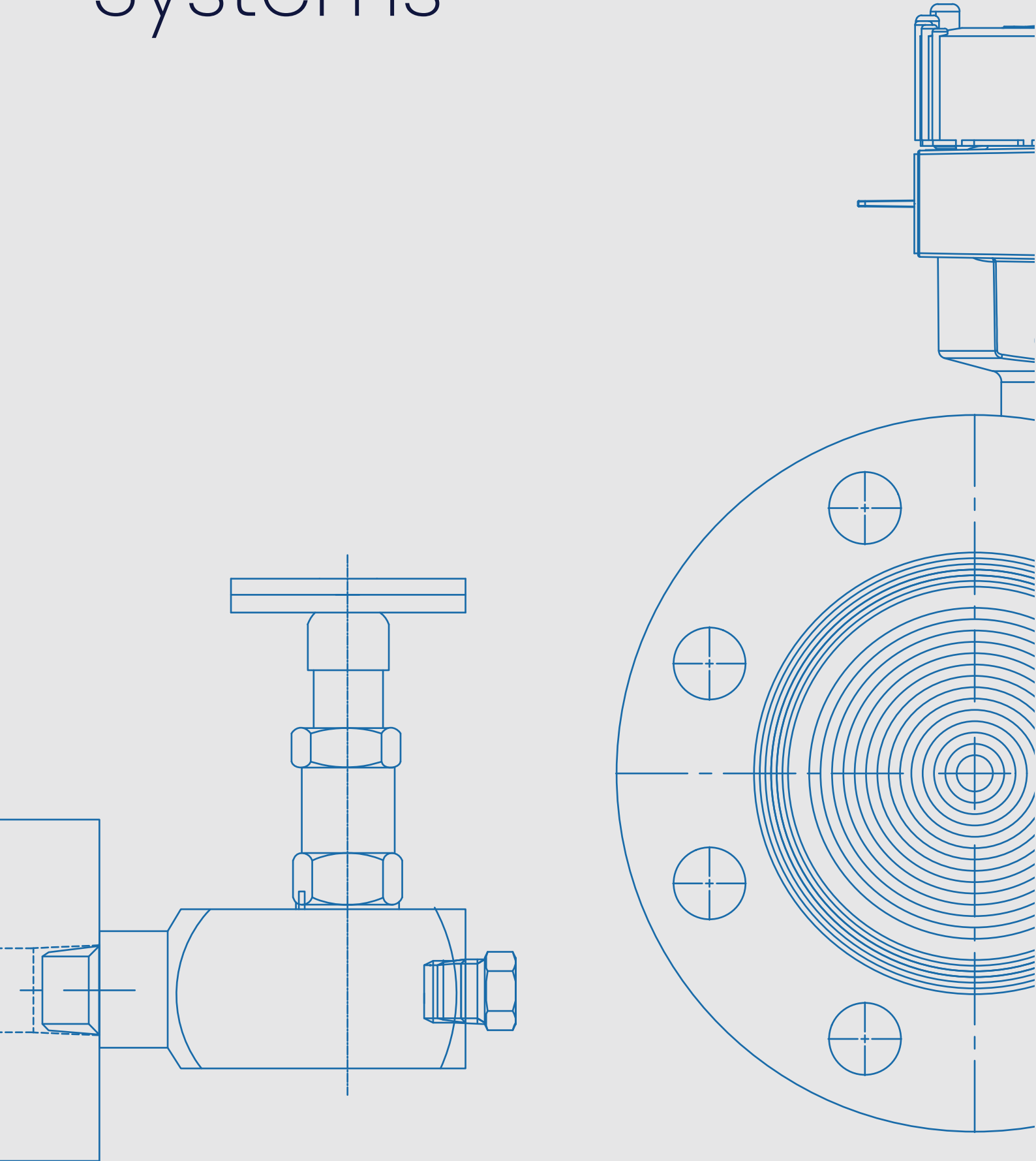
Transparent Level  
Gauge with LED Illuminator

Tubular  
Level Gauge

*Refer "Gauge Valves" sheet for more options*



# Diaphragm Seal Systems



# Diaphragm Seal Systems

In collaboration with PCI Instruments - UK, we manufacture and integrate a diverse range of diaphragm seals for pressure, differential pressure, flow, and level transmitters. Our diaphragm seals are custom-made to match the pressure sensing instrument and suit the specific application requirements.

**FIT and Fill Services to all Transmitter OEM'S**

**DP Transmitter with Gold Plated Seal**

**GP Transmitter with Single Seal**

**Hygenic Seal**

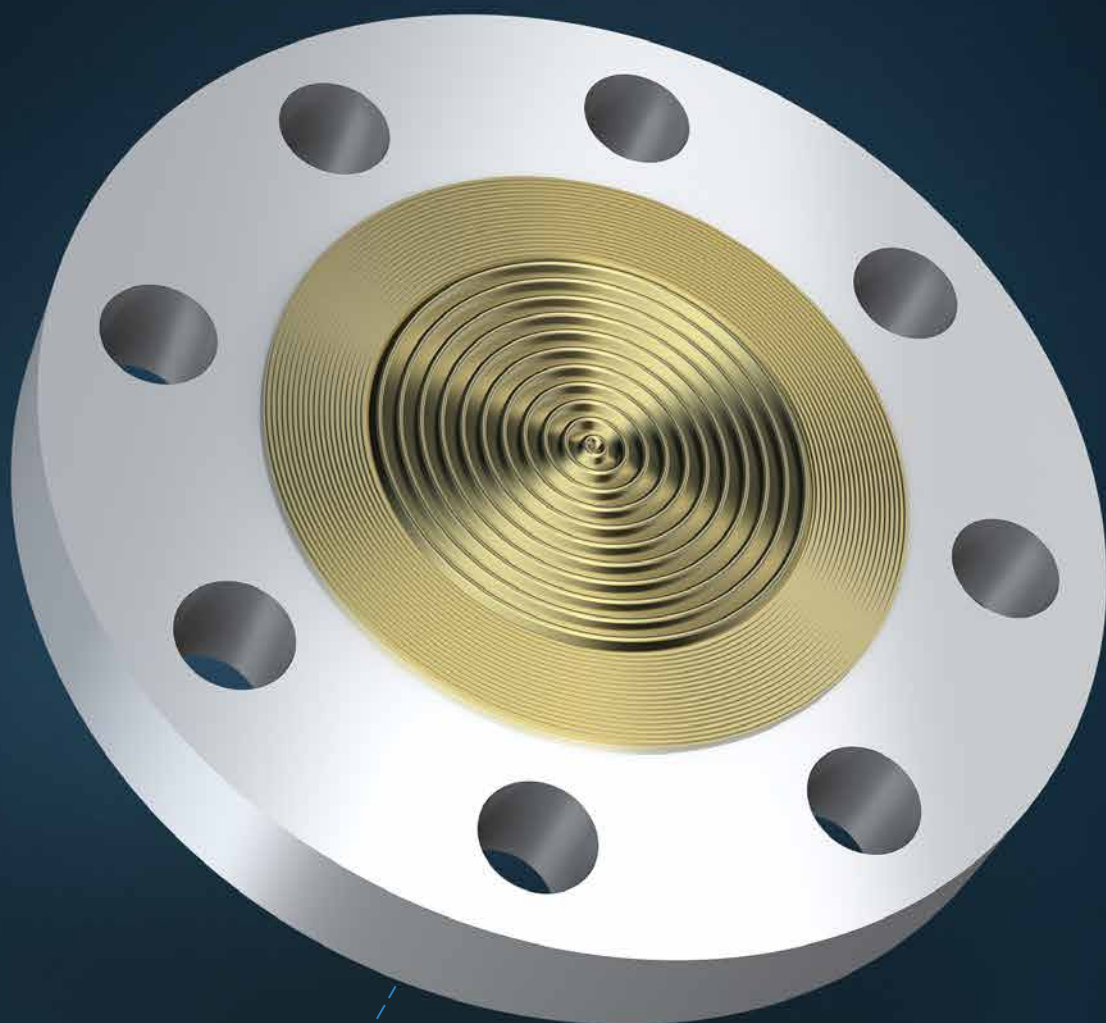
**PTFE Lined Bolted Seal**

**Tank Spud Seal**

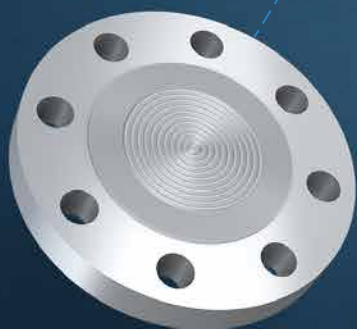
We also offer a fit and fill service, where we can seamlessly attach and fill our seals to pressure instruments from any manufacturer. This service ensures compatibility and optimal performance between our diaphragm seals and the pressure instruments used.



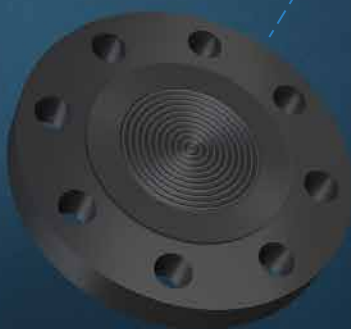
# Diaphragm Seal Variants



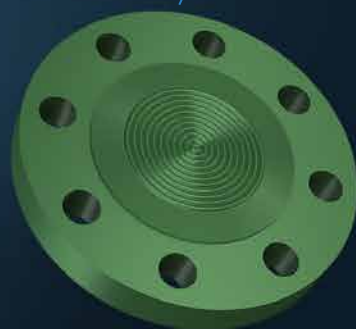
Gold Plated



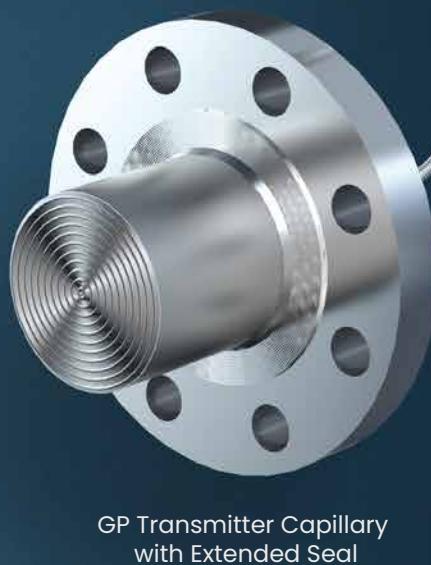
PTFE



PFA Coating

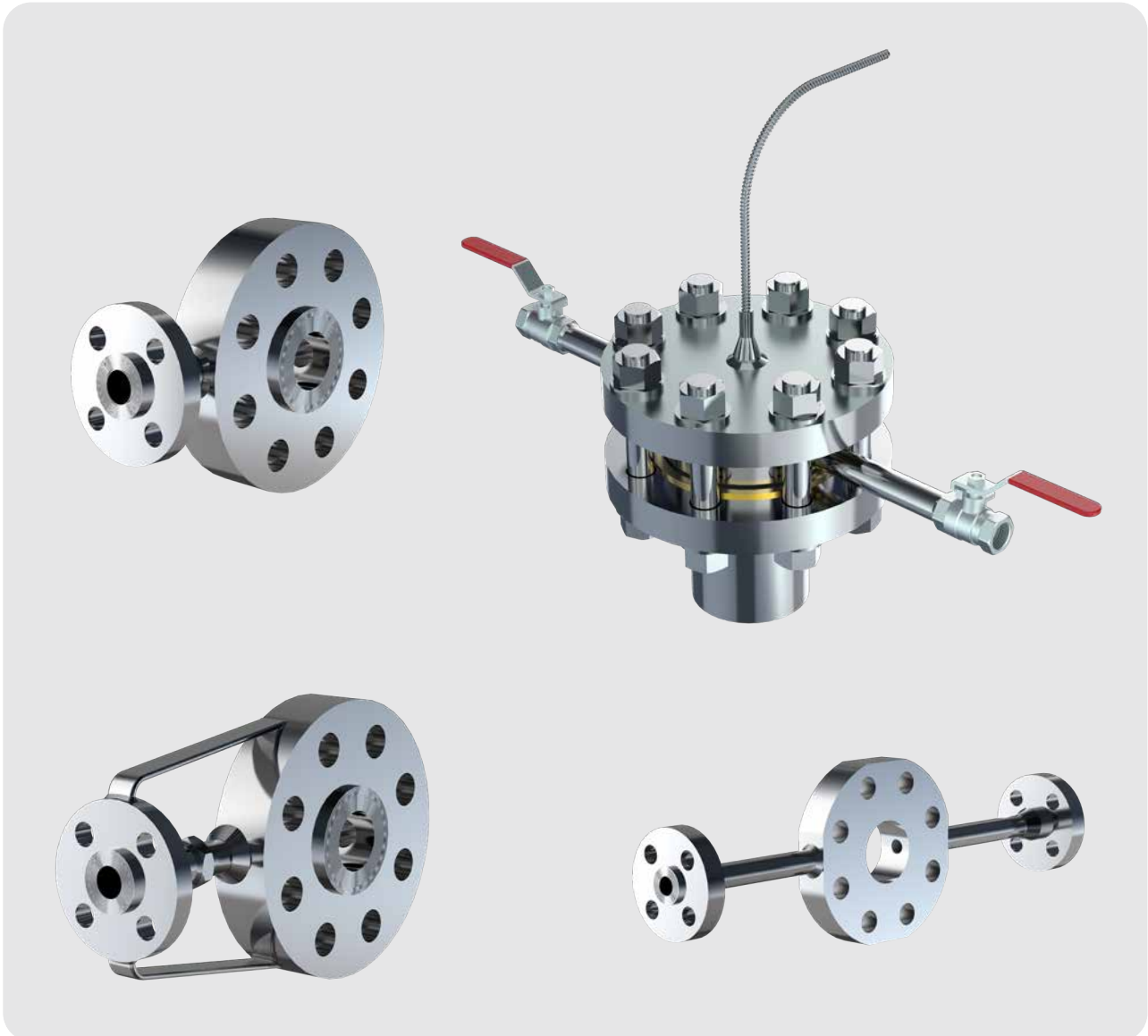


# Diaphragm Seal variants



# Flushing Rings and Flanges

Flushing rings are utilized in conjunction with flanged chemical seal systems to flush or vent the area directly in front of the diaphragm. They are easily installed between the flanged process connection and the diaphragm seal. The two flushing ports enable the removal of particles that have accumulated in front of the membrane, and the pressure space can be vented or drained as needed.

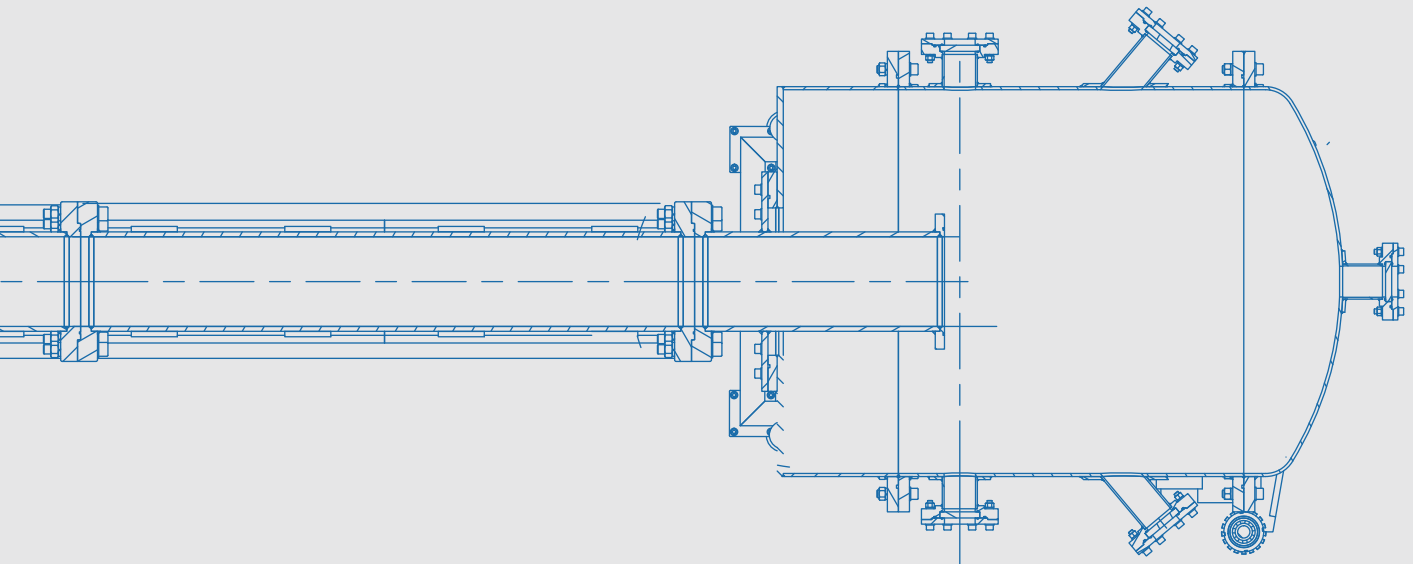
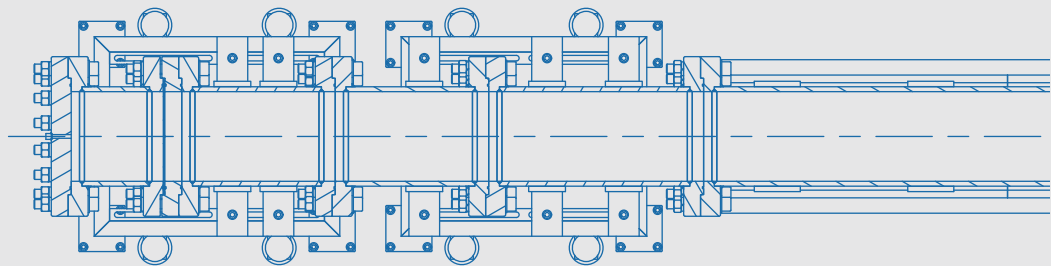


## Applications

- Flushing ports facilitate the removal of accumulated particles in front of the membrane.
- The flushing process can be performed to ensure cleanliness.
- The pressure chamber can be vented, drained, or filled with a cleaning liquid based on the specific requirement.
- The flushing rings come in different nominal widths and forms, enabling adaptation to the specific process flange.



# Equipment and Systems



# Pressure Vessels & Storage Tanks

- Total solutions provided for storage vessels from design to commissioning.
- Experience in designing and manufacturing according to various design codes (ASME, IS, etc.)
- Material handling capability of up to 3 tons and size possibilities of up to 2000mm x 5000mm length
- Ability to cater to services with operational conditions ranging from full vacuum to 350kg/cm<sup>2</sup> [pressure] and -40 °C TO 450 °C [temperature]
- Ability to execute welding jobs by qualified welders as per ASME Section IX of the BPVC & NDT testing facilities
- Expertise in handling different metals and engineering plastics, including:
  - Carbon Steel
  - Austenitic Stainless Steel (various grades)
  - Duplex & Super Duplex
  - Nickel alloys like Incoloy (various grades) & Monel (various grades)
  - Titanium
  - Polyvinyl Chloride (PVC)
  - Polypropylene (PP)
  - Polytetrafluorethylene (PTFE)
  - High Density Polyethylene
  - Polyvinylidene Fluoride (PVDF) and various material liners for highly corrosive and aggressive media



# Shock Tunnel Systems



# Pressure Piping

- Total solutions provided for pressure piping, covering design to commissioning.
  - Experience in designing and manufacturing according to various design codes (ASME, IS, etc.)
  - Size capabilities up to 8" and a 2500lb rating
  - Ability to accommodate operational conditions ranging from full vacuum to 350kg/cm<sup>2</sup> [pressure] and -40°C to 450°C [temperature]
  - Qualified welders available for executing welding jobs as per ASME Section IX of the BPVC
  - Non-Destructive Testing (NDT) facilities for quality assurance.
- Expertise in handling different metals and engineering plastics, including:
    - Carbon Steel
    - Austenitic Stainless Steel (various grades)
    - Duplex & Super Duplex
    - Nickel alloys like Incoloy (various grades) & Monel (various grades)
    - Titanium
    - Polyvinylchloride (PVC)
    - Polypropylene (PP)
    - Polytetrafluoroethylene (PTFE)
    - High-Density Polyethylene
    - Polyvinylidene Fluorides (PVDF) and various material liners for highly corrosive and aggressive media





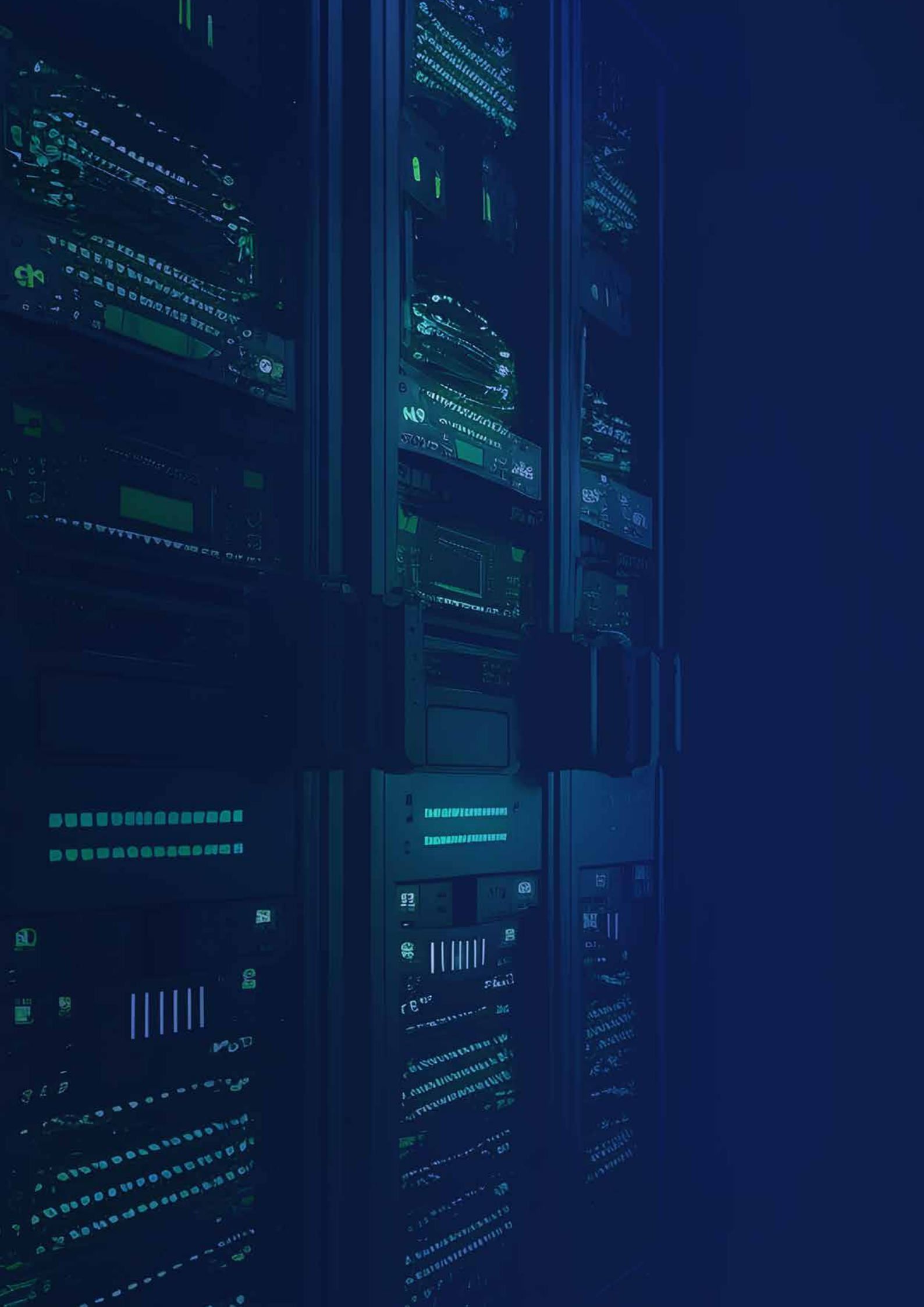
# Instrumentation Skids

- Integration services provided for various types of skid-mounted setups involving pressure, flow, level, and temperature instrumentation.
- Integration of control panels and instrumentation controllers.
- Custom injection skid packages tailored to specific requirements.
- Comprehensive services covering concept to commissioning.
- In-house FAT (Factory Acceptance Test) capability to ensure quality and compliance.

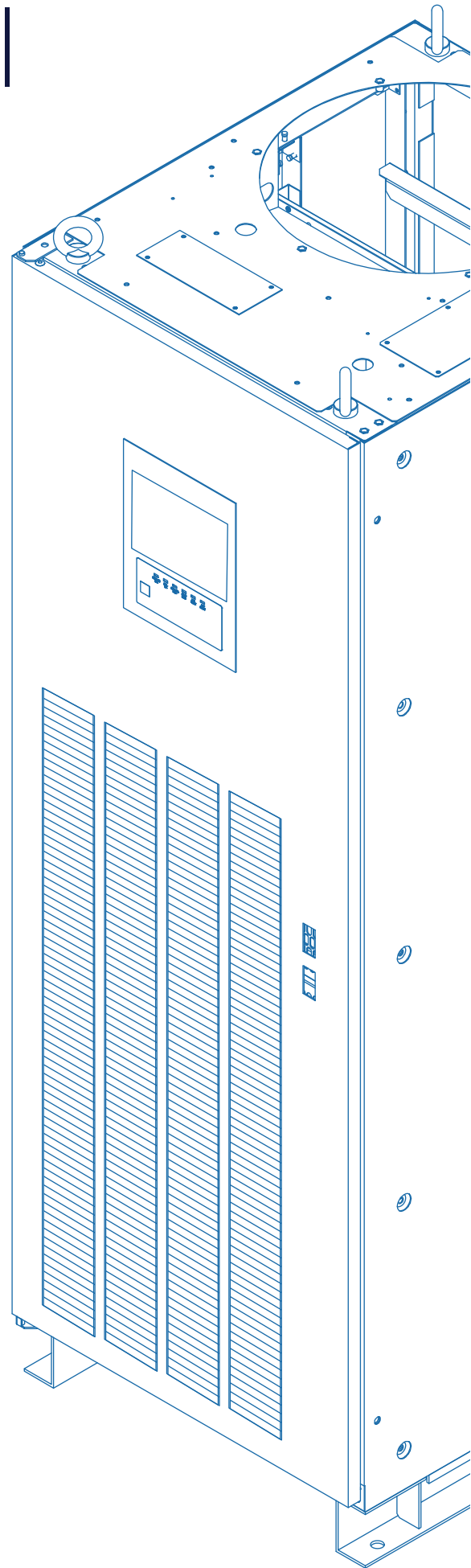
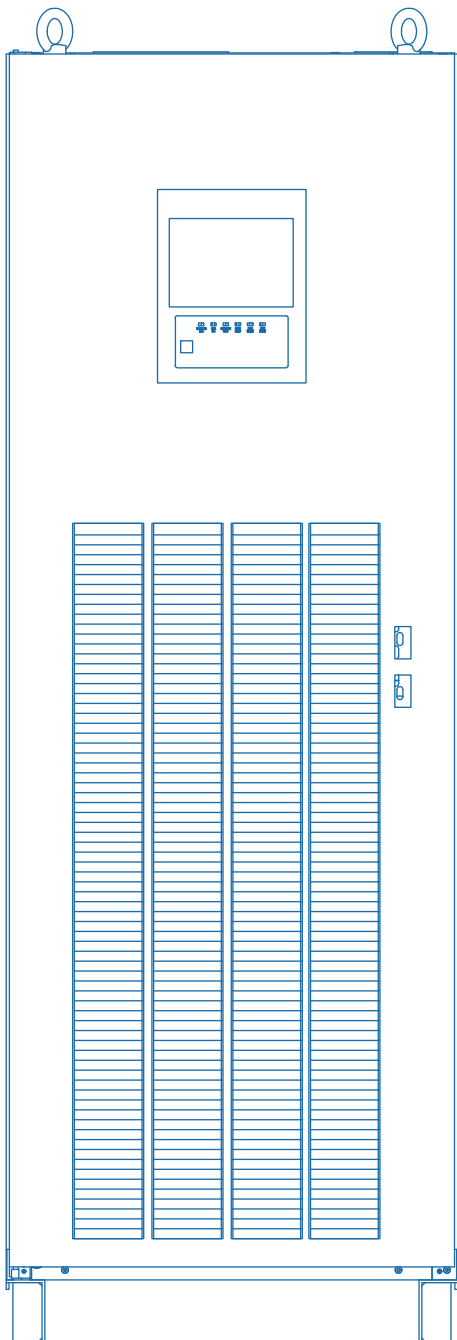


## Quality Tests

Hydrostatic pressure test (for external chambers only), Dye penetration test, Radiography Level 1 / Level 2, Ultrasonic Examination, Magnetic particle test, NACE MR0175 / ISO 15156 compliance.



# Control Panel Solutions



# Control Panel Enclosures

Shridhan manufactures panel enclosures to provide a safe and secure housing for electrical, electronic and instrumentation devices, safeguarding them from environmental hazards & unauthorised access. These durable and secure enclosures find themselves easy to be installed and operated, in a variety of industrial and commercial working environments.



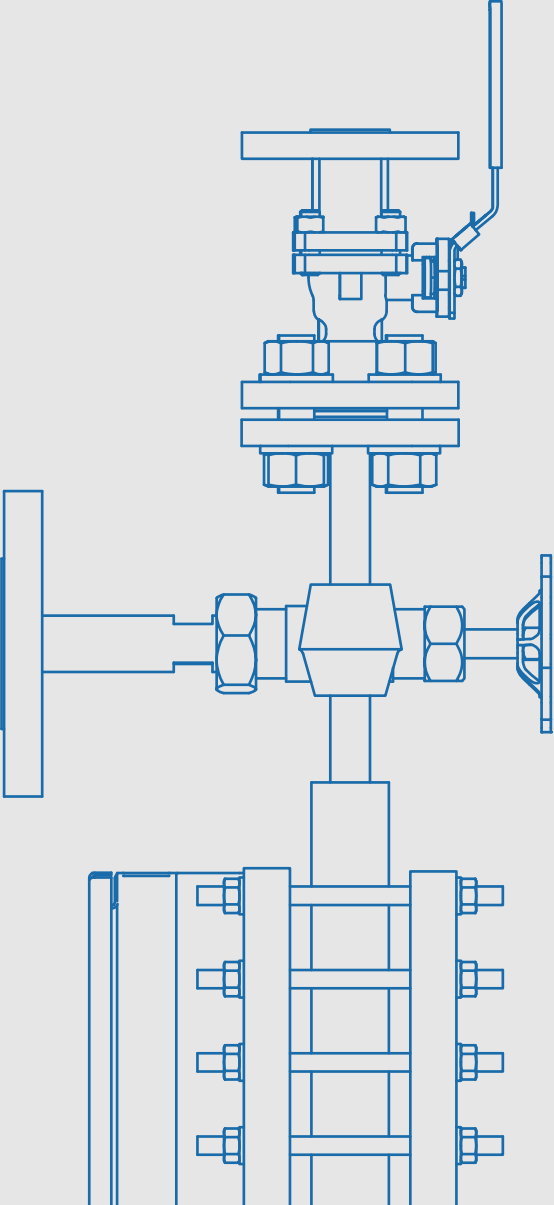
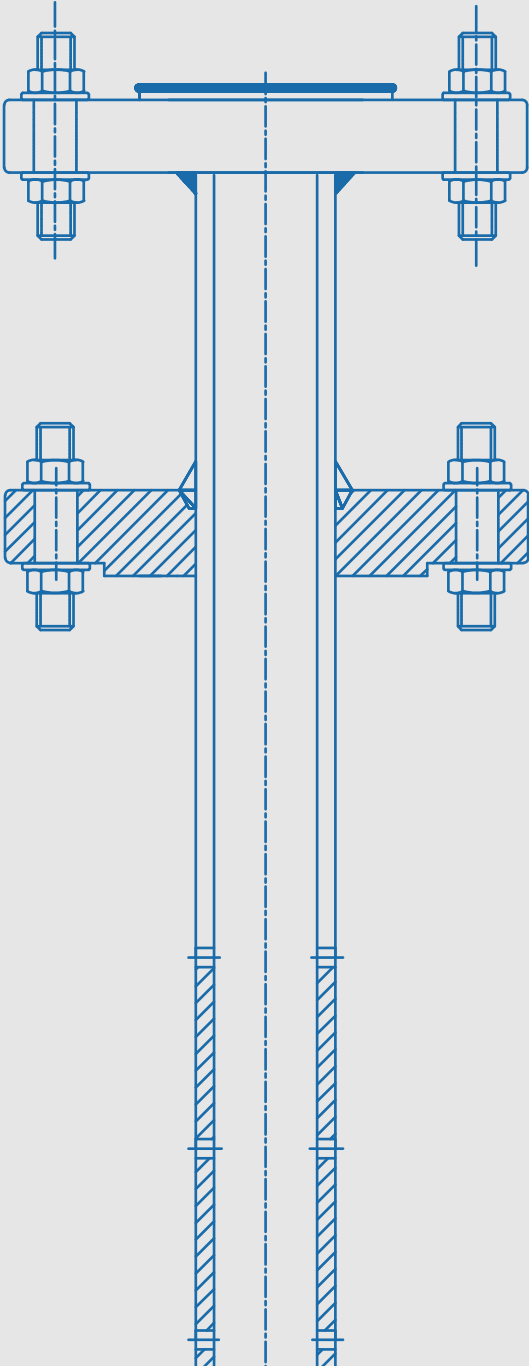
*Refer - "Control Panel Enclosures" Catalog for more Information*

# Enclosure Series





# Integrated Solutions



# Level Control Instruments

Level control instruments are used to monitor and regulate the liquid or material level in tanks, vessels, and other industrial processes. They provide accurate measurements and control, ensuring optimal levels for efficient operations and preventing overflows or shortages.

## Product Variants

- Process Controllers
- Liquid Level Monitoring Relays
- Contact Duplicator
- Level Alarm Instrument



## Features

- Multiple indicator options available for diverse tank monitoring applications within a panel enclosure.
- Single controller capable of overhead tank and sump monitoring, as well as level control.
- Optional explosion-proof enclosures for level controllers, ensuring safety in hazardous environments.



# Gauge Valves

Gauge valves are utilized to isolate instrument assemblies during process shutdowns and maintenance, providing flexibility for mounting different level gauges. They are recommended for use with SHRIDHAN make Transparent & reflex level gauges or any other pipe connections.

## Material of construction

- SS316L, Carbon steel





# External Chambers and Stilling Wells

External chambers are utilized for mounting Shridhan or other process level instruments to a vessel. This external mounting allows for isolation of the instrument during routine maintenance while ensuring uninterrupted plant operation. It is particularly useful when in-tank restrictions prevent instruments mounting directly on the vessel.

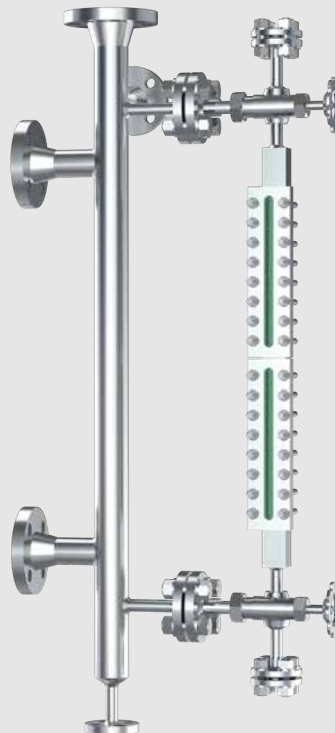
Stilling wells are cylindrical cages installed within tanks to protect level instrumentation from fluid agitation, which could cause measurement errors. They effectively dampen disruptions such as waves, turbulence, and reduce foaming, providing a stable surface for accurate level measurement. Stilling wells are compatible with float and displacer level switches, float-operated level transmitters, as well as ultrasonic and radar sensors.

## Features

- Conforms to the Pressure Equipment Directive (PED) 2014/68/EU for liquids in Groups 1 and 2.
- All welds are full penetration to enhance integrity and mitigate corrosion risks.
- Optimized for compatibility with various level instruments/sensors.
- Drain options provided for easier instrument maintenance. Vent options available on request.



External Chamber



External Chamber  
with Reflex Gauge



Stilling Well

# Bilge Alarm System

When selecting bilge level sensors, it is crucial for shipbuilders and owners to avoid compromising on quality by choosing cheaper devices constructed with subpar materials and design.

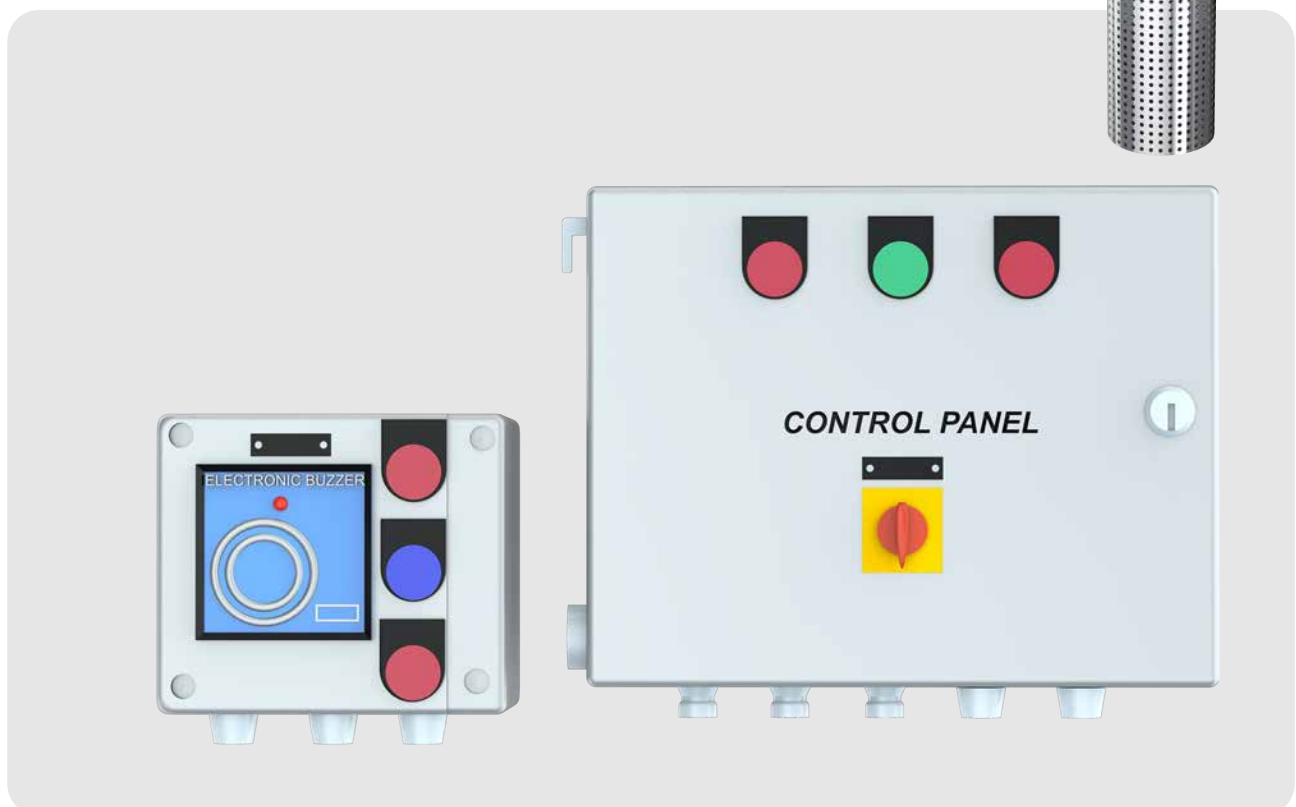
The bilge water level switch undergoes rigorous testing that exceeds the environmental requirements for Marine Type Approval outlined in IACS Unified Requirement E10 and relevant sections of IEC945.

The control panel system includes a buzzer with acknowledgement, indication lamps, and relay contacts proportional to the number of bilge level switches. These panels are specifically designed to withstand the harsh environmental conditions in cargo holds, pump rooms, and engine rooms.

## **This product is suitable for marine and offshore installations, including:**

- Chemical parcel tankers
- Oil tankers
- Floating storage offloading (FSO) vessels
- Floating production storage and offloading (FPSO) vessels

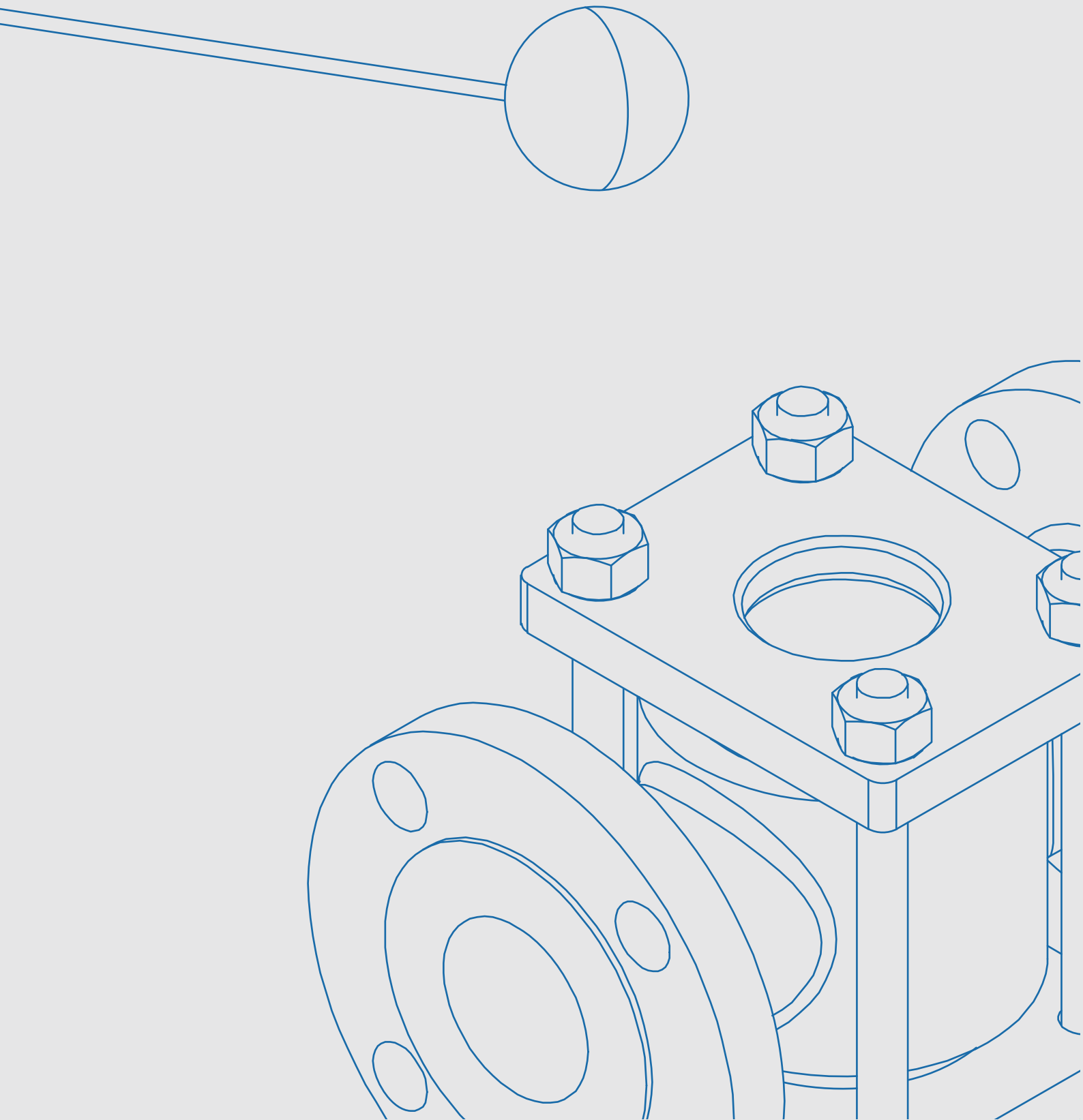
Additionally, it is also suitable for land-based systems catering to the petrochemical, refinery, and process industry.



Refer – "Bilge Level Switches" for Level Switch Information



# Flow Instrumentation



# Float Valves

A float valve is utilized to automatically stop the flow of liquids, typically water, at a predetermined level. When properly adjusted and operational, float valves exhibit high accuracy and reliability. They are commonly used in numerous industrial applications. The simplicity of the float valve concept contributes to its wide spread usage and dependable performance.



## Features

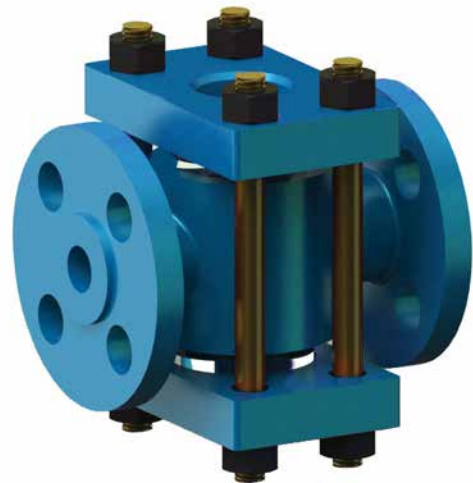
- Proportional behavior (The flow is inversely proportional to fluid level in the tank)
- Easy to install & maintain.
- Compact Design

## Applications

- Liquid storage tanks
- Sumps

# Sight Flow Indicators

Sight flow indicators offer an efficient means to visually monitor the state of liquids within industrial process lines. These indicators provide information on flow rate, flow direction, and the condition of the medium. Operators can observe the color and clarity of liquids through a window. Sight flow indicators can be equipped with various mechanisms to enhance visual observation, such as rotators for clear fluids, flappers for flow direction and intensity, and drip tubes for low flows. Additionally, Teflon-lined sight flows are utilized in corrosive environments to protect against chemical reactions.



## Material of construction

- SS316L, Carbon Steel, Inconel, Monel, Hastelloy, and other super alloys.

# Services

## Diaphragm Seals Refurbishment and Calibration

In collaboration with PCI Instruments, Shridhan Automation provides a comprehensive Repair and Calibration Service for Pressure Transmitters with Diaphragm Seals. A repair can be a quick and cost-effective option. Most repairs can be completed and returned to the customer within 7 to 10 business days. This can save on the long delivery times and frustration associated with buying a new transmitter.

When shridhan receives the transmitter with diaphragm seal system, the transmitter functionality is assessed by one of our engineers. A quotation for the repair of the diaphragm seal portion ONLY will be sent.

On acceptance of the quote, all reusable parts are cleaned while non-reusable parts are replaced from our large stock of components.

Often, we will fit completely new diaphragm seal assembly to the transmitter. When the repair is complete and has passed a calibration test, it is promptly returned with a new calibration certificate according to the end user specifications.

### Typical Seal Damages



Bulged Seal



Blown up seal



Dents on seal



Ruptured seal



# Advantages of Diaphragm Seal Refurbishment

Most repairs can be completed and returned to the customer within 7 to 10 business days – ideal in case of urgent replacements and maintenance situations where new instruments have longer deliveries or additional premium costs.

**All our diaphragm seals are helium leak tested**

**Warranty provided on the diaphragm seal system like a new product supply**

**Universal diaphragm seal assembly for ANY BRAND of transmitter**

**Supplied with standard calibration certificate and complete unit is certified for use at site**

**Significantly economic than ordering a completely new instrument (transmitter + seal assembly)**

**BEFORE**



**AFTER**



&

# Engineering and Validation

## PMI Services

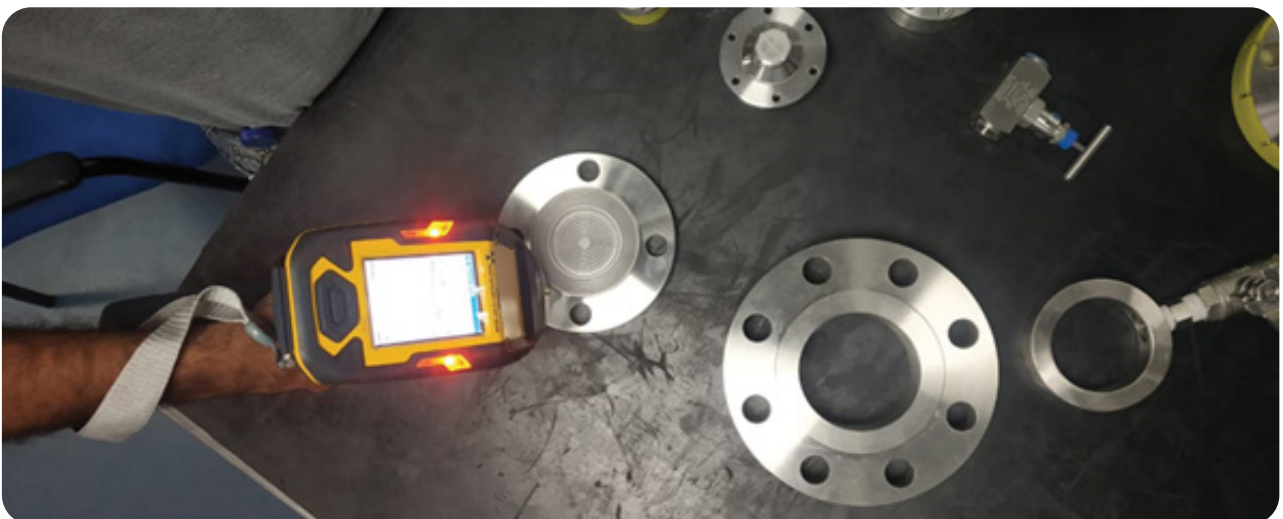
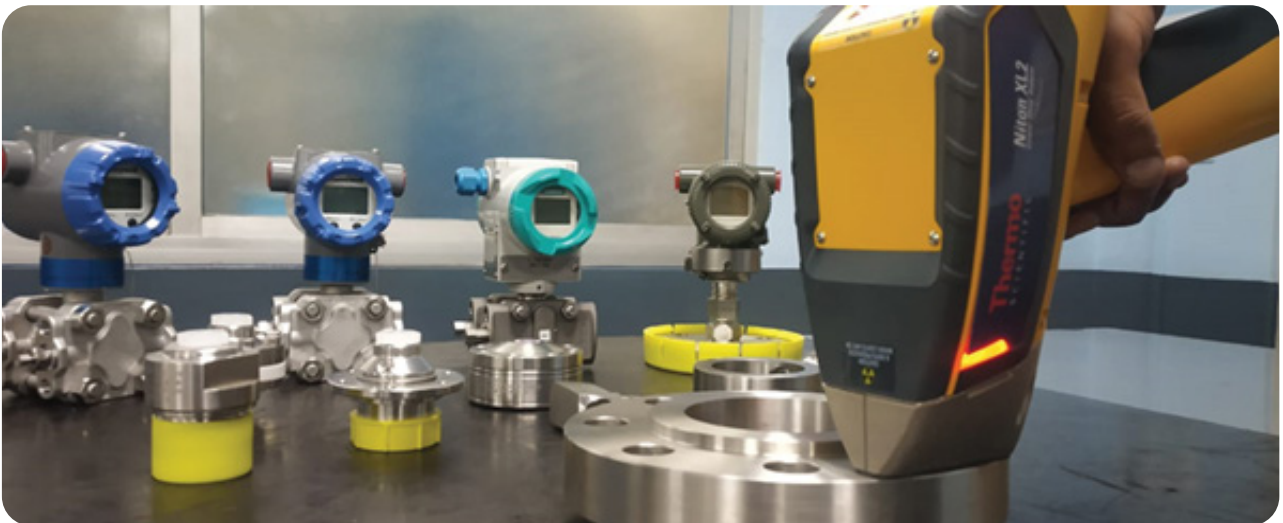
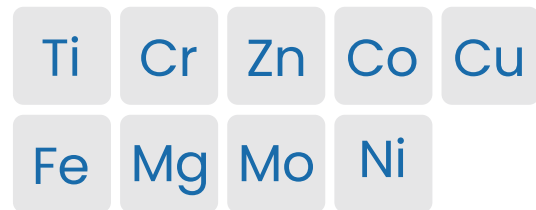
As part of our comprehensive Metallographic Analysis services, we offer on-site Positive Material Identification (PMI) utilizing a portable XRF-Analyzer. This cutting-edge technology enables the identification of medium and high alloyed metals, including Stainless Steel, Nickel alloys, and Copper Alloys, ensuring the utmost precision in your material analysis.

At Shridhan, we believe in delivering top-notch PMI testing services through our team of experienced and well-trained personnel. Our experts guarantee the highest quality of service, giving you confidence in the accuracy of your material analysis.

## Common alloys tested

- Inconel (625, 825, etc.)
- Stainless steels (304, 316, etc.)
- Super Duplex SS
- Hastelloy (C276, C22) & others.

## Elements commonly verified





# Helium leak testing

Helium leak testing is a non-destructive testing method used to detect and quantify leaks in a wide range of systems, including pressure vessels, pipelines, heat exchangers, vacuum chambers, and various other critical components. The method relies on the unique properties of helium gas, which is chemically inert, non-toxic, and has the smallest atomic size among all gases. As a result, helium can efficiently penetrate the tiniest openings, making it an ideal tracer gas for detecting leaks.

## Advantages of Helium Leak Testing Services

High Sensitivity

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Versatility

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Non-Destructive

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Environmental Friendly



Our technicians with expertise in leak detection techniques ensure that the testing is performed to the highest industry standards, adhering to safety regulations and guidelines.

Embracing helium leak testing as an integral part of quality control processes demonstrates a commitment to excellence, safety, and environmental responsibility.



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[www.shridhan.com](http://www.shridhan.com)

