



مكيال
MEKYAL



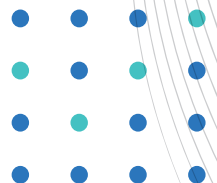


MEKYAL MUSCAT LLC

Mekyal Muscat LLC, manufactures and supplies of a wide range of Process Instrumentation products such as Pressure Gauges, Digital Pressure Gauges, Temperature Gauges, RTDs , Thermowells , Thermocouples. These high precision products are designed and manufactured in accordance to International Quality norms with a focus on sourcing the best raw materials and superior state of art technology.

Experienced technical experts following excellent teamwork monitor manufacturing quality, reliability, adherence to specifications, calibration, functionality and timely deliverables. Each stage including Procurement, Production, Calibration, Testing and Delivery undergo stringent Quality Assurance Procedures in accordance to Internationally accepted certifications.

We equipped to meet custom requirements of Clients. In times to come, Mekyal intends to expand range of products in accordance to business needs that so arise. Mekyal's products find applications across all segments in the industry.





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QUALITY OBJECTIVES

Production

100% of on time deliveries of Products,
100% of on time reliable Services
Zero defect

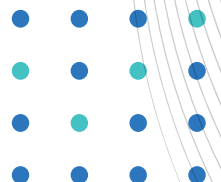
Management

100% analysis of Customer feedback / Suggestions.
Continual improvements by applying State of Art Technology and
Innovation

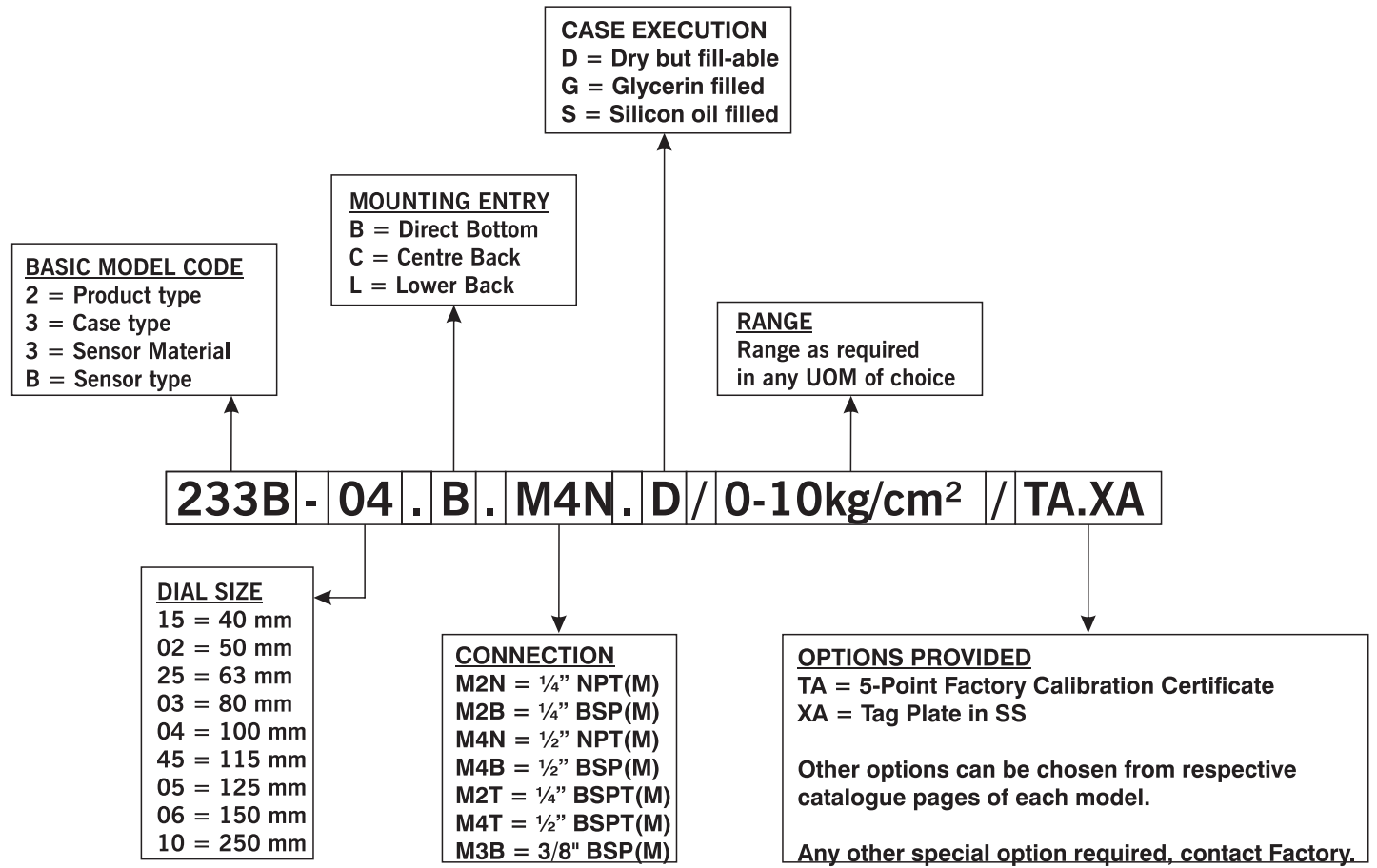
The Quality Policy governs our day-to-day operations to ensure quality and is communicated / understood / implemented throughout the organization.

Our Quality objectives are established at senior management level and included in the Quality Management System, which is reviewed on continuing basins through management review.

We will keep making continual improvement in our quality management system to increase its effectiveness through team work and regular training.



NOMENCLATURE



STANDARDS FOLLOWED

FOR PRESSURE GAUGES:

ANSI/ASME B 40.100 – 2005 : PRESSURE GAUGE & GAUGE ATTACHMENT

EN 837-1/1998 : BOURDON TUBE PRESSURE GAUGES - DIMENSIONS, METROLOGY, REQUIREMENTS AND TESTING

EN 837-2/1997 : SELECTION & INSTALLATION RECOMMENDATION FOR PRESSURE GAUGES

EN 837-3/1996 : DIAPHRAGM AND CAPSULE PRESSURE GAUGES - DIMENSIONS, METROLOGY, REQUIREMENTS AND TESTING

IS 3624/2004 : SPECIFICATION FOR PRESSURE AND VACUUM GAUGES

IS 11222/2005 : SPECIFICATION FOR DIAL, SCALES AND INDEXES FOR INDICATING ANALOGUE MEASURING INSTRUMENTS.

FOR TEMPERATURE GAUGES:

ANSI/ASME B 40.200 – 2001 : THERMOMETERS - DIRECT READING AND REMOTE READING

EN 13190/2001 : DIAL THERMOMETERS

IS 13211/ 2001 : VAPOUR PRESSURE DIAL-TYPE THERMOMETERS -SPECIFICATION

FOR DIAPHRAGM SEALS:

ANSI/ASME B 40.2 – 2005 : DIAPHRAGM SEALS

FOR THERMOWELLS:

ASME PTC 19.3 TW - 2016 : THERMOWELLS : PERFORMANCE TEST CODE

FOR RTD & THERMOCOUPLES:

BS EN 60751 – 2008 : INDUSTRIAL PLATINUM RESISTANCE THERMOMETER : THERMOMETER AND PLATINUM

UTILITY PRESSURE / DIFFERENTIAL PRESSURE GAUGES

131B Utility Pressure Gauge, Bourdon



Dial size	1½", 2", 2½", 4", 6"
Accuracy	±2.5% of full scale for 1½", 2" ±1.6% of full scale for 2½", 4", 6"
Wetted parts	Copper Alloy
Enclosure	SS 304, Crimped bezel, IP 65
Mounting	Bottom, Centre Back, Eccentric back
Mounting accessories	Back Flange, Front Flange, Panel mounting clamp
Standard options	Glycerin Filling, SS Tag Plate Restriction Screw, Refrigerant Scales Color band, Private Labelling

131C Utility Pressure Gauge, Capsule



Dial size	1½", 2", 2½", 4", 6"
Accuracy	±1.6% for 2½", 4", 6"
Wetted parts	Copper Alloy
Enclosure	SS 304, Bayonet bezel, IP 54
Mounting	Bottom, Centre Back, Eccentric back
Mounting accessories	Back Flange, Front Flange, Panel mounting clamp
Standard options	Glycerin filling, SS Tag Plate Restriction Screw

133B / 134B Process Pressure Gauge, Bourdon



Dial size	1½", 2", 2½", 4"
Accuracy	±2.5% for 1½", 2" ±1.6% for 2½", 4"
Wetted parts	SS 316L / MONEL*
Enclosure	SS 304, Crimped bezel, IP 65
Mounting	Bottom, Centre Back
Mounting accessories	Back Flange, Front Flange, Panel mounting clamp
Standard options	Glycerin Filling, Restriction Screw, Oxygen Service, Ammonia Scale, Color band, Private Labelling

332P / 333P Utility Differential Pressure Gauge, Piston



Dial size	2½", 4", 4½", 6"
Accuracy	±1.6% of full scale
Wetted parts	SS 316 / SS 316L
Enclosure	SS 304, Push-fit bezel, IP 67
Mounting	Bottom, Back, In-Line
Mounting accessories	Front flange, 2" Stanchion
Standard options	SS Tag Plate, Oxygen Service Maximum Reading Pointer Color band, Private Labelling

NOTE: Process connections can be 1/8", 1/4", 3/8", 1/2" in sizes with NPT, BSP, G, R, PT threads in Male or Female configuration.

PROCESS PRESSURE / DIFFERENTIAL PRESSURE GAUGES

233B / 234B

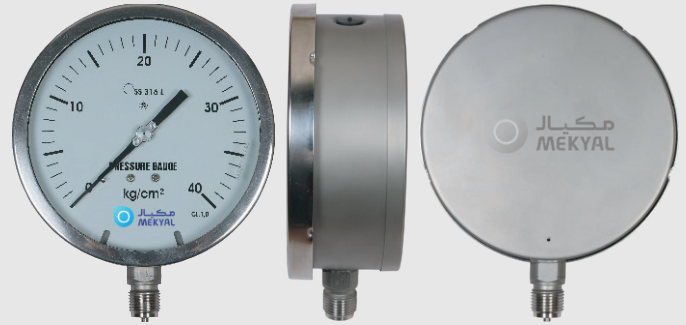
Process Pressure Gauge, Bourdon



Dial size	4", 6", 8", 10"
Accuracy	±1.0 of full scale
Wetted parts	SS 316L / MONEL / Hastelloy C
Enclosure	SS 304, Bayonet bezel, IP 68
Mounting	Bottom, Centre Back, Eccentric back
Mounting accessories	Back Flange, Front Flange, Panel mounting clamp, 2" Stanchion
Standard options	Glycerin Filling, SS Tag Plate Restriction Screw, Oxygen Service External Zero Adjustment Color bands, Private Labelling

253B / 254B

Solid Front Pressure Gauge, Bourdon



Dial size	4" & 6"
Accuracy	±1.0% of full scale / ±0.5% (optional)
Wetted parts	SS 316L / MONEL / Hastelloy C
Enclosure	SS 304, Bayonet bezel, IP 67
Mounting	Bottom
Mounting accessories	Back Flange, 2" Stanchion
Standard options	Glycerin Filling, Restriction Screw SS Tag Plate, External Zero Adjustment 150% Over Pressure Protection Color bands, Private Labelling

273B / 274B

Phenolic Case Pressure Gauge, Bourdon



Dial size	4½"
Accuracy	±0.5% of full scale / ±1.0% (optional)
Wetted parts	SS 316L / MONEL*
Enclosure	Polypropylene, Screwed bezel, IP 67
Mounting	Bottom, Eccentric Back
Mounting accessories	Back Flange
Standard options	Glycerin filling, SS Tag Plate Restriction Screw, Oxygen Service Phenolic Resin case & ring Color bands, Private Labelling

433W

Differential Pressure Gauge, Bellows



Dial size	6"
Accuracy	±1.0% of full scale
Wetted parts	SS 316L
Enclosure	SS 304, Bayonet bezel, IP 67
Mounting	Bottom
Mounting accessories	Back Flange, 2" Stanchion
Standard options	Glycerin Filling, SS Tag Plate, Max. Reading Pointer Electric contacts, Flow Measuring Scale Color band, Private Labelling

NOTE: Process connections can be 1/2", 1/4", 3/8", 1/2" in sizes with NPT, BSP, G, R, PT threads in Male or Female configuration.

TEMPERATURE GAUGES

533M Standard Temperature Gauge, Bimetal



Dial size	2 1/2", 4" & 6"
Accuracy	Class 1 / ±1.0% of full scale
Sensor details	SS 316 Ø6 / Ø8 / Ø9.5 / Ø10 / Ø12 65mm up to 750mm
Enclosure	SS 304, Bayonet bezel, IP 68
Mounting	Bottom, Centre Back
Mounting accessories	Front Flange,
Standard options	SS Tag Plate, Color bands, Private Labelling

553M Process Temperature Gauge, Bimetal



Dial size	3", 4", 4 1/2" & 6"
Accuracy	Class 1 / ±1.0% of full scale
Sensor details	SS 316 Ø6 / Ø8 / Ø9.5 / Ø10 / Ø12 65mm up to 750mm
Enclosure	SS 304, Bayonet bezel, IP 67
Mounting	Every Angle
Standard options	SS Tag Plate, Restriction Screw External Zero Adjustment Glycerine / Silicon Oil Filled Color bands, Private labelling

533G Temperature Gauge, Gas-filled



Dial size	4" & 6"	Standard options	Glycerin filling, SS Tag Plate Electric contacts, Max. Reading Pointer External Zero Adjustment Color bands, Private Labelling
Accuracy	±1.6% of full scale		
Sensor details	SS 316 Ø6 / Ø8 / Ø9.5 / Ø10 / Ø12 65mm up to 750mm		
Remote mounting details	SS 316L 1000 mm up to 10000mm		
Armour	SS 304, SS 316, PVC coated		
Enclosure	SS 304, Bayonet bezel, IP 65		
Mounting	Back Flange, Front Flange, Panel mounting clamp, 2" Stanchion		

NOTE: Process connections can be 1/4", 1/2" in sizes with NPT, BSP, G, R, PT threads in Male or Female configuration.

PRESSURE / DIFFERENTIAL PRESSURE GAUGES

232C Process Pressure Gauge, Capsule



Dial size	2½", 4" & 6"
Accuracy	±1.6 of full scale
Wetted parts	SS 316 capsule + SS 316L socket
Enclosure	SS 304, Bayonet bezel, IP 68
Mounting	Bottom, Centre Back, Eccentric back
Mounting accessories	Back Flange, Front Flange, Panel mounting clamp, 2" Stanchion
Standard options	SS Tag Plate, Restriction Screw Internal Zero Adjustment Color bands, Private Labelling

233D / 234D / 235D Process Pressure Gauge, Diaphragm



Dial size	4" & 6"
Accuracy	±1.0% of full scale / ±0.5% (optional)
Wetted parts	SS 316L / MONEL / Hastelloy C
Enclosure	SS 304, Bayonet bezel, IP 67
Mounting	Bottom
Mounting accessories	Back Flange, 2" Stanchion
Standard options	SS Tag Plate, Restriction Screw 150% Over Pressure Protection Color bands, Private labelling

432D Differential Pressure Gauge, Single Diaphragm



Dial size	4" & 6"
Accuracy	±2.5% of full scale
Wetted parts	SS 316 / SS 316L
Enclosure	SS 304, Bayonet bezel, IP 65
Mounting	Bottom, Back
Mounting accessories	Back Flange, Front Flange 2" Stanchion
Standard options	Glycerin Filling, SS Tag Plate, Max. Reading Pointer Electric contacts, Flow Measuring Scale Color band, Private Labelling

433D / 434D / 435D Differential Pressure Gauge, Double Diaphragm



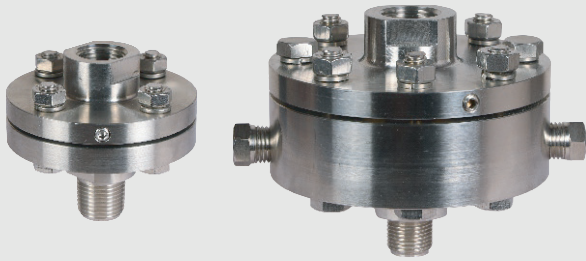
Dial size	4" & 6"
Accuracy	±1.6% of full scale
Wetted parts	SS 316L / MONEL / Hastelloy C
Enclosure	SS 304, Bayonet bezel, IP 65
Mounting	Bottom, Center Back
Mounting accessories	Back Flange, Front Flange 2" Stanchion
Standard options	Glycerin Filling, SS Tag Plate, Max. Reading Pointer Electric contacts, Flow Measuring Scale Color band, Private Labelling

NOTE: Process connections can be 1/2", 1/4", 3/8", 1/2" in sizes with NPT, BSP, G, R, PT threads in Male or Female configuration.

CHEMICAL SEAL DIAPHRAGMS

611T / 621T / 631T

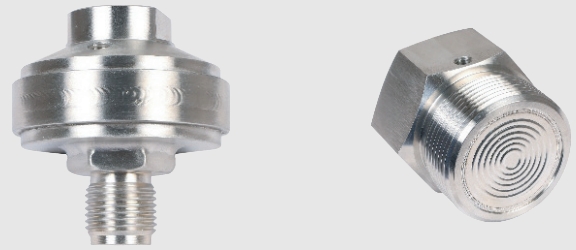
Chemical seal diaphragms, Bolted



Diaphragm	SS 316L, Hastelloy C, Inconel, Monel Tantalum, Titanium, Super Duplex
Bottom Chamber	SS 316L, Hastelloy C, Inconel, Monel Titanium, PVC, Polypropylene
Top Chamber	SS 304, SS 316
Process Connection	1/2" NPT(M) / 1/2" BSP(M) / M20 x 1.5P " NPT(M) / 1/2" NPT (F) / 3/4" NPT (M)
Filling Liquid	Silicon oils, Syltherm, Halo-carbon Food grade, Fluorolube, etc.
Standard options	Material Test Certificate Wetted parts tested to NACE standards

641T / 652T

Chemical seal diaphragms, Welded



Diaphragm	SS 316L, Hastelloy C, Inconel, Monel Tantalum, Titanium, Super Duplex
Other wetted parts	SS 316L, Hastelloy C, Inconel Monel, Titanium
Non-wetted parts	SS 304, SS 316
Process Connection	1/2" NPT(M) / 1/2" BSP(M) / M20 x 1.5P " NPT(M) / 1/2" NPT (F)
Filling Liquid	Silicon oils, Syltherm, Halo-carbon Food grade, Fluorolube, etc.
Standard options	Material Test Certificate Wetted parts tested to NACE standards

641F / 661F

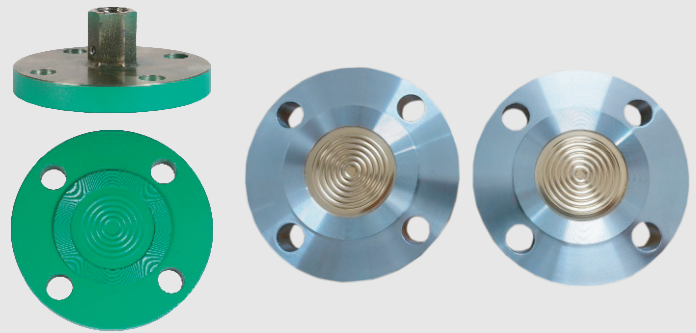
Chemical seal diaphragms, Flanged



Diaphragm	SS 316L, Hastelloy C, Inconel, Monel Tantalum, Titanium, Super Duplex
Bottom Chamber	SS 316L, Hastelloy C, Inconel, Monel Titanium, PVC, Polypropylene
Process Connection	ANSI / API / ISO / EN flanged with Flat / Serrated / RTJ facing
Filling Liquid	Silicon oils, Syltherm, Halo-carbon Food grade, Fluorolube, etc.
Standard options	Material Test Certificate Wetted parts tested to NACE standards PFA lining / coating Gold / Silver plating on diaphragm & RF

642F / 672F

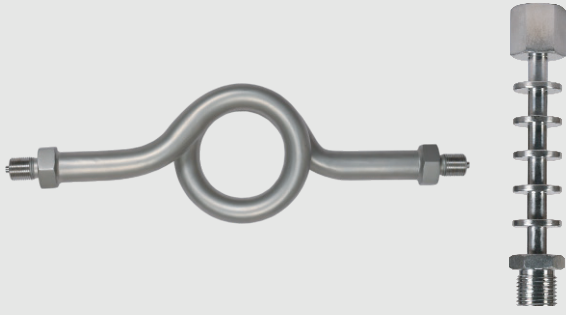
Chemical seal diaphragms, Flanged



Diaphragm	SS 316L, Hastelloy C, Inconel, Monel Tantalum, Titanium, Super Duplex
Bottom Chamber	SS 316L, Hastelloy C, Inconel, Monel Titanium, PVC, Polypropylene
Process Connection	ANSI / API / ISO / EN flanged with Flat / Serrated / RTJ facing
Filling Liquid	Silicon oils, Syltherm, Halo-carbon Food grade, Fluorolube, etc.
Standard options	Material Test Certificate Wetted parts tested to NACE standards PFA coating Gold / Silver plating on diaphragm & RF

NOTE: For other customization, please contact factory.

9111 / 9115 Siphon / Cooling Element



Material of Construction	SS 304, SS 316, SS 316L
Type of Construction	Coil / Trumpet / U - type for siphon Fin type with various length
Connections	1/4", 1/2", 3/4" with Male / Female in NPT / BSP / G / R / PT threads ANSI / API / ISO / EN flanged with Flat / Serrated / RTJ facing
Max Working Temp. / Pressure	250°C / 400 bar Consult factory for compatibility
Standard options	Material Test Certificate Wetted parts tested to NACE standards

9113 Pulsation Dampener



Material of Construction	SS 304, SS 316, SS 316L, Monel Hastelloy C, Inconel
Connections	1/4", 1/2", 3/4" with Male / Female in NPT / BSP / G / R / PT threads
Max Working Temp. / Pressure	250°C / 400 bar Consult factory for compatibility
Standard options	Material Test Certificate Wetted parts tested to NACE standards

9114 Overload Protector



Material of Construction	SS 304, SS 316, SS 316L, Monel Hastelloy C, Inconel
Connections	1/4", 1/2", 3/4" with Male / Female in NPT / BSP / G / R / PT threads
Max Working Temp. / Pressure	250°C / 400 bar Consult factory for compatibility
Standard options	Material Test Certificate Wetted parts tested to NACE standards

9216 Flushing Ring



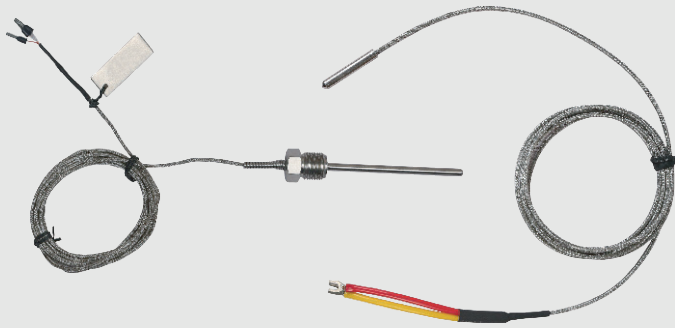
Material of Construction	SS 304, SS 316, SS 316L, Monel Hastelloy C, Inconel
Connections	ANSI / API / ISO / EN flanged with Flat / Serrated / RTJ facing
Max Working Temp. / Pressure	250°C / 400 bar Consult factory for compatibility
Flushing Ports (Plugged)	Single / Double 1/4" NPT (F) / 1/2" NPT (F)
Standard options	Material Test Certificate Wetted parts tested to NACE standards

NOTE: For other customization, please contact factory.

RTD / THERMOCOUPLE & THERMOWELLS

711R / 711E

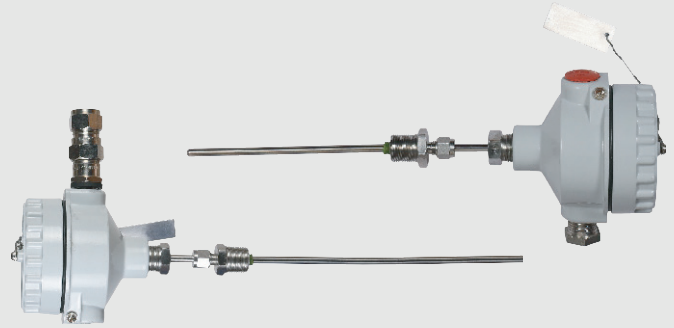
RTD / Thermocouple, Transition joint



Element type	RTD:- Pt-100, Pt-500, Pt-1000 Thermocouple: K, J, N, E, T Noble Thermocouple: R, S, B
Accuracy	RTD:- Class A [IEC 751] Thermocouple: Class 2 [ANSI MC 96.1]
Sensor details	SS 316 Ø6 / Ø8 / Ø9.5 / Ø10 / Ø12 25mm up to 25000mm
Termination	Extension & Compensating cables PTFE/PTFE or PTFE/PTFE/SS braided Others on request
Standard options	Head mount transmitter [4 - 20mA] Cable glands & Blind plugs

722R / 732R / 742R / 722E / 732E / 742E

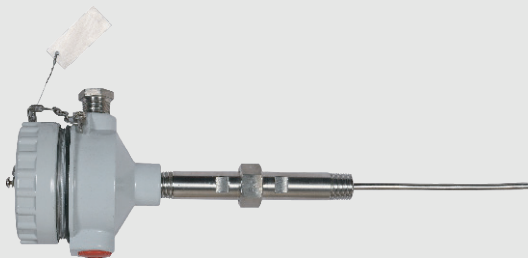
RTD / Thermocouple, With Enclosure



Element type	RTD:- Pt-100, Pt-500, Pt-1000 Thermocouple: K, J, N, E, T Noble Thermocouple: R, S, B
Accuracy	RTD:- Class A [IEC 751] Thermocouple: Class 2 [ANSI MC 96.1]
Sensor details	SS 316 Ø6 / Ø8 / Ø9.5 / Ø10 / Ø12 25mm up to 25000mm
Termination	Weatherproof / Flameproof Enclosure Ex-proof / ATEX approved Enclosure Others on request
Standard options	Head mount transmitter [4 - 20mA] Cable glands & Blind plugs

752R / 762R / 752E / 762E

RTD / Thermocouple, Nipple / NUN extension



Element type	RTD:- Pt-100, Pt-500, Pt-1000 Thermocouple: K, J, N, E, T Noble Thermocouple: R, S, B
Accuracy	RTD:- Class A [IEC 751] Thermocouple: Class 2 [ANSI MC 96.1]
Sensor details	SS 316 Ø6 / Ø8 / Ø9.5 / Ø10 / Ø12 25mm up to 25000mm
Termination	Extension & Compensating cables PTFE/PTFE or PTFE/PTFE/SS braided Others on request
Standard options	Head mount transmitter [4 - 20mA] Cable glands & Blind plugs

8XXT / 8XXF / 8XXS / 8XXV / 8XXK

Thermowells



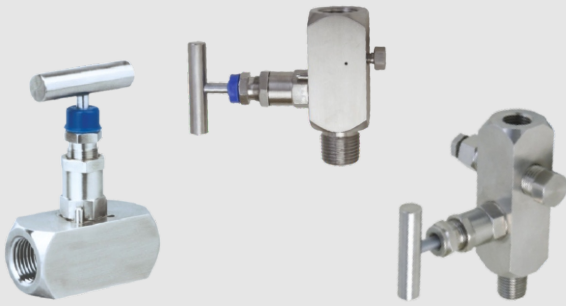
Type	Threaded / Flanged / Sanitary Van-stone / Strakes
Material	SS 304, SS 316, SS 316L, Monel Hastelloy C, Inconel, Super Duplex Titanium
Shank forms	Straight / Tapered Reduced Tip / Partial Taper
Shank type	Bar-stock / Pipe-fabricated
Standard options	Material Test Certificate Wetted parts tested to NACE standards PFA lining / coating, Tantalum sleeves Stellite / Tungsten carbide coating

NOTE: Process connections can be 1/2", 3/4", 1", 1 1/2" in sizes with NPT, BSP, G, R, PT threads in Male or Female configuration.

NEEDLE VALVES & MANIFOLDS

9319 / 9320 / 9321

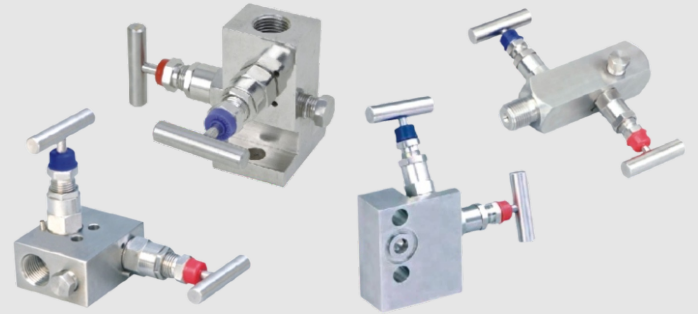
Needle Valves - Isolation, Block & Bleed, Multi-port



Wetted Parts	SS 304, SS 316, SS 316L, Hastelloy C Monel, Alloy 20, SDSS 2205
Non-wetted parts	SS 304
Connections	NPT, BSP, BSPT, METRIC, G, R
Connection sizes	¼", ½"
Seals / Packing	PTFE / PEEK / Grafoil
Rating	6000 psi / 3000 psi with 240°C / 420°C
Standard options	Hydrotest Certificate (Seat & Shell Test) Material Test Certificate Wetted parts tested to NACE standards

9422

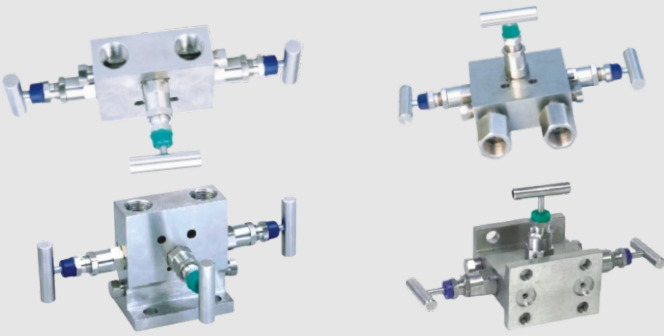
Two Valve Manifolds - Direct & Remote



Wetted Parts	SS 304, SS 316, SS 316L, Hastelloy C Monel, Alloy 20, SDSS 2205
Non-wetted parts	SS 304
Connections	NPT, BSP, BSPT, METRIC, G, R
Connection sizes	¼", ½"
Seals / Packing	PTFE / PEEK / Grafoil
Rating	6000 psi / 3000 psi with 240°C / 420°C
Standard options	Hydrotest Certificate (Seat & Shell Test) Material Test Certificate Wetted parts tested to NACE standards

9433

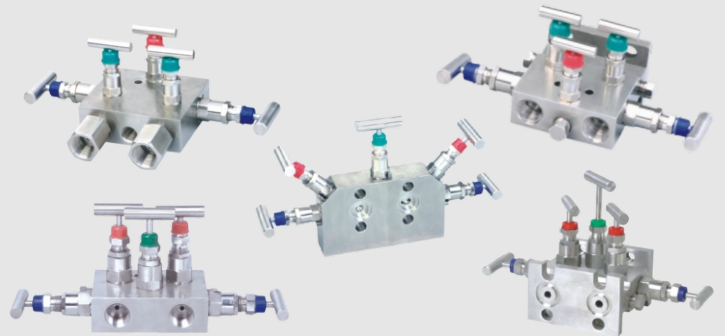
Three Way Manifolds - Remote, T & H



Wetted Parts	SS 304, SS 316, SS 316L, Hastelloy C Monel, Alloy 20, SDSS 2205
Non-wetted parts	SS 304
Connections	NPT, BSP, BSPT, METRIC, G, R
Connection sizes	¼", ½", DIN19213 B1/B3
Seals / Packing	PTFE / PEEK / Grafoil
Rating	6000 psi / 3000 psi with 240°C / 420°C
Standard options	Hydrotest Certificate (Seat & Shell Test) Material Test Certificate Wetted parts tested to NACE standards

9455

Five Way Manifolds - Remote, T & H, Coplanar



Wetted Parts	SS 304, SS 316, SS 316L, Hastelloy C Monel, Alloy 20, SDSS 2205
Non-wetted parts	SS 304
Connections	NPT, BSP, BSPT, METRIC, G, R
Connection sizes	¼", ½", DIN19213 B1/B3
Seals / Packing	PTFE / PEEK / Grafoil
Rating	6000 psi / 3000 psi with 240°C / 420°C
Standard options	Hydrotest Certificate (Seat & Shell Test) Material Test Certificate Wetted parts tested to NACE standards

NOTE: For other customization, please contact factory.



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