

PRODUCT PROFILE



Location

Factory

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3rd Industrial City
Dammam
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Location Coordinates:
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التميمي للطاقة
TAMIMI ENERGY

FACTORY PICTURES



HESCO ARABIA
A TAMIMI ENERGY COMPANY

About us

QYASAT ALTAQA COMPANY is a local manufacturing facility established in 2017 with the Technical license of HISCO Inc. to support and contribute the Kingdom's VISION 2030. The factory based in Dammam manufacturers Instruments like Pressure Gauges, Temperature Gauges, RTDs, Thermocouples and Thermowells catering to the Oil & Gas, Petrochemicals, Power, Process Industrise sector. The Facility is approved by Major Industries like Saudi Aramco, SABIC, SEC, Maaden, SWCC, etc and has a good clientele among them. The company emphasizes on the Saudization policy of the Kingdom and provides job opportunities and to the Citizens of the Kingdom and are trained at international standards. Throughout the years the Company has been raising its standards through the Quality Products, Work environment, HR policies. The Company aims to be No.01 Local Manufacturer within 5 years with export to GCC and African countries.

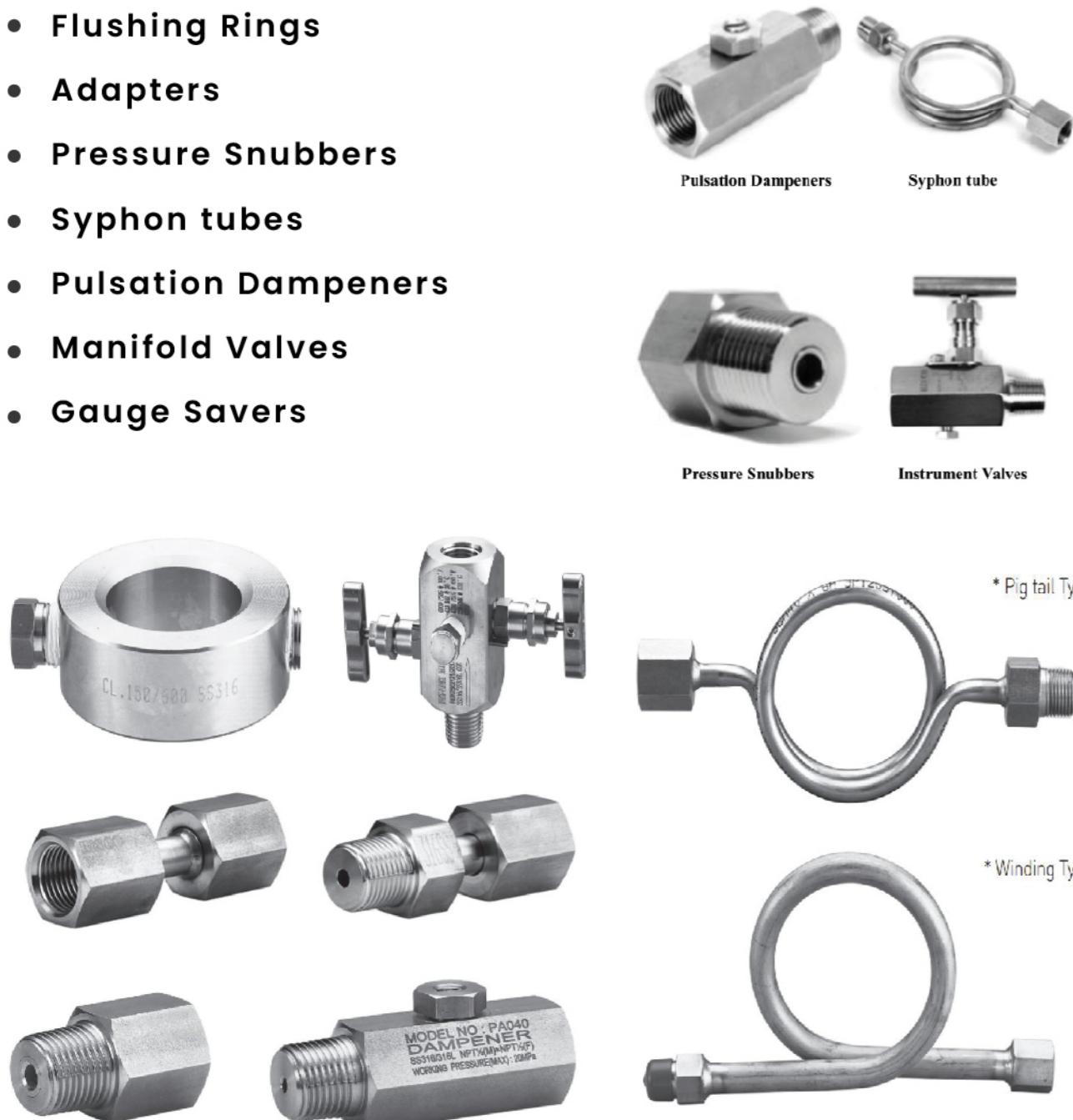
Calibration Services

- Modern pressure gauges are remarkably robust and accurate, but over time they lose their accuracy. Even though these products are calibrated at factory by the manufacturer, it is wise to calibrate on regularly basis as part of a preventative maintenance initiative, during shutdowns, and for annual ISO audits.
- Our state of the art facility for calibration is equipped with the latest new generation calibration machines (Automatic Digital calibration) for high accurate calibration for calibration of Gauges and RTDs.
- We also undertake Calibration for third party products (other manufacturers)

Accessories

- Flushing Rings
- Adapters
- Pressure Snubbers
- Syphon tubes
- Pulsation Dampeners
- Manifold Valves
- Gauge Savers

ACCESSORIES



Advantages of HISCO ARABIA

- 1) Competitive Price
- 2) Huge product profile to cater to all needs
- 3) Least Delivery time among Local manufacturers
- 4) Large Stock availability
- 5) ISO 9001:2015 Quality
- 6) Biggest Local manufacturing facility in Kingdom
- 7) Digital & Automated machines in Factory to ensure Quality
- 8) Professionally trained and Internationally Certified technicians
- 9) Local repair & Calibration Facility
- 10) Competitive Recalibration Services in the Kingdom

Vendor Approvals

Customer Name	Vendor ID
SAUDI ARAMCO	10060621
SABIC	11042937
TASNEE	104445
SEC	2006500
SADARA	1000004058
MAADEN	38801
ADVANCED PETROCHEMICALS	101692
SWCC	5315
MARAFIQ	4446
SIPCHEM	103514
SAHARA	101490
AL ITTEFAQ GROUP	2007266
YASREF	101312
SAUDI CHEVRON	135374
ROYAL COMMISSION	12274

Weld-in Type Thermowells

General Description

Weld in type thermowells are precision components manufactured to the highest standard from bar or forgings to serve as protective devices for primary sensing elements of all types.



A wide range of possible products are available. Conditions of pressure, temperature and corrosion resistance govern the size, shape and selection of materials to ensure optimum dependability system response and accuracy.

Standard Specification Overview

WI Bar-stock Plain weld-in type

WK Bar-stock Socket weld type

Stem Outer diameter

A wide variety of tube or pipe sizes in a variety of schedules subject to requirements and process conditions.

Well Material

A wide range of materials are available including 304, 316, 321 stainless steel, 446 Cr-Fe, Carbon Steel, Chromium Steels, Hastelloy C22, C276 and X, Incoloy 800, Inconel 600, Monel 600 and Titanium.

Instrument Connection

Female in API, NPT, BSP or other thread forms.

Insertion Length:

100 mm to 300 mm, higher on request

Bore Dia:

7 mm to 9.8mm

Process Connection

Connection to the pipe or vessel may be by means of weld in type or socket weld.

Weld in thermowells are normally used where process pressure and velocities are too great for flanged and threaded or where long term inexpensive connections are required.

Options:

PTFE Lining, Stellite coating

Screw Type Thermowells

General Description

Screwed Type thermowell are precision components manufactured to the highest standard from pipe, tube and bar to serve as "protective devices for primary sensing elements of all types."



Standard Specification Overview Types:

WT Hexagonal bar-stock screwed-in type

WL Hexagonal bar-stock screwed-in type with Lagging extension

WE End close tube screwed-in type

Well Material

304, 316, 321 stainless

steel, 446 Cr-Fe, Carbon Steel, Chromium Steels, Hastelloy C22, C276 and X, Incoloy 800, Inconel 600, Monel 600 and Titanium.

Insertion Length:

100 mm to 300 mm, higher on request

Bore Dia:

7 mm to 9.8mm

Process Connection

Connection to the pipe or vessel may be by means of thread Using standard tapered or parallel pipe threads for simplicity and low cost is popular, generally for low pressure applications Standard threads are NPT, BSP(PI), BSP(Tr) and API. Standard thread sizes range from $\frac{1}{2}$ " to 2".

Options:

PTFE Lining, Stellite coating

Our Products & Services

- Pressure Gauges
- Temperature Gauges
- Thermocouples & RTDs
- Thermowells
- Accessories
- Calibration Services

PRESSURE GAUGES



- General Purpose Pressure Gauges (101P Series).
- General Process Pressure Gauges (201P/205P Series)
- Industrial Process Liquid Filled Pressure Gauge (301P/305P/321P/325P).
- Solid Front type Stainless Steel/Phenolic Case Pressure Gauges (383P,381P)
- Low Pressure Capsule/Bellow Pressure Gauge (411P)
- Diaphragm Sealed Pressure Gauge (501P, 511P).
- Differential Pressure Gauges (701P).
- Electric Contact Pressure Gauges (801P)
- SF6 Gas Density Monitor (3700)

Flanged Type Thermowells

General Description

Flanged type thermowells are precision components manufactured to the highest standard from bar or forgings, to serve as protective devices for primary sensing elements of all types.



Standard Specification Overview Types

WS- Bar-stock Flanged weld type (Tapered-STD)
WF End close tube Flanged Groove weld type (PIPE)

Connection Size:

½" to 2"

Flange Rating:

150 lb to 2500 lb

Flange & Well Material

304, 316, 321 stainless steel, 446 Cr-Fe, Carbon Steel, Chromium Steels, Hastelloy C22, C276 and X, Incoloy 800, Inconel 600, Monel 600 and Titanium.

Insertion Length:

100 mm to 300 mm, higher on request

Bore Dia:

7 mm to 9.8mm

Process Connection

Connection to the pipe or vessel may be by means of flange All sizes and pressure ratings are available to DIN, BS, ANSI/ASME and KS, JIS or other standards. Flanged connections are now the petrochemical standard for all applications.

Options:

PTFE Lining, Stellite coating

Thermowells



- Flanged Type Thermowells
- Screw Type Thermowells
- Weld-in Type Thermowells

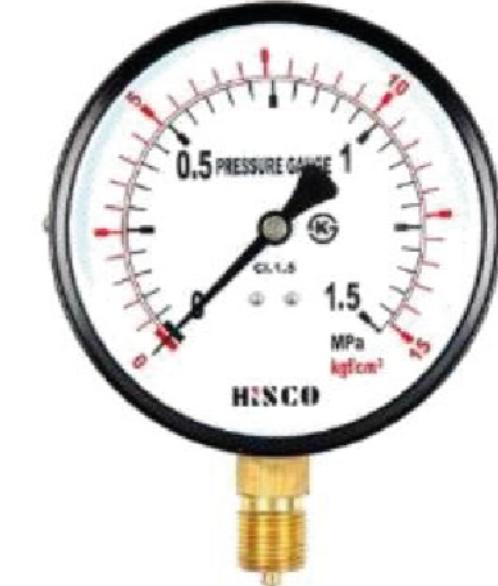
General Purpose Pressure Gauges (101P Series)

Applications

- Non-corrosive gas, air, oil and water
- Pneumatics
- Low cost

Dial Size

63mm(2.5"), 75mm(3")
100mm(4"), 150mm(6")



Scale ranges:

0-350 BAR (FOR DIAL SIZE UPTO 75MM)
0-1000 BAR (FOR DIAL SIZE ABOVE 100MM)

Accuracy:

63mm & 75mm: $\pm 1.5\%$ of Full Scale
100mm, 150mm & 200mm: $\pm 1.5\%$ of Full Scale]

Material

Case : Black Finished Steel
Wetted parts: Brass

Process connection

63mm: $\frac{1}{4}''$ NPT, $\frac{1}{2}''$ PT
100mm, 150mm & 200mm : $\frac{1}{4}''$ NPT, $\frac{1}{2}''$ PT, $3/8''$ PT

General Process Pressure Gauges (201/205P Series)

Applications

- Non-corrosive gas, air, oil and water
- Pneumatics
- HVAC

Dial Size

63mm(2.5"), 75mm(3")
100mm(4"), 150mm(6")

Scale ranges:

0-350 BAR (FOR DIAL SIZE(UPTO 75MM)
0-1000 BAR (FOR DIAL SIZE ABOVE 100MM)

Accuracy:

$\pm 1.5\%$ of Full Scale]

Material

Case : SS304

Wetted parts: Brass

Process Connection: Chrome Plated Brass

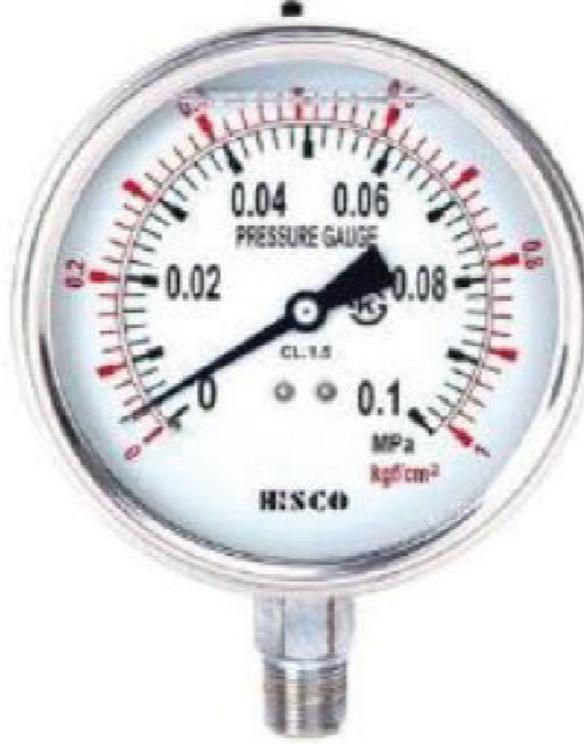
Process connection

63mm: $\frac{1}{4}$ "NPT, $\frac{1}{2}$ "PT

100mm, 150mm : $\frac{1}{4}$ "NPT, $\frac{1}{2}$ "PT, 3/8"PT

Mounting:

Bottom/ Lower back with Panel, U clamp,
3 hole Front Flange



Multi-point Thermocouple (240 Series)

Applications

- 240 series are designated to provide fast, accurate
- temperature profiling at various points with designed
- probe specially to fit the customers' application.

Standard Specification Overview Junction Box type

Explosion Proof Aluminum Head (Eex d IIB T4 / T6)

General Aluminum Head (IP65)

General Stainless Steel Head (IP65)

Element type

B, R, S, K, E, J, T type

Sheath O.D.(mm)

1.6, 3.2, 4.8, 6.4, 8.0

Number of Conductor wire

2-wires, 4-wires

Number of Element

single, double

Sheath Material

316SS, 446SS, 321SS, Inconel 600, etc.

Accuracy

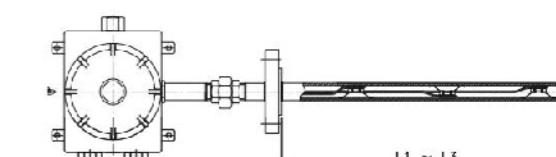
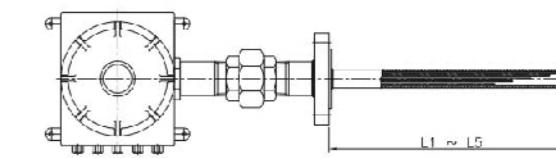
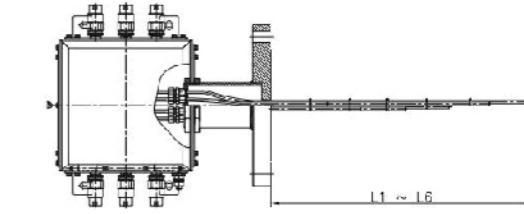
Class 1 (0.75), Class 2 (0.4)

Operating Temperature Range

-200 ~ 1700°C

Hot Junctions

Grounded, Ungrounded, Exposed



Skin type Thermocouple sensor (180 Series)

Applications

- Surface temperature measurement on steam pipes, inside or outside vessel and reactors
- Temperature measurement on walls or flat surfaces

Standard Specification Overview

Head type

Explosion Proof Aluminum Head (Single/Double Conduits)

- Eex d IIC T5

General Aluminum Head (Single Conduits) (IP65)

General Stainless Steel Head (Single Conduits) (IP65)

Element type

"K" - -200 ~ 1200°C

"E" - -200 ~ 800°C

"J" - 0 ~ 750°C

"T" - -200 ~ 350°C

Protection tube size(O.D. x I.D.)

1.6, 3.2, 4.8, 6.4, 8.0

Number of Conductor wire

2-wires, 4-wires

Number of Element

single, double

Sheath Material

316SS, 446SS, 321SS, Inconel 600, etc.

Accuracy

Class 1 (0.75), Class 2 (0.4)

Hot Junctions

Grounded, Ungrounded, Exposed



Industrial Process Liquid Filled Pressure Gauge (325P,321P).

Applications

- Chemical & petrochemical
- Power generation
- Pumps, compressors and regulators
- Refining & marine industry

Types:

- 301P/305P (63mm Dry
Liquid Filled Gauges)
321P/325P (100mm)
Dry/Liquid Filled Gauges)



Dial Size

63mm(2.5"), 100mm(4") , 115mm(4.5") , 150mm(6")

Case material

SS304, SS316

Scale Ranges

Vacuum, Compound, 0 ~ 1000BAR

(Units available in PSIG, KG/CM2, MPA, KPA)

Process Connection

Size: ½"NPT, ¼"NPT

Wetted parts:

Bourdon tube: SS316, SS316L

Mounting:

Bottom/ Lower back, with or without 3-hole
mounting Flange

Solid Front Type Pressure Gauge (383P,381P).



Applications

Safety relief applications / Corrosion resistance
Chemical & petrochemical / Power generation / Pumps
compressors and regulators / Refining / marine industry
Shock vibration application

Types:

Model	Description	Case & Ring	Wetted Parts
381P	Solid Front PG	Phenolic	316 SS/Monel
383P	Solid Front PG	304SS/316SS	316 SS/Monel

Reference Accuracy

± 1.0% of Full Scale(Standard), ± 0.5% of Full Scale(Option)

Scale Ranges

Vacuum, Compound & 0-1000BAR
(Units available in PSIG, KG/CM2, MPA, KPA)

Pressure Connection

NPT ½'', NPT ¼''

Sheathed Thermocouple Sensor (120 Series)

Applications

120 series are used in difficult measurement application with strong vibrations as well as at all measuring positions where flexibility and ease of replacement are needed.
Areas of application are to be found in chemical plants, power stations, motors, as well as in machine construction and building installation and in general industrial applications



Specification Overview

Head type

Explosion Proof Aluminum Head
(Single/Double Conduits)- Eex d IIC T5
General Aluminum Head (Single Conduits) (IP65)
General Stainless Steel Head (Single Conduits) (IP65)

Element type

"B"- 200 ~ 1700°C "R"- 0 ~ 1600°C
"S"-0 ~ 1600°C "K"- -200 ~ 1200°C
"E"- -200 ~ 800°C "J"- 0 ~ 750°C
"T"- -200 ~ 350°C

Sheath O.D.(mm)

1.6, 3.2, 4.8, 6.4, 8.0

Number of Conductor wire

2-wires, 4-wires

Number of Element

single, double

Sheath Material

316SS, 446SS, 321SS, Inconel 600, etc.

Accuracy

Class 1 (0.75), Class 2 (0.4)

Hot Junctions

Grounded, Ungrounded, Exposed

Sheathed RTD Sensor (110 Series)

Applications

110 series are used in difficult measurement application with strong vibrations as well as at all measuring positions where flexibility and ease of replacement are needed. Areas of application are to be found in chemical plants, power stations, motors, as well as in machine construction and building installation and in general industrial applications.

Specification Overview

Element type

Pt 100 Ω at 0°C, Pt 1000 Ω at 0°C

Sheath O.D.(mm)

3.2, 4.8, 6.4, 8.0

Lead connection

3-wires, 4-wires, 6-wires

Number of Element

single, double

Sheath Material

316SS, 446SS, 321SS, Inconel 600, etc...

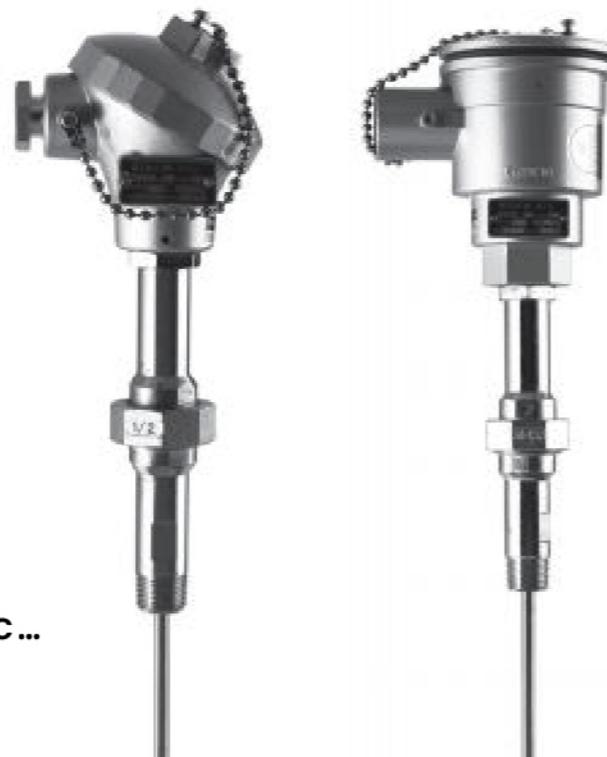
Accuracy

Class A ($\pm(0.15+0.002 | t |)$,

Class B $\pm(0.3+0.005 | t |)$

Operating Temperature Range

-200 ~ 650°C



Low Pressure Capsule/Bellow Gauge (411P).

Applications

- Chemical & petrochemical
- Power generation
- Refining & marine industry,
Low Pressure



Types:

Model	Description	Case & Ring	Wetted Parts
411P	Low Pressure	SS304/SS316	316 SS

Reference Accuracy

$\pm 1.5\%$ of Full Scale (Standard), $\pm 1.0\%$ of Full Scale (Option)

Scale Ranges

0 ~ 10BAR (Available in KPA, PSIG, KPA, KG/CM2,MM of H2O, IN of HG)

Pressure Connection

NPT $\frac{1}{2}$ "

— Diaphragm Sealed Pressure Gauge (501P,511P).

Applications

Specially designed for chemical, petrochemical, paper and food industry
All gaseous and liquid media
Corrode, Suspended solid, Viscous or Frozen medium
Shock & vibration application
Pumps, compressors and regulators
Refining & marine industry

Types:

501P - Direct Thread Diaphragm Sealed Pressure Gauges
503P - Remote Threaded Diaphragm Sealed Pressure Gauges
511P - Flat Flanged Diaphragm Sealed Pressure Gauges
571P - Low Pressure Diaphragm Seal Pressure Gauges

Dial Size

63MM, 100mm(4"), 115mm(4.5") , 150mm(6")

Case material

SS304, SS316, Phenolic

Scale Ranges

Vacuum, Compound, 0-1000BAR
(Units available in PSIG, KG/CM2, MPA, KPA)

Process Connection

Size: $\frac{1}{2}$ "NPT, $\frac{1}{4}$ "NPTM, $\frac{3}{4}$ "NPT, $\frac{1}{2}$ "- 3" Flanges

Flange rating: #150- #2500, API5000

Flange Finish: RF, FF, RTJ, API etc



Wetted parts:

Diaphragm : 316LSS, Monel, Hastelloy-C, Titanium, Tantalum, PTFE coating/lining

Under Flange : 304SS, 316SS, 316LSS, Monel, Hastelloy-C, Titanium, Tantalum

Optional Capillary Connection length:

0.5m to 6m

— Thermocouples & RTDs



- Sheathed RTD Sensor (110 Series)
- Sheathed Thermocouple Sensor (120 Series)
- Skin type Thermocouple sensor (180 Series)
- Multi-point Thermocouple (240 Series)

Gas Insertion Thermometer (301T)

Applications:

- Corrosive, Non-corrosive media
- Chemical process, petroleum food industry
- Machine and plant engineering
- Piping, pressure vessels and industrial heating

Standard Specification Overview

Dial Size

75mm, 100mm, 150mm

Reference Accuracy

±2.0% of Full Scale

Scale Ranges

-50 ~ 0 ~ 500°C.

Process Connection

PT ("R" in ISO) 1/2", NPT 1/2"

Stem Diameter: 8.0, 10.0 and 12.0mm.

Capillary Length: 1 m to 6 m

Material

Case & Cover : 304SS/316SS

Socket / Bulb : 304SS / 316SS

Stem:

304SS/316SS

Window: Safety Glass

Mounting Type: Bottom connection, Center Back connection



Differential Pressure Gauge (701P).

Applications

- Equipped two pressure connections
- Indicating low and high pressure
- Measuring differential pressure as well as liquid or flow levels
- Recommended to use 3-way/5-way valve manifold

Dial Size

150mm(6")

Mounting Type

P- Bottom Connection with 2" Pipe Mounting Bracket

W- Bottom Connection without Mounting Bracket

Reference Accuracy

± 1.5% of Full Scale, ± 1.0% of Full Scale (OPTIONAL)

Scale Ranges

0 ~ 10BAR (Available in KPA, PSIG, MPA, KG/CM2,MM of H2O, IN of HG)

Pressure Connection

PT("R" in ISO) 1/4",

NPT 1/4" NPT at 3-Valve Manifold

Wetted parts

SS316, Monel, Hastelloy C276

Add on: Available with Capillary (6m max) and Diaphragm Seal with Thread of Flanged Connections



Electric Contact Pressure Gauge (801P).

Applications

Refining & Marine Industry

Control and regulation of industrial process

Monitoring of plants switching of electric circuits

Indication of Limit value

Dial Size

100mm(4"), 150mm(6")

Mounting Type

B-Bottom Connection with back mounting flange

J-Lower back connection with 3-hole front mounting flange

Reference Accuracy

± 1.0% of Full Scale

Scale Ranges

0 ~ 1000BAR (Available in KPA, PSIG, MPA, KG/CM²)

Process Connection

½''NPT, 3/8''PT, PF

Wetted parts

SS316,

Contacts:

H, L, H & L, H&HH, L&LL

Contact Rating:

AC 110V, 05A / AC200V, 0.25A



Industrial Bottom Mount Thermometer (201T)

Applications:

- Corrosive media
- Chemical process, petroleum food industry
- Piping, pressure vessels and industrial heating

Standard Specification Overview

Dial Size

75mm, 100mm, 125mm, 150mm

Reference

Accuracy ±2.0% of Full Scale

Scale Ranges

-50 ~ 0 ~ 500°C

Process Connection

PT("R" in ISO) 1/2", NPT 1/2"

Material

Case: 304 SS/316SS

Stem: 304 SS/316SS

Window: laminated Safety Glass



Industrial Bottom Mount Thermometer (201T)

Applications:

- Corrosive media
- Chemical process, petroleum food industry
- Piping, pressure vessels and industrial heating



Standard Specification Overview

Dial Size

75mm, 100mm, 125mm, 150mm

Reference

Accuracy ±2.0% of Full Scale

Scale Ranges

-50 ~ 0 ~ 500°C

Process Connection

PT ("R" in ISO) 1/2", NPT 1/2"

Material

Case: 304 SS/316SS

Stem: 304 SS/316SS

Window: Glass

SF6 GAS DENSITY MONITOR (3700).

Applications

- Monitoring of the density of SF6 gas
- High and low Magnetic alarm analog contact

Dial Size

100mm (4"),

Mounting Type

B- Bottom Connection with back mounting flange

J- Lower back connection with 3-hole front mounting flange

Reference Accuracy

± 1.0% of Full Scale at 20DEGC, ± 2.5% of Full Scale at 60DEGC

Scale Ranges

-1 ~ 25BAR (Available in KPA, MPA, KG/CM2)

Process/Conduit Connection

G ½''/M20 x1.5P

Case: Aluminium Alloy

Contact: Normally Open, Normally Closed

Conduit position:

Back, 3 O'clock, 9 O' clock



Temperature Gauges



- General Service Bimetal Thermometer (121T)
- Industrial bottom mount Thermometer (201T)
- Adjustable type (Every angle) Thermometer (231T)
- Gas Insertion Thermometer (301T)

General Service Bimetal Thermometer (121T)

Applications:

- General Equipment Gauges.
- Low cost
- Providing Economical and Reliable Service.
- Designed for Non-Corrosive Media such as Gas, Oil or Water.
- Piping, pressure vessels and industrial heating

Standard Specification Overview Dial Size

75mm, 100mm



Reference Accuracy

±2.0% of Full Scale

Scale Ranges

-50 ~ 0 ~ 500°C

Process Connection

PT ("R" in ISO) 1/4", 1/2"

Mounting Location: Center Back, Direct.

Stem Diameter: 6.4mm

Material

Case: Chrome Plated Steel I (121T) (Cover) :

Chrome Plated Steel

(121T), 430 ss (123T) Connection : Chrome Plated Steel

Stem: 304 ss

Window: Glass