



# TTS

## Product Catalog

For over 30 years, The Transmitter Shop (TTS) has provided reliable and cost-effective instrumentation solutions across industries. Known for fast order processing and delivery, we specialize in fulfilling your instrumentation needs with high-quality products, an extensive inventory, and a commitment to exceptional service. Most orders are processed and shipped within three days, and a two-year warranty accompanies many products, ensuring peace of mind.

# Industries Served

TTS serves a diverse range of industries including oil & gas, chemical processing, water treatment, pharmaceutical manufacturing, power generation, and food & beverage. Our comprehensive product range ensures that we can meet the specific instrumentation needs of each sector with precision and reliability.



## Oil & Gas

Providing Efficient and Durable Oil and Gas Measurement Sensors



## Chemical & Pharmacy

Accurate Measurement of High Demand Chemical Processes



## Food & Beverage

Meeting the Eclectic Needs of the Food and Beverage Industry



## Petroleum Refining

Supporting Complex Refinery Processes



## Wastewater & Sewage

Providing Measurement & Control Solutions for Wastewater Treatment

# Product Offerings

## TTS Level Transmitters

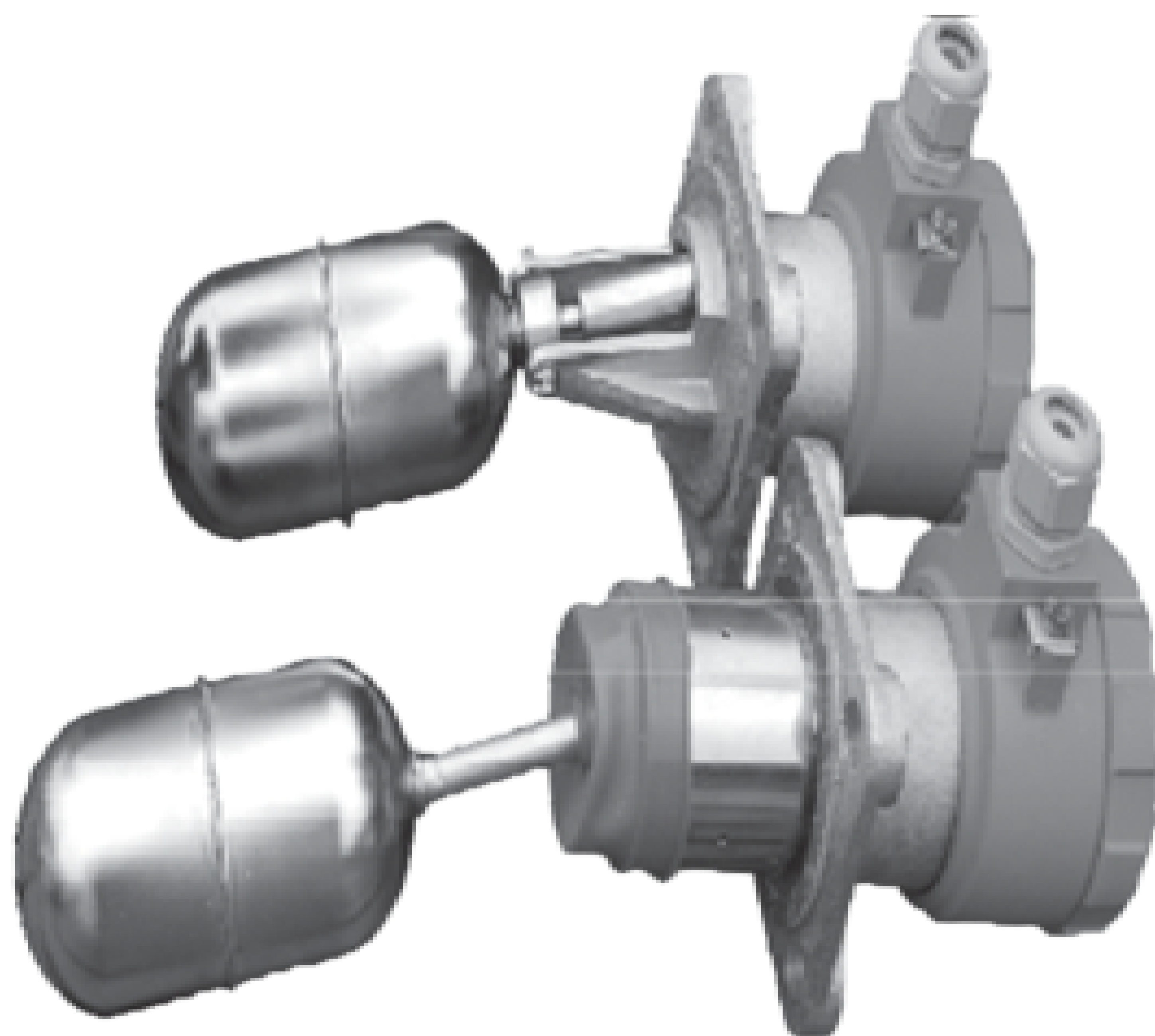
Level transmitters and level switches are used widely in process industries to measure and maintain the level of fluids in pressure vessels. The Transmitter Shop (TTS) provides its level switches type ERH for these process industries. Our level transmitters and level switches are offered with industry approvals and designed to perform in harsh process environments.

### Level switch Type ERH

Float level switches are used for point level detection of liquids in all type of vessels. Operation without external power, side or top mounting, wide temperature and pressure ranges, various process connections, stainless steel wetted parts, Ex version and marine certificates make it a universally applicable level switch. Level switches are available with floats in two sizes: R64.5 x 130mm or R52 x 162mm).

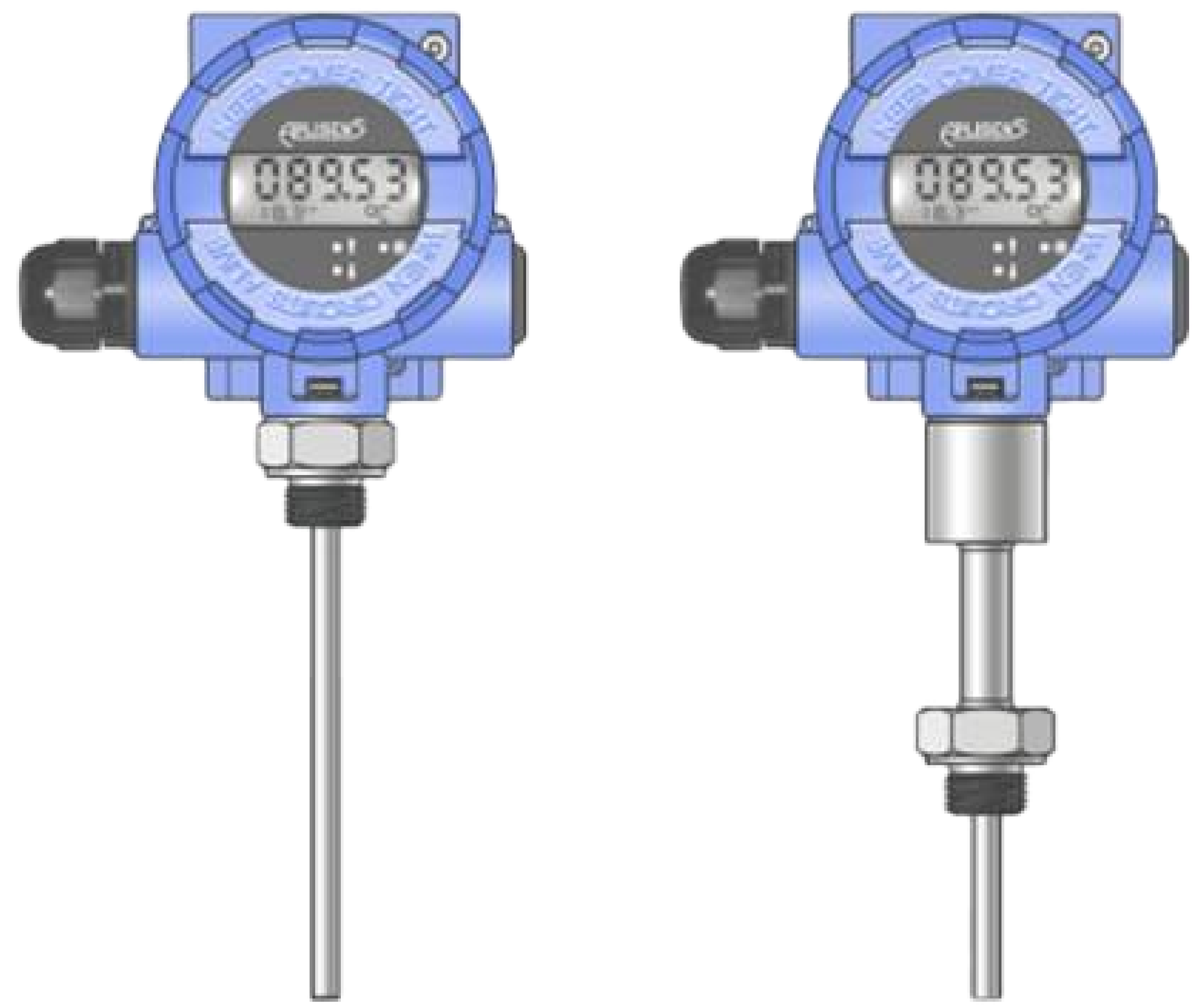
#### Features and Benefits:

- Explosion proof version
- Wetted parts material 316LSS
- Housing material: Aluminium or 316SS
- Housing protection IP66/68
- Nominal pressure 600psi
- Marine certificates (DNV-GL, LR, BV, PRS)



# TTS Temperature Transmitters

TTS Temperature Transmitters offer accurate and reliable temperature monitoring for industrial applications. Designed for use in critical processes, they deliver precise measurements in harsh environments, making them ideal for industries such as oil & gas, chemical, and HVAC. These transmitters support HART communication, ensuring seamless integration into control systems, while their robust design ensures long-term stability and performance.



## Smart Temperature Transmitter LI-24ALW

The LI-24ALW temperature transmitter converts resistance or thermocouple voltage into a standard 4-20mA current signal. It has two channels for measuring temperature differences, averages, or extremes, with ambient temperature and cold junction compensation. Parameters such as sensor type, range, and output characteristics can be programmed using a PC with HART/USB and RAPORT 2 software. It supports both direct-mount and external sensors, and its settings can be customized upon request.

### Features and Benefits:

- Output signal 4...20mA with Hart protocol
- Galvanic insulation (In, Out)
- Programmable sensor type
- Programmable measuring range
- Thermoresistance line compensation
- Compensation of thermocouple cold junction
- Autodiagnostic system
- Intrinsic safety certificate (ATEX, IECEx)
- Explosion proof certificate (ATEX, IECEx)
- Safety version SIL2/SIL3



# TTS Flow Transmitters

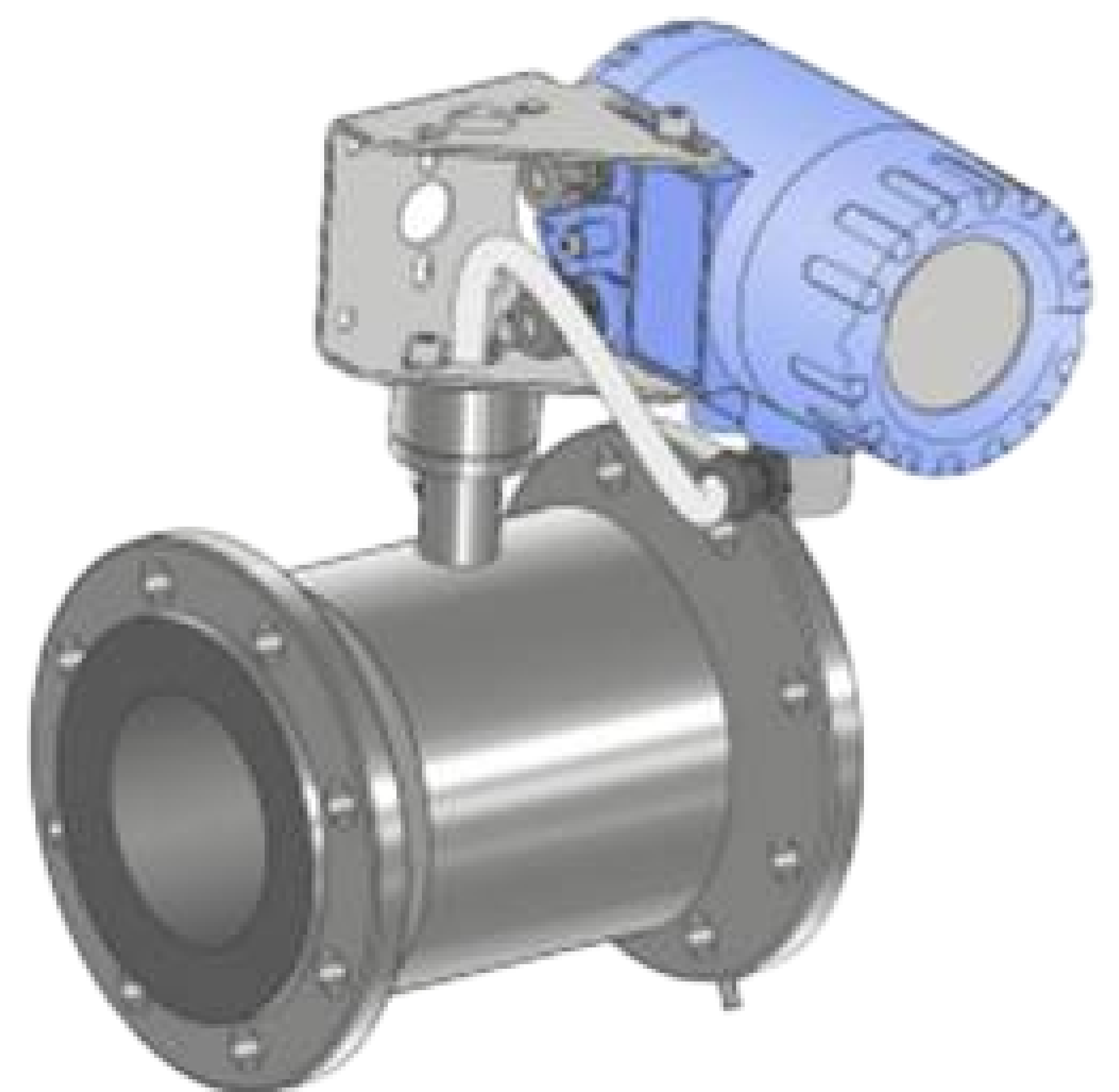
Flow transmitters are used for measuring, controlling, and monitoring the fluid flow across a series of tubes and pipes in process industries. A flow transmitter combines a transmitter and a sensor in an integrated electronic circuit. The device emits electrical signals that are sent to an automated control station for analyzing the accuracy of fluid flow. This helps the operators to keep control of the entire process. At The Transmitter Shop, we offer flow transmitters for various process industries. Our PEM-1000 flow transmitter is an electromagnetic flow meter with multiple features that helps operations to optimize the efficiency of the process with accurate flow details.

## Electromagnetic Flowmeter Type PEM-1000

The Electromagnetic Flowmeter Type PEM-1000 offers precise and reliable flow measurement for conductive liquids. Featuring advanced electromagnetic technology, it ensures accurate readings across a wide range of flow rates and is ideal for various industrial applications. With its robust design and easy installation, the PEM-1000 delivers long-term performance and minimal maintenance.

### Features and Benefits:

- Nominal size: DN10...1000 / ANSI 0,5...40"
- Maximum static pressure 1,6MPa
- Accuracy: 0,5% or 0,2%
- Analog outputs: 4...20mA,
- Communication interface: Modbus RTU / RS 485
- Pulse output (uni- or bidirectional) or frequency output
- Flexible and clever assembling system
- Easy and fast-moving change from compact to remote version
- Innovative and high-power transmitter for every application
- Robust and resistant cover of sensor and transmitter



# TTS Pressure Transmitters

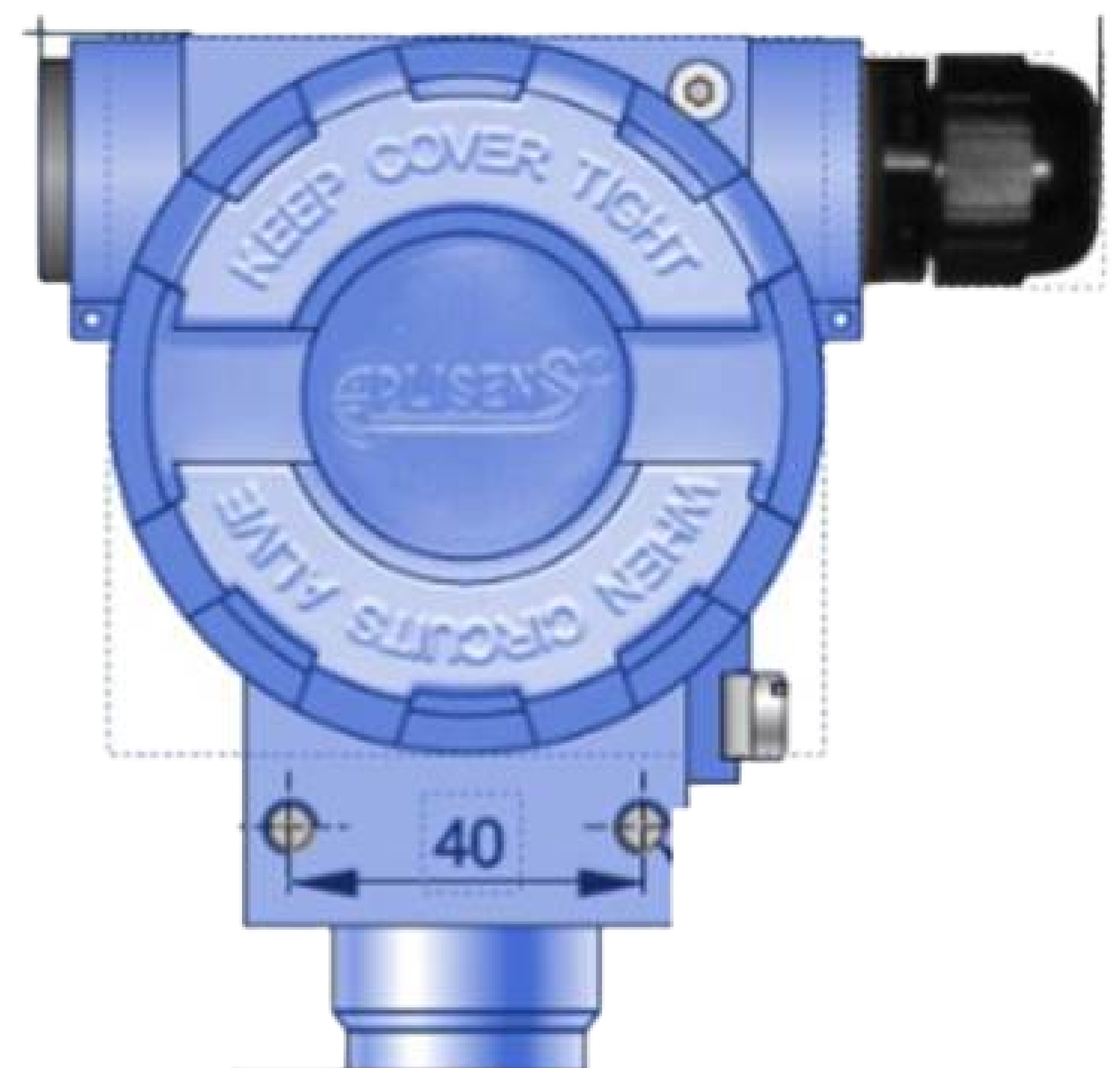
Explore our comprehensive range of pressure transmitters at Transmitter Shop, where we offer high-precision solutions for various industrial applications. Our selection includes top-quality models designed to deliver reliable performance and accurate measurements. Whether you need transmitters for challenging environments or routine operations, our products ensure optimal functionality and durability.

## Smart Pressure Transmitter APC-2000ALW

Smart pressure transmitters are applicable to the measurement of the pressure, underpressure and absolute pressure of gases, vapours and liquids. The active sensing element is a piezoresistant silicon sensor separated from the medium by a diaphragm and by specially selected type of manometric liquid. The casing is made of aluminium alloy cast or 316SS stainless steel, degree of protection IP66/IP67. The design of the casing enables the use of a local display, rotation of the display, rotation of the casing by 0–340° relative to the sensor, and a choice of cable direction.

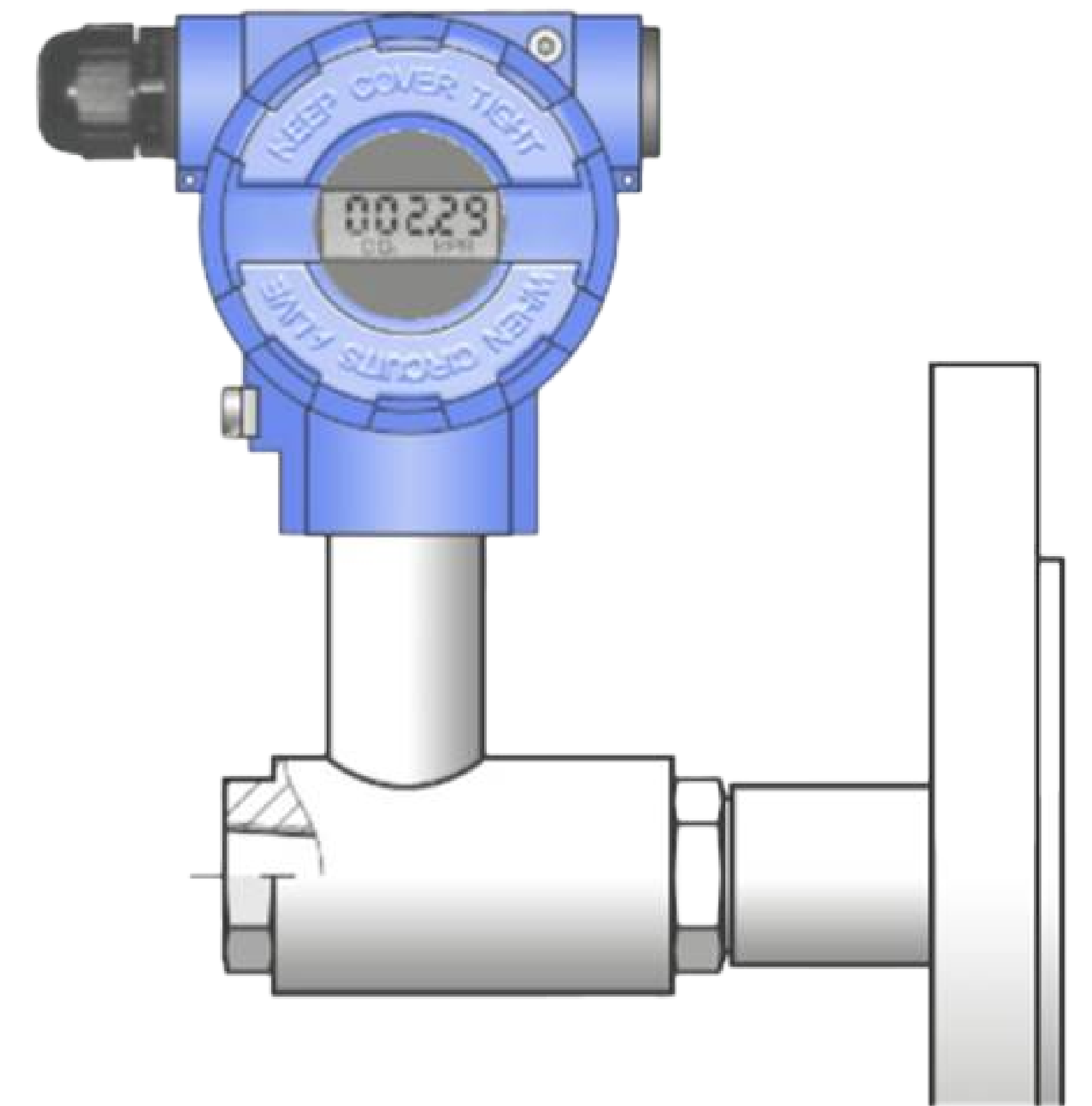
### Features and Benefits:

- 4...20 mA output signal + HART protocol (special version: 0...20 mA or 0...5 mA output signal + HART protocol)
- Programmable range, zero shift, characteristic and damping ratio with local panel keys
- MID (Measuring Instruments Directive) – certificate acc. to 2004/22/WE directive and OIML R140:2007 recommendations.
- Display with backlight
- SIL 2 certificate
- Intrinsic safety certificate (ATEX, IECEx)
- Explosion proof certificate (ATEX, IECEx)
- Marine certificate – DNV, BV
- PED Conformity (97/23/EC)
- Accuracy 0.075% (0.05%, 0.04% on request)
- Gold plated diaphragm (Au)



# TTS Differential Pressure Transmitters

Discover our premium differential pressure transmitters at Transmitter Shop, engineered for superior accuracy and reliability in diverse applications. Our range features advanced models designed to measure pressure differences with precision, ensuring optimal performance in both standard and demanding environments. Explore our selection to find the ideal solution for your differential pressure measurement needs.



## Smart Differential Pressure Transmitter APR-2000ALW

The APR-2000AL transmitter is applicable to the measurement of differential pressure of gases, vapours and liquids. The active element is a piezoresistant silicon sensor separated from the medium by separating diaphragms and a specially selected type of manometric fluid. The special design of the active sensing element ensures that it is able to withstand pressure surges and overloads of up to 3600/4600/6000/10000 psi. The casing is made of aluminium alloy cast or 316SS stainless steel, degree of protection IP66/IP67. The design of the casing enables the use of a local display, rotation of the display, rotation of the casing by 0–340° relative to the sensor, and a choice of cable direction.

### Features and Benefits:

- 4–20 mA output with HART 5 or HART 7 protocol (optional versions: 0–20 mA or 0–5 mA output with HART 5)
- Backlit display for easy readability
- Available in SIL2/SIL3 safety versions
- Certified for intrinsic safety: ATEX, IECEx, FM (USA, Canada)
- Explosion-proof certifications: ATEX, IECEx, FM (USA, Canada)
- Adjustable zero range, shift, characteristic curve, and damping ratio using local panel buttons
- Capable of handling static pressures up to 8700 psi
- High accuracy: 0.075% (optional accuracy upgrades to 0.05% or 0.04%)
- Marine certified by DNV and BV
- Gold-plated diaphragms for enhanced durability
- Wetted components made from 316L stainless steel or Hastelloy C276 for corrosion resistance.

# TTS Instrument Manifold

Instrumentation manifolds are used with pressure instruments in process instrumentation lines. These instruments feature several valves in one body and possess multiple connections. They are used with pressure instruments for measuring as well as equalizing static, differential, and gauge pressures. They do this by calibrating, blocking, and bleeding. The Transmitter Shop (TTS) provides various types of instrumentation manifolds for use in process instrumentation lines. Our selection features 2-valve and 3-valve manifolds, which are used with pressure switches, transmitters, and gauges. All the transmitter shop manifolds are designed as compact units for constrained spaces.

## TTS Manifolds - TTS-304T-22B11

The TTS-304T-22B11 is a 2-valve, 'T' type manifold designed for precise pressure measurement and control. It features a 1/2" NPT (F) connection and a flange according to IEC 61518-B standards.



### Key Features:

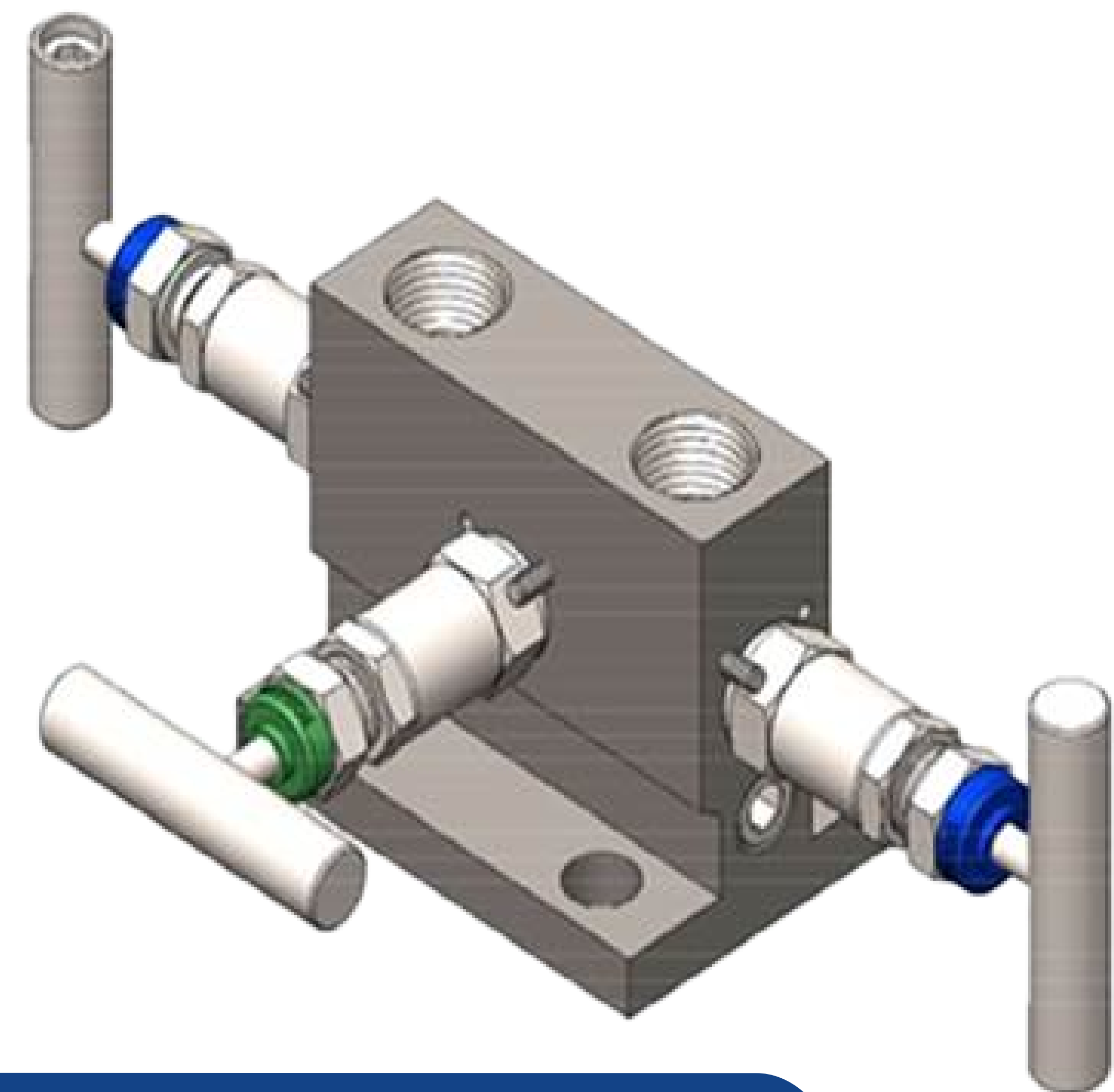
- 2-valve, 'T' type configuration for efficient pressure management.
- 1/2" NPT (F) x Flange (IEC 61518-B) for secure and versatile mounting.
- Durable construction ensures long-lasting performance in various industrial settings. Suitable for use in oil & gas, chemicals, wastewater, and power sectors.





## TTS Manifolds - TTS-304T-32B11

The TTS-304T-32B11 is a 3-valve manifold designed for process instrumentation applications. It features a pipe-to-flange configuration, suitable for high-pressure environments and precision measurement.

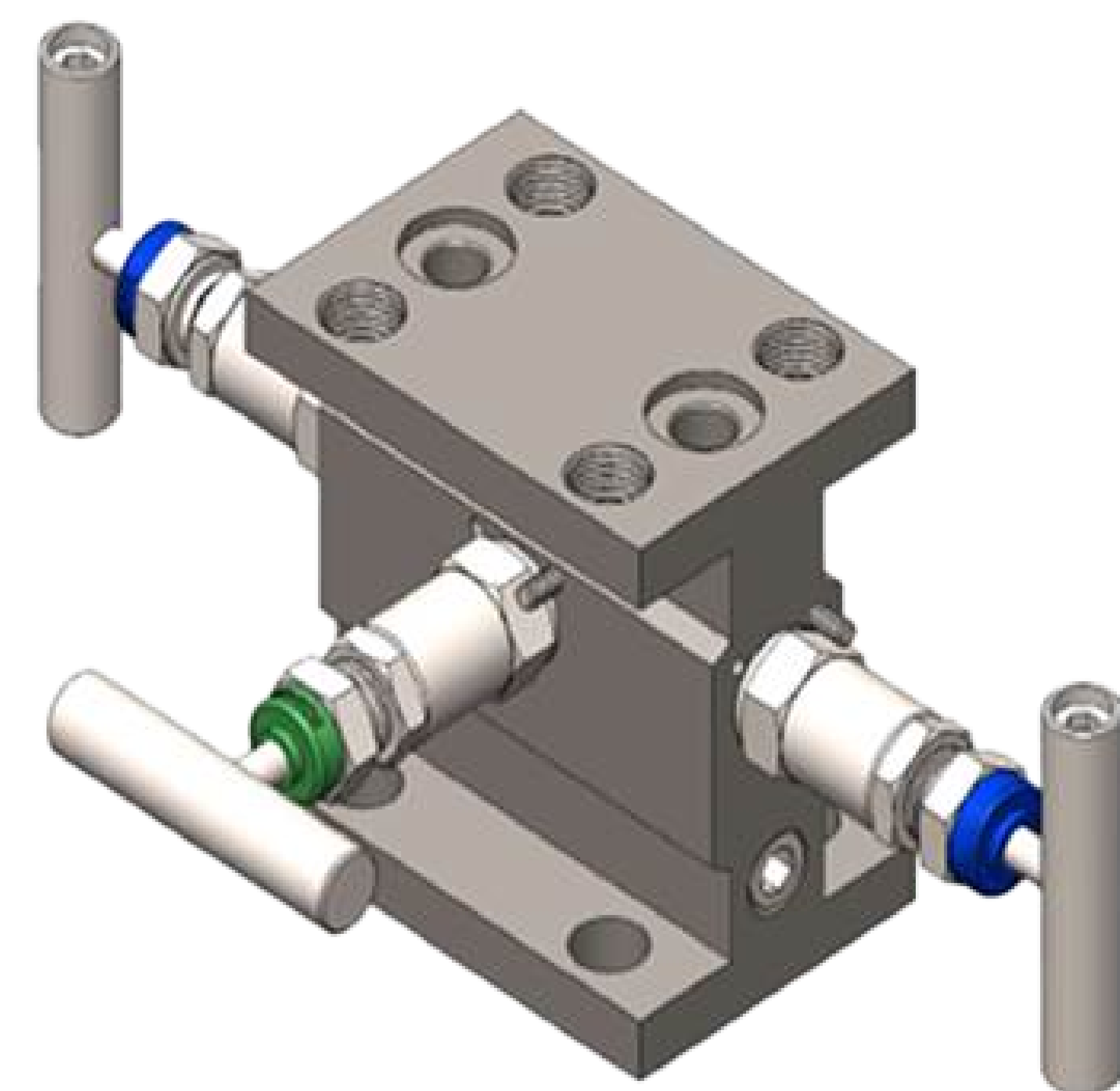


### Key Features:

- 3-valve design for versatile pressure management.
- 1/2" NPT-F, with a flange for secure attachment.
- 1/4" NPT-F for effective fluid handling.
- MAWP of 413 barg @ 38°C, hydro-testing pressures of 620 barg (shell) and 455 barg (seat).
- Pneumatic (N2) test pressure of 70 kg/cm<sup>2</sup>, compliant with MSS-SP-99.
- Screwed bonnet for durability and reliability in constrained spaces.

## TTS Manifolds - TTS-304T-32F11

The TTS-304T-32F11 is a 3-valve manifold designed for process instrumentation, featuring a pipe-to-flange configuration suitable for managing high-pressure applications.

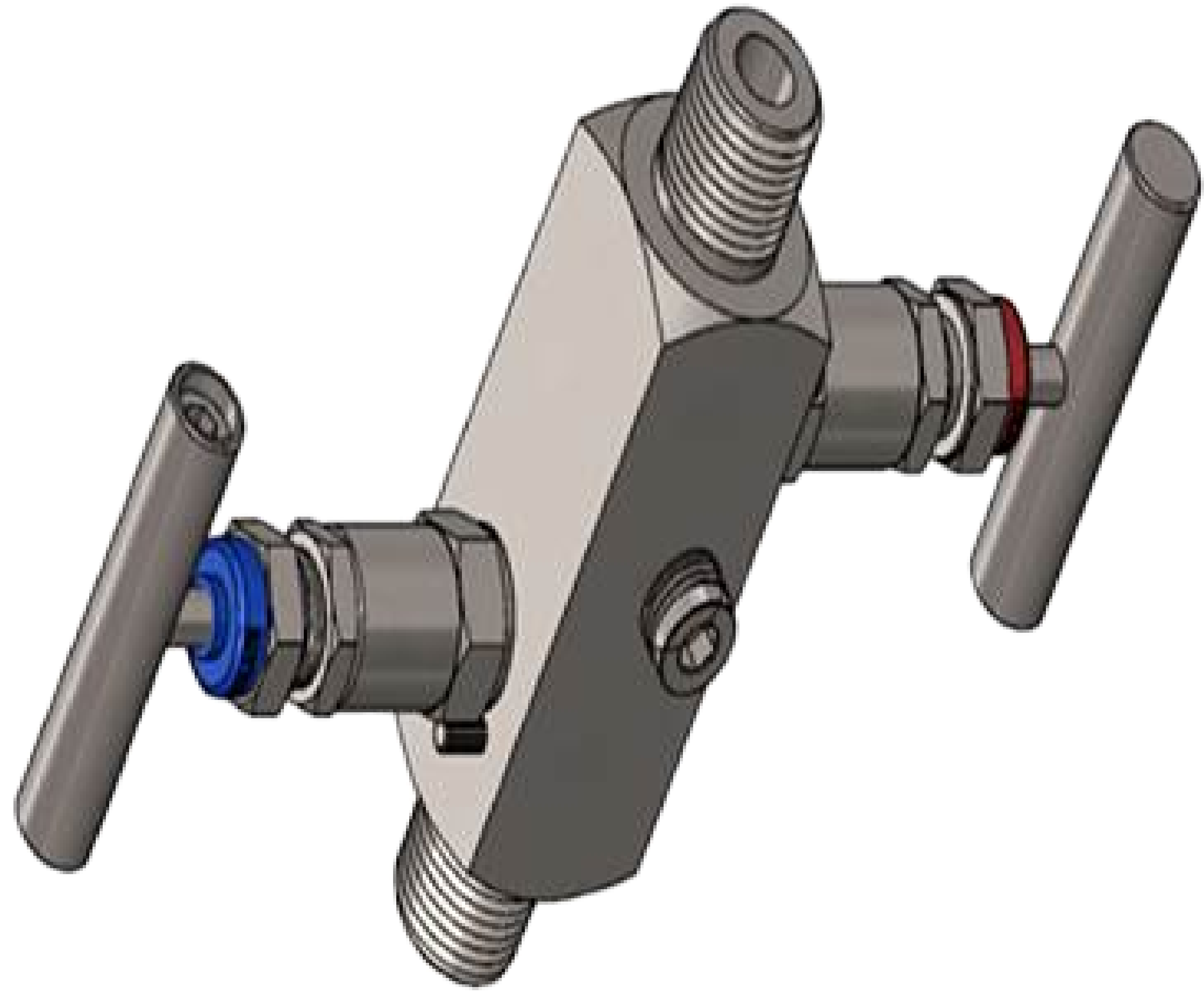


### Key Features:

- 3-valve manifold for comprehensive pressure control.
- Flange (FLG) for secure process integration.
- Flange (FLG) for easy instrument attachment.
- 1/4" NPT-F for efficient drainage.
- MAWP of 413 barg @ 38°C, with hydro-testing pressures of 620 barg (shell) and 455 barg (seat).
- Pneumatic (N2) test pressure of 70 kg/cm<sup>2</sup>, compliant with MSS-SP-99.
- Screwed bonnet for robust and reliable operation in confined spaces.

## TTS Manifolds - TTS-306T-22AA11

The TTS-306T-22AA11 is a 2-valve manifold designed for high-pressure process instrumentation, featuring a compact pipe-to-flange configuration.



## Key Features:

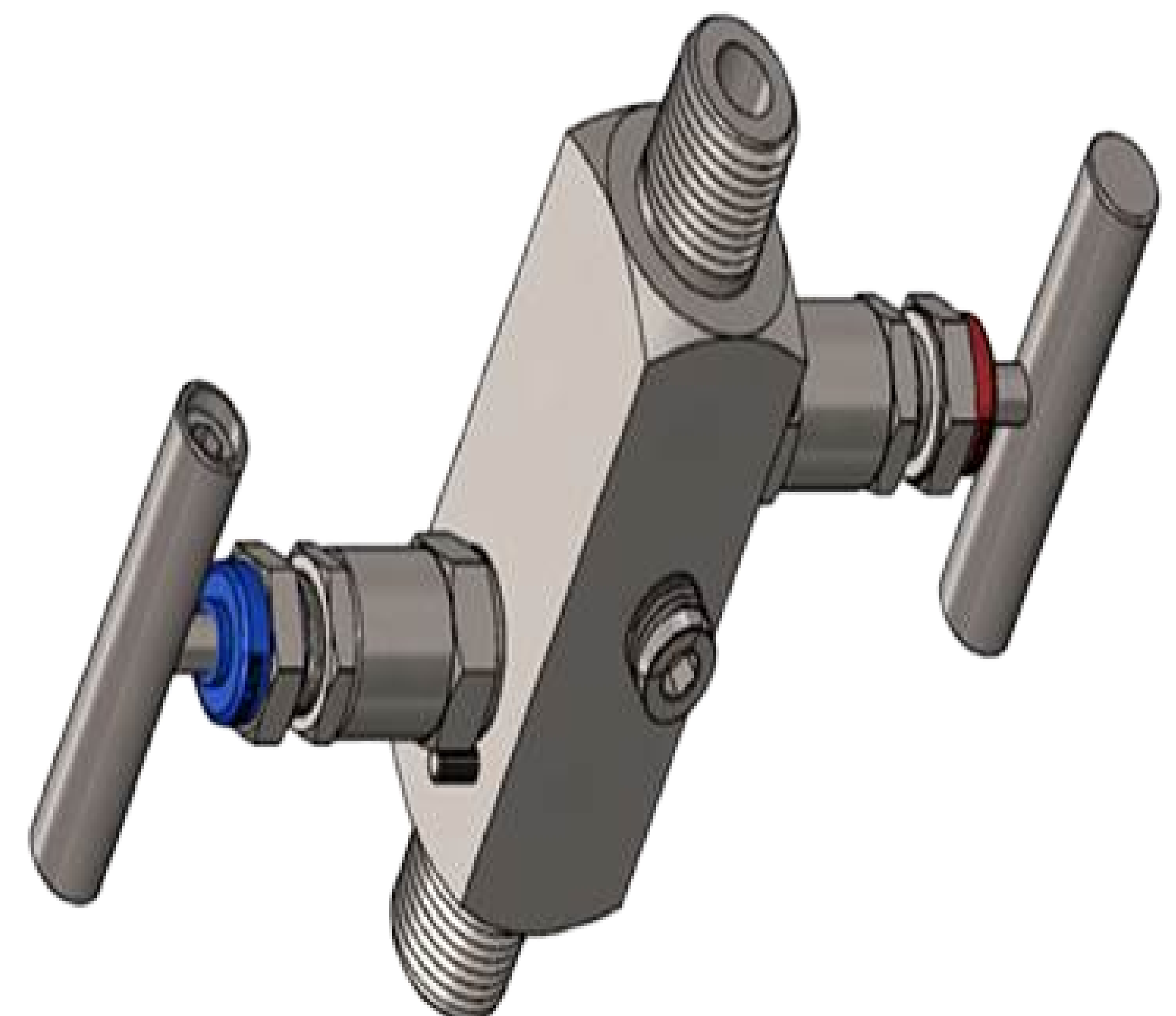
- Maximum working pressure of 413 bar / 6000 PSI at 100°C.
- Available in 316 SS, 316L SS, 304 SS, or Carbon Steel.
- PTFE or Graphite for reliable sealing.
- ½" NPT F for process and instrument connections; ¼" NPT F drain with a blind plug.
- 1.10 kg, ensuring a space-efficient design.
- MOC in accordance with NACE MR0175 and valves for 10000 PSI available upon request.
- Includes one isolation valve and one drain valve for calibration, reducing the number of joints and overall cost. Ideal for use with pressure gauges, switches, or transmitters.

## Key Features:

- Maximum working pressure of 413 bar / 6000 PSI at 100°C.
- Available in 316 SS, 316L SS, 304 SS, or Carbon Steel.
- Equipped with PTFE or Graphite for effective sealing.
- ½" NPT F for process and instrument connections; ¼" NPT F drain with a blind plug.
- 1.10 kg, designed for space efficiency.
- MOC in accordance with NACE MR0175 and valves for 10000 PSI available on request.
- Features one isolation valve and one drain valve for calibration, reducing the number of joints and overall cost. Suitable for use with pressure gauges, switches, or transmitters.

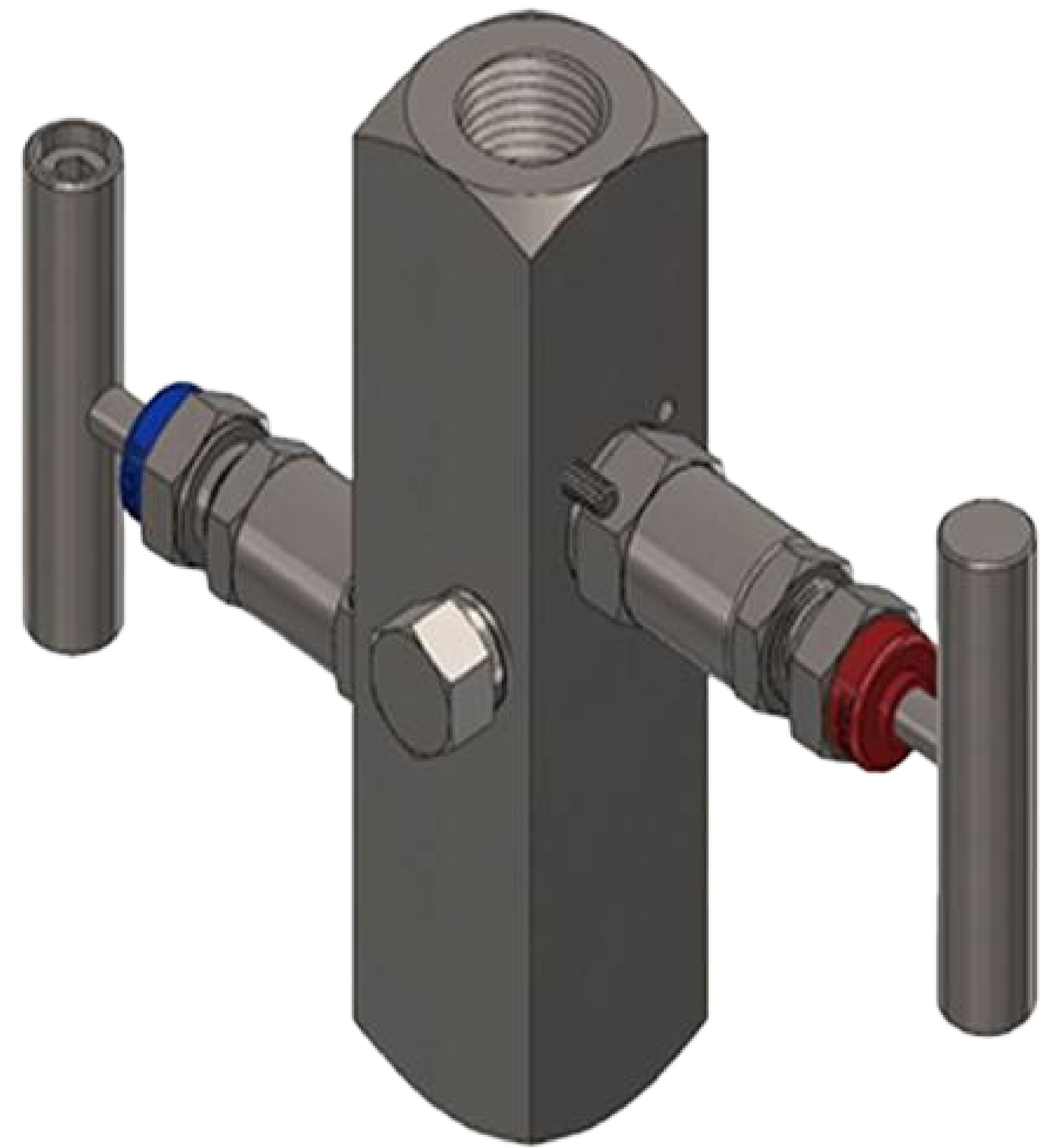
## TTS Manifolds - TTS-306T-22BA11

The TTS-306T-22BA11 is a 2-valve manifold designed for high-pressure applications, featuring a compact pipe-to-flange configuration.



## TTS Manifolds - TTS-306T-22BB11

The TTS-306T-22BB11 is a 2-valve manifold designed for high-pressure environments with a pipe-to-flange configuration, ideal for process instrumentation.



### Key Features:

- Maximum working pressure of 413 bar / 6000 PSI at 100°C.
- Available in 316 SS, 316L SS, 304 SS, or Carbon Steel.
- PTFE or Graphite for robust sealing.
- ½" NPT F for process and instrument connections; ¼" NPT F drain with a blind plug.
- 1.10 kg, providing a compact and efficient design.
- MOC per NACE MR0175 and valves for 10000 PSI available upon request.
- Includes one isolation valve and one drain valve for calibration, reducing the number of joints and overall costs. Suitable for use with pressure gauges, switches, or transmitters.

# Technical Support & Services

TTS offers comprehensive technical support, including calibration, troubleshooting, and repair services. Our experienced team provides guidance to help customers select the right equipment for their specific needs.



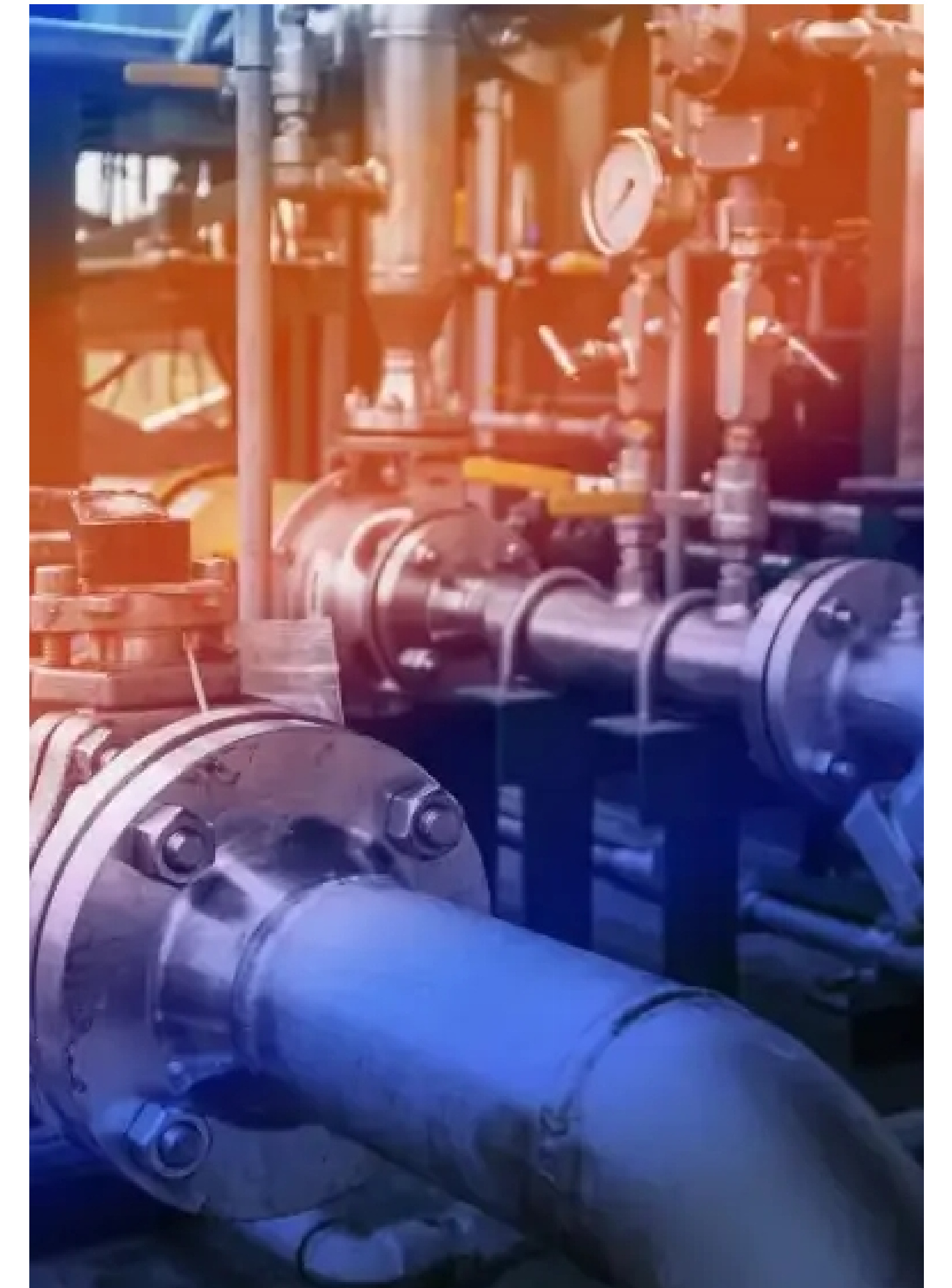
Reconditioned Service



Factory New Sales



New Surplus Sales



Remote Seals



Transmitter Calibration



Repair Service



Warranty

# Certifications & Compliance

All TTS products adhere to industry-standard certifications and regulatory compliance. This ensures that our instrumentation meets the stringent quality and safety standards required across industries.

## Customer Testimonials

“

The Transmitter Shop is our go-to partner for Industrial Transmitters. Their expertise and dedication to customer satisfaction make them stand out in the industry.

- Bill Johnson

“

I must say that working with Joe and Brian has been a pleasure. They are easily the best consultants I've collaborated with in the field of instrumentation over the past decade.

- Mark Toohy

“

Thank you for the excellent job and fast delivery. Your team's professionalism and quality of service are outstanding.

- Bill Russell

## Warranty & Returns

We stand behind our products with a two-year warranty on most items. Should you encounter any issues, our hassle-free return policy ensures your satisfaction and continued operational efficiency.

## Shipping & Turnaround


TTS takes pride in its quick turnaround. Most orders are processed and shipped within three days, ensuring that you receive your instrumentation when you need it. With global shipping capabilities, we serve clients worldwide.


# Contact



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