



Advanced Measuring Industrial Instruments Company

*Setting the standards of quality in precision
instrumentation through a solid tradition
of product and service excellence*



www.ami-sa.com

» About Us

Advanced Industrial Measuring Instruments (AMI) is a 100% Saudi-owned Company that was established in the year 1994 as a trading and service company for industrial instruments, and it is a subsidiary of **Al-Mutawa Holding** that was established in the year 1948. Ever since its inception, **AMI** has set a quality standard serving the biggest oil company in the world Saudi Aramco, and successfully achieved a remarkable standing and a high level of consumer satisfaction.

In 2001, **AMI** moved to Jubail Industrial City, one of the leading Petrochemical complexes in the world, with an aim of starting its second phase plan as a first Saudi-Owned Company for the production of pressure and temperature gauges on a land size of 2, 500 sq. m.

In order to uphold its quality standard and continue on the path of development, **AMI** has implemented QMS and become an ISO-Certified manufacturer. This could not have been accomplished without an expert and dedicated team that has been chosen very painstakingly to work and grow together.

AMI is now very well-known for its quality pressure and temperature gauges throughout the Kingdom of Saudi Arabia, and it endeavors to continue its level best to expand its products portfolio and geographical presence to meet the customers' requirements and expectations through a philosophy of building a long-term partnership that consists of **AMI**, Employees, Suppliers and Customers.



Vision and Mission

Vision

Aim to be one of the highly recognized companies with profitable business in Saudi Arabia for manufacturing and supplying Industrial Instruments.

Mission

Committed to provide quality products and Unique service to meet our valuable customers' requirement and satisfaction. We strive to achieve this through effective executive plans that are set by the professional inspiring management and implemented by the dedicated competent team.

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Products

Pressure Gauges



Special Features

- Economical version
- General purpose application
- Accuracy $\pm 1.6\%$ (for NS 63, 80, 100, 150 & 250mm)
- Accuracy $\pm 2.5\%$ (for NS 40 & 50mm)

Applications

F. R. L. Units, Water, Air, Hydraulic, Pneumatics, Valve positioner, Sugar mills and Allied process industries.

Standard version

Nominal size: 40, 50, 63, 80, 100, 150 and 250 mm



Utility Pressure Gauge *Bourdon Type*

P-01

P-02

Utility Pressure Gauge *ABS Case Bourdon Type*



Special Features

- Economical version
- General purpose application
- Accuracy $\pm 1.6\%$ (for NS 63, 80, 100, 150 & 250mm)
- Accuracy $\pm 2.5\%$ (for NS 40 & 50mm)

Applications

F. R. L. Units, Water, Air, Hydraulic, Pneumatics, Valve Positioner, Sugar Mills and Allied Process Industries.

Standard version

Nominal size: 40, 50, 63, 80, 100, 150 and 250 mm



» Pressure Gauges



Special Features

- Aluminium case with SS measuring system
- Wetted parts AISI 316L stainless steel
- Accuracy $\pm 0.5\%$ F.S.
- Solid front design features baffle wall interposed between the sensing system, the window and a pressure relieving back for increased safety standard followed ANSI/ASME- B 40.1

Applications

Suitable for high pressure gas, corrosive/hazardous environment that will not obstruct the pressure system.

Standard version

Nominal Size: 115 and 150 mm



Aluminium Gauge (Front Flange Panel Mount Type) Bourdon Type

P-03

P-04

**All SS Pressure Gauge
Bourdon Type**



Special Features

- Stainless steel case and measuring system
- Rugged construction
- Dry or liquid filled
- Standard followed in general EN 837-1
- Accuracy $\pm 1.6\%$ (for NS 63 & 80mm)
- Accuracy $\pm 2.5\%$ (for NS 40 & 50mm)

Applications

Food & Beverage, pharmaceutical, chemical and petrochemical industries, conventional and nuclear power plants, pumps, hydro-cleaning machines, presses, engine compressors.

Turbines, diesel engines, hydraulic equipments, refrigerating plants and gaseous/ liquid media that will not obstruct the pressure system.

Standard version

Nominal Size: 40, 50, 63 and 80 mm



Pressure Gauges



Special Features

- Phenolic case with SS measuring system
- Wetted part AISI 316L stainless steel, Monel 400, Hastelloy C-625
- Accuracy $\pm 0.5\%$ F.S.
- Solid front design features baffle wall interposed between the sensing system, the window and a pressure relieving back for increased safety
- Standard followed ANSI/ASME- B 40.1

Applications

Suitable for high pressure gas, corrosive / hazardous environment that will not obstruct the pressure system.

Standard version

Nominal Size: 115 mm (4 1/2")



Phenolic Case Pressure Gauge (4 1/2") *Solid Front*

P-05

P-06

All SS Pressure Gauge *Capsule Type*



Special Features

- Compact design
- Provision for zero adjustment
- Standard followed in general EN 837-3
- Accuracy $\pm 1.6\%$ of F.S

Applications

Low pressure draft measurement, food and beverages, pharmaceutical, conventional, nuclear power plants, clean air, gaseous, low viscous liquid and non corrosive media that will not obstruct the pressure system.

Standard version

Nominal Size: 63, 100, 125 and 150 mm



» Pressure Gauges



Special Features

- Cost effective
- Dry or liquid filled
- Standard followed in general EN 837-1
- Accuracy +/- 1.0% of F.S

Applications

Pneumatics, hydraulics, pumps, compressors, diesel engines and gaseous / liquid media that will not obstruct the pressure system.

Standard version

Nominal Size: 100, 115 and 150 mm



SS Case Brass Pressure Gauge *Bourdon Type*

P-07

P-08

Phenolic Case Pressure Gauge (4 1/2") *Low Pressure Solid Front*



Special Features

- Phenolic case with SS measuring system
- Wetted parts AISI 316L stainless steel
- Solid front design features baffle wall interposed between the sensing system, the window and a pressure relieving back for increased safety
- Standard followed ANSI/ASME- B 40.1
- Accuracy +/- 1.6% of F.S

Applications

Suitable for high pressure gas, corrosive / hazardous environment that will not obstruct the pressure system.

Standard version

Nominal Size: 115 mm (4 1/2")



Pressure Gauges



All SS Pressure Gauge
Solid Front

Special Features

Solid front design features baffle wall interposed between the sensing system and the window and a pressure relieving back for increased safety. EN 837-1 stainless steel blow off back

Applications

- Suitable for high pressure gas, corrosive/hazardous environment that will not obstruct the pressure system.
- Accuracy $\pm 1.6\%$ (for NS 63mm) and $\pm 1.0\%$ (for 100 & 150mm)

Standard version

Nominal Size: 63, 100 and 150mm

P-09

P-10

SS Case Test Gauge
Solid Front

Special Features

- Solid front design features baffle wall interposed between the sensing system and the window and a pressure relieving back for increased safety.
- Stainless steel case and high precision measuring system
- High resolution dial
- Anti parallax mirror band (eye friendly)
- Socket directly welded to case
- Standard followed in general EN 837-1
- Calibration certificate with traceability to national / international standards.
- Accuracy $\pm 0.25\%$ of F.S (At 20 deg C)

Applications

Calibration / testing in laboratory, fits for various process industries and all gaseous / liquid media that will not obstruct the pressure system.

Standard version

Nominal Size: 150 mm



Pressure Gauges



All SS Pressure Gauge
Bourdon Type

Special Features

- External zero adjustment (Optional)
- Stainless steel case and measuring system
- Socket directly welded to case
- Dry and liquid filled version
- Standard followed in general EN 837-1 For NS 100, 150 & 250 mm)
- CE marking (as per PED 97/23/EC, For NS 100 and 150mm)
- Accuracy +/- 1.0 % of F.S

Applications

Food and beverage, pharmaceutical, cryogenics, chemical & petrochemical industries, conventional & nuclear power plants, pumps, hydro-cleaning machines, presses, engine compressors, turbines, diesel engines refrigerating plants. Suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system.

Standard version

Nominal Size: 100, 125, 150, 200 and 250mm

P-11

P-13

SS Case Low and High Pressure Gauge

Diaphragm Type

Special Features

- CE approved electrical contacts
- Stainless steel case and measuring system
- Flanged or screwed connection
- Standard followed in general EN 837-3
- Accuracy +/- 1.6% of F.S.

Applications

Suitable for clean air, corrosive environments and gaseous and liquid media with optional flange connection for viscous and contaminated media

Standard version

Nominal Size: 100 and 150 mm



Pressure Gauges

Special Features

- Stainless steel case and high precision measuring system
- High resolution dial
- Anti parallax mirror band (eye friendly)
- Socket directly welded to case
- Standard followed in general EN 837-1
- Calibration certificate with traceability to national/international standards.
- Accuracy $\pm 0.25\%$ of F. S. (at 20 deg C)

Applications

Calibration / testing in laboratory, fits for various process industries and all gaseous / liquid media that will not obstruct the pressure system.

Standard version

Nominal Size: 150, 200 and 250 mm



SS Case Test Gauge
Bourdon Type

P-15

P-16

SS Case Brass Pressure Gauge
Bourdon Type

Special Features

- Stainless steel case
- Rugged construction
- Dry or liquid filled
- Standard followed in general EN 837-1
- Accuracy $\pm 1.6\%$ of F.S. (for NS 63, 80 & 100 mm)
- Accuracy $\pm 2.5\%$ of F.S. (for NS 40 & 50 mm)

Applications

Oil, water, pneumatics, hydraulics, pump, compressors, diesel engines and gaseous/liquid media that will not obstruct the pressure system.

Standard version

Nominal Size: 40, 50, 63, 80 and 100 mm



Pressure Gauges



Special Features

- Stainless steel case and ring
- Compact design
- Provision for zero adjustment
- Standard followed in general EN 837-3
- Accuracy $\pm 1.6\%$ of F.S.

Applications

Low pressure draft measurement, food and beverages, Pharmaceutical, conventional, nuclear power plants, clean air, gaseous, low viscous liquid and non corrosive media that will not obstruct the pressure system.

Standard version

Nominal Size: 63, 100, 125 and 150 mm

Scale Ranges: 0 25mbar to 0 600mbar or other equivalent unit of pressure and vacuum.



SS Case Brass Pressure Gauge Capsule Type

P-19

P-20

All SS Sanitary Pressure Gauge Diaphragm Type



Special Features

- Stainless steel case and measuring system
- Dry or liquid filled
- Diaphragm seal integrally built with gauge.
- Reduces the effect of vibration / pulsation
- Provides best hygiene factor
- Standard followed EN 837-3
- Accuracy $\pm 1.6\%$ of F.S.

Applications

These instruments are designed for sanitary, food, process and Pharmaceutical and Paint industry. Bacterial and fungal accumulates which contaminate the process are eliminated.

The mirror finishing of the components assures the best hygiene.

Standard version

Nominal Size: 50 and 63 mm



Pressure Gauges



Special Features

- Stainless steel case and measuring system
- Socket directly welded to case
- Protection IP 65 / IP 66
- Dry or fillable version
- Accuracy upto 0.5%
- Standard followed in general EN 837-1
- Standard Accuracy +/- 1.0% fo F.S. (for NS 100 & 150mm) and
- +/- 1.6% of F.S. (for NS 63mm)

Applications

Food and beverage, pharmaceutical, cryogenics, chemical and petrochemical industries, conventional and nuclear power plants, pumps, hydro-cleaning machines, presses, engine compressors, turbines, diesel engines and refrigerating plants. Suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system.

Standard version

Nominal Size: 63, 100 and 150 mm



All SS Pressure Gauge
Bourdon Type (Din Case)

P-25

P-27

All SS Pressure Gauge
Electric Contact Type (High Case Version)



Special Features

- CE approved electrical contacts
- Stainless steel case and measuring system
- Filled version available
- Standard followed in general EN 837-1
- Accuracy +/-1.0% of F.S.

Applications

To control the electrical operation of compressors, pumps, motors, presses, hydraulic and pneumatic equipments, chemicals and petrochemical plants.

Standard version

Nominal Size: 100 mm

Scale Ranges: 0 1, 0 to 0 1600 bar or other equivalent unit of pressure or vacuum



Pressure Gauges



Special Features

- Solid front design features baffle wall interposed between the sensing system and the window and a pressure relieving back for increased safety. EN837-1 stainless steel blow off back.
- Accuracy +/- 1.0% of F.S. (for NS 100 & 150mm)

Applications

Suitable for high pressure gas, corrosive / hazardous environment that will not obstruct the pressure system.

Standard version

Nominal Size: 63, 100 and 150mm



All SS Pressure Gauge
High Pressure Solid Front

P-34

P-35

SS Case Brass Pressure Gauge
Bordon Type (Din Case)



Special Features

- Stainless steel case
- Protection IP 65 / IP 66
- Dry or fillable version
- Standard followed in general EN 837-1
- Accuracy +/- 1.6% of F.S.

Applications

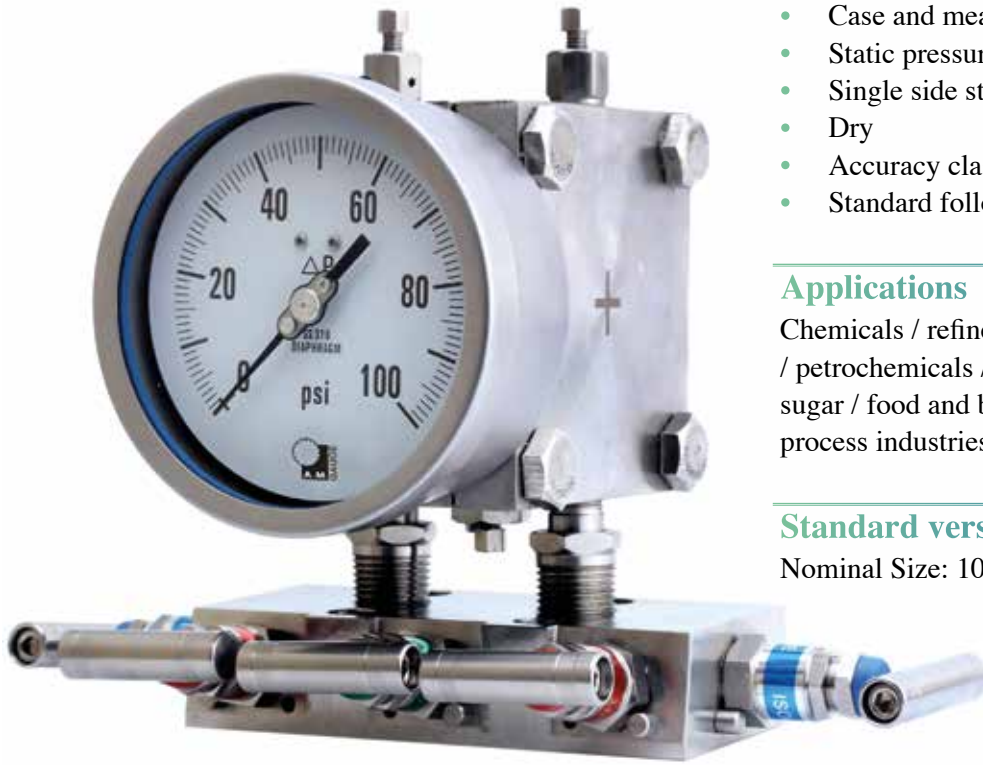
Pneumatics, hydraulics, pumps, compressors, diesel engines and gaseous / liquid media that will not obstruct the pressure system.

Standard version

Nominal Size: 63, 100 and: 150 mm



Differential Pressure Gauges



Special Features

- CE approved electrical contacts
- Case and measuring system in SS
- Static pressure upto 200 kg/cm²
- Single side static pressure sustainable
- Dry
- Accuracy class +/- 1.6% of F.S.
- Standard followed in general EN 837-3

Applications

Chemicals / refinery / nuclear / aerospace / fertilizer / petrochemicals / pharmaceutical / power / cement / sugar / food and beverages / pulp paper and allied process industries.

Standard version

Nominal Size: 100 and 150 mm



Differential Pressure Gauge
Double Diaphragm Type

P-14

Temperature Gauge



Special Features

- CE approved electrical contacts.
- Inert gas filled expansion system.
- Stainless steel case and stem
- With or without thermowell
- Standard followed EN 13190.
- Accuracy $\pm 1.0\%$ of F.S.

Applications

All stainless steel inert gas filled thermometers are suitable for corrosive media / environments in process industry like chemical, food and pharmaceutical, pulp and paper, refinery, cement and many more.

Standard version

Nominal Size: 100, 125, 150, 200 and 250 mm



Industrial Thermometer *Filled System*

T-01

T-02

Industrial Thermometer *Bimetal Type*



Special Features

- Stainless steel case and stem
- Bottom / Back / Every Angle Entry
- Silicon oil filled (optional)
- With or without thermowell
- External zero adjustment (optional)
- Standard followed EN 13190.
- Accuracy $\pm 1.0\%$ of F.S.

Applications

Chemicals / refinery / fertilizer / petrochemicals / pharmaceutical / power / cement / sugar / food beverages / pulp and paper and allied process industries which are having corrosive media / environment.

Standard version

Nominal Size: 63, 80, 100, 125 and 150 mm



Temperature Gauge



Specifications

Case length:	110mm, 150mm, 200mm
Case material:	Aluminium with golden plated
Color:	Blue
Type:	Straight or Angle
Stem material:	Brass or Steel
Stem diameter:	10mm
Stem length (L):	30mm, 40mm, 50mm, 100mm, 150mm
Union:	G1/2", M22x1.5, M27x2
Scale:	Single scale °C
Accuracy:	±2.0%
Range:	-30to50°C, 0to50°C, 0to100°C, 0to120°C, 0to160°C, 0to200°C, 0to600°C



Glass Industrial Thermometer

T-05

Pressure Accessories



Special Features

- Stainless steel construction
- Suitable for clean air, gases and non crystallized liquids

Applications

Cooling towers are used mainly to protect pressure instruments, gauges, switches and transmitters directly coming in contact with high temperature process fluids or vapours filled with condensation fluids. These are mounted between process and pressure instrument. They reduce process pulsation, act as heat dispenser and generate cooling effect to save instrument from working at dangerous temperature.

Standard Version

Operating temperature	Type CT1 & CT2 - Up to 220°C Type CT3- Up to 150°C
Process connection	1/2" BSP (M)
Instrument connection	1/2" BSP (M)
Material of connection	AISI 316 SS



Cooling Tower All Stainless Steel

AC-01

AC-02

Gauge Cock Vent Hole Type



Special Features

- PTFE adjustable packing installed below operating
- Threads to prevent media contamination or
- Lubricant washout of operating threads
- Spindle for longer durable operation
- With air vent hole (optional)

Applications

Hydraulic machines, compressors, process plants, Clean air, gases and non crystallized liquids.

Specifications

Body	AISI316 SS
Handle	AISI316 SS
Working temperature	Up to 180°C
Gasket seal	PTFE
Nominal pressure	100 kg/cm2



Pressure Accessories

Special Features

- Nominal pressure up to 400 bar
- Over pressure up to 600 bar
- 7 Different selectable setting
- Bellow type and piston type models ranges

Applications

Designed to protect pressure instruments from over pressure exceeding the specified pressure range by sudden and excessive pressure fluctuation from surge or spike. This device blocks the higher pressure exceeding the allowed value, until it comes back to normal, when system pressure becomes normal. Hence this device safeguards the pressure instruments, gauges, switches or transmitters by blocking extra high pressure. Widely used in mechanical engineering and plant construction, power stations, mining, environmental technology, chemical and petrochemical, on shore and off shore.

Standard Version

Overload protector type	E01: Bellow type; E 02: Piston type
Adjustable range	E01: 200 mbar to 4 bar; E 02: 6bar to 400mbar
'O' Ring	Viton
Maximum working pressure	600 bar
Operating temperature	-40°C to 120°C
Material of construction	AISI 316 SS



Overload Protector (Gauge Saver) All Stainless Steel

AC-03

AC-04

Flushing Ring

Special Features

- With double flushing ports.
- Suitable with flanged, pancake or inline diaphragm seals.
- Available in all exotic material grades.

Applications

The flushing ring is designed to be sandwiched between the process flange and the diaphragm seal. Material collected in front of diaphragm can be flushed out through the flushing ports.

Standard version

(Compatible Models: 04-01, 04-02, 04-09, 04-10, 04-11 and 04-13)

Flange size	E01: Bellow type; E 02: Piston type
Material	E01: 200 mbar to 4 bar; E 02: 6bar to 400mbar
Number of ports	Two
Port connection	1/4" NPT (F) with male plug
Sealing face	Raised face



Pressure Accessories



Special Features

Designed to protect pressure instruments from sudden pressure changes and fluctuation.

Applications

Hydraulic machines, compressors, process plants, clean air, gases and non crystallized liquids.

Specification

Working pressure	Up to 400 kg/cm ²
Working temperature	-20°C to 120°C
Instrument connection	1/2" NPT (F)
Process connection	1/2" NPT (M)
Material	AISI 316 SS



Pulsation Dampener / Snubber Adjustable Needle Type

AC-05

AC-06

Siphon All Stainless Steel



Special Features

- Pigtail, Coil and "U" type shapes
- Maximum temperature up to 400°C
- Nominal pressure up to 160 bar
- Tig welded and hydro tested
- Made with seamless pipes

Applications

Siphons are used mainly to protect pressure instruments, gauges, switches and transmitters directly coming in contact with high temperature process fluids or vapours. These are mounted between process and pressure instrument. They reduce process pulsation and generate cooling effect to save the instrument.

Specification

Body Material	Pipe Size	Operating Pressure
AISI 316	1/2"	100 bar at 120°C
Stainless Steel	Schedule 40	



Pressure Accessories



Special Features

This 360° swivel connection (swivel adapter) enables the simple orientation of pressure measuring instruments. The measuring instrument can be turned through a 360° range.

Applications

Hydraulic machines, compressors, process plants, clean air, gases and non crystalized liquids.

Specification

Working pressure	Up to 400 kg/cm ²
Working temperature	- 20°C to 120°C
Instrument connection	1/2" NPT (F)
Process connection	1/2" NPT (M)
Material	AISI 316 SS



Rotatable Gauge Adapters Swivel Adapters

AC-07

M-08

Two Valve Manifolds



2VT Special Features

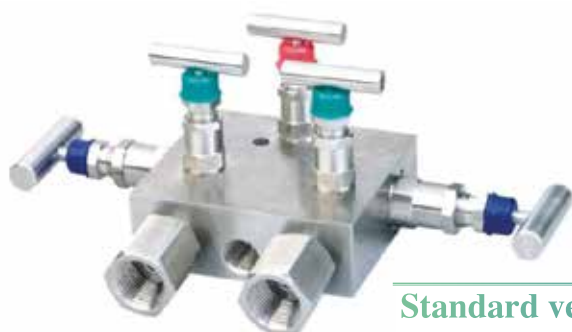
With threaded vertical port inlet and female outlet. The vent/test connection is positioned on the front side. The venting bonnet is positioned on the right hand side and the isolating bonnet on left hand side.

Standard version specifications of Series 2VT

Body	SS 316
Stem	SS 316
Valve assembly	SS 316
T bar handle	SS 304
Maximum working pressure	6000 PSI / BAR
Maximum working temperature	240°C
Packing	PTFE
Type of stem	Type CT; Stem with conical metal tip
Drain port	1/4" NPT [F]; provided with SS 316 plug
Bracket mounting holes	2 Nos. (Not available in Series 2VT, 2VTF)
Hard Chrome plating	Provided on stem tip and female threads of valve.



Pressure Accessories



5VD Special Features

- Series for differential pressure gauges with 2 inlets NPT female at bottom and 2 outlets with rotating nuts on top side. Also available in 50mm tap spacings Series - 5VD50.

Standard version specifications of Series 5VD

Body	SS 316
Stem	SS 316
Valve assembly	SS 316
“T” bar handle	SS 304
Maximum working pressure	6000 PSI / 400 bar
Maximum working temperature	240°C
Packing	PTFE
Type of stem	Type CT; Stem with conical metal tip
Drain port	1/4” NPT [F]; provided with SS 316 plug
Bracket mounting holes	2 Nos.
Hard Chrome plating	Provided on stem tip
Bracket mounting holes	4 Nos. With 12 mm 10.



Five Valve Manifolds

M-26

M-27

Five Valve Manifolds

5VG Special Features

With threaded vertical port inlets and outlets. The vent/test ports are positioned on the bottom and top of the body. The isolating bonnets are positioned on the left and right hand side and the venting and equalizing bonnets are positioned on the front side. Specially designed for remote mounting to field meters, differential transmitters and chart recorders on gas service allowing fail safe configuration preventing pressure loss from the high to low pressure Impulse lines.

Standard version specifications of Series 5VG

Body	SS 316
Stem	SS 316
Valve assembly	SS 316
‘T’ bar handle	SS 304
Maximum working pressure	6000 PSI / BAR
Maximum working temperature	240°C
Packing	PTFE
Type of stem	Type CT; Stem with conical metal tip
Drain port	1/4” NPT [F]; provided with SS 316 plug
Bracket mounting holes	2 Nos.
Hard Chrome plating	Provided on stem tip
Bracket mounting holes	4 Nos. With 12 mm ID



Diaphragm Seals

Special Features

- Diaphragm directly welded to top chamber
- Easy to clean
- Easy to change process connection / bottom chamber

Applications

Diaphragm seals are designed to isolate the sensing element of pressure gauges and pressure switches from process fluids that they may be corrosive, viscous, sedimentous and / or with a high temperature. The diaphragm is welded to the body to ensure separation of the filling fluid from the process medium.

Standard version

(Compatible Models: 01-03, 01-05, 01-08, 01-09, 01-12, 01-15, 02-01, 02-05, 02-09, 02-10, 02-15 and 02-20)

Seal type S01=-1 to 0 kg/cm² & 0 to 70 kg/cm² (Standard)
S02= 100 kg/cm² to 250 kg/cm²



Diaphragm Seal
Slip Ring Coupled Type

D-01

D-02

Diaphragm Seal
Direct Coupled Type



Special Features

- Robust two piece design the diaphragm is welded to the body to ensure separation of the filling fluid from the process medium
- All SS construction

Applications

Diaphragm seals are designed to isolate the sensing element of pressure gauges and pressure switches from process fluids that they may be corrosive, viscous, sedimentous and / or with a high temperature.

Standard version

(Compatible Models: 01-03, 01-05, 01-08, 01-09, 01-12, 01-17, 02-01, 02-05, 02-06, 02-07, 02-15 and 02-20)

Seal type S06=-1 to 0 kg/cm² & 0 to 70 kg/cm² (Standard)
S07= 100 kg/cm² to 400 kg/cm²



Diaphragm Seals



Special Features

- All stainless steel construction
- Compact design
- Low cost version
- The diaphragm is welded to the body to ensure separation of the filling fluid from the process medium

Applications

Diaphragm seals are designed to isolate the sensing element of pressure gauges and pressure switches from process fluids that they may be corrosive, viscous, sedimentous and / or with a high temperature.

Standard version

(Compatible Models: 01-04 and 01-20 (NS 50 and 63mm))

Range 1 kg/cm² to 21 kg/cm²



Diaphragm Seal

Direct Coupled Type (Compact Design)

D-03

D-04

Diaphragm Seal

Flush Diaphragm, Sanitary Type



Special Features

- All 316 stainless steel
- Quick connect and disconnect
- Matching DIN, SMS, RTJ standards

Applications

Diaphragm seals are provided in the instruments like pressure gauges, switches, transmitters in order to isolate the sensing element from the main service due to its corrosive, viscous and sedimented nature and to avoid clogging and solidification. These seals are specially designed for applications where high purity in the process is essential.- Typically in food, beverages, dairy and pharmaceutical industries.

Standard version

(Compatible Models: 01-04 (NS 50 and 63 mm) 01-12 (NS 100 and 150 mm) 01-09 and 02-05)



Diaphragm Seals



Special Features

- All SS 316 material
- One piece construction
- Flush diaphragm

Applications

Diaphragm seals are provided in the instruments like pressure gauges, switches, transmitters in order to isolate the sensing element from the main service due to its corrosive, viscous and sedimented nature and to avoid clogging and solidification.

Standard version

(Compatible Models: 01-04 (NS 63 mm), 01-12 (NS 100 mm) and 0-22)



Diaphragm Seal *Screwed Flush Type*

D-05

D-06

Special Features

- All AISI 316 SS material
- Light weight
- Economical
- Ideal choice for high pressure
- The diaphragm is welded to the body to ensure separation of the filling fluid from the process medium.

Applications

Diaphragm seals are designed to isolate the sensing element of pressure gauges and pressure switches from process fluids that they may be corrosive, viscous, sedimentous and / or with a high temperature.

Standard version

(Compatible Models: 01-03, 01-05, 01-08, 01-09, 01-12, 01-18, 02-01, 02-05, 02-09, 02-10, 02-15 and 02-20)

Seal type S11= -1 kg/cm² to 0 & 0 to 21 kg/cm² (Standard)
 S12= 25 kg/cm² to 70 kg/cm²
 S13= 100 kg/cm² to 400 kg/cm²
 S14= 250 kg/cm² to 600 kg/cm²

Diaphragm Seal *Heavy Duty Mini Seal*



Diaphragm Seals



Special Features

- Quick connect and disconnect
- For hygiene applications
- Easy to clean

Applications

Diaphragm seals are provided in the instruments like pressure gauges, switches, transmitters in order to isolate the sensing element from the main service due to its corrosive, viscous and sedimented nature and to avoid clogging and solidification.

These seals are used in applications where purity in process is essential - typically in food, dairy beverages and pharmaceutical industries.

Standard version

(Compatible Model: 01-12 (NS 100 mm to 150 mm))

Seal type S16=-1 to 0 & 0 to 40 kg/cm² (Standard)

S17= -1 to 0 & 0 to 40 kg/cm² (Dry seal only)



Diaphragm Seal

Sanitary Seal (Clamp Type)

D-07

D-08

Special Features

- Continuous duty
- "T" section extension to facilitate smaller flange sizes
- Suitable for anti corrosive protection

Applications

Diaphragm seals are provided in the instruments like pressure gauges, switches, transmitters in order to isolate the sensing element from the main service due to its corrosive, viscous and sedimented nature and to avoid clogging and solidification. This can be widely used with anti corrosive treatment / protection and various flanged sizes.

Standard version

(Preferable For Flange Size 1" and below)

(Compatible Models: 01-03, 01-05, 01-08, 01-09, 01-12, 01-18, 02-01, 02-05, 02-09, 02-10, 02-15 and 02-20)

Seal type S21=-1 to 0 kg/cm² & 0 to 70 kg/cm² (Standard)

S22= 100 kg/cm² to 400 kg/cm²

Diaphragm Seal Flange - "T" Section Type



Diaphragm Seals

Special Features

- Flush diaphragm
- Easy flushing (through flushing ring)
- Most suitable for slurry, corrosive and high viscous service
- Flushing ring, flange and diaphragm are available in various type of SS and exotic materials.

Applications

Diaphragm seals are provided in the instruments like pressure gauges, switches, transmitters in order to isolate the sensing element from the main service due to its corrosive, viscous and sedimented nature and to avoid clogging and solidification. These kind of seals are widely used in the viscous and corrosive services where flushing is required periodically and frequently.

Standard version

(For range size 1½" and above)

(Compatible Models: 01-03, 01-05, 01-08, 01-09, 01-12, 01-18, 02-01, 02-05, 02-09, 02-10, 02-15 and 02-20)

Range -1 kg/cm² 0 & 0 to 250 kg/cm² (Standard)



Diaphragm Seal
Direct Flanged Flush Type

D-09

D-10

Special Features

- Welded diaphragm
- Most suitable for slurry and corrosive service
- Flushing ring, flange and diaphragm are available in various type of SS and exotic materials.

Applications

Diaphragm seals are provided in the instruments like pressure gauges, switches, transmitters in order to isolate the sensing element from the main service due to its corrosive, viscous and sedimented nature and to avoid clogging and solidification. These kind of seals are widely used in the viscous and corrosive services where flushing is required periodically and frequently.

Standard version

(For flange size 1½" and above)

(Compatible: Models: 01-03, 01-05, 01-08, 01-09, 01-12, 01-18, 02-01, 02-05, 01-09, 02-10, 02-15 and 02-20)

Seal type S26= -1 to 0 kg/cm² & 0 to 250 kg/cm² (Non PTFE Lined)* (Standard)
S27= -1 to 0 kg/cm² & 0 to 40 kg/cm² (PTFE Lined)*

Diaphragm Seal
Direct Flanged Insert Type



Diaphragm Seals



Diaphragm Seal
Extended Neck Type

Special Features

- All SS 316 construction
- Ideal for slurry / high viscous fluids
- Flange and diaphragm are available in various type of SS and exotic materials.

Applications

Diaphragm seals are provided in the instruments like Pressure gauges, switches, transmitters in order to isolate the sensing element from the main service due to its corrosive, viscous and sedimented nature and to avoid clogging and solidification. These kind of seals are widely used in the viscous and corrosive services where flushing is required periodically and frequently.

Standard version

(Compatible Model: 01-12; NS 100 and 150 mm)

Range 1 kg/cm² to 250 kg/cm²

D-11

D-12

Diaphragm Seal

Pulp Seal (Floating Ring Type)

Special Features

- All stainless steel construction
- Easy to clean
- Continuous duty
- Available with anti vibration spring

Applications

Diaphragm seals are provided in the instruments like pressure gauges, switches, transmitters in order to isolate the sensing element from the main service due to its corrosive, viscous and sedimented nature and to avoid clogging and solidification. These kind of seals are widely used in the viscous and corrosive services where flushing is required periodically and frequently.

Standard version

(Compatible Model: 01-12; NS 100 mm and 150 mm)

(Compatible Models: 01-03, 01-05, 01-08, 01-09, 01-12, 01-18, 02-01, 02-05, 02-09, 02-10, 02-15 and 02-20)

Range 1 kg/cm² to 40 kg/cm²



Thermowells



Special Features

- Fabricated from bar stock
- Standard for manufacturing followed- PTC 19.3
- Thermowell available in exotic materials such as hastalloy-c, tantalum, monel, titanium, inconel 600 etc
- Thermowells are used as an accessory with temperature instruments, sensors, to protect its basic sensing element from corrosive and mechanical damages due to process parameters



Thermowells *Flanged Tapered Type*

E-13

E-12

Thermowells *Straight Screw Type*



Special Features

- Fabricated from Bar Stock
- Standard for manufacturing
- Followed - PTC 19.3
- Thermowell available in exotic materials such as hastalloy-c, tantalum, monel, titanium, inconel 600 etc
- Thermowells are used as an accessory with temperature instruments, sensors, to protect its basic sensing element from corrosive and mechanical damages due to process parameters



Thermowells



Special Features

- Fabricated from bar stock
- Standard for manufacturing followed- PTC 19.3
- Thermowell available in exotic materials such as hastalloy-c, tantalum, monel, titanium, inconel 600 etc
- Thermowells are used as an accessory with temperature instruments, sensors, to protect its basic sensing element from corrosive and mechanical damages due to process parameters



Thermowells *Flanged Straight Type*

E-11

E-14

Thermowells *Tapered Screw Type*



Special Features

- Fabricated from Bar Stock
- Standard for manufacturing
- Followed - PTC 19.3
- Thermowell available in exotic materials such as hastalloy-c, tantalum, monel, titanium, inconel 600 etc
- Thermowells are used as an accessory with temperature instruments, sensors, to protect its basic sensing element from corrosive and mechanical damages due to process parameters





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