

 **SCHUH TECHNOLOGY**<sup>®</sup>  
Accuracy, Warranty and Quality



ACCURACY • WARRANTY • QUALITY

**SCHUH TECHNOLOGY** established in the early 1990 by a group of Germany engineers with highly commitments to provide **Accuracy, Warranty and Quality** instrumentation products and services, mainly pressure and temperature gauges. Since then, with our sincere desire to be the best, we continue our successful strategy by collaborating with our customers and partners to develop high-performance, safety and innovative ranges of products and services for most application.

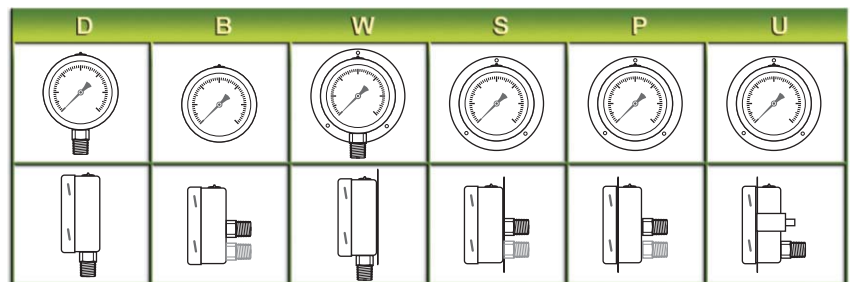
**SCHUH TECHNOLOGY** present, serves various major industries such as Oil & Gas, chemical plants, Petrochemical, Marine & offshore, Waste water treatment, Sewage, Power generation, Food & Beverage, Pulp & paper, HVAC, Building Automation, Hydraulic, Pneumatic and many more industries.

**SCHUH TECHNOLOGY** manufactures products according to quality assurance system ISO9001. All our products are fully tested and calibrated to assure 100% reliability. Simply, we make installation easy and performance dependable but without compromise in health and safety of the users.

## Main Feature

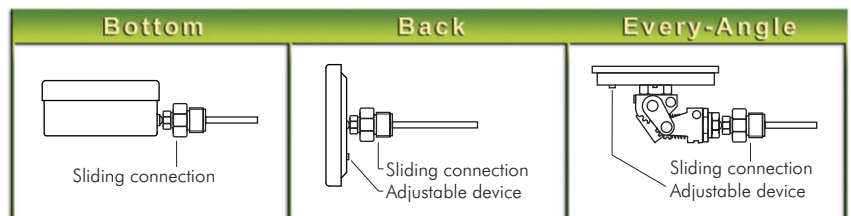
### Pressure Measurement

- Premium Quality and Warranty
- Knock-Down flange design (KDF)
- Double ranges dial standard
- Wide ranges application
- Wide ranges various optional
- Fast delivery time
- Competitive price !



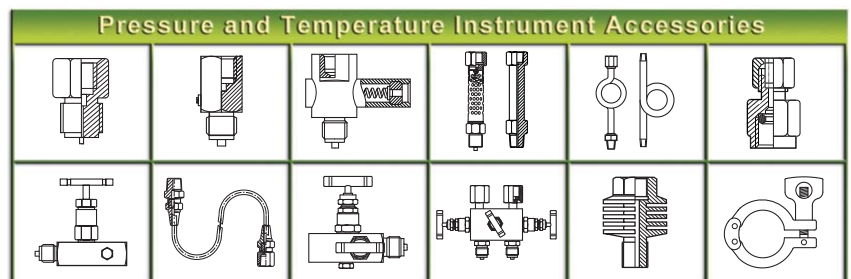
### Temperature Measurement

- Premium Quality and Warranty
- Remote, capillary or direct type
- Dual scale in °C & °F as standard
- Various sensor diameter 6 to 12 mm
- Capillary armoured protection standard
- Wide ranges application
- Competitive price !



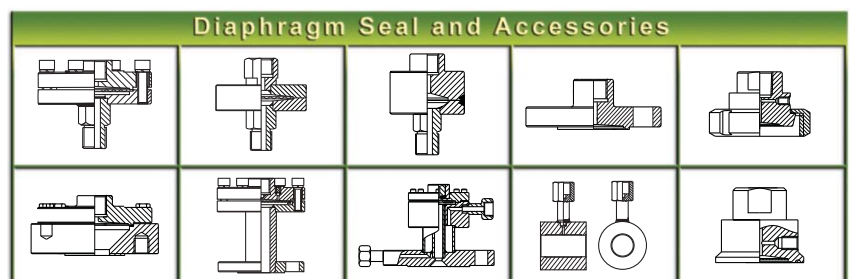
### Instrument Accessories

- Premium Quality and Warranty
- For isolating, cooling system, etc
- Thread size from G1/4" .. 1" or NPT
- Flange size to ANSI, DIN, JIS, etc
- Wide ranges design materials
- Different temperature application
- Competitive price !



### Diaphragm Seal

- Premium Quality and Warranty
- Threaded from 1/4" to 1" NPT or BSP
- Flange size to ANSI, DIN, JIS, etc
- Different temperature application
- Range from 10 mbar to 1000 bar
- Special design for specific application
- Competitive price !



### General Industrial Gauge



Model	CX Series	CP Series	SC Series
<b>Dial Size (Inch.)</b>	1½", 2", 2½", 4", 6", 8", 10"	2", 2½"	2", 2½", 4", 6"
<b>Accuracy Class</b>	KL 2.5 (Ø <4"), KL 1.6 (Ø ≥4")	KL 1.6	KL 1.6 (Ø <4"), KL 1.0 (Ø ≥4")
<b>Pressure Range</b>	Compound -1.. 24 bar Vacuum -1 bar ..0 Pressure 0.. 600 bar	Compound -1.. 24 bar Vacuum -1 bar ..0 Pressure 0.. 400 bar	Compound -1.. 24 bar Vacuum -1 bar ..0 Pressure 0..1000 bar
<b>Liquid Filling</b>	Dry gauge	Dry gauge	Dry or Liquid filled
<b>Connection Size</b>	⅛"NPT or BSP (Ø1½"..2") ¼" NPT or BSP (Ø2"..2½") ½" NPT or BSP (Ø4".. 10")	¼" NPT or BSP	¼" NPT or BSP (Ø2"..2½") ½" NPT or BSP (Ø4".. 10")
<b>Index Protection</b>	IP 32	IP 32	IP 65 (Weather tight)
<b>Operating Temperature</b>	Ambient -20°..+60°C Medium Max. +60°C	Ambient -20°..+60°C Medium Max. +60°C	Ambient -30°..+60°C (Dry) -20°..+60°C (Glycerine filled) -30°..+60°C (Silicone filled) Medium Max. +60°C
<b>Design Material</b>	Case-Bezel : Steel Sensing : Copper alloy Connection : Brass Window : Glass	Case-Bezel : Steel Sensing : Copper alloy Connection : Brass Window : Glass	Case-Bezel : SS304 Sensing : Copper alloy Connection : Brass Window : Glass
<b>Mounting</b>	(D) Bottom mounting (B) Back mounting (W) Wall mount, back flange (P) Panel mount, front flange (U) U-Clamp	(D) Bottom mounting (B) Back mounting	(D) Bottom mounting (B) Back mounting (W) Wall mounting (P) Panel mounting (U) U-Clamp

### All Stainless steel Pressure Gauge



**Restrictor  
Screw Std**

Reduce shock to the gauge to prevent any sudden pressure surges or oscillations happen



Model	SS Series	SX Series	SY Series
<b>Dial Size (Inch.)</b>	1½", 2", 2½"	4", 4½", 6", 8", 10"	2", 2½", 4", 6"
<b>Accuracy Class</b>	KL 1.6	KL 1.0	KL 1.6 (Ø <4"), KL 1.0 (Ø ≥4")
<b>Pressure Range</b>	Compound -1.. 24 bar Vacuum -1 bar ..0 Pressure 0..1000 bar (400 bar Ø<2½")	Compound -1.. 24 bar Vacuum -1 bar ..0 Pressure 0.. 400 bar	Compound -1.. 24 bar Vacuum -1 bar ..0 Pressure 0..1000 bar
<b>Liquid Filling</b>	Dry gauge	Dry gauge	Dry or Liquid filled
<b>Connection Size</b>	⅛"NPT or BSP (Ø1½"..2") ¼" NPT or BSP (Ø2"..2½")	¼" NPT or BSP	¼" NPT or BSP (Ø2"..2½") ½" NPT or BSP (Ø4".. 10")
<b>Index Protection</b>	IP 65 (Weather tight)	IP 65 (Weather tight)	IP 65
<b>Operating Temperature</b>	Ambient -30°..+60°C (Dry) -20°..+60°C (Glycerine filled) -30°..+60°C (Silicone filled) Medium Max. +60°C	Ambient -30°..+60°C (Dry) -20°..+60°C (Glycerine filled) -30°..+60°C (Silicone filled) Medium Max. +60°C	Ambient -30°..+60°C (Dry) -20°..+60°C (Glycerine filled) -30°..+60°C (Silicone filled) Medium Max. +60°C
<b>Design Material</b>	Case-Bezel : SS304 Sensing : SS304 Connection : SS316 Window : Toughened glass	Case-Bezel : SS304, *SS316 Sensing : SS304 Connection : SS316 Window : Glass, *Safety glass	Case-Bezel : SS304, *SS316 Sensing : SS304 Connection : SS316 Window : Glass, *Safety glass
<b>Mounting</b>	(D) Bottom mounting (B) Back mounting (W) Wall mounting (P) Panel mounting (U) U-Clamp	(D) Bottom mounting (B) Back mounting (W) Wall mounting (P) Panel mounting (U) U-Clamp	(D) Bottom mounting (B) Back mounting (W) Wall mounting (P) Panel mounting (U) U-Clamp



### Industrial capsule pressure Gauge



**Best Quality Capsule with best construction Capsule Gauge**



Reduce shock to the gauge to prevent any sudden pressure surges or oscillations happen

Model	SLS Series	SL Series
<b>Dial Size (Inch.)</b>	2½", 3", 4", 6"	2½", 3", 4", 6"
<b>Accuracy Class</b>	KL 2.5 (Ø <4"), KL 1.6 (Ø ≥4")	KL 2.5 (Ø <4"), KL 1.6 (Ø ≥4")
<b>Pressure Range</b>	Compound -200..+400 mbar Vacuum -600 mbar ..0 Pressure 0..16 up to 600 mbar	Compound -200..+400 mbar Vacuum -600 mbar ..0 Pressure 0..16 up to 600 mbar
<b>Liquid Filling</b>	Dry gauge	Dry gauge
<b>Connection Size</b>	¼" NPT or BSP (Ø2½"..3") ⅜" NPT or BSP (Ø3") ½" NPT or BSP (Ø4".. 10")	¼" NPT or BSP (Ø2½"..3") ⅜" NPT or BSP (Ø3") ½" NPT or BSP (Ø4".. 10")
<b>Index Protection</b>	IP 32	IP 44
<b>Operating Temperature</b>	Ambient -10°..+70°C Medium Max. +90°C	Ambient -10°..+70°C Medium Max. +90°C
<b>Design Material</b>	Case-Bezel : Black painted steel Capsule : Cupreous alloy Connection : Brass Window : Glass	Case-Bezel : SS304 Capsule : Copper alloy Connection : Brass Window : Glass
<b>Mounting</b>	(D) Bottom mounting (B) Back mounting (W) Wall mount, back flange (P) Panel mount, front flange (S) Surface mount, back flange	(D) Bottom mounting (B) Back mounting (W) Wall mount, back flange (P) Panel mount, front flange (S) Surface mount, back flange

### All Stainless steel capsule pressure Gauge



Model	SL1 Series	SLX Series	SY Series
<b>Dial Size (Inch.)</b>	2½", 3", 4", 6"	2½", 4", 6"	4", 6"
<b>Accuracy Class</b>	KL 2.5 (Ø <4"), KL 1.6 (Ø ≥4")	KL 2.5 (Ø <4"), KL 1.6 (Ø ≥4")	KL 1.6
<b>Pressure Range *Ø</b>	Compound -200..+400 mbar Vacuum -600 mbar ..0 Pressure 0..10* up to 600 mbar	Compound -200..+400 mbar Vacuum -600 mbar ..0 Pressure 0..10* up to 600 mbar	0..16 to 250 mbar (Diaph. Ø160mm) 0..400 mbar to 25 bar (Diaph. Ø100mm) Vacuum and Compound ranges
<b>Liquid Filling</b>	Dry or Liquid filled (P≥160 mbar)	Dry or Liquid filled (P≥60 mbar)	Dry execution
<b>Connection Size</b>	¼" NPT or BSP (Ø2½"..3") ⅜" NPT or BSP (Ø3") ½" NPT or BSP (Ø4".. 10")	¼" NPT or BSP (Ø2½") ½" NPT or BSP (Ø4".. 6")	½" NPT or BSP
<b>Index Protection</b>	IP 65 (Weather tight)	IP 65 (Weather tight)	IP 54
<b>Operating Temperature</b>	Ambient -10°..+70°C (Dry) -20°..+70°C (Glycerine filled) -20°..+80°C (Silicone filled) Medium Max. +100°C	Ambient -10°..+70°C (Dry) -20°..+70°C (Glycerine filled) -20°..+80°C (Silicone filled) Medium Max. +100°C	Ambient -10°..+70°C Medium Max. +100°C
<b>Design Material</b>	Case-Bezel : SS304 Capsule : SS316 Connection : Brass Window : Glass	Case-Bezel : SS316 Capsule : SS316 Connection : SS316 Window : Safety glass	Case-Bezel : SS304 Diaphragm : SS316L Connection : SS316 Window : Glass
<b>Mounting</b>	(D) Bottom mounting (B) Back mounting (W) Wall mount, back flange (P) Panel mount, front flange (S) Surface mount, back flange	(D) Bottom mounting (B) Back mounting	(D) Bottom mounting

### Safety Pattern with blow out back safety



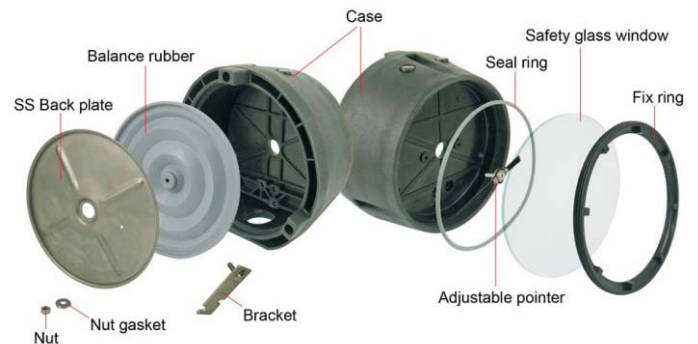
Model	GS550 Series	GS551 Series	SL550 Series
<b>Dial Size (Inch.)</b>	4½"	4½"	4½"
<b>Accuracy Class</b>	±0.5 of span (ASME B40.100 Grade 2A)	±0.5 of span (ASME B40.100 Grade 2A)	±2%-1%-2% (ASME B40.100 Grade A)
<b>Pressure Range</b>	Compound -1.. 24 bar Vacuum -1 bar ..0 Pressure 0.. 1000 bar	Compound -1.. 24 bar Vacuum -1 bar ..0 Pressure 0.. 1000 bar	Compound -200..+400 mbar Vacuum -600 mbar ..0 Pressure 0..10 to 600 mbar
<b>Liquid Filling</b>	Dry and Liquid filled	Dry and Liquid filled	Dry
<b>Connection Size</b>	½" NPT or BSP	½" NPT or BSP	½" NPT or BSP
<b>Index Protection</b>	IP 66 or NEMA 4X (Weather tight)	IP 66 or NEMA 4X (Weather tight)	IP 65 or NEMA 4X (Weather tight)
<b>Operating Temperature</b>	Ambient -30°..+80°C (Dry) -10°..+60°C (Glycerine filled) -30°..+60°C (Silicone filled) Medium Max. +100°C	Ambient -30°..+80°C (Dry) -20°..+60°C (Glycerine filled) -30°..+60°C (Silicone filled) Medium Max. +100°C	Ambient -20°..+70°C (Dry) Medium Max. +80°C
<b>Design Material</b>	Case-Bezel : Polypropylene Blow out plate : Polypropylene Sensing : SS316 Connection : SS316L Window : Safety glass	Case-Bezel : Phenolic Blow out plate : Polypropylene Sensing : SS316 Connection : SS316L Window : Safety glass	Case-Bezel : Polypropylene Blow out plate : Polypropylene Sensing : SS316 Connection : SS316L Window : Safety glass
<b>Mounting</b>	(W) Wall mount, back flange (B) Back mounting	(W) Wall mount, back flange (B) Back mounting	(W) Wall mount, back flange (B) Back mounting

### Stainless steel Safety Pattern Gauge



Model	SX550 Series
<b>Dial Size (Inch.)</b>	4½"
<b>Accuracy Class</b>	KL 1.0 of Full Scale, *KL 0.5
<b>Pressure Range</b>	Compound -1.. 24 bar Vacuum -1 bar ..0 Pressure 0..1000 bar
<b>Liquid Filling</b>	Dry or liquid filled
<b>Connection Size</b>	½" NPT or BSP
<b>Index Protection</b>	IP 65 (Weather tight)
<b>Operating Temperature</b>	Ambient -30°..+60°C (Dry) -20°..+60°C (Glycerine filled) -30°..+60°C (Silicone filled) Medium Max. +100°C
<b>Design Material</b>	Case-Bezel : SS316, Blow Out Back (BOB) Sensing : SS316 Connection : SS316 Window : Safety glass
<b>Mounting</b>	(D) Bottom mounting (B) Back mounting (P) Panel mounting, front flange

### Safety gauge structure



**Restrictor  
Screw Std**

Reduce shock to the gauge to prevent any sudden pressure surges or oscillations happen



**Safety  
Gauge**

Blow-Out-Back (BOB)  
Laminated Safety Glass  
Internal Overrange Protector



**Blow-Out-  
Back (BOB)**

Blowout protection to prevents release of any process medium out the case front or face



IP65



Class 0.5-1.0



**High Pressure  
up to 1000 bar**



## Differential Pressure Gauge

### FF500 Series

- Double bourdon tube system
- Accuracy class 1.6 (P>1 bar), 2.5 (1 bar)
- Dial size 4", parallel dual connection
- Pressure range 0..1 bar up to 60 bar
- Index protection IP45, dry gauge
- Connection size 1/2" NPT or BSP
- Ambient temp. -20°..+60°C
- Medium temp. Max. +60°C
- Direct (D), panel (P) & Wall mount (W)
- Design material :
 

Casing/bezel	: SS304
Sensing element	: Copper alloy
Connection	: Copper alloy
Window	: Instrument glass



### SF500 Series

- All stainless steel double bourdon tube
- Accuracy class 1.6 (P>1 bar), 2.5 (1 bar)
- Dial size 4", parallel dual connection
- Pressure range 0..1 bar up to 60 bar
- Index protection IP45, dry gauge
- Connection size 1/2" NPT or BSP
- Ambient temp. -20°..+60°C
- Medium temp. Max. +60°C
- Direct (D), panel (P) & Wall mount (W)
- Design material :
 

Casing/bezel	: SS304
Sensing element	: SS316
Connection	: SS316
Window	: Instrument glass



### FH511 Series

- Magnetic operating mechanism
- Accuracy ±2% of Full scale differential
- Dial size 2", 3 1/2", 4", 4 1/2" and 6"
- Pressure range 0..1 psi up to 60 psi
- Mounting : Bottom, Back and In-Line
- Connection size 1/4"NPT or BSP Female
- Process temperature Max. +80°C
- Static pressure Max. 1500 psi
- Direct (D), panel (P) & Wall mount (W)
- Design material :
 

Body	: Aluminum/Brass
O-Ring/Diaphragm	: Buna-N
Case	: SS304/SS316
Window	: Glass/Safety glass



### FH512 Series

- Magnetic operating mechanism
- Accuracy ±2% of Full scale differential
- Dial size 2", 3 1/2", 4", 4 1/2" and 6"
- Pressure range 0..1 psi up to 60 psi
- Mounting : Bottom, Back and In-Line
- Connection size 1/4"NPT or BSP Female
- Process temperature Max. +80°C
- Static pressure Max. 1500 psi
- Direct (D), panel (P) & Wall mount (W)
- Design material :
 

Body	: SS304/SS316
O-Ring/Diaphragm	: Buna-N
Case	: SS304/SS316
Window	: Glass/Safety glass



### FX Series

- High static pressure measurement
- Dial size 4" and 6", Liquid fillable
- Pressure range 0..25 mbar up to 25 bar
- Bottom, Surface, Wall and 2" Pipe mount
- Conn. size 1/2"NPT or BSP Male/Female
- Index protection IP65 Weather proof
- Accuracy class 2 1/2%, \*Class 1.6%
- Ambient temperature -20°..+60°C
- Medium temperature Max.+120°C
- Static pressure Max. 100 bar/1500 psi
- Design material :
 

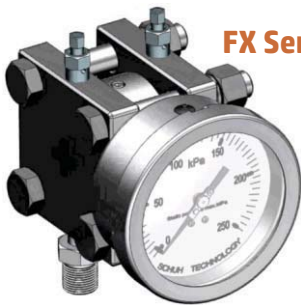
Casing	: SS304, *SS316
Wetted part	: SS316
Measure cell	: SS316
Window	: Glass, *Safety glass



### FH510 Series

- Magnetic piston differential gauge
- Dial nominal size 4 1/2" (114 mm)
- Pressure range 0..30 Pa up to 30 kPa
- Surface, Panel bracket and Pipe mount
- Conn. size 1/8"NPT Female, both taps
- Ingress protection NEMA 3/IP 54
- Accuracy class 2.0% of Full Scale
- Ambient temperature 0..+60°C
- Medium temperature Max.+100°C
- Design material :
 

Housing	: Die cast aluminum
Press. element	: SS316
Magnetic piston	: SS316
Window	: Curved clear acrylic



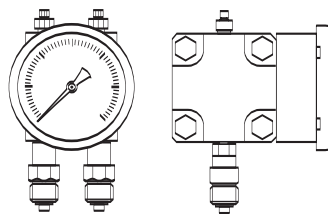
### FX Series



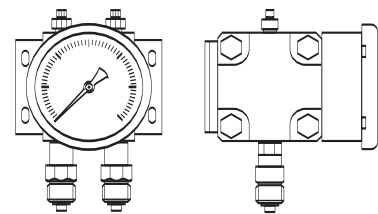
Complete  
Mounting



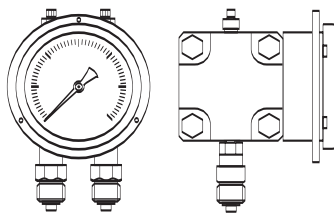
Static Press  
100 Bar



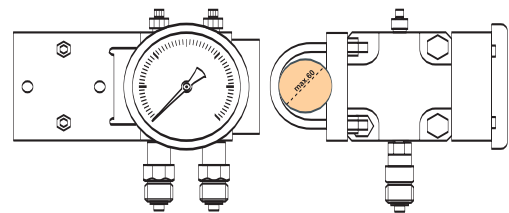
Type D - Direct Bottom mounting



Type S - Surface mounting with Clamp



Type P - 3 Fixing holes back panel mount flush



Type 2 - 2" pipe mounting vertical or horizontal





## Pressure Gauge with Contact

### SAA500 Series

- Snap action magnetic contact pressure gauge
- Accuracy class 1.6 of Full Scale
- Dry type contact pressure gauge
- Contact set accuracy class 4.0
- Dial size 4" and 6"
- Pressure range -1.0, 0.1 bar up to 600 bar
- Ingress protection IP54, dry gauge
- Connection size 1/2" NPT or BSP
- Ambient temp. -10°..+60°C
- Medium temp. Max. +80°C
- Direct (D) and Back mount (B)
- Design material :
  - Casing/bezel : Chromed steel
  - Wetted parts : Copper alloy
  - Window : Polycarbonate



### SE Series

- All stainless steel contact pressure gauge
- Electric, Magnetic and Inductive contact
- Dry type or Liquid fillable gauge
- Accuracy class 1.6 of Full Scale
- Contact set accuracy class 4.0
- Dial size 4" and 6", BOB (Blow-Out-Back)
- Pressure range -1.0, 0.1 bar up to 1000 bar
- Ingress protection IP54 (Dry), IP65 (Filled)
- Connection size 1/2" NPT or BSP
- Ambient temp. -20°..+60°C
- Medium temp. Max. +80°C
- Direct (D), Back (B), Wall (W), Panel mount (P)
- Design material :
  - Casing/bezel : SS304
  - Wetted parts : SS316
  - Window : Glass, with adjuster



### EC Series (Accessories)

- Portable contact gauge
- Applicable for 4" pressure gauge
- Dry type contact gauge case
- Designed for SC-SX500, PY-PX40
- Contact characteristics :
  - Contact set accuracy Class 4.0
  - 1 or 2 contacts function
  - Magnetic and Electric contact
  - Working voltage 380 or 220 VAC
  - Max. current 1A, contact power 30 VA



### SES Series

- Diaphragm low pressure contact gauge
- Electric, Magnetic and Inductive contact
- Dry type contact pressure gauge
- Accuracy class 1.6 or 2.5 (P<250 mbar)
- Contact set accuracy class 4.0
- Dial size 4" and 6", \*BOB (Blow-Out-Back)
- Pressure range 0.40 mbar up to 25 bar
- Or all equivalent vacuum, compound ranges
- Ingress protection IP54 (Dry) to IEC/EN 60529
- Ambient/Medium temp. -20°..+60°C/Max. +100°C
- Connection size 1/2" NPT or BSP Direct mount (D)
- Design material :
  - Casing/bezel : SS304
  - Wetted parts : SS316
  - Window : Glass, with adjuster



	1 Contact Control Function		2 Contacts Control Function			
Magnetic Snap-action Electric Contact	<b>Type O</b> Contact open above set point 	<b>Type C</b> Contact close above set point 	<b>Type OC</b> 1st contact open & 2nd contact close above set point 	<b>Type CO</b> 1st contact close & 2nd contact open above set point 	<b>Type OO</b> 1st contact open & 2nd contact open above set point 	<b>Type CC</b> 1st contact close & 2nd contact close above set point 
	<b>Type IC</b> Contact close above set point 	<b>Type IO</b> Contact open above set point 	<b>Type 2C</b> 1st contact close & 2nd contact close above set point 	<b>Type 2O</b> 1st contact open & 2nd contact open above set point 	<b>Type CF</b> 1st contact close & 2nd contact open above set point 	<b>Type OF</b> 1st contact open & 2nd contact close above set point 

## Mechanical Precision Test Gauge

### SR750 Series

- Dial 6", Black enamel steel case test gauge
- External Calibration Device (ECD)
- Parallax mirror dial range reading
- Knife edge pointer design
- Accuracy Class 0.5 or Class 0.25
- Press. range -1.0, -1..+24 to 0..1000 bar
- Conn. size 1/2"NPT or BSP Male/Female
- Index protection IP43
- Ambient/Medium temp -20°..+60°C/Max.80°C
- Design material :
  - Casing : Black enamel steel
  - Wetted part : Copper alloy
  - Window : Glass



### ST750 Series

- Dial 6", All stainless steel test gauge
- External Calibration Device (ECD)
- Parallax mirror dial range reading
- Knife edge pointer design
- Accuracy Class 0.5 or Class 0.25
- Press. range -1.0, -1..+24 to 0..1600 bar
- Conn. size 1/2"NPT or BSP Male/Female
- Index protection IP43
- Ambient/Medium temp -20°..+60°C/Max.80°C
- Design material :
  - Casing : SS304
  - Wetted part : SS316
  - Window : Glass



# “ FEEL THE MOST PRECISION, SUPPORT AND SERVICES ”



## QUALITY

Over pressure test  
Hydro static test  
Fatigue test  
Leak test



## SERVICES

Product training  
Parts warranty  
Customid design  
Biggest stockist



## SUPPORT

Competitive price  
Fast delivery  
Technical support  
National coverage



## OUR TECHNOLOGIES



**DN Size**  
1.5" - 10"

Design diameter casing from 1½" to 10" (40 to 250 mm).  
Various material from Steel, SS304, SS316, Polypropylene and Phenolic.



**DCS Sizes**  
DN25-DN75

Various Diaphragm seal diameter size from 40 up to 97 mm.  
Pressure range 0..1 up to 600 bar  
Highest pressure in its class.



**Wide Range**  
Flange Sizes

Wide selection flange size and rating following DIN EN1092-1, ASME B16.5, JIS B2220 or other standard available on request.



**Diaphragm P**  
up to 600 bar

With selected material, diaphragm workable up to 600 bar, highest pressure range in it's class.



**PTFE Coat**  
& Lining

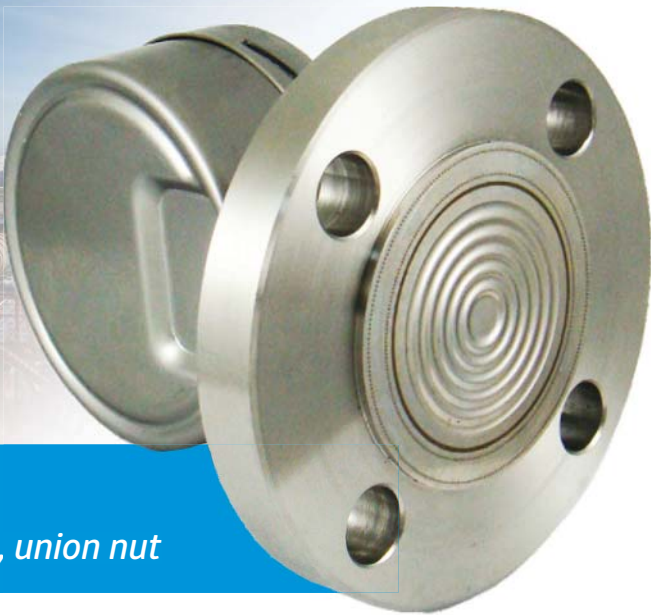
Selection of PTFE coating and lining for Wetted parts or diaphragm.....



**Double laser**  
weld diaphragm

Double line diaphragm laser welding to provide high pressure range and accurate reading.





# DCS Diaphragm seal

Threaded, flanged, clamp, male, union nut

## Diaphragm P up to 400 bar

With selected material, diaphragm workable up to 400 bar, highest pressure range in it's class.

## PTFE Coat & Lining

Selection of PTFE coating and lining for Wetted parts or diaphragm.....

## Double laser weld diaphragm

Double line diaphragm laser welding to provide high pressure range and accurate reading.



Diaphragm P up to 160 bar

### DCS122 - Heavy Duty Threaded DCS

- Direct threaded design, strong body design
- 2 Piece construction, applicable mostly process
- Process connection size 1/4", 1/2", 3/4" and 1"NPT
- Instrument connection size 1/4" and 1/2"NPTF
- Diaphragm SS316L, FKM, Tantalum, Titanium, etc
- Option diaphragm PTFE coating
- Process temp. -30°..+120°C depend on filling
- Accessories capillary, cooling tower.. etc
- Working pressure range 0..2.5 up to 160 bar
- Option Integrated flushing ring 1/4" and 1/2"NPTF



Diaphragm P up to 400 bar

### DCS103 - Mini Threaded (Up to 400Bar)

- Direct threaded mini body design
- 2 piece construction with welded body
- Connection size G1/2" or NPT
- Diaphragm SS316L, Titanium, Tantalum.. etc
- Option diaphragm PTFE coating
- Media temp. -30°..+150°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range DCS103A -1..+4 bar  
DCS103B 0.. 6 to 70 bar  
DCS103C 0..100 to 400 bar



### DCS101 - Direct Threaded

- Direct threaded design
- Double laser welding diaphragm
- Wide ranges corrosive application
- Connection size 1/2", 3/4", 1" BSP or NPT
- Diaphragm SS316L, Titanium, Tantalum.. etc
- Option diaphragm PTFE coating, lining.. etc
- Viton seal ring, other material available
- Media temp. -30°..+150°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, -1..+60 to 0..400 bar

Diaphragm -1 to +400 bar



### DCS104 - Flushing System

- Direct threaded with air vent
- Double laser welding diaphragm
- High temperature and corrosive application
- Pipe connection, specific connection available
- Diaphragm SS316L, Titanium, Tantalum.. etc
- Option diaphragm PTFE coating, lining.. etc
- Viton seal ring, other material available
- Media temp. -30°..+150°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, -1..+24, 0..60 bar

Diaphragm -1..60 bar



### DCS209 - Flanged End Blind Hole

- Flanged end diaphragm seal
- Double laser welding diaphragm
- Wide ranges corrosive application
- Flange end to DIN 2501 or ANSI B1.20
- Diaphragm SS316L, Titanium, Tantalum.. etc
- Option diaphragm PTFE coating, lining.. etc
- Viton seal ring, other material available
- Media temp. -30°..+150°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, -1..+60 to 0..100 bar

Diaphragm -1 to +100 bar



- Diaphragm P up to 400 bar
- HEAVY DUTY Heavy duty Application

### DCM110 - Heavy Duty Threaded

- Mini threaded diaphragm seal, PN25
- Stainless steel jacket and protection
- Corrosive media and gaseous application
- Welded body with integral diaphragm
- Conn. size 1/2" BSP or NPT Male/Female
- Welded SS316L diaphragm seal
- Process temperature -10°..+150°C
- Ambient temperature -10°..+40°C
- Pressure range 0..10 up to 400 bar

Double laser weld diaphragm



### DCM120



Cleaning Device



Diaphragm P up to 400 bar

### DCM120/DCM130 (Cleaning Device)

- Diaphragm cleaning device \*(DCM120)
- Mini threaded diaphragm seal, PN400
- High press. process industrial environment
- Welded body with integral diaphragm
- Conn. size 1/4" and 1/2" BSP/NPT Male/Female
- Welded SS316L diaphragm seal
- Process temperature -10°..+150°C
- Ambient temperature -10°..+40°C
- Pressure range -1..0 bar to 0..400 bar

**DCS**

## Diaphragm seal

Sanitary Threaded Coupling, Clamping, Homogenizer



Food & Beverage  
Sanitary Industries



DN Sizes  
DN25-DN50



Double laser  
weld diaphragm

### DCS510 - Sanitary Union Nut

- Sanitary union nut diaphragm seal
- Standard DIN 11851, SMS 1145.. etc
- Wide range hygienic process application
- Double laser welding SS316L diaphragm
- Sterilization and Cleaning in place
- Non-toxic diaphragm filling
- Process temp. -10°..+130°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, 0..1 up to 40 bar
- Conn. size DIN DN25..DN80, SMS 1 1/2".."2"
- Wetted parts SS316 standard



### DCS510 - Sanitary Clamping

- Sanitary clamping fastening diaphragm seal
- Standard ISO 2852, DIN 32676
- Wide range hygienic process application
- Double laser welding SS316L diaphragm
- Sterilization and Cleaning in place
- Non-toxic diaphragm filling
- Process temp. -10°..+130°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, 0..1 up to 40 bar
- Conn. size DIN DN32..DN50, ISO 1 1/2".."2"
- Wetted parts SS316 standard



### DCS51X - Sanitary Male Thread

- Sanitary male thread diaphragm seal
- Standard DIN 11851, SMS 1145.. etc
- Wide range hygienic process application
- Double laser welding SS316L diaphragm
- Sterilization and Cleaning in place
- Non-toxic diaphragm filling
- Process temp. -10°..+130°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, 0..1 up to 40 bar
- Conn. size DIN DN25..DN80, SMS 1 1/2".."2"
- Wetted parts SS316 standard



### DCS850 - Homogenizer Sanitary

- Homogenizer sanitary diaphragm seal
- Special design for homogenizing industries
- Homogenizer block flange mounting design
- Stainless steel wetted part and construction
- Designed flush diaphragm welded to body
- USP Grade glycerine diaphragm filling
- Ambient temperature -10°..+40°C
- High pressure application diaphragm seal
- Pressure range 0..100 bar to 0..600 bar
- Available various supporting accessories



Diaphragm P up to 600 bar

**DCS**

## Diaphragm seal

In-line and Extended Sensor

### DCS850 - In-Line Diaphragm Seal

- On-line pipe diaphragm seal (No dead volume)
- Pipeline direct permanent and flowing application
- Specific construction available on request
- Diaphragm SS316L, other material available
- Body material stainless steel construction
- Process temp. -10°..+200°C depend on filling
- Accessories capillary, cooling tower.. etc
- Diaphragm option material or coating
- Pressure range 0..1 to 0..40 bar
- Connection to flange standard
  - ASME B16.5 Size 1".."6"
  - EN 1092-1 DN25.. DN150



In-Line type  
Connection

### DCS710 - Extended Sensor Type

- Flanged process with Extended diaphragm seal
- Design for chemical, isolated and tank application
- Extended diaphragm length 50.. 200 mm
- Wetted parts SS316L, other materials available
- Flush diaphragm SS316L, double laser welded
- Process temp. -10°..+200°C depend on filling
- Accessories capillary, cooling tower.. etc
- Diaphragm option coating or lining
- Pressure range 0..0.6 to 0..400 bar
- Connection to flange standard
  - ASME B16.5 Size 1".."6"
  - EN 1092-1 DN25.. DN150



Diaphragm P up to 400 bar





# DCS Diaphragm seal

## Flanged End and Flush Diaphragm



### DCS300 - Flanged Diaphragm Seal

- Flanged end diaphragm seal
- Double laser welding diaphragm
- Wide ranges corrosive application
- Flange end to DIN 2501, ANSI B1.20.1.. etc
- Flanged to ASME B16.5, DN 1/2"-.4", Rate 150..2500
- Diaphragm SS316L, Titanium, Tantalum.. etc
- Option diaphragm PTFE coating, lining.. etc
- Viton seal ring, other material available
- Media temp. -30°..+240° depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, -1..+24 to 0..400 bar

DN25..DN50  
PN10..PN400

PTFE Coat & Lining



### DCS200 - Flush Diaphragm Seal

- Flanged end diaphragm seal
- Double laser welding diaphragm
- Wide ranges corrosive application
- Flange end to DIN 2501, ANSI B1.20.1.. etc
- Flanged to ASME B16.5, DN 1"-.4", Rate 150..2500
- Diaphragm SS316L, Titanium, Tantalum.. etc
- Option diaphragm PTFE coating, lining.. etc
- Viton seal ring, other material available
- Media temp. -30°..+240°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, -1..+24 to 0..250 bar

DN40..DN125  
PN10..PN250

PTFE Coat & Lining



### DCS401 - Mini Flush Diaphragm Seal

- Threaded flush diaphragm seal
- Wide ranges standard corrosive application
- Female instrument conn. 1/4"-.1/2"NPT or BSP
- All welded system, suitable for high pressure
- Diaphragm SS316L welded to body
- Media temp. -20°..+150°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range 0..16 bar to 0..600 bar
- Male pipe thread :
  - Size 1/2"
  - Size 3/4"
  - Size 1"
  - Size 1 1/2"



Diaphragm P  
4 to 600 bar

### DCS330V - Air-Vent Diaphragm Seal

- Integral Air-Vent for cooling/heating system
- Flanged to ASME B16.5, DN 2"-.4", Rate 150..1500
- Double laser welding diaphragm
- Wide ranges corrosive application
- Flange end to DIN 2501, ANSI B1.20.1.. etc
- Diaphragm SS316L, Titanium, Tantalum.. etc
- Option diaphragm PTFE coating, lining.. etc
- Viton seal ring, other material available
- Media temp. -30°..+240°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, -1..+24 to 0..400 bar

DN50..DN125  
PN10..PN400

PTFE Coat & Lining

### DCS402 - Xtend Flush Diaphragm Seal

- Threaded flush diaphragm seal
- Wide ranges standard corrosive application
- Design for contaminated, viscous pressure
- Female instrument conn. 1/4"-.1/2"NPT or BSP
- Diaphragm SS316L welded to body
- Various diaphragm material
- Media temp. -20°..+150°C depend on filling
- Accessories capillary, cooling tower.. etc
- Option diaphragm PTFE coating, lining.. etc
- Pressure range 0..1 bar to 0..200 bar
- Male running nut
  - Size 1", 1 1/4", 1 1/2", 2" BSP or NPT

Diaphragm P  
up to 200 bar





#### DVC103 - PVC Diaphragm Seal

- Threaded type diaphragm seal
- Plastic body construction design
- Suitable for waste water application
- Contaminated instrument protection
- Connection size G½" and ½"NPT
- PTFE diaphragm seal
- Process temperature -20°..+60°C
- Pressure range -1..15, 0..1 to 16 bar
- Design body material :  
DVC103 PVC upper and lower body  
DVC105 PTFE upper and lower body



#### DVC102 - PVC Diaphragm Seal

- Threaded PVC body diaphragm seal
- Stainless steel upper body design
- Contaminated instrument protection
- Connection size G½" and ½"NPT
- SS316L diaphragm seal with PTFE foil
- Process temperature -20°..+60°C
- Pressure range -1..15, 0..1 to 16 bar



#### DVC105 - PVC Diaphragm Seal

- PVC diaphragm seal with body protector
- Plastic body construction design
- Suitable for waste water application
- Contaminated instrument protection
- Connection size G½" or ½"NPT Female
- VITON diaphragm seal
- Process temperature -20°..+60°C
- Pressure range 0..2.5 bar to 0..7 bar

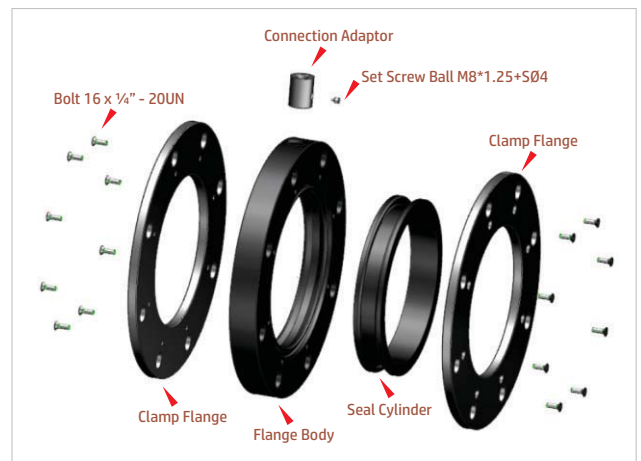


## Isolation Ring

*Wafer Style, Full Flange and Threaded type*

#### IR080 - Isolation Ring

- Various materials to meet clients' requirement
- Isolation for gauges or switches from solids in process flow
- To ensure accurate pressure readings
- Special swivel ring for easy instruments installation or calibration
- Compliance to ASME B40.100
- Designed for water treatment, oil&gas, paper&pulp and industrial
- Pipe Inner diameter size 1" up to 48" (25.. 1220 mm)
- Construction material SS316 and Carbon steel
- Various End plates materials  
SS 316  
Hastelloy C  
Titanium  
Acetal  
PTFE
- Elastomer (Sleeve) designed materials  
Nitrile/Buna N (-30° to 80°C)  
Neoprene (-30° to 100°C)  
EPDM (-30° to 150°C)  
PTFE (-40° to 200°C)  
FKM (-20° to 200°C)  
Natural Rubber (-45° to 100°C)
- Filling Fluids  
Silicone -40° to 260°C (-40° to 500°F)  
Glycerine -18° to 204°C (0° to 400°F)  
Glycerine-Water (80:20) -9° to 107°C (15° to 225°F)



Various Exotic materials design :  
SS316, Hastelloy C, Titanium,  
PTFE, Acetal, UHMW ..



Pipe ID 1"-.48" (25..1220 mm)  
For other Sizing, available on  
Special custom or request !



## Accessories / Instrument Valves



### AD Series - In-line Check Valve

- Instrument flow direction control
- Stainless steel wetted parts, optional brass
- Max. working pressure 125, 400 and 700 bar
- Conn. type Female x Male, Female x Female
- Conn. size G $\frac{1}{4}$ ",  $\frac{1}{4}$ "NPT, G $\frac{1}{2}$ " and  $\frac{1}{2}$ "NPT



### AO Series - Overrange Protector

- Adjustable pressure device at body
- Stainless steel body construction
- Selectable 6 working pressures, max. 600 bar
- Operating temperature maximum +80°C
- Conn. size G $\frac{1}{2}$ " or NPT, other size available



Brass



Stainless steel

### AN Series - Adjustable Snubber

- Gauge protector from pressure pulses & peaks effect
- Stainless steel 1-piece body with adjustable spindle
- Maximum working pressure 400 bar
- Connection size  $\frac{1}{2}$ " BSP or NPT, other sizes available
- Option Brass material, max. working press 250 bar



### AF Series - Knock-down Flange

- Easy installation in-field with pressure tool
- Special design for panel mount IP protection
- Design for 2 $\frac{1}{2}$ ", 4" and 6" pressure gauge
- Panel mount and surface mount flange
- Flat-Face (FF) and Raised-Face (RF) design



### AB Series - Connection Adapter

- Pressure gauge installation adaptor and fitting
- Material brass, SS304 and SS316(L)
- Conn. type Female x Male, F x F, M x M, etc
- Conn. size BSP or NPT:  $\frac{3}{8}$ ",  $\frac{1}{4}$ ",  $\frac{1}{2}$ ",  $\frac{3}{4}$ ", 1", etc
- Compression fitting for thermometer application



### AZ Series - Clamping Ring

- Compatible with clamping ISO and DIN standard
- Size DCS551 and DCS552 size 1 $\frac{1}{2}$ " and 2"
- Silicone rubber seal and below welded part
- Stainless steel clamping and welded part



### AP Series - Case Protector

- Contaminated area application
- Rubber material design, anti-slip side
- For pressure gauge dial 2 $\frac{1}{2}$ " and 4"



### AV Series - Angle Valve

- Special instrument angle tube device
- Stainless steel construction body
- Conn. size  $\frac{1}{2}$ " BSP or NPT, other size available



### AX Series - PG Memory Pointer

- Pressure gauge memory with resetable knob
- Plastic pointer with stop-handle install at window
- Design for gauge dial 4" and 6"



### FR Series - DCS Flushing Ring

- Diaphragm seal flushing solution
- Flush connection  $\frac{1}{4}$ " and  $\frac{1}{2}$ " BSP or NPT Female
- Design with 1 or 2 flushing ports
- Flanged to ASME B16.5, EN 1092-1 or JIS B2220
- Flange size from 1 $\frac{1}{2}$ "..4", rating Class 150..2500
- Material SS316L, Monel 400, Hastelloy C, Duplex, etc

### EC Series - Portable Contact

- Portable contact gauge accessories
- Suitable for in-field use contact device
- Applicable for 4" / 100 mm gauge
- Design for SC500 and SX500 Series
- Contact characteristics :
  - Dry gauge execution
  - Contact set accuracy Class 4.0
  - 1 or 2 contacts function
  - Magnetic & Electric contact
  - Voltage 380/220 VAC
  - Maximum current 1A
  - Contact power 30VA





## Accessories / Instrument Valves



### AE100 Series - Needle Valve

- Instrument isolation needle valve
- Design wetted parts SS316 or Carbon steel
- DELRIN seat, TEFLON back-up ring, NBR dust cap
- Design working press. 6000 psi and 10000 psi
- Conn. type Female x Male, Female x Female
- Connection size 1/4" or 1/2" BSP or NPT



### AE120 Series - Needle Valve

- One-piece straight body with hard seat
- Design wetted parts SS316 or Carbon steel
- PTFE/Graphite gland packing, Nylon dust cap
- Design working press. 6000 psi and 10000 psi
- Conn. type Female x Male, Female x Female
- Connection size 1/4", 1/2", 3/8", 3/4", 1" BSP or NPT



### AE220 - Needle Valve with bleed

- Straight body needle valve with bleed
- Design wetted parts SS316 or Carbon steel
- PTFE/Graphite gland packing, Nylon dust cap
- Design working press. 6000 psi and 10000 psi
- Conn. type Female x Male, Female x Female
- Connection size 1/4", 1/2", 3/8", 3/4", 1" BSP or NPT



### AE401 - Multiport Gauge Valve

- Hex shape Multi-port gauge valve
- Design wetted parts material SS316
- Hard seat (10,000psi) and Soft seat (6,000psi)
- FKM O-ring, PTFE packing, Nylon dust cap
- Connection type Female x Male
- Connection size 1/2" or 3/4" BSP or NPT



### AE402 - Multiport Gauge Valve

- Block shape Multi-port gauge valve
- Design wetted parts material SS316
- Hard seat (10,000psi) and Soft seat (6,000psi)
- FKM O-ring, PTFE packing, Nylon dust cap
- Connection type Female x Male
- Connection size 1/2" or 3/4" (Male) BSP or NPT



### AE500 Series - Ball Valve

- Standard construction material SS316
- Pressure rating 2000 and 6000 Psig
- Inlet/Outlet 1/2", 3/4" or 1" NPT F x F standard
- Inlet/Outlet PTFE Female x Male or Tube end
- Sealing PTFE, PEEK or Delrin depend on rating
- Available exotic material on Inconel, Duplex, etc



### BB201 - Block & Bleed Valve

- One-piece body construction (No welding)
- Strong construction and corrosive resistance
- Hex body shape, SS316 wetted parts or \*NACE
- Hard seat (10,000psi) and Soft seat (6,000psi)
- FKM O-ring, Nylon dust cap
- Connection type Female x Male (F x M) or F x F
- Connection size 1/4", 1/2", 3/4" BSP or NPT



### BB301 Series - Double Block and Bleed Manifold

- Process instrument isolates & bleeds system
- Hex body shape, SS316 design wetted parts
- Hard seat (10,000psi) and Soft seat (6,000psi)
- FKM O-ring, PTFE Graphite packing, PVC dust cap
- Connection type Female x Male (F x M) or F x F
- Connection size 1/2" BSP or NPT



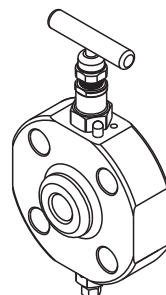
### MF101 Series - Monoflange Valves

- Reduced leak paths, bolting and gasket costs
- Minimize system vibration effects on instruments
- Hard seat (10,000psi) and Soft seat (6,000psi)
- Seal material FKM, PTFE or Graphite selection
- Flanged to standard ASME B16.5, DIN or others
- Flange sizes 1/2" to 2", 150lb to 3500lb, RF or RTJ
- Various material SS316, SS316L, Inconel, Duplex, Hastelloy C

## Monoflange Valves Series

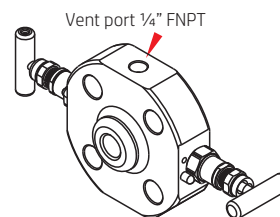
## MF10

### MF102 Series



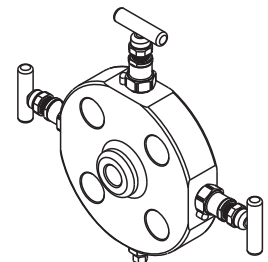
Isolation monoflange

### MF103 Series



Block & Vent monoflange

### MF104 Series



DBB with screwed bonnets





**VM22 Series - 2 Way Manifold**

- Process instrument isolates & bleeds system
- Square bar body shape, SS316 wetted parts
- Hard seat (10,000psi) and Soft seat (6,000psi)
- FKM O-ring, PTFE/Graphite packing, PVC dust cap
- Connection type Female x Male (F x M) or F x F
- Connection size 1/2" BSP or NPT



**VM24 Series - 2 Way Manifold**

- Process instrument isolates & bleeds system
- Hex body shape, SS316 design wetted parts
- Hard seat (10,000psi) and Soft seat (6,000psi)
- FKM O-ring, PTFE/Graphite packing, PVC dust cap
- Connection type Female x Male (F x M) or F x F
- Connection size 1/2" BSP or NPT



**VM25 Series - 2 Way Manifold**

- Process instrument isolates & bleeds system
- Direct block body shape, SS316 wetted parts
- Hard seat (10,000psi) and Soft seat (6,000psi)
- FKM O-ring, PTFE/Graphite packing, PVC dust cap
- Connection type Female x Female
- Connection size 1/2" BSP or NPT



**VM32 Series - 3 Way Manifold**

- Process instrument isolates & bleeds system
- Square bar body shape, SS316 wetted parts
- Hard seat (10,000psi) and Soft seat (6,000psi)
- FKM O-ring, PTFE/Graphite packing, PVC dust cap
- Connection type Female x Male (F x M) or F x F
- Connection size 1/2" BSP or NPT



**VM35 Series - 3 Way Manifold**

- Process instrument isolates & bleeds system
- Direct block body shape, SS316 wetted parts
- Hard seat (10,000psi) and Soft seat (6,000psi)
- FKM O-ring, PTFE/Graphite packing, PVC dust cap
- Connection type Female x Female
- Connection size 1/2" BSP or NPT



**VM52 Series - 5 Way Manifold**

- Process instrument isolates & bleeds system
- Square bar body shape, SS316 wetted parts
- Hard seat (10,000psi) and Soft seat (6,000psi)
- FKM O-ring, PTFE/Graphite packing, PVC dust cap
- Connection type Female x Male (F x M) or F x F
- Connection size 1/2" BSP or NPT



**VM54 Series - 5 Way Manifold**

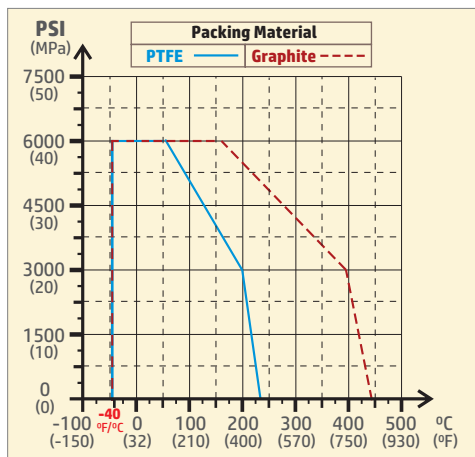
- Process instrument isolates & bleeds system
- Rectangular body shape, SS316 wetted parts
- Hard seat (10,000psi) and Soft seat (6,000psi)
- FKM O-ring, PTFE/Graphite packing, PVC dust cap
- Connection type Female x Male (F x M) or F x F
- Connection size 1/2" BSP or NPT



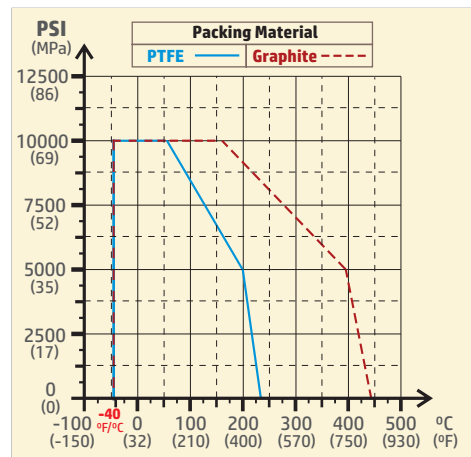
**VM55 Series - 5 Way Manifold**

- Process instrument isolates & bleeds system
- Angle block body shape, SS316 wetted parts
- Hard seat (10,000psi) and Soft seat (6,000psi)
- FKM O-ring, PTFE/Graphite packing, PVC dust cap
- Connection type Female x Female
- Connection size 1/2" BSP or NPT

**Pressure vs Temperature (6000 Psi Series)  
Overpressure Safety Factor (4:1)**



**Pressure vs Temperature (10000 Psi Series)  
Overpressure Safety Factor (2.4:1)**



### CS Series - Sanitary Clamping Cooling Tube



- Cooling tower for sanitary diaphragm seal
- Stainless steel 316 construction material
- Media temperature reducer up to 15%
- Max. process temperature 200°C (392°F)
- Max. operating pressure 1500 psi (100 bar)
- Diaphragm seal filling temperature reducer
- Fastening to ISO2852, DIN 32676

### C1 Series - Cooling Tower, Wing Shape



- One-piece cooling tower compact design
- Stainless steel 316 construction material
- Media temperature reducer up to 15%
- Max. process temperature 300°C (932°F)
- Max. operating pressure 1500 psi (100 bar)
- Diaphragm seal filling temperature reducer
- Connection size 1/4" or 1/2" BSP and NPT

### C3 Series - Cooling Tower, Tube Shape



- Cooling tower syphon compact design
- Stainless steel 316 construction material
- Media temperature reducer up to 20%
- Max. process temperature 500°C (932°F)
- Max. operating pressure 1500 psi (100 bar)
- Diaphragm seal filling temperature reducer
- Connection size 1/4" or 1/2" BSP and NPT

### C2 Series - Cooling Tower, Spiral Shape



- One-piece cooling tower compact design
- Stainless steel 316 construction material
- Media temperature reducer up to 20%
- Max. process temperature 300°C (932°F)
- Max. operating pressure 1500 psi (100 bar)
- Diaphragm seal filling temperature reducer
- Connection size 1/4" or 1/2" BSP and NPT

### AS Series - Stainless steel Capillary



- All welded stainless steel construction
- Recommended line length up to 20 meters
- Swivel ring process and instrument connection
- Bare stainless steel 304, armoured protection
- Max. working press. 600 bar, depends on usage
- Working temperature -50°..+400°C (-58°..+752°F)
- Conn. Female x Male, size 1/4" or 1/2" BSP or NPT
- Can be used for Cooling system or Vibration area

### AS Series - Stainless steel Syphon



- Protect instruments from effect of hot pressure media
- Construction material Stainless steel 304 and 316
- Standard design to DIN 16282
- Alternative design to Sch 40 and Sch 80
- Connection size 1/2" BSP and NPT
- Female x Male, Male x Male or Welding end
- Various shape design selection



O2 Shape

### AS Series - Stainless steel Syphon Characteristic



DIN16282



SCH 80  
O1 Shape



SCH 40



U1 Shape



U2 Shape

#### ASTM Specification (Grade) and Material

Compliance	Material	Max. Temp. (°C)	Max. Pressure
DIN 16282 Tube Ø20 mm	SS 304 or SS 316	120	160
		300	100
		400	80
Schedule 40 Tube Ø12 mm		120	100
		300	80
		400	63
Schedule 80 Tube Ø21 mm	120	160	
	300	100	
	400	80	

**Indicator**

**Digital Pressure and Temperature Test Gauges**



**HD010 - Digital Pressure Gauge**

- 4 Digit LCD Display
- Dial size 80 mm (3") and 100 mm (4")
- Accuracy Class 0.2 and Class 0.4 of F.S.
- Selectable unit range Bar, Psi, kPa and MPa
- Design pressure range -1..+24 to 0..1000 bar
- Low range -600..+600, 0..50 up to 1000 mBar
- Long life, Battery operated power 2 x AAA Cell
- Stainless steel case with SS316 wetted part
- Designed over pressure resist up to 150%
- Long term stability typical  $\pm 0.2\%$  F.S./Year
- Optional Auto Power-Off, Password function

Accuracy  
Class 0.2..0.4

Changeable  
5 Unit Ranges



**HD080 - Precision Digital Gauge**

- Single line wide digital crystal screen
- Dial size 90 mm or 3 1/2"
- Accuracy Class 0.02, 0.05 and 0.1
- Selectable 9 unit depend on pressure range
- Design pressure range -0,98..0 to 0..600 bar
- Long life\*2 years usage 8.4V Lithium battery
- Aluminum case, Stainless steel wetted parts
- RS-232 communication serial port, \*Cable+software
- Designed over pressure resist up to 110%
- Working temperature -10..+50°C
- Design relative humidity <95%
- Calibration report (In-house) included

Accuracy  
Class 0.02..0.1

Changeable  
9 Unit Ranges

**HD020 - Precision Digital Dual Gauge**

- Dial size 4" (100 mm)
- 5 Digits big LCD Display
- Accuracy Class 0.05 and 0.1 of F.S. (Pressure)
- Accuracy Class  $\geq 0.5^\circ\text{C}$  (Temperature)
- Up to 10 Selectable unit ranges
- Design pressure range 0..1000 bar
- Low range -0.025..+0.025 up to 1000 mBar
- Low power consumption, battery 3 x AA or USB
- Temperature compensating function 0..40°C
- Large LCD with white backlight, dual unit reading
- Zero point, Full Scale calibration function unit
- Designed over pressure resist up to 110%
- Working temperature -10..+50°C
- Design relative humidity <95%
- Calibration report (In-house) included

Accuracy  
Class 0.05..0.1

Changeable  
10 Unit Ranges



**HD040 - Precision Digital Gauge**

- 6 Digits big LCD Display
- Accuracy Class 0.025 and Class 0.05 of F.S.
- Up to 9 Selectable unit ranges
- Design pressure range 0..2500 bar
- Low range -0.025..+0.025 up to 1 Bar
- Rechargeable long life, Battery operated 7.4VDC
- Temperature compensating function
- Large LCD with white backlight, dual unit reading
- Zero point, Full Scale calibration function unit
- RS-232 communication serial port, \*Cable+software
- Designed over pressure resist up to 110%
- Working temperature -10..+50°C
- Design relative humidity <95%
- Calibration report (In-house) included
- Integrated internal data storing function and many more

Accuracy  
Class 0.02..0.1

Changeable  
9 Unit Ranges



**HD050 - Intelligent Digital Dual Gauge**

- 6 Digits big LCD Display
- Dimension case W x H 95 mm x 50 mm
- Accuracy Class 0.02, 0.05 and 0.1 of F.S.
- Selectable 9 units depend on pressure
- Design pressure range 0..2500 bar
- Low range -0.025..+0.025 up to 1 Bar
- Rechargeable long life, Battery operated 8.4VDC
- Temperature compensating function
- RS232 computer communication port
- Working temperature -10..+50°C
- Design relative humidity <95%
- Integrated Max and Min values chip function
- Zero point, Full Scale calibration function unit
- Integrated internal data storing and many more..

- Multi function measurement
  - General pressure gauge
  - Differential pressure transmitter
  - Pressure transmitter
  - Precision pressure gauge/Test gauge
  - Sphygmomanometer
- Pressure units : kPa, mmHg, mmH2O, Bar, mBar, Psi, kg/cm2, MPa, Pa
- Electrical signal
  - Current : 0..25 mA > KL  $\pm 0.02\%$  RD + 0.005% F.S.
  - Voltage : 0..25 V > KL  $\pm 0.02\%$  RD + 0.005% F.S.
  - DC Output : DC24V ( $\leq 30$  mA) KL  $\pm 1\%$  F.S.

**Multi function ports**



Accuracy  
Class 0.02..0.1

Changeable  
9 Unit Ranges

High Pressure  
up to 2500 bar

**Accessories**

**Accessories and support**



1. 90° mounting valve
2. Swivel ring adaptor (Connector)
3. Gasket (Sealing)
4. Connection adaptors (All sizing)
5. Low pressure hose
6. High pressure hose
7. Carrying case
8. Protecting rubber



Carrying case



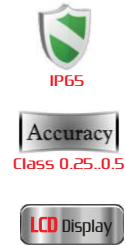
Adaptors Set



**Transmitter** Digital Pressure Transmitters



Mini    General    Diaphragm    Cooling    Indicator



**SPT100 - General Pressure Transmitter**

- Design for limited installation space application
- Diffusion Silicone core technology
- LCD/LED digital display \*Optional
- Accuracy Class 0.25% or 0.5% of Full Scale
- High performance, precision & stability
- Stainless steel 316 wetted part
- Convenient debugging zero range setting
- Pressure range -1..0, -1..+24 to 0..1000 bar
- Designed over pressure resist 150%
- Long term stability typical  $\pm 0.2\%$  F.S./Year
- Operating temperature -40°+150°C
- Power supply 12~30 VDC
- Output signal 4-20 mA, 0-5 VDC or 0-10 VDC

**SPT250 - Digital Pressure Transmitter**

- Diffusion Silicone core technology
- LCD Large digital display
- Multi measurement unit ranges (LED)
- Accuracy Class 0.25% or 0.5% of Full Scale
- High performance, precision & stability
- Stainless steel 316 wetted part
- Convenient debugging zero range setting
- Pressure range -1..0, -1..+24 to 0..1000 bar
- Designed over pressure resist 150%
- Long term stability typical  $\pm 0.2\%$  F.S./Year
- Operating temperature -40°+150°C
- Power supply 12~30 VDC
- Output signal 4-20 mA or RS485 protocol
- Available with Differential pressure or Sanitary mount



**SPT301 - Digital Pressure Transmitter**

- Diffusion Silicone core technology
- LCD Large digital display
- Explosive Atmosphere protection
- Multi measurement unit ranges (LED)
- Accuracy Class 0.25% of Full Scale
- High performance, precision & stability
- Stainless steel 316 wetted part
- Convenient debugging zero range setting
- Pressure range -1..0, -1..+24 to 0..1000 bar
- Designed over pressure resist 150%
- Long term stability typical  $\pm 0.2\%$  F.S./Year
- Operating temperature -40°+150°C
- Power supply/Output signal : 12~30 VDC/4-20 mA
- Available with Differential pressure or Sanitary mount



**SPT302 - Digital Pressure Transmitter**

- Diffusion Silicone core technology
- LED Large digital display
- Explosive Atmosphere protection
- Multi measurement unit ranges (LED)
- Accuracy Class 0.25% of Full Scale
- High performance, precision & stability
- Stainless steel 316 wetted part
- Convenient debugging zero range setting
- Pressure range -1..0, -1..+24 to 0..1000 bar
- Designed over pressure resist 150%
- Long term stability typical  $\pm 0.2\%$  F.S./Year
- Operating temperature -40°+150°C
- Power supply/Output signal : 12~30 VDC/4-20 mA
- Available with Differential pressure or Sanitary mount



Differential pressure



Sanitary clamping mount

## Switches

### Digital Pressure Switch



#### DPS300 - Digital Pressure Switches

- Accuracy Class 0.5 of F.S.
- Dial 80 mm with 2xSPDT switches
- 2 x Different relays output (NO/NC)
- Setable range 5%..95% of F.S.
- Pressure range -1..0, -1..+24 to 0..1000 bar
- Designed over pressure resist 150%
- Output 4..20 mA or \*RS485
- Selectable triple unit ranges
- ON/OFF and Zero reset button
- Stainless steel 316 wetted part
- Power Supply 24 VDC, 220 VAC or 380 VAC
- Alarm Load Capacity 3A - 380/220 VAC or 24 VDC
- Direct or Panel mounting design
- Anti-electromagnetic interference
- Integrated password function



#### DPPS300 - Digital Differential Pressure Switches

- Accuracy Class 0.5 of F.S.
- Dial 80 mm with 2xSPDT switches
- 2 x Different relays output (NO/NC)
- Setable range 5%..95% of F.S.
- Pressure range -1..0, -1..+24 to 0..1000 bar
- Designed over pressure resist 150%
- Output 4..20 mA or \*RS485
- Selectable triple unit ranges
- ON/OFF and Zero reset button
- Stainless steel 316 wetted part
- Power Supply 24 VDC, 220 VAC or 380 VAC
- Alarm Load Capacity 3A - 380/220 VAC or 24 VDC
- Direct or Panel mounting design
- Anti-electromagnetic interference
- Integrated password function

## Temperature

### Digital Thermometer and Transmitter



#### TD100 - Digital Thermometer

- Exchangeable 5 Unit range °C, °F, °K, °Ra, °Re
- LCD backlight for dark environment reading
- Large high resolution 5 digit LCD Display
- Stainless steel case, Ø 100mm dial
- Accuracy Class 0.25 and 0.5 of F.S.
- Internal measuring record function
- Internal Auto-Off setable function
- Effective sampling rate 1 time/s
- Digital battery power indicator
- Micro-power Long life 3.6VDC battery operated
- Measuring temperature range -50° to +500°C
- Operating temperature range -20° to +70°C
- Maximum working pressure 100 bar
- Sensor length up to 1 meter long
- Connection 1/2"NPT or BSP, fixed or sliding connection
- Design stability ≤0.1% / year
- SS 316 wetted part, other material available\*
- Optional Thermowell, please refer to Thermowell section



#### TPT100 - Digital Temperature Transmitter

- Display TPT101 (LED) and TPT102 (LCD)
- Aluminium alloy case, Ø 65 mm casing dial
- Accuracy Class 0.5 of F.S.
- Output 4..20 mA or \*RS485
- Power Supply 12-30 VDC
- Relative humidity 0-90%
- Fast response and design for heavy duty process
- Measuring temperature range -50° to +1000°C
- Operating temperature range -30° to +80°C
- Maximum working pressure 100 bar
- Sensor length up to 1 meter long
- Connection 1/2"NPT or BSP, fixed or sliding connection
- Design stability ≤0.1% / year
- SS 316 wetted part, other material available\*
- Internal cold junction compensation circuit
- Nonlinearity correcting onboard circuit





# TM/TX/TC Series *Temperature instruments*



Huge stock and spare parts in coverage for our clients' order



Ext. Calibration Device feature

TM Series - (ECD) External Calibration Device for in-field calibration function



Single or Dual Unit Range °C-°F

Selectable in Single or Dual Unit measurement range



## TM Series Bimetal Thermometer

- Accuracy class 1.6, \*Class 1.0
- Dial size 3", 4", 5" and 6"
- Index Protection rating IP 65
- Temperature range -40°..+60° to 0..600°C
- External Calibration Device (ECD)
- Bottom, back and everyangle mounting
- Sliding connection/Compression fitting
- Liquid fillable\* for vibration application
- Sensor length from 2½" up to 50"
- Design material :
  - Case - SS304 / SS316
  - Wetted part - SS316
  - Window - Instrument / Safety glass



## TS Series Sanitary Bimetal Thermometer

- Accuracy class 1.6
- Dial size 3", 4", 5" and 6"
- External Calibration Device (ECD)
- Index Protection rating IP 66
- Temperature range -40°..+60° to 0..600°C
- Bottom mount with tri-clamp®, size 1½" to 3"
- Liquid fillable\* for vibration application
- Sensor length from 2½" up to 36"
- Design material :
  - Case - SS304 / SS316
  - Wetted part - SS316
  - Window - Instrument / Safety glass



## TX Series Gas Capillary Thermometer

- Accuracy class 1.6, \*Class 1.0
- Dial size 3", 4", 5", 6" and 10"
- Index Protection rating IP 65
- Temperature range -40°..+60° to 0..650°C
- Remote capillary up to 30 meters
- Bottom and back mounting with flange
- Sliding connection/Compression fitting
- Liquid fillable\* for vibration application
- Sensor length from 2½" up to 60"
- Design material :
  - Case - SS304 / SS316
  - Wetted part - SS316
  - Window - Instrument / Safety glass

## TXE Series Capillary Bimetal Thermometer

- Accuracy class 1.6, \*Class 1.0
- Dial size 3", 4", 5", 6" and 10"
- Index Protection rating IP 65
- Temperature range -40°..+60° to 0..800°C
- Remote capillary up to 30 meters
- Bottom and back mounting with flange
- Sliding connection/Compression fitting
- Liquid fillable\* for vibration application
- Sensor length from 2½" up to 60"
- Design material :
  - Case - SS304 / SS316
  - Wetted part - SS316
  - Window - Instrument / Safety glass



## Contact Specification

- Minimal range 60°C
- Connector cable junction box
- Hysteresis maximal 1% up and down
- Setpoint(s) from outside with key
- SPDT and DPDT contact type
- Inductive contact, please \*consult
- Electrical switch capacity
  - 125 VAc : 5A (Ind. load 0.1A)
  - 250 VAc : 3A (Ind. load 0.1A)
  - DC 30V : 5A (Ind. load 0.1A)
  - DC 125V : 0.4A
  - DC 250V : 0.2A





# TW Series Thermowell

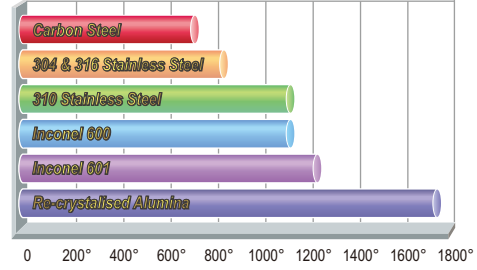


**Thermowell Material**  
Various SS and exotic materials. Selected from the best in its class.

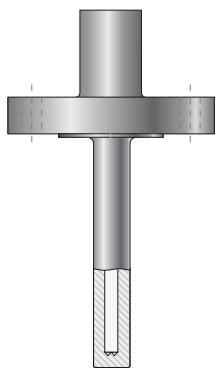


**Wide Range Flange Sizes**  
Wide selection flange size and rating following DIN EN1092-1, ASME B16.5, JIS B2220 or other standard.

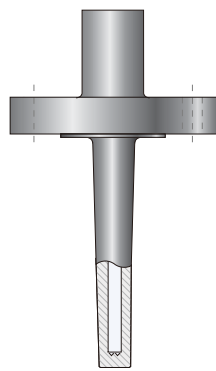
**Material Temperature Resistance Reference (°C)**



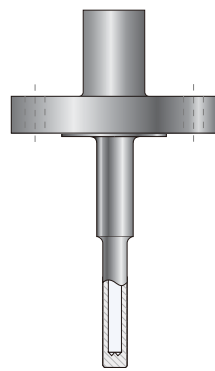
## Flanged Drill Bar Stock



**TW-F11** Straight flanged



**TW-F12** Tapered flanged



**TW-F13** Stepped flanged

## TW-F10 Series Flanged Thermowell

- Flanged per ASME B16.5, DIN EN1092-1 or JIS
- Thermowell styles Straight, Stepped or Tapered
- Flanged thermowell with full penetration weld
- Solid drill bar stock metal machining
- Various flange and bar stock material selection
- Wake Frequency Calculation (PTC 19.3TW)
- Various medium and heavy duty application
- Custom design according to project requirement

## Threaded Pipe Threaded



**TW-P10** Pipe threaded



## Pipe & Drill Bar Stock



**TW-T11** Straight threaded



**TW-T12** Tapered threaded



**TW-T13** Stepped threaded

## Threaded

This is the property of 3S INTERNATIONAL, PT and may not be used, reused, modified or reproduced without prior permission. Specification and material are subjected to changes or modification without prior notice.



## Thermowell Material

Various SS and exotic materials. Selected from the best in its class.



## Wide Range Flange Sizes

Wide selection flange size and rating following DIN EN1092-1, ASME B16.5, JIS B2220 or other standard.

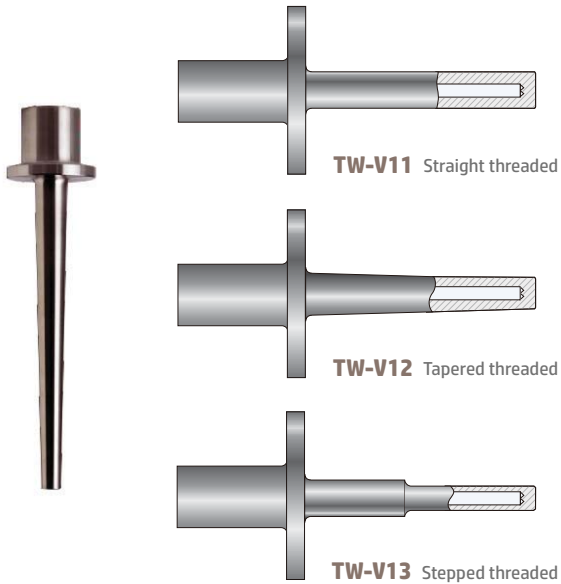


## Thermowell Calculation

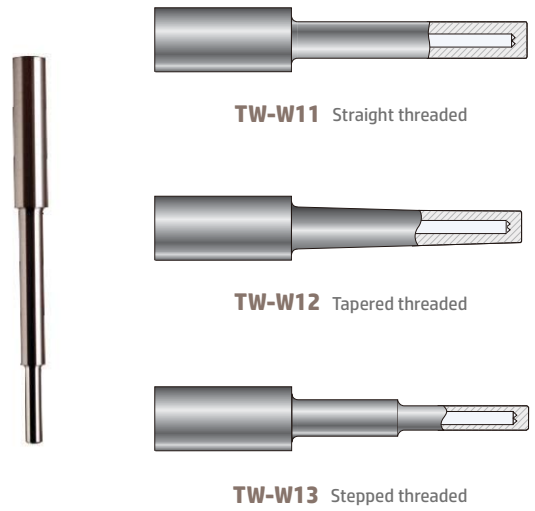
PTC 19.3 TW Thermowell Calculation



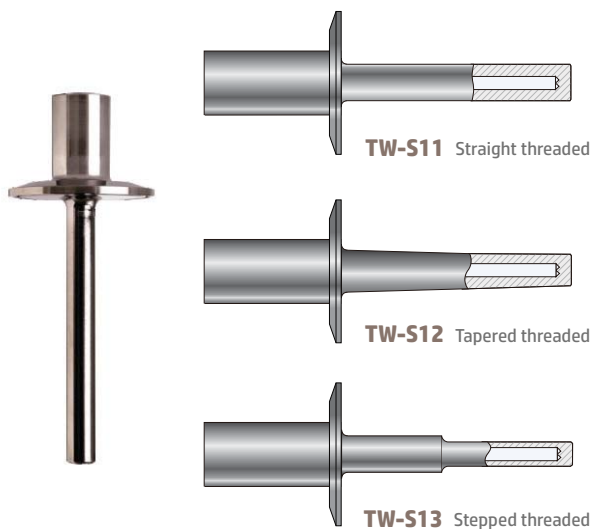
### Van Stone



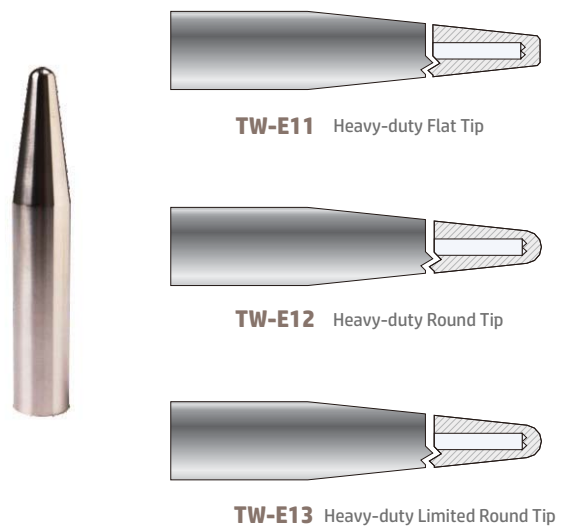
### Socket Weld



### Sanitary



### Weld-In



Ceramic protection sheaths are available in lengths to suit customer requirements & in range of diameters. Standard material : Impervious aluminous porcelain, impervious recrystallised alumina, impervious mullite and silicon carbide.

For attachment purposes a range of adjustable or welded flanges and bushes are available. These are secured to the support tube.

Metal tube supporting the main ceramic sheath. This support tube is normally in stainless steel and is typically 25mm OD with 150mm length. Support tubes in alternative materials and dimensions are available on request.

Heavy duty, weatherproof, screw top terminal heads are supplied fitted to Type 14 assemblies. It is supplied completed with terminal block.



# TC Series RTD & Thermocouples



Huge stock and spare parts in coverage for our clients' order

## Sensor Head



## Terminal Blocks



N-2P-C

N-3P-C

N-3P-C-PT

N-4P-C

N-6P-C

C-2P-C

C-3P-C



S-2P-C

S-3P-C

S-3P-C

D-3P-C

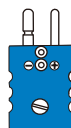
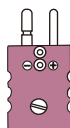
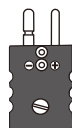
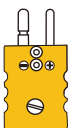
D-6P-C

C-4P-C

M-4P-C

## Connector

### ANSI colour code



**K** Yellow  
NiCr NiSi

**J** Black  
Fe CuNi

**E** Violet  
NiCr CuNi

**T** Blue  
Cu CuNi

**N** Orange  
NiCrSi NiSi

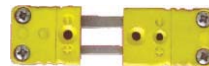
### Standard thermoplastic connector



### Standard ceramic connector



### Mini thermoplastic connector



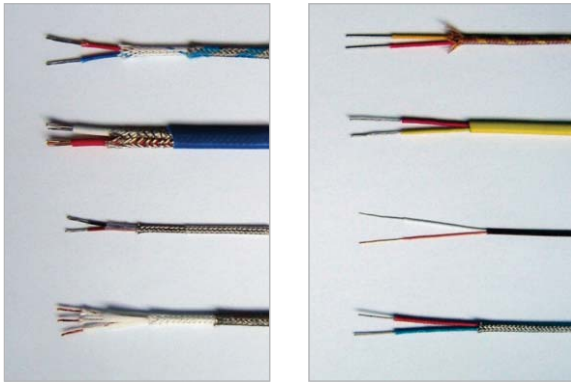
### Mini ceramic connector







## Thermocouple Cable



### Comparison AWG standard & metric Standard

AWG Code	Ø in mm	AWG Code	Ø in mm
0	8.25	23	0.574
1	7.35	24	0.511
2	6.54	25	0.455
3	5.83	26	0.404
4	5.19	27	0.361
5	4.62	28	0.320
6	4.11	29	0.287
7	3.67	30	0.254
8	3.26	31	0.226
9	2.91	32	0.203
10	2.59	33	0.180
11	2.30	34	0.160
12	2.05	35	0.142
13	1.83	36	0.127
14	1.63	37	0.114
15	1.45	38	0.102
16	1.29	39	0.089
17	1.15	40	0.079
18	1.02	41	0.071
19	0.912	42	0.064
20	0.813	43	0.056
21	0.724	44	0.051
22	0.643		

### Features introduction

- Cable construction  
Conductor : original thermocouple alloy material, is made up of solid wires or strand wires.  
Insulation layers :
  - Fiberglass [Ambient temperature range 0..300°C]
  - PVC [Ambient temperature range 0..105°C]
  - Teflon [Ambient temperature range 0..350°C]
  - Silicone rubber [Ambient temperature range 0..180°C]
 Jacket layer material : fiberglass, PVC, Teflon, Silicone rubber

- Conforms to IEC584 standard
- Cables with special material or special dimensions or special artworks, welcome to contact our sales for further discussion.

### Thermocouple cable colour code standard

Thermocouple type	Colour code standard					
	ANSI	DIN	BS	NFC	JIS	IEC
<b>K</b> +NICRO -NIAL	+ Yellow - Red	+ Green - Red	+ Red - Blue	+ Purple - Yellow	+ Blue - Red	+ Green - Red
<b>J</b> +IRON -CONSTANTAN	+ Black - Red	+ Blue - Red	+ Black - Yellow	+ Black - Yellow	+ Yellow - Red	+ Black - Red
<b>E</b> +NICRO -CONSTANTAN	+ Blue - Red	+ Black - Red	+ Brown - Blue	+ Orange - Yellow	+ Blue - Red	+ Blue - Red
<b>T</b> +COPPER -CONSTANTAN	+ Blue - Red	+ Brown - Red	+ Blue - Blue	+ Blue - Yellow	+ Brown - Red	+ Brown - Red
<b>N</b> +MICROSIL -NISIL	+ Orange - Red	--	+ Orange - Blue	--	--	+ Pink - Red
<b>S</b> +COPPER -CUPRONIC	+ Green - Red	+ White - Red	+ Green - Blue	+ Green - Yellow	+ Black - Red	+ Orange - Red

### Process Connection





# TC Series *Thermocouples and RTDs*



## TC10 Series

Thermocouples & RTDs with Weatherproof Terminal Head

- Aluminium terminal head, other materials available on request
- Integral terminal block wiring or with transmitter available
- Sensors with fixed lengths, spring loaded or flexible armor
- Single or dual J, K, E, T, N, R, S and B thermocouples or RTDs



## TC20 Series

Thermocouples & RTDs with Hazardous Location Terminal Head

- Aluminium terminal head, epoxy-coated or SS316 heads
- Class 1, Division 1, Groups B, C and D
- Integral terminal block wiring or transmitters available
- Single or dual J, K, E, T and N thermocouples or variety of RTDs



## TC30 Series

Thermocouples & RTDs with Sheath and stripped or terminated end

- Variety of wires and cables available
- 316 Stainless steel standard and other sheath material on request
- Stainless steel armor, with/without waterproof PVC or Teflon coating
- Terminated stripped ends or connectors, plugs and crimped terminals
- Compression fitting or Weld-pads process connection
- Single or dual J, K, E, T and N thermocouples or variety of RTDs



## TC40 Series

Integrated dual Thermometer with Transmitter output

- One reading for both analog and temperature transmitter
- IP65 Weather proof construction for universal application
- Accuracy class 1.0 - 1.6 of Full Scale
- Standard 316 stainless steel material sensor
- Design dial size 3", 4", 5" and 6"
- Standard 1/4" or 1/2" NPT or BSP, fixed or sliding connection
- Output signal 4-20 mA, Power 10-33 VDC
- Temperature range -20°..+300°C



## TC50 Series

High Temperature Ceramic Type R or S Thermocouples

- Accuracy Class 1.0
- Recrystallised alumina (Altsin) sheath with Duplex option
- Interchangeable insert
- Temperature range 0 to 1650°C
- Sheath length from 300, 500 up to 1000 mm
- Weather proof terminal head or Explosion proof housing



## Recrystallised alumina (Altsin)

- **Material: Aluminium Oxide (Al<sub>2</sub>O<sub>3</sub>)**
- **Temperature range exceeding 1800°C**
- **Resistance to corrosive stresses**
- **High degree of thermal conductivity**



# HP/PP Series *Pressure Calibrators*



## User Friendly Construction

Design with latest technology and User-Friendly application.



## Accuracy Micro Adjust Resolution

High precision calibration with adjust resolution from range 0.01..10 mBar



## Calibration Range Up to 2500 Bar

Design calibration pressure range from -0.5..+0.5, -0.95..+60 to 0.. 2500 Bar



### PP10 Series Compact Pneumatic Pressure Comparator

- Compact design for In-field/Laboratory calibration
- Calibration Stability 0.05% of Full Scale
- Adjust resolution 0.1 Mbar
- Transmitting compression media by air
- Elegant light weight and rust proof aluminium body
- High measuring performance and Easy maintenance
- User-friendly operation and Stable compression
- Design pressure range -0.95..+60 Bar
- Dimension (LxWxH) 286 x 198 x 140 mm, NW. 2.7 kgs



### HP90 Series Compact Hydraulic Pressure Comparator

- Compact design for In-field/Laboratory calibration
- Calibration Stability 0.05% of Full Scale
- Adjust resolution 0.1 Mbar
- Transmitting media transform Oil
- Elegant light weight and rust proof aluminium body
- High measuring performance and Easy maintenance
- User-friendly operation and Stable compression
- Design pressure range 0 to 600/700 Bar
- Dimension (LxWxH) 210 x 210 x 140 mm, NW. 2.6 kgs



### PP30L Series Micro Piston Pneumatic Calibrator

- Compact design for In-field/Laboratory calibration
- Calibration Stability 0.05% of Full Scale
- Adjust resolution 0.01 Mbar
- Transmitting compression media by air
- Elegant light weight and transparent plexiglass body
- High measuring performance and Easy maintenance
- User-friendly operation and Stable compression
- Design pressure range -0.5..+0.5 Bar
- Dimension (LxWxH) 260 x 180 x 60 mm, NW. 2.55 kgs



# HP/PP Series

## Pressure Calibrators *Pneumatic and Hydraulic Calibrators*



### PP20 Series Desktop Manual Pneumatic Calibrator

- Desktop design for Laboratory calibration
- Calibration Stability 0.05% of Full Scale
- Adjust resolution 0.1 Mbar
- Transmitting calibrating media by Air
- Strong stainless steel and aluminium body construction
- High measuring performance and Easy maintenance
- User-friendly operation and Stable compression
- Design calibration pressure range -0.95..+60 or 140 Bar
- Dimension (LxWxH) 320 x 390 x 180 mm, NW. 14.1 kgs



### HP500 Series Compact Manual Hydraulic Calibrator

- Desktop design for Laboratory calibration
- Calibration Stability 0.05% of Full Scale
- Adjust resolution 0.001 Bar (0.1 kPa)
- Transmitting calibrating media by transform oil
- Strong stainless steel and aluminium body construction
- High measuring performance and Easy maintenance
- User-friendly operation and Stable compression
- Design calibration pressure range 0..700 or 700 Bar
- Dimension (LxWxH) 320 x 240 x 140 mm, NW. 5.0 kgs



### HP800 Series Desktop Manual Hydraulic Calibrator

- Desktop design for Laboratory calibration
- Calibration Stability 0.05% of Full Scale
- Adjust resolution 1 Mbar
- Transmitting media Distilled water or Transform Oil
- Strong stainless steel and aluminium body construction
- High measuring performance and Easy maintenance
- User-friendly operation and Stable compression
- Design calibration pressure range 0..700 Bar (10000 Psi)
- Dimension (LxWxH) 430 x 330 x 170 mm, NW. 14.9 kgs



### HP900 Series Desktop Manual Hydraulic Calibrator

- Desktop design for Laboratory calibration
- Calibration Stability 0.05% of Full Scale
- Adjust resolution 0.01 Bar
- Transmitting calibrating media by transform oil
- Strong stainless steel and aluminium body construction
- High measuring performance and Easy maintenance
- User-friendly operation and Stable compression
- Design calibration pressure range 0..1600 or 2500 Bar
- Dimension (LxWxH) 570 x 490 x 195 mm, NW. 25.2 kgs

## Accessories *Optional Support and Accessories*



### Accessories

- Transmitter medium pressure connection hose (350 Bar)
- Transmitter high pressure connection hose (600 Bar)
- Gasket, sealing, connection adapters, regulator connector
- Hardcase with 64 pcs fitting kits (Complete accessories)
- Soft carrying case (For model PP10 Series and HP90 Series)
- Connection adapters, specific connection sizes on request



# CB Series

## Calibration Bench

Standard or Customized Calibration Bench

### CB10/CB11 Series Standard/Customized Calibration Bench

- CB10 Series - Standard calibration bench (Not included adapters and calibrators)
- CB11 Series - Customized accordingly to calibrator equipment (As per requirement)
- Smart storage solutions for tools, calibrators and equipment
- Special design for Workshop and Laboratories application
- 2 x cabinets and 3 x wall shelves standard
- Heavy duty, robust stainless steel finishing
- Other bench sizes available on request
- Dimension (LxWxH) , NW. kgs

*\*Calibrators and equipments not included*

