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• Sensing • Measuring • Controlling • Automation

Autocontrol Process Instrumentation (API) Originates from Autocontrol Technologies , a company established in 1994 in Italy, specialized in Autocontrol Sampling Systems for Crude Oil Custody Transfer, System Integration (AH, ALC, SCS, SRS), Heating, Ventilation & Air Conditioning units and Process Control Integration.

API in India is one of the leading manufacturers of High-quality Instrumentation products & a distinguished solution provider. AutoControl Process Instrumentation is a ISO-9001, 14001, 45001 certified Organisation. With its inception in 2015 in India, we are focussed on providing high end products & services in Sensing technologies, Measuring Instruments, Controlling Equipment's & Automation Systems.

Our product basket includes **Level gauges & Switches, Orifice plates, Rotameters, Venturi, Carrier Flange assemblies, Pressure, Temperature & Diaphragm sealed gauges, Differential Pressure Gauges, Valves & Manifolds, Temperature Element & Thermowells & other related Accessories.** We have **CE, ATEX & IECEx Certifications for our products.** Each of our products is engineered with the highest standards of precision and reliability, ensuring optimal performance and durability. Our commitment to quality and customer satisfaction has enabled us to establish a strong global presence.

At Autocontrol process Instrumentation, we are driven by a passion for innovation and dedication to meeting the unique challenges of our clients. We pride ourselves on our ability to deliver tailored solutions that address specific requirements and contribute to the success of our partners.

**Whatever you need, we can sense it...
measure it... control it and if necessary...
automate it.**



PRESSURE

PRESSURE GAUGE

M1.01 BOURDON TUBE PRESSURE GAUGE

Dial Size: 63 mm (2.1/2")/100 mm (4") / 150 mm (6") / 250 mm (10")
Version: Dry but fillable / Glycerin filled / Silicon oil filled
Range: Vacuum up to 2,100 bar / 30,000 psi
Accuracy: ±1.6% / ±1.0% of FSD
Wetted Parts: AISI 316L SS / Monel 400
Connection: 1/2" NPT (M) / 1/2" BSP (M)
Protection: IP68 with Safety Glass



M1.02 SOLID FRONT PRESSURE GAUGE

Dial Size: 100 mm (4") / 150 mm (6")
Version: Dry but fillable / Glycerin filled / Silicon oil filled
Range: Vacuum up to 2,100 bar / 30,000 psi
Accuracy: ±1.0% of FSD
Wetted Parts: AISI 316L SS / Monel 400
Connection: 1/2" NPT (M) / 1/2" BSP (M)
Protection: IP68 with Safety Glass



M1.03 PHENOL CASE PRESSURE GAUGE

Dial Size: 125 mm (4 1/2")
Version: Dry but fillable / Glycerin filled
Range: Vacuum up to 2,100 bar / 30,000 psi
Accuracy: ±1.0% of FSD
Wetted Parts: AISI 304 SS / AISI 316L SS / Monel 400
Case: Phenol Case
Connection: 1/2" NPT (M) / 1/2" BSP (M)
Protection: IP68 with Safety Glass



M1.04 CAPSULE PRESSURE GAUGE

Dial Size: 100 mm (4") / 150 mm (6")
Version: Dry
Range: -6000...250...6000 mmWC
Accuracy: ±1.6% of FSD
Wetted Parts: AISI 316L SS
Case: AISI 304 SS
Connection: 1/2" NPT (M) / 1/2" BSP (M)
Protection: IP68 with Safety Glass



M1.05 SCHAFER DIAPHRAGM GAUGE

Dial Size: 100 mm (4") / 150 mm (6")
Version: Dry but fillable / Glycerin filled (Range 2500 mmWC & above)
Range: -6000...250...6000 mmWC
Accuracy: ±1.6% of Full Scale Reading
Wetted Parts: AISI 316LSS / Monel 400 / Hast C-276
Connection: 1/2" NPT (M) / 1/2" BSP (M)
Protection: IP68 with Safety Glass



M1.06 COMMERCIAL PRESSURE GAUGE

Dial Size: 50 mm (2") / 63 mm (2.5")
Version: Dry / Glycerin filled / Silicon oil filled
Range: Vacuum up to 414 bar / 6,000 psi
Accuracy: ±1.6% of FSD
Wetted Parts: AISI 316L SS
Connection: 1/8" NPT (M) / 1/4" BSP (M)



DIFFERENTIAL PRESSURE GAUGE (DPG)

M2.01 SINGLE DIAPHRAGM DPG

Dial Size: 100 mm (4") / 150 mm (6")
Version: Dry but fillable / Glycerin filled / Silicon oil filled
Range: 0...6000 mmWC and up to 0...10 bar
Accuracy: ±1.6% of Full Scale Reading
Wetted Parts: AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276
Connection: 1/2" NPT (M) / 1/2" BSP (M) / M20 × 1.5 (M)
Protection: IP68 with Safety Glass



M2.02 DOUBLE DIAPHRAGM DPG

Dial Size: 100 mm (4") / 150 mm (6")
Version: Dry but fillable / Glycerin filled / Silicon Oil filled
Range: 0...6000 mmWC and up to 10 bar
Accuracy: ±1.6 of Full Scale Reading
Wetted Parts: AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276
Connection: 1/2" NPT (M) / 1/2" BSP (M) / M20 × 1.5 (M)
Protection: IP68 with Safety Glass



M2.03 DOUBLE BELLOWS DPG

Dial size: 150 mm (6")
Version: Dry
Range: 0...1 bar up to 0...10 bar
Accuracy: ±1.6% of Full Scale Reading, Optional ±1% of FSD
Wetted Parts: AISI 316 SS / AISI 316L SS
Connection: 1/2" NPT (M) / 1/2" BSP (M) / M20 × 1.5 (M)
Protection: IP68 with Safety Glass



M2.04 DOUBLE BOURDON DPG

Dial Size: 100 mm (4") / 150 mm (6")
Version: Dry but fillable / Glycerin filled / Silicon oil filled
Range: 0...1 bar up to 0...100 bar
Accuracy: ±1.0% of FSD
Wetted Parts: AISI 316 SS / AISI 316L SS / Monel 400
Connect n: 1/2" NPT (M) / 1/2" BSP (M) / M20 × 1.5 (M)
Protectidq: IP68 with Safety Glass



PRESSURE

PRESSURE SWITCH

C1.01 WEATHERPROOF SWITCH

Accuracy: ±1.0% of Full scale
Range: -20 mbar up to 600 mbar/0.1bar up to 40 bar
Wetted Parts: AISI 316 SS
Sensing Element: AISI 316LSS
Microswitch: 1 SPDT / 2 SPDT / 1 DPDT, 15A, 250 VAC / 2A, 24VDC
Enclosure & Protection: Die-cast Aluminum, IP 66
Connection: ¼" NPT (F), ¼" BSP (F), others through adaptors
Cable Gland: ½" NPT, ½" BSP, ¾" ET



C1.02 EXPLOSIONPROOF SWITCH

Accuracy: ±1.0% of Full scale
Range: -20 mbar up to 600 mbar/0.1bar up to 40 bar
Wetted Parts: AISI 316 SS
Sensing Element: AISI 316LSS
Microswitch: 1 SPDT / 2 SPDT / 1 DPDT, 15A, 250 VAC / 2A, 24VDC
Enclosure & Protection: Die-cast Aluminum, IP 66/ATEX Certified
Connection: ¼" NPT (F), ¼" BSP (F), others through adaptors
Cable Gland: ½" NPT, ½" BSP, ¾" ET



DIAPHRAGM SEAL



X6.01 DIRECT COUPLED THREADED SEAL

Range: Vacuum up to 400 bar
Diaphragm & Wetted Parts: AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276 / Tantalum / Titanium
Fill Fluids: Compatible to process fluid & parameters.
Connections: ½" NPT (M) / M20 × 1.5 (M)
Optional: Capillary & Armour up to 5 Mtr. PTFE Protection/Lining, Material in compliance with NACE MR0175, NACE MR0103, Helium Leak Test



X6.02 SLIP RING COUPLED THREADED SEAL

Range: Vacuum up to 70 bar
Diaphragm & Wetted Parts: AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276 / Tantalum / Titanium
Fill Fluids: Compatible to process fluid & parameters.
Connections: ½" NPT (M) / M20 × 1.5 (M)
Optional: Capillary & Armour up to 5 Mtr. PTFE Protection/Lining, Material in compliance with NACE MR0175, NACE MR0103, Helium Leak Test



X6.03 WELDED THREADED SEAL

Range: Vacuum up to 700 bar
Diaphragm & Wetted Parts: AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276 / Tantalum / Titanium
Fill Fluids: Compatible to process fluid & parameters.
Connections: ½" NPT (M) / M20 × 1.5 (M)
Optional: Capillary & Armour up to 5 Mtr. Material in compliance with NACE MR0175, NACE MR0103, Helium Leak Test



X6.04 FLUSHED THREADED SEAL

Range: 6 up to 600 bar
Diaphragm & Wetted Parts: AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276 / Tantalum / Titanium
Fill Fluids: Compatible to process fluid & parameters.
Connections: ¾" NPT (M) / 1" NPT (M) / 1½" NPT (M)
Optional: Material in compliance with NACE MR0175, NACE MR0103, Helium Leak Test



X6.05 FLUSHED FLANGE SEAL

Range: 4 up to 250 bar
Diaphragm & Wetted Parts: AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276 / Tantalum / Titanium
Fill Fluids: Compatible to process fluid & parameters.
Connections: Flange with size 1" & above
Optional: Capillary & Armour up to 5 Mtr., Material in compliance with NACE MR0175, NACE MR0103 Helium Leak Test, PTFE Coating & Gold Plating



X6.06 I-SECTION AND INSET TYPE FLANGED SEAL

Range: Vacuum up to 400 bar
Diaphragm & Wetted Parts: AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276 / Tantalum / Titanium
Fill Fluids: Compatible to process fluid & parameters.
Connections: Flange with size ½" & above
Optional: Capillary & Armour up to 5 Mtr., Material in compliance with NACE MR0175, NACE MR0103 Helium Leak Test, PTFE Protection/Lining & Gold Plating



DIAPHRAGM SEAL

X6.07 EXTENDED NECK FLANGED SEAL

Range: Vacuum up to 250 bar
Diaphragm & Wetted Part: AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276 / Tantalum / Titanium
Fill Fluids: Compatible to process fluid & parameters.
Connections: Flange with sizes 1½" & above
Optional: Capillary & Armour up to 5 Mtr. Material in compliance with NACE MR0175, NACE MR0103, Helium Leak Test



X6.08 HYGIENIC SEAL

Range: Vacuum up to 40 bar
Versions: Tri-Clover, DIN, SMS, RJT, APV & IDF, ISS
Diaphragm & Wetted Part: AISI 316L SS
Fill Fluids: Food Grade oil, Glycerine
Connections: 1" / 1½" / 2" / 2½" Tri-Clover



PRESSURE / ACCESSORIES

GAUGE ACCESSORIES

X5.01 GAUGE COCK

Version: 2 Way / 3 Way
Working Pres. / Temp.: 100 bar / 180°C
Material: AISI 304 SS / AISI 316 SS / AISI 316L SS
Connections: 1/4" / 3/8" / 1/2"
Threads: NPT / BSP
Optional: Material in compliance with NACE MR0175, NACE MR0103



X5.02 GAUGE SYPHON

Version: Coiled / Pigtail / "U" type
Working Pres. / Temp.: As per ANSI pipe chart
Material: AISI 304 SS / AISI 316 SS / AISI 316L SS
Pipe Sizes: 1/4" / 3/8" / 1/2"
Pipe Schedules: 40 / 80 / 160
Connections: 1/4" / 3/8" / 1/2"
Threads: NPT / BSP



X5.03 GAUGE SNUBBER

Working Pres. / Temp.: 400 bar / 180°C
Material: AISI 304 SS / AISI 316 SS / AISI 316L SS / Monel 400
Connections: 3/8" / 1/2"
Threads: NPT / BSP
Optional: Material in compliance with NACE MR0175, NACE MR0103



X5.04 GAUGE SAVER

Version: Bellows / Piston
Working Pres. / Temp.: 600 bar / 180°C
Material: AISI 316 SS / AISI 316L SS / Monel 400
Connections: 3/8" / 1/2"
Threads: NPT / BSP
Optional: Material in compliance with NACE MR0175, NACE MR0103



X5.05 COOLING TOWER

Version: Fin / Perforated / Capillary
Working Pres. / Temp.: Max. 600 kg/cm2 / -20°C to 120°C
Material: AISI 316 SS / AISI 316L SS
Connections: 1/4" / 3/8" / 1/2"
Threads: NPT / BSP



X5.07 FLUSHING RING

Versions: Flushing Ring
Material: AISI 316 SS / AISI 316L / Monel 400 / Hast C-276 / Titanium
Connection Type: Threaded / Welded
Connections: 1/2" / 3/4" NPT
Optional: Material in compliance with NACE MR0175, NACE MR0103



VALVE MANIFOLD

C6.01 TWO VALVE MANIFOLD

Types: Direct / Remote
Wetted Parts: AISI 316 SS / AISI 316L SS / Hast C-276 / Monel 400 / Inconel 625 / Duplex 2205 / Inconel 825
Stem Packing: PTFE / Graphite / Peek
Connection Sizes: 1/4" / 1/2"
Connection Types: NPT / BSP
Working Pres. (max): 6,000 psi, 10,000 psi
Working Temp. (max): 240°C
Optional: Material in compliance with NACE MR0175, NACE MR0103



C6.02 THREE VALVE MANIFOLD

Types: Direct / Remote
Wetted Parts: AISI 316 SS / AISI 316L SS / Hast C-276 / Monel 400 / Inconel 625 / Duplex 2205
Stem Packing: PTFE / Graphite / Peek
Connection Sizes: 1/4" / 1/2"
Connection Types: NPT / BSP
Working Pres. (max): 6,000 psi / 10,000 psi
Working Temp. (max): 240°C
Optional: Material in compliance with NACE MR0175, NACE MR0103



C6.03 FIVE VALVE MANIFOLD

Types: Direct / Remote
Wetted Parts: AISI 316 SS / AISI 316L SS / Hast C-276 / Monel 400 / Inconel 625 / Duplex 2205
Stem Packing: PTFE / Graphite / Peek
Connection Sizes: 1/4" / 1/2"
Connection Types: NPT / BSP
Working Pres. (max): 6,000 psi / 10,000 psi
Working Temp. (max): 240°C
Optional: Material in compliance with NACE MR0175, NACE MR0103



C6.04 SBB MONOFLANGE

Types: Direct
Wetted Parts: AISI 316 SS / AISI 316L SS / Hast C-276 / Monel 400 / Inconel 625 / Duplex 2205
Stem Packing: PTFE / Graphite / Peek
Instrument Connection: 1/2" / 1"
Connection Sizes: NPT / BSP
Connection Types: 1/2" up to 3" Flanged as per ANSI B16.5
Working Pres. (max): 6,000 psi / 10,000 psi
Working Temp. (max): 240°C
Optional: Material in compliance with NACE MR0175, NACE MR0103



MANIFOLD

C6.05 DBB MONOFLANGE

Types: Direct
Wetted Parts: AISI 304 SS / AISI 316 SS / AISI 316L SS / Hast C-276 / Monel 400 / Inconel 625 / Duplex 2205
Stem Packing: PTFE / Graphite / Peek
Instrument Connection: 1/2" / 1"
Connection Sizes: NPT / BSP
Connection Types: 1/2" up to 3" Flanged as per ANSI B16.5
Working Pres. (max): 6,000 psi / 10,000 psi
Working Temp. (max): 240°C
Optional: Material in compliance with NACE MR0175, NACE MR0103



C6.06 COPLANAR MANIFOLD

Type: Direct / Remote
Wetted Parts: AISI 316 SS / AISI 316L SS / Hast C-276 / Monel 400 / Inconel 625 / Duplex 2205
Stem Packing: PTFE / Graphite / Peek
Connection Size: 1/4" / 1/2"
Connection Type: NPT / BSP
Working Pressure (Max): 6,000 psi / 10,000 psi
Working Temp. (Max): 240°C
Optional: Material in compliance with NACE MR0175, NACE MR0103



C5.01 NEEDLE VALVE

Type: In-line / Angled
Wetted Parts: AISI 316 SS / AISI 316L SS / Hast C-276 / Monel 400 / Inconel 625 / Duplex 2205 / Inconel 825
Stem Packing: PTFE / Graphite
Connection Size: 1/4" / 1/2" / 3/4"
Connection Types: NPT / BSP
Working Pres. (max): 6,000 psi / 10,000 psi
Working Temp. (max): 240°C
Optional: Padlock Type



K1.06 CHEMICAL INJECTION QUILL

Type: Plugged / With Bleed Plug
Wetted Part: AISI 304 SS / AISI 316 SS / AISI 316L SS / Hast C-276 / Monel 400 / Inconel 625 / Duplex 2205 / Inconel 825
Stem Packing: PTFE / Graphite / Peek
Probe Length & Diameter: As Per Customer Requirement
Instrument Connection Size & Type: 1/2" NPT & 1" NPT (Threaded / Flanged)
Working Pressure (Max): 6,000 psi / 10,000 psi
Working Temp. (Max): 240°C / 464°F



VALVE & ACCESSORIES

C5.02 DOUBLE BLOCK & BLEED VALVE

Type: Plugged / With Bleed Plug
Wetted Parts: AISI 316 SS / AISI 316L SS / Hast C-276 / Monel 400 / Inconel 625 / Duplex 2205 / Inconel 825
Stem Packing: PTFE / Graphite
Connection Sizes: 1/2" / 1"
Connection Types: NPT / BSP / Flanged
Working Pres. (max): 6,000 psi / 10,000 psi
Working Temp. (max): 240°C
Optional: Padlock Type



C5.03 BALL VALVE

Type: Round / Square
Wetted Parts: AISI 316 SS / AISI 316L SS / Hast C-276 / Monel 400 / Inconel 625 / Duplex 2205 / Inconel 825
Stem Packing: PTFE / Graphite
Connection Sizes: 1/4" / 1/2"
Connection Types: NPT / BSP / Flange ANSI B16.5
Working Pres. (max): 6,000 psi / 10,000 psi
Working Temp. (max): 240°C
Optional: Padlock Type



TEMPERATURE GAUGE

M3.01 BIMETAL THERMOMETER

Dial Size: 100 mm (4") / 150 mm (6")
Range: -50°C up to 500°C
Accuracy: Class 1
Stem Size: 6 mm / 6.5 mm / 8 mm / 10 mm / 12 mm
Stem/Case & Ring: AISI 316 SS / AISI 304 SS
Stem Length: As per customer requirement
Connection: 1/2" NPT (M) / 1/2" BSP (M) / M20 x 1.5 (M)
Protection: IP68 with Safety Glass



M3.02 GAS FILLED THERMOMETER

Dial size: 100 mm (4") / 150 mm (6")
Range: -60°C up to 800°C
Accuracy: Class 1
Stem/Case & Ring: AISI 316 SS / AISI 304 SS
Stem Size: 6 mm / 6.5 mm / 8 mm / 10 mm / 12 mm
Stem Length: As per customer requirement
Connection: 1/2" NPT (M) / 1/2" BSP (M) / M20 x 1.5 (M)
Capillary Length: 1 to 1 Mtr.
Protection: IP68 with Safety Glass



ACCESSORIES

K1.05 AIR HEADER

Material: AISI 304 SS / AISI 316 SS / AISI 316L SS
Inlet Connection: 1/2" NPT, 1" NPT & 1/2", 2" Flanged
Outlet Connection: 1/4" NPT, 1/2" NPT with Ball & Needle Valve
Pipe Size: 1", 2", 3", 4"
Pipe Schedule: Sch 10, 40, 80, 160
Working Pressure (Max): 6,000 psi / 10,000 psi
Working Temp. (Max): 240°C / 464°F



C5.04 CONDENSATE POT

Type: 1 / 2 / 3 / 4 / 5 / 6
Wetted Part: ASTM A105 / SS 304 / SS 316 / SS 316L
Pipe Size: 2" / 3" / 4" / 6"
Pipe Schedule: Sch 40 / Sch 80 / Sch 160
Connection Sizes: 1/2"
Connection Types: NPT / BSP
Working Pres. (max): 1000 psi up to 3500 psi



TEMPERATURE

RTD

S1.01 INDUSTRIAL RTD

Sensor: Pt-100 / Pt-500 / Pt-1000
Version: Fixed / Adjustable / NUN
Accuracy: Class A / Class B
Sheath Material: AISI 316 SS
Sheath Size: \varnothing 3.0 mm / \varnothing 6.0 mm / \varnothing 8.0 mm
Enclosure: WP / FLP / Ex-proof / ATEX / Intrinsic Safe
Connection: 1/2" NPT (M) / 1/4" BSP (M) / 1/2" NPT (M) / 1/2" BSP (M)



S1.02 TRANSITION JOINT RTD SENSOR

Sensor: Pt-100 / Pt-500 / Pt-1000
Accuracy: Class A / Class B
Sheath Material: AISI 316 SS
Sheath Size: \varnothing 3.0 mm / \varnothing 6.0 mm / \varnothing 8.0 mm
Cable length: 3 Mtr.
Termination: PTFE / SS braided compensating cable
Connection: 1/2" NPT (M) / 1/2" BSP (M)



S1.03 RTD SENSOR WITH PLUG & JACK

Sensor: Pt-100 / Pt-500 / Pt-1000
Accuracy: Class A / Class B
Sheath Material: AISI 316 SS
Sheath Size: \varnothing 3.0 mm / \varnothing 6.0 mm / \varnothing 8.0 mm
Termination: Plug & Jack
Connection: 1/2" NPT (M) / 1/2" BSP (M)



S1.04 SPARE INSERT RTD

Sensor: Pt-100 / Pt-500 / Pt-1000
Accuracy: Class A / Class B
Sheath Material: AISI 316 SS
Sheath Size: \varnothing 3.0 mm / \varnothing 6.0 mm / \varnothing 8.0 mm
Termination: Spring loaded terminal block
Connection: 1/2" NPT (M) / 1/2" BSP (M)



S1.05 RTD FOR SKIN / SURFACE MEASUREMENT

Sensor: Pt-100 / Pt-500 / Pt-1000
Accuracy: Class A / Class B
Sheath Material: AISI 316 SS
Sheath Size: \varnothing 3.0 mm / \varnothing 6.0 mm / \varnothing 8.0 mm
Enclosure: WP / FLP / Ex-proof / ATEX / Intrinsic Safe
Connection: 1/2" NPT (M) / 1/2" BSP (M)
Weld Pad: Rectangular / Circular



S1.06 MULTIPOINT RTD WITH PROTECTION TUBE

Sensor: Pt-100 / Pt-500 / Pt-1000
Accuracy: Class A / Class B
Sheath Material: AISI 316 SS / AISI 310 SS
Sheath Size: \varnothing 3.0 mm / \varnothing 6.0 mm / \varnothing 8.0 mm
Enclosure: WP / FLP / Ex-proof / ATEX / Intrinsic Safe
Protection Tube: Pipe- 1/2" Sch 40/80 in AISI 316 SS / AISI 310 SS
Connection Type: Threaded / Flanged



THERMOCOUPLE

S2.01 INDUSTRIAL THERMOCOUPLE

Sensor: K / J / E / T / N / R / S / B
Accuracy: Class 1
Sheath Material: AISI 310 SS / AISI 316 SS / Inconel 600
Sheath Size: \varnothing 3.0 mm / \varnothing 6.0 mm / \varnothing 8.0 mm
Enclosure: WP / FLP / Ex-proof / ATEX / Intrinsic Safe
Connection: 1/2" NPT (M) / 1/2" BSP (M)
Head Extension: Fixed / Adjustable / NUN



S2.02 TRANSITION JOINT THERMOCOUPLE SENSOR

Sensor: K / J / E / T / N
Accuracy: Class 1
Sheath Material: AISI 310 SS / AISI 316 SS / Inconel 600
Sheath Size: \varnothing 3.0 mm / \varnothing 6.0 mm / \varnothing 8.0 mm / \varnothing 10 mm
Termination: PTFE / PTFE / SS braided compensating cable
Connection: 1/2" NPT (M) / 1/2" BSP (M)
Cable Length: 3 Mtr.



S2.03 THERMOCOUPLE SENSOR WITH PLUG & JACK

Sensor: K / J / E / T / N / R / S / B
Accuracy: Class 1
Sheath Material: AISI 310 SS / AISI 316 SS / Inconel 600
Sheath Size: \varnothing 3.0 mm / \varnothing 6.0 mm / \varnothing 8.0 mm / \varnothing 10 mm
Termination: Plug & Jack
Connection: 1/2" NPT (M) / 1/2" BSP (M)



S2.04 SPARE INSERT THERMOCOUPLE

Sensor: K / J / E / T / N / R / S / B
Accuracy: Class 1
Sheath Material: AISI 310 SS / AISI 316 SS / Inconel 600
Sheath Size: \varnothing 3.0 mm / \varnothing 6.0 mm / \varnothing 8.0 mm / \varnothing 10 mm
Termination: Spring loaded terminal block
Connection: 1/2" NPT (M) / 1/2" BSP (M)



TEMPERATURE

THERMOCOUPLE

S2.05 SKIN / SURFACE MEASUREMENT

Sensor: K / J / E / T / N
Accuracy: Class 1
Sheath Material: AISI 310 SS / AISI 316 SS / Inconel 600
Sheath Size: \varnothing 3.0 mm / \varnothing 6.0 mm / \varnothing 8.0 mm / \varnothing 10 mm
Enclosure: WP / FLP / Ex-proof / ATEX / Intrinsic Safe
Connection: 1/2" NPT (M) / 1/2" BSP (M)
Weld Pad: Rectangular / Circular



S2.06 MULTIPOINT THERMOCOUPLE WITH PROTECTION TUBE

Sensor: K / R / S / B / N
Accuracy: Class 1
Sheath Material: AISI 310 SS / Inconel 600
Protection Tube MOC: KER 610 / KER 710 / Inconel 625
Protection Tube: Single / Double
Enclosure: WP / FLP / Ex-proof / ATEX / Intrinsic Safe
Connection: Threaded / Flanged



TEMPERATURE SWITCH

C2.01 EXPLOSIONPROOF TEMPERATURE SWITCH

Switching Accuracy: \pm 1.0% of FSD
Repeatability: \pm 1.0% of FSD
Range: Up to 600°C
Microswitch: 1 SPDT / 2 SPDT / 1 DPDT, 15A / 250 VAC
Enclosure & Protection: Die-cast Aluminum, IP66, Ex-Proof
Connection: 1/2" NPT (M), 1/2" BSP (M)
Cable Entry: 1/2" NPT (F), 1/2" BSP (F), 3/4" ET
Capillary: Maximum length 10 Mtr in SS 304 / SS316, Armour optional
Stem size: 6 mm / 8 mm / 10 mm / 12 mm
Stem length: 100 mm up to 1000 mm



C2.02 WEATHERPROOF TEMPERATURE SWITCH

Switching Accuracy: \pm 1.0% of FSD
Repeatability: \pm 1.0% of FSD
Range: Up to 600°C
Microswitch: 1 SPDT / 2 SPDT / 1 DPDT, 15A / 250 VAC
Enclosure & Protection: Die-cast Aluminum, IP67
Connection: 1/2" NPT (M), 1/2" BSP (M)
Cable Entry: 1/2" NPT (F), 1/2" BSP (F), 3/4" ET
Capillary: Maximum length 10 Mtr in SS 304 / SS316, Armour optional
Stem size: 6 mm / 8 mm / 10 mm / 12 mm
Stem length: 100 mm up to 1000 mm



THERMOWELL

X7.01 BAR-STOCK THREADED THERMOWELL

Design & Calculations: As per ASME PTC 19.3
Version: Straight / Straight Reduced Tip / Partial Taper / Full Taper
Material: AISI 304 SS / AISI 310 SS / AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276 / Inconel 625
Instrument Connections: 1/2" NPT (F), 1/2" BSP (F), 3/4" NPT (F), 3/4" BSP (F)
Process Connections: 1/2" NPT (M), 1/2" BSP (M), 3/4" NPT (M), 3/4" BSP (M)
Bore Sizes: 7 mm / 9 mm / 11 mm
Insertion Length: As per customer requirement



X7.02 BAR-STOCK FLANGED THERMOWELL

Design & Calculations: As per ASME PTC 19.3
Version: Straight / Straight Reduced Tip / Partial Taper / Full Taper
Material: AISI 304 SS / AISI 310 SS / AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276 / Inconel 625
Instrument Connections: 1/2" NPT (F), 1/2" BSP (F), 3/4" NPT (F), 3/4" BSP (F)
Process Connections: 1/2" up to 3" sizes as per Flange ANSI B16.5
Bore Sizes: 7 mm / 9 mm / 11 mm
Insertion Length: As per customer requirement



X7.03 BAR-STOCK VANSTONE THERMOWELL

Design & Calculations: As per ASME PTC 19.3
Version: Straight / Straight Reduced Tip / Partial Taper / Full Taper
Material: AISI 304 SS / AISI 310 SS / AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276 / Inconel 625
Instrument Connections: 1/2" NPT (F), 1/2" BSP (F), 3/4" NPT (F), 3/4" BSP (F)
Process Connections: Flange RF
Size: 1" / 1 1/2" / 2"
Bore Sizes: 7 mm / 9 mm / 11 mm
Insertion Length: As per customer requirement



X7.04 BAR-STOCK SOCKET-WELD THERMOWELL

Design & Calculations: As per ASME PTC 19.3
Version: Straight / Straight Reduced Tip / Partial Taper / Full Taper
Material: AISI 304 SS / AISI 310 SS / AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276 / Inconel 625
Instrument Connections: 1/2" NPT (F), 1/2" BSP (F), 3/4" NPT (F), 3/4" BSP (F)
Process Connections: Socket-weld
Size: As per requirement
Bore Sizes: 7 mm / 9 mm / 11 mm
Insertion Length: As per customer requirement



X7.05 FABRICATED THERMOWELL

Design & Calculations: As per ASME PTC 19.3
Version: Straight / Partial Taper
Material: AISI 304 SS / AISI 310 SS / AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276 / Inconel 625
Instrument Connections: 1/2" NPT (F), 1/2" BSP (F), 3/4" NPT (F), 3/4" BSP (F)
Process Connection: Screwed / Flanged as per requirement
Bore Sizes: 7 mm / 9 mm / 11 mm
Insertion Length: As per customer requirement



X7.06 SCREW-WELL THERMOWELL

Design & Calculations: As per ASME PTC 19.3
Version: Straight
Material: AISI 304 SS / AISI 310 SS / AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276 / Inconel 625
Instrument Connections: 1/2" NPT (F), 1/2" BSP (F), 3/4" NPT (F), 3/4" BSP (F)
Process Connection: Screwed / Flanged as per requirement
Bore Sizes: 7 mm / 9 mm / 11 mm
Insertion Length: As per customer requirement



LEVEL GAUGE

M4.01 MAGNETIC LEVEL GAUGE

Mounting: Side-Side / Top / Side-Bottom
Specific Gravity: 0.6 and above
Working Press. / Temp.: 10...100 bar / -20...400°C
Wetted Part: AISI 316 SS / AISI 316L SS / Inconel 625 / Duplex SS 2205 / Polypropylene / Titanium / PVC
Float: AISI 316 SS / AISI 316L SS / Inconel 625 / Duplex SS 2205 / Polypropylene / Titanium / Hast C-276
Indication: Magnetic Flapper (Red / Yellow or Red / White)
Mounting: Threaded / Flanged
Center to Center Distance: 200 mm up to 5000 mm



M4.02 REFLEX LEVEL GAUGE

Mounting: Side-Side / Top-Bottom
Working Press. / Temp.: 10...100 bar / -20...400°C
Wetted Part: AISI 316 SS / AISI 316L SS / Inconel 625 / Duplex SS 2205 / ASTM A105
Indication: Gauge Glass
Mounting: Threaded / Flanged
Isolation: Auto shut-off ball check valve
Center to Center Distance: 300 mm up to 3000 mm



M4.03 TRANSPARENT LEVEL GAUGE

Mounting: Side-Side / Top-Bottom
Working Press. / Temp.: 10...100 bar / -260...400°C
Wetted Part: AISI 316 SS / AISI 316L SS / Inconel 625 / Duplex SS 2205 / A105
Indication: Gauge Glass
Mounting: Threaded / Flanged
Isolation: Auto shut-off ball check valve
Center to Center Distance: 300 mm up to 6000 mm
Optional: Illuminator with diffuser, Anti-frost protection



M4.04 TUBULAR LEVEL GAUGE

Mounting: Side-Side
Working Press. / Temp.: Max 10 bar / -20...100°C
Wetted Part: AISI 316 SS / AISI 316L SS / A105
Indication: Tube Glass
Mounting: Threaded / Flanged
Center to Center Distance: 300 mm up to 1500 mm
Optional: Auto shut-off ball check isolation valve



M4.05 FLOAT & BOARD GAUGE

Mounting: Side & Top Mounted
Working Press. / Temp.: 10 bar / 100°C
Wetted Part: AISI 304 SS / AISI 316 SS / Polypropylene
Indication: Red Steel Pointer
Scale Bracket: Powder Coated Steel
Mounting: Flange Center
Measuring Range: Up to 20000 mm



M4.06 FLOAT & TAPE GAUGE

Mounting: Side Mounted
Working Press. / Temp.: 10 bar / 400°C
Wetted Part: AISI 304 SS / AISI 316 SS / Monel 400 / Hast C-276
Indication: Dial Type
Mounting: Flanged
Measuring Range: Up to 20000 mm



LEVEL SWITCH

C3.01 SIDE MOUNTED LEVEL SWITCH

Specific Gravity: 0.75
Working Press. / Temp.: 10 bar / 150°C
Wetted Part: AISI 304 SS / AISI 316 SS / Polypropylene
Enclosure: Weatherproof / Die-cast Aluminum / IP67 / Ex-Proof
No. of Switches: 1 SPDT / 2 SPDT / 1 DPDT
Switch Type & Rating: Microswitch / 5A / 250 VAC
Connection: Flanged / Threaded
Insertion Length: 230 mm up to 400 mm



C3.02 TOP MOUNTED LEVEL SWITCH

Specific Gravity: 0.75
Working Press. / Temp.: 10 bar / 150°C
Wetted Part: AISI 304 SS / AISI 316 SS / Polypropylene
Enclosure: Weatherproof / Die-cast Aluminum / IP67 / Ex-Proof
No. of Switches: Up to 4 numbers, 1 SPST / 1 SPDT
Switch Type & Rating: Reedswitch / 0.5A / 24 VDC
Connection: Flanged / Threaded
Probe Length: 1000 mm



C3.03 CABLE FLOAT SWITCH

Specific Gravity: 0.8
Working Press. / Temp.: 6 bar / 60°C
Float Material: Polypropylene
No. of Switches: 1 SPDT
Switch Type & Rating: Microswitch / 5A / 230 VAC
Extension Cable: PVC
Cable Length: Upto 20 mtrs.



C3.04 DISPLACER LEVEL SWITCH

Version: Top & External caged Mounted
No. of Switches: 1 SPDT / 2 SPDT
Switch Type & Rating: Microswitch / 5A / 230 VAC
Probe Length: 1000 mm
Protection: IP65 / IP68



FLOW / ACCESSORIES

ORIFICE PLATE

S3.01 ORIFICE PLATE

Design & Calculation: ISA RP 3.2 / DN 1952 / BS1042 / ASME B16.36 / RW Miller
Nominal Bore: 1" (DN25).... 10" (DN250)
Material: AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276 / Inconel 625 / Inconel 825 / Duplex SS 2205
Gasket: SS Spiral Wound + Graphite
Tapping: Threaded / Flanged
Tapping Sizes: 1/2", 3/4"



S3.02 CARRIER FLANGE ASSEMBLY

Design & Bore Calculation: ISO 5167 / ASME B16.36
Nominal Bore: 1" (DN25).... 10" (DN250)
Material: AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276
Gasket: SS Spiral Wound + Graphite
Tapping Types: Flanged / Corner / Annular Chamber
Tapping: Threaded / Flanged
Tapping Sizes: 1/4", 3/4"



S3.03 MULTISTAGE RESTRICTION ORIFICE PLATE

Design & Calculation: ISA RP 3.2 / DN 1952 / BS1042 / ASME B16.36 / RW Miller
Nominal Bore: 1" (DN25)....10" (DN250)
Material: AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276 / PTFE PP / PVC / PTFE, Coated or Cladded with PP / HDPE



S3.04 VENTURI FLOW TUBE

Type: Machined, Fabricated, Eccentric, Rectangular, Jacket
Pipe Size & Schedule: 1" to 24"
Venturi Material: ASTM A105 / AISI 304 SS / AISI 316 SS / AISI 316L SS
No. of Tapping: Two / Four / Six
Divergent Angle: 7°C to 15°C
Tapping Type: Threaded, Butt Welded, Flanged
Tapping Connection: Threaded / Flanged
Flange Type: Welding Neck, Slip On, Socket Weld, Hub Connector



ACCESSORIES

S3.05 GROUNDING RING

Type: 1 / 2 / 3 / 4 / 5 / 6
Wetted Part: ASTM A105 / SS 304 / SS 316 / SS 316L
Pipe Size: 2" / 3" / 4" / 6"
Pipe Schedule: Sch 40 / Sch 80 / Sch 160
Connection Sizes: 1/2"
Connection Types: NPT / BSP
Working Pres. (max): 1000 psi up to 3500 psi



X5.06 EXTERNAL CHAMBER

Versions: Standard / Switch Chamber
Working Press. / Temp.: 10...100 bar / -40...400°C
Material: ASTM A105 / AISI 316 SS / AISI 316L SS / Monel 400 / Hast C-276 / Inconel 625 / Inconel 825 / Duplex SS 2205
Connection Type: Threaded / Flanged
Connections: NPT / BSP / ANSI B16.5
Optional: Material in compliance to NACE MR0175, NACE MR0103



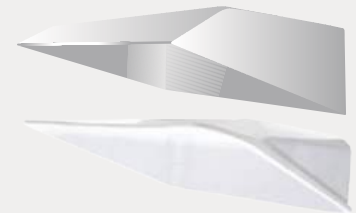
K1.01 SIGHT FLOW INDICATOR

Type: Double Window Plain (DWP), Double Window Rotary (DWR), Double Window Flapper (DWF), Double Window Drip Tube (DWB), Full View (FV)
Connection: Threaded / Flanged
Body Material: Carbon Steel / AISI 304 SS / AISI 304L SS / AISI 316 SS / AISI 316L SS
Fastener Material: ASTM A193 Gr. B7 / A 194 Gr.2H
Glass: Toughened Glass
Sealing Gasket: C.A.F / PTPE / Graphite



K1.02 SUNSHADE

Material: AISI 316 SS / GRP
Size: As per customer requirement
Version: Pipe / Direct Mount
(As per customer requirement)



K1.03 CALIBRATION POT

Mounting: Direct
Material: ASTM A105 / AISI 304 SS / AISI 316 SS / AISI 316L SS / PP / PVC
Capacity: 20 ml to 40,000 ml
Connection Size: 1/2" NPT, 1" NPT & 1/2" to 2" Flanged
Connection Type: Threaded / Flanged
Cylinder: Shielded Glass / Acrylic



K1.04 SAMPLING CYLINDER

Type: Plugged / With bleed plug
Body Part: AISI 304 SS / AISI 316 SS / AISI 316L SS / Hast C-276 / Monel 400 / Inconel 625 / Duplex 2205
Schedule: Sch 10, 40, 80, 160
Capacity: 250 ml to 5000 ml
Connection Size & Type: 1/2" NPT, 1" NPT, 1/4" NPT (Threaded)
Working Pressure (Max): 6,000 psi
Working Temp. (Max): 240°C / 464°F



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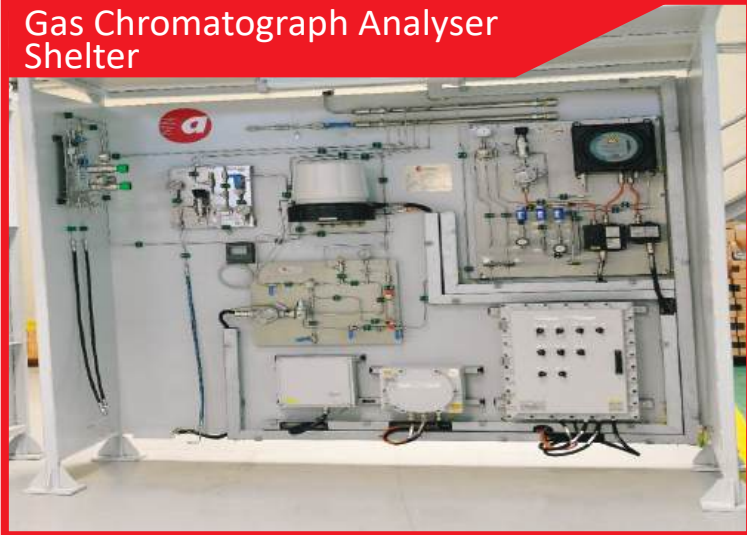
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Gas Chromatograph Analyser Shelter



Sampling Skid



Manual Sampling Panels



Analysers & Instruments Shelters hazardous area



Packaged HVAC For hazardous area application



Analyzer Panel



Tube in tube Cooler Sampling Panel



HIPPS Skid



Fuel gas skid



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