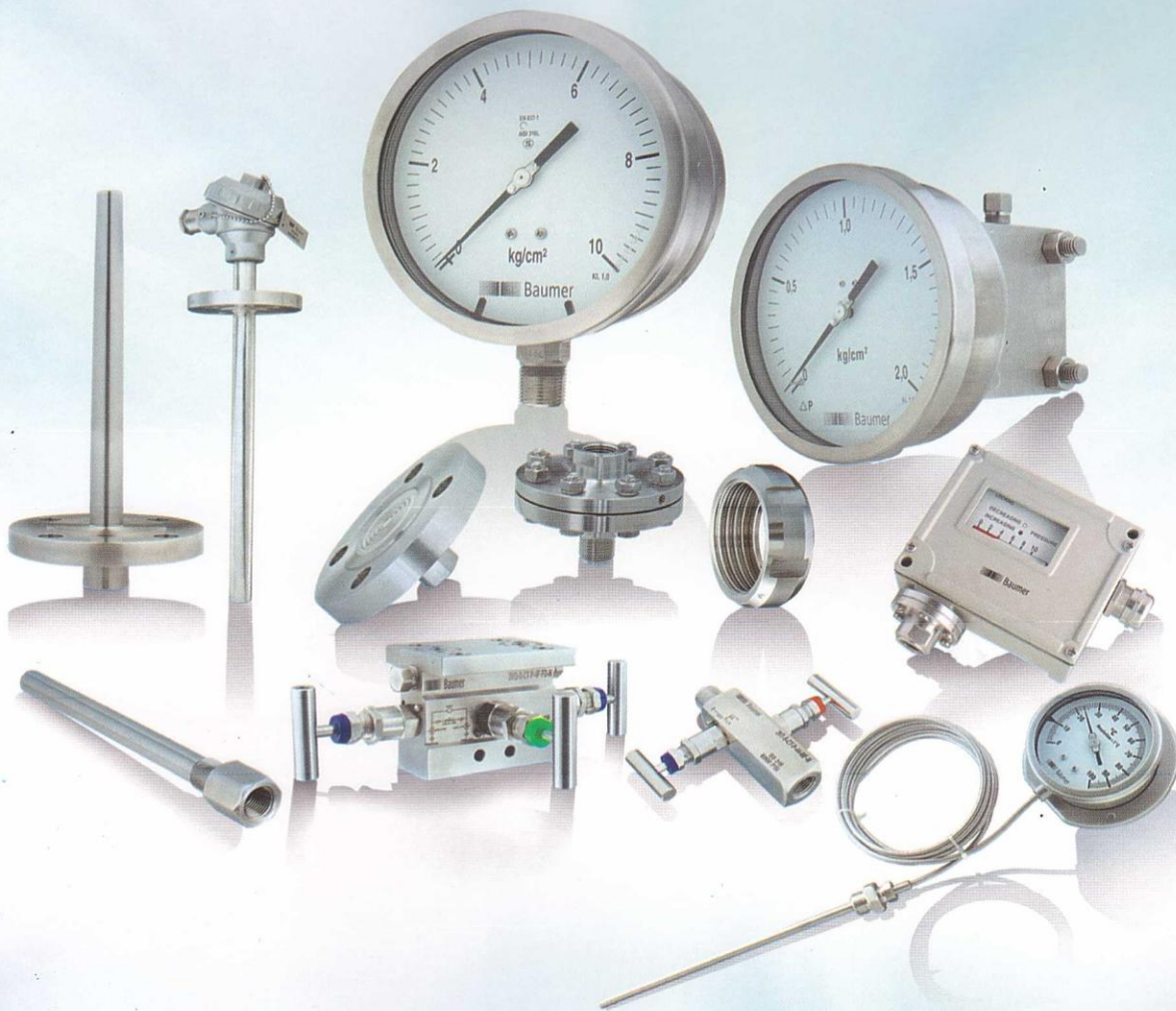






# Product Overview



# Mechanical pressure measurements



- All stainless steel gauges
  - Commercial gauges
  - Industrial gauges
  - DIN type stainless steel gauges
  - Economy gauges

					
Model	AD	AL	BE	BV	
DN	50, 63 & 80 mm	100, 125, 150, 200 & 250 mm	63, 100 & 150 mm	100 & 150 mm	
Pressure range	50 mm : -1...0 & 0...400 bar 63 mm : -1...0 & 0...1000 bar 80 mm : -1...0 & 0...1000 bar	-1 ... 0 & 0 ...1600 bar	63 mm : -1...0 & 0...1000 bar 100 & 150 mm : -1...0 & 0...1600 bar	-1...0 & 0...70 bar	
Accuracy class	50 mm : 2.5 63 & 80 mm : 1.6	1.0, (Optional : 0.5)	63 mm : 1.6 100 & 150 mm : 1.0 (Optional : 0.5)	1.6	
Case material & type	AISI 304 SS (Optional : AISI 316 SS), Bayonet / Rolling	AISI 304 SS (Optional : AISI 316 SS), Bayonet	AISI 304 SS (Optional : AISI 316 SS), Snap Lock	AISI 304 SS, Bayonet	
Sensing element material	AISI 316L SS	AISI 316L SS, (Optional : Monel)	AISI 316L SS, (Optional : Monel (For NS100 & 150mm))	AISI 316L SS	
Process connection material	AISI 316 SS	AISI 316L SS, (Optional : Monel)	AISI 316L SS, (Optional : Monel (For NS100 & 150mm))	AISI 304 SS	
Process connection	50 & 63 mm : 1/8" BSP(M), 1/8" NPT(M), 1/4" BSP(M), 1/4" NPT(M), 80 mm : 3/8" BSP(M) & 3/8" NPT(M)	3/8" BSP(M), 1/2" BSP(M) & 1/2" NPT(M)	63 mm : 1/4" BSP(M), 1/4" NPT(M), 100 & 150 mm : 1/2" BSP(M) & 1/2" NPT(M)	3/8" BSP(M), 1/2" BSP(M) & 1/2" NPT(M)	
Type of mounting	50 mm : 2, 4 & 13 63 mm : 1, 2, 3, 4, 5, 12,13 80 mm : 1, 2 & 4	1, 2, 3, 4*, 5, 6, 9 & 11** *(For 100mm only) **(For NS100 to 150mm only)	1, 2, 3, 4, 5 & 9	2	
Protection class	IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)	IP 65	
Approval	GOST	GOST, IBR, UL (For NS100, 125 & 150mm) & CE (For NS 100 & 150mm up to 1000 bar)	GOST, UL	GOST	
Reference standard	EN 837-1	EN 837-1 (For NS100, 150 & 250 mm), ASME B 40.100 for NS 125 mm.	EN 837-1	EN 837-1	

## Mountings :

- |  |   |  |                                   |
|--|---|--|-----------------------------------|
| 1 Wall / surface / projection mounting with bottom entry | 2 Direct bottom entry                       | 3 Direct lower back entry                | 4 Direct center back entry        |
| 5 Lower back entry with front flange                     | 6 2" pipe / yoke mounting with bottom entry | 9 Lower back entry with mounting bracket | 11 Bottom entry with front flange |
| 12 Center back entry with front flange                   | 13 Center back entry with mounting bracket  |  |                                   |

# Mechanical pressure measurements

- Solid front
- Test gauges
- Stainless steel with brass internal



AI	AH	AR	AJ	AT
100 & 150 mm	4½"	150, 200 & 250 mm	150 mm	50, 63, 80 & 100 mm
-1 ... 0 & 0 ... 1600 bar	-1 ... 0 & 0 ... 1600 bar	-1 ... 0 & 0 ... 1000 bar	-1 ... 0 & 0 ... 1000 bar	50 mm : -1...0 & 0...280 bar 63, 80 & 100 mm : -1 ... 0 & 0 ... 400 bar
1.0, (Optional : 0.5)	0.5	0.25	0.25	40 & 50 mm : 2.5 63, 80 & 100 mm : 1.6
AISI 304 SS (Optional : AISI 316 SS), Bayonet, Solid Front	Polypropylene, Solid Front	AISI 304 SS (Optional : AISI 316 SS), Bayonet	AISI 304 SS (Optional : AISI 316 SS), Bayonet, Solid Front	AISI 304 SS (Optional : AISI 316 SS), Bayonet / Rolling
AISI 316L SS, (Optional : Monel)	AISI 316L SS, (Optional : Monel)	Beryllium Copper	Beryllium Copper	Copper Alloy
AISI 316L SS, (Optional : Monel)	AISI 316L SS, (Optional : Monel)	AISI 316L SS	AISI 316L SS	Copper Alloy
1/4" NPT(M), 1/2" BSP(M) & 1/2" NPT(M)	1/4" NPT(M), 1/2" BSP(M) & 1/2" NPT(M)	1/4" NPT(M), 1/2" BSP(M) & 1/2" NPT(M)	1/4" NPT(M), 1/2" BSP(M) & 1/2" NPT(M)	50 & 63 mm : 1/8" BSP(M), 1/8" NPT(M), 1/4" BSP(M), 1/4" NPT(M), 80 & 100 mm : 1/4" BSP(M), 1/4" NPT(M), 3/8" BSP(M) & 3/8" NPT(M)
1, 2 & 6	1, 3 & 5	1, 2, 3, 5 & 9	1 & 2	50 mm : 2, 4 & 13 63 mm : 1, 2, 4, 5, 12 & 13 80 mm : 1, 2 & 4 100 mm : 1, 2, 3, 5 & 9
IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)
GOST & UL	GOST	GOST	GOST	GOST
EN 837-1	ASME - B 40.100	EN 837-1 (For NS 150 & 250 mm)	EN 837-1	EN 837-1


## Mountings :

- |  |   |  |  |
|--|---|--|--|
| 1 Wall / surface / projection mounting with bottom entry | 2 Direct bottom entry                       | 3 Direct lower back entry                | 4 Direct center back entry             |
| 5 Lower back entry with front flange                     | 6 2" pipe / yoke mounting with bottom entry | 9 Lower back entry with mounting bracket | 12 Center back entry with front flange |
| 13 Center back entry with mounting bracket               |   |  |  |

# Mechanical pressure measurements



- Gauges with electrical contact
- Sanitary pressure gauges

					
Model	BI	BJ	AY	AZ	
DN	100 mm	100 & 150 mm	50 & 63 mm	100 mm	
Pressure range	1.6 ... 1600 bar	1.6 ... 1600 bar	-1 ... 2 & 2 ... 40 bar	160, 250, 400, 600 bar	
Accuracy class	1.0	1.0	1.6	1.6	
Case material & type	AISI 304 SS (Optional : AISI 316 SS), Bayonet, High Case Version	AISI 304 SS (Optional : AISI 316 SS), Bayonet	AISI 304 SS (Optional : AISI 316 SS), Bayonet	AISI 304 SS (Optional : AISI 316 SS), Bayonet	
Sensing element material	AISI 316L SS, (Optional : Monel)	AISI 316L SS, (Optional : Monel)	AISI 316L SS (Diaphragm)	AISI 316L SS (Diaphragm)	
Process connection material	AISI 316L SS, (Optional : Monel)	AISI 316L SS, (Optional : Monel)	AISI 316 SS (Optional : AISI 316L)	AISI 316 SS	
Process connection	1/4" NPT(M), 1/2" BSP(M) & 1/2" NPT(M)	1/4" NPT(M), 1/2" BSP(M) & 1/2" NPT(M)	1 1/2", 2" & 2 1/2" Clamp	Flange, Without Flange & 1 1/4" BSP(F)	
Type of mounting	1, 2 & 3	1, 2, 3, 5 & 9	2 & 4	2	
Protection class	IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)	
Approval	GOST	GOST	GOST	GOST	
Reference standard	EN 837-1	EN 837-1	EN 837-3	EN 837-3	
Others	CE & ATEX approved Electrical Contacts	CE & ATEX approved Electrical Contacts		CE & ATEX approved Electrical Contacts	

## Mountings :

1 Wall / surface / projection mounting with bottom entry  
5 Lower back entry with front flange

2 Direct bottom entry  
9 Lower back entry with mounting bracket

3 Direct lower back entry

4 Direct center back entry

# Mechanical pressure measurements

- Differential gauges
  - Piston operated
  - Bellow operated
- Low range pressure gauges
  - Diaphragm operated
  - Capsule type



				
AQ	BF	BQ	AF	AP
100 & 150 mm	63, 100 & 150 mm	150 mm	63, 100, 125 & 150 mm	100 & 150 mm
600 ..... 6000 mmWC & 1..... 6 bar	2500 ..... 6000 mmWC & 1..... 10 bar	4000 ..... 6000 mmWC & 1..... 6 bar	-6000 ..... -250 mmWC & 250..... 6000 mmWC	-6000...-250 mmWC, 250 ...6000 mmWC & -1...9 bar
1.6 (Ascending)	2.0 (Ascending)	1.0 for 1 to 6 bar 1.6 for 4000 to 6000mmWC	1.6	1.6
AISI 304 SS (Optional : AISI 316 SS), Bayonet	AISI 304 SS (Optional : AISI 316 SS), Bayonet	AISI 304 SS (Optional : AISI 316 SS), Bayonet	AISI 304 SS, (Optional : AISI 316 SS), Bayonet	AISI 304 SS, (Optional : AISI 316 SS), Bayonet
AISI 316L SS (Double Diaphragm), (Optional : Monel)	Teflon, Ceramic magnet & SS spring	AISI 316L SS (Bellow)	AISI 316 SS (Capsule)	AISI 316L SS (Diaphragm), (Optional : Hastelloy C, Monel)
AISI 316 SS, (Optional : AISI 316L SS, Monel)	AISI 316 SS, (Optional : Monel)	AISI 316L SS	AISI 316L SS	AISI 316 SS, (Optional : AISI 316L SS, Hastelloy C, Monel)
1/4" NPT (F), 1/2" BSP(M) & 1/2" NPT(M)	1/4" NPT(F), 1/4" BSP(F) & 1/2" NPT(M)	1/2" BSP(M) & 1/2" NPT(M)	1/4" BSP(M), 1/4" NPT (M), 1/2" BSP(M) & 1/2" NPT(M)	1/2" BSP(M), 1/2" NPT(M) & Flanged
1, 2, 6 & 12* (*Suitable for HP chamber only)	2, 3 & 10	1 & 6	63 mm : 1, 2, 4 & 13 100, 125, 150 mm : 1, 2, 3, 5 & 9	2 & 6
IP 65 (Optional : IP 66 / IP 67)	IP 65	IP 65 (Optional : IP 66 / IP 67)	63 mm : IP 55 100, 125, 150 mm : IP 65 (Optional : IP 66 & IP 67)	IP 65 (Optional : IP 66 / IP 67)
GOST	GOST	GOST	GOST	GOST
EN 837-3		EN 837-3	EN 837-3	EN 837-3
CE & ATEX approved Electrical Contacts	Glycerin filled option available	Glycerin filled option available		CE & ATEX approved Electrical Contacts

#### Mountings :

- 1 Wall / surface / projection mounting with bottom entry
- 5 Lower back entry with front flange
- 12 Center back entry with front flange

- 2 Direct bottom entry
- 6 2" pipe / yoke mounting with bottom entry
- 13 Center back entry with mounting bracket

- 3 Direct lower back entry
- 9 Lower back entry with mounting bracket

- 4 Direct center back entry
- 10 In line entry

# Mechanical pressure measurements

- Differential gauges
  - Piston operated
  - Bellow operated
- Low range pressure gauges
  - Diaphragm operated
  - Capsule type



				
AQ	BF	BQ	AF	AP
100 & 150 mm	63, 100 & 150 mm	150 mm	63, 100, 125 & 150 mm	100 & 150 mm
600 .... 6000 mmWC & 1..... 6 bar	2500 .... 6000 mmWC & 1..... 10 bar	4000 .... 6000 mmWC & 1..... 6 bar	-6000 .... -250 mmWC & 250..... 6000 mmWC	-6000...-250 mmWC, 250 ...6000 mmWC & -1...9 bar
1.6 (Ascending)	2.0 (Ascending)	1.0 for 1 to 6 bar 1.6 for 4000 to 6000mmWC	1.6	1.6
AISI 304 SS (Optional : AISI 316 SS), Bayonet	AISI 304 SS (Optional : AISI 316 SS), Bayonet	AISI 304 SS (Optional : AISI 316 SS), Bayonet	AISI 304 SS, (Optional : AISI 316 SS), Bayonet	AISI 304 SS, (Optional : AISI 316 SS), Bayonet
AISI 316L SS (Double Diaphragm), (Optional : Monel)	Teflon, Ceramic magnet & SS spring	AISI 316L SS (Bellow)	AISI 316 SS (Capsule)	AISI 316L SS (Diaphragm), (Optional : Hastelloy C, Monel)
AISI 316 SS, (Optional : AISI 316L SS, Monel)	AISI 316 SS, (Optional : Monel)	AISI 316L SS	AISI 316L SS	AISI 316 SS, (Optional : AISI 316L SS, Hastelloy C, Monel)
1/4" NPT (F), 1/2" BSP(M) & 1/2" NPT(M)	1/4" NPT(F), 1/4" BSP(F) & 1/2" NPT(M)	1/2" BSP(M) & 1/2" NPT(M)	1/4" BSP(M), 1/4" NPT (M), 1/2" BSP(M) & 1/2" NPT(M)	1/2" BSP(M), 1/2" NPT(M) & Flanged
1, 2, 6 & 12* (*Suitable for HP chamber only)	2, 3 & 10	1 & 6	63 mm : 1, 2, 4 & 13 100, 125, 150 mm : 1, 2, 3, 5 & 9	2 & 6
IP 65 (Optional : IP 66 / IP 67)	IP 65	IP 65 (Optional : IP 66 / IP 67)	63 mm : IP 55 100, 125, 150 mm : IP 65 (Optional : IP 66 & IP 67)	IP 65 (Optional : IP 66 / IP 67)
GOST	GOST	GOST	GOST	GOST
EN 837-3		EN 837-3	EN 837-3	EN 837-3
CE & ATEX approved Electrical Contacts	Glycerin filled option available	Glycerin filled option available		CE & ATEX approved Electrical Contacts

#### Mountings :

1 Wall / surface / projection mounting with bottom entry  
5 Lower back entry with front flange  
12 Center back entry with front flange

2 Direct bottom entry  
6 2" pipe / yoke mounting with bottom entry  
13 Center back entry with mounting bracket

3 Direct lower back entry  
9 Lower back entry with mounting bracket

4 Direct center back entry  
10 In line entry

# Accessories







- Needle valves
- Screwed
- Compression fitting

					
Model	NV4	CET	GV8	MGT	
Type	Standard needle valve	Needle valve with compression fitting	Gauge valve	Multiport gauge valve	
Connection	Screwed	Tube fitting	Screwed	Screwed	
Pressure rating	6000 psi (Optional : 10000 psi)	6000 psi (Optional : 10000 psi)	6000 psi (Optional : 10000 psi)	6000 psi (Optional : 10000 psi)	
Size	1/8" to 2"	1/8" to 1"	1/8" to 2"	1/8" to 2"	
Wetted parts	AISI 316 SS, AISI 316L SS, Monel	AISI 316 SS, AISI 316L SS, Monel	AISI 316 SS, AISI 316L SS, Monel	AISI 316 SS, Monel	
Working temperature	Up to 240°C	Up to 240°C	Up to 240°C	240°C	

# Accessories

- Manifold valves
  - Direct mounting
  - Remote mounting
  - Flange mounting



					
Model		2VT	3VQ	3VS	5VR
Type		2 valve	3 valve	3 valve	5 valve
Mounting		Direct	Flange mounting	Remote	Remote
Pressure rating		6000 psi	6000 psi	6000 psi	6000 psi
Size		1/2"	1/2"	1/2"	1/2"
Wetted parts		AISI 316 SS, Monel	AISI 316 SS, Monel	AISI 316 SS, Monel	AISI 316 SS, Monel
Working temperature		240°C (Max 500°C)	240°C (Max 500°C)	240°C (Max 500°C)	240°C (Max 500°C)



# Accessories



- Gauge cock
- Overload protector
- Pulsation dampener
- Siphon

Model	EC	ED	EG	EH
Type	Gauge Cock - 2 way, 3 way	Overload Protector (Gauge saver)	Pulsation dampener (Snubber)	Siphon (Coil type, Pig tail type & U type)
Pressure rating	100 bar	E01 : 0.6 .... 2.5 bar E02 : 4 .... 400 bar	Up to 400 bar	260 bar max
Process connection	1/4", 3/8" & 1/2" BSP / NPT	1/4" NPT (M x F), 1/2" BSP (M x F & 1/2" NPT (M x F)	1/4" NPT (M x F), 1/2" BSP (M x F) & 1/2" NPT (M x F)	1/4", 3/8" & 1/2" BSP / NPT
Wetted parts	AISI 316 SS, AISI 304 SS	AISI 316 SS, AISI 316L SS, Monel, Hastelloy C	AISI 316 SS, AISI 316L SS, Monel, Hastelloy C	AISI 304 SS, AISI 316 SS, AISI 316L SS, CS
Working temperature	Up to 180°C	-20°C to 120°C	- 20 °C to 120 °C	Up to 400°C

# Pressure switches

- Pressure / differential
- Phosphor bronze / Stainless steel
- Weather proof





				
Model	UT	CNI	ZPDW, ZPPW	ZDDW
Type	Bellow type	Adjustable Dead Band - Diaphragm type	Diaphragm / Piston	Diaphragm, Differential
Pressure range	0 ... 30 bar	-1 ... 0 & 0 ... 40 bar	ZPDW : -1 ... 0 & 0 ... 40 bar ZPPW : 5 ... 600 bar	3 ... 600 mbar & 0.1 ... 25 bar
Repeatability (% FSR)	2.0	1.0	ZPDW : 0.5 ZPPW : 1.0	0.5
Type, no. of switches	Micro, SPDT, 1	Micro, SPDT, 1 or 2	Micro, SPDT, 1 or 2	Micro, SPDT, 1 or 2
Switch rating	15 A, 220 VAC & 10 A, 24 VDC	15 A, 250 VAC & 0.4 A, 110 VDC	15 A, 250 VAC, 0.2 A, 220 VDC	15 A, 250 VAC, 0.2 A, 220 VDC
Sensing element material	Phosphor Bronze	AISI 316L SS	AISI 316 SS (Optional: AISI 316L SS)	AISI 316L SS
Process connection	1/4" BSP / NPT	3/8", 1/2" BSP / NPT	3/8", 1/2" BSP / NPT	3/8", 1/2" BSP / NPT
Housing / body material	Steel (plated) with plastic cover	Die Cast Aluminum	Die Cast Aluminum	Die Cast Aluminum
Protection class	IP 32	IP 66	IP 66	IP 66
Approval	GOST	GOST	GOST	GOST
Accessories			Snubber, Chemical seal, Cable Gland	Snubber, Chemical seal, Cable Gland

# Pressure switches






- Stainless steel
- ATEX certified

				
Model	ZPDX, ZPPX	ZDDX		
Type	Diaphragm / Piston	Diaphragm, Differential		
Pressure range	ZPDX : -1 ... 0 & 0 ... 40 bar ZPPX : 5 ... 600 mbar	3 ... 600 mbar & 0.1 ... 25 bar		
Repeatability (% FSR)	ZPDX : 0.5 ZPPX : 1.0	0.5		
Type, no. of switches	Micro, SPDT, 1 or 2	Micro, SPDT, 1 or 2		
Switch rating	15 A, 250 VAC, 0.2 A, 220 VDC	15 A, 250 VAC, 0.2 A, 220 VDC		
Sensing element material	AISI 316 SS (Optional: AISI 316L SS)	AISI 316L SS		
Process connection	3/8", 1/2" BSP / NPT	3/8", 1/2" BSP / NPT		
Housing / body material	Die Cast Aluminum	Die Cast Aluminum		
Protection class	W/P to IP 65 & Explosion proof, Class 1, Div. 2, Gas Groups B, C & D (ExII2G, Eex d IIC T6)	W/P to IP 65 & Explosion proof, Class 1, Div. 2, Gas Groups B, C & D (ExII2G, Eex d IIC T6)		
Approval	GOST, ATEX	GOST, ATEX		
Accessories	Snubber, Chemical seal, Cable Gland	Snubber, Chemical seal, Cable Gland		

# Temperature measurements

- Gauges
  - Gas filled
  - Bimetallic
- Switch



				
Model	CA	CB	Model	ZTD
Type	Gas Filled	Bimetal	Type	Rigid stem / capillary
Nominal size	100, 125, 150, 200, 250 mm	40, 50, 63, 80, 100, 125, 150 mm	Temperature range	10 .... 400°C
Temperature range	-80 .... 650°C	-80 .... 500°C	Repeatability class	1.0
Accuracy class	1.0	1.0	Switch rating	15 A, 250 VAC, 0.2 A, 220 VDC
Case material	AISI 304 SS (Optional AISI 316 SS)	AISI 304 SS (Optional AISI 316 SS)	Stem length	110 .... to .... 600 mm
Stem length	110 .... to .... 600 mm	30 .... to .... 600 mm	Sensing element material	AISI 316 SS
Sensing element material	AISI 316 SS	AISI 316 SS	Process connection	3/8", 1/2" BSP / NPT,
Process connection	3/8", 1/2" BSP / NPT,	3/8", 1/2" BSP / NPT,	Housing / body material	Die Cast Aluminum
Mountings *	1, 2, 3, 5, 8 & 9	2, 4, 8 & 14	Protection class	IP 66 & ATEX
Protection class	IP 65 (Optional : IP 66, IP 67)	IP 65 (Optional : IP 66, IP 67)	Approval	GOST
Approval	GOST	GOST		
Reference standard	EN 13190	EN 13190		


## Mountings :

- |  |                                      |                           |
|--|--------------------------------------|---------------------------|
| 1 Wall / surface / projection mounting with bottom entry | 2 Direct bottom entry                | 3 Direct lower back entry |
| 4 Direct center back entry                               | 5 Lower back entry with front flange | 8 Every angle back entry  |
| 9 Lower back entry with mounting bracket                 | 14 Bottom entry through elbow        |                           |

# Temperature measurements

## ■ RTDs



				
Model	R01	R02	R04	R05/06
Operating temperature	-200 to 600°C	-200 to 600°C	-200 to 600°C	-200 to 600°C
Element type	Simplex, Duplex	Simplex, Duplex	Simplex, Duplex	Simplex, Duplex (Multipoint)
Sheath material	AISI 316 SS	AISI 316 SS	AISI 316 SS	AISI 316 SS
Sheath diameter	3, 4.5, 6, 8, 10 & 12 mm	3, 4.5, 6, 8, 10 & 12 mm	3, 4.5, 6 & 8 mm	3 & 6 mm
Elements	Pt100, Pt500 & Pt1000	Pt100, Pt500 & Pt1000	Pt100, Pt500 & Pt1000	Pt100
Enclosure (housing) material	Die Cast Aluminum, AISI 304 SS, AISI 316 SS	Die Cast Aluminum, AISI 304 SS, AISI 316 SS	Die Cast Aluminum, AISI 304 SS, AISI 316 SS	Die Cast Aluminum, AISI 304 SS, AISI 316 SS
Protection class & type	IP 65, IP 67, IP 68, Flame proof II A II B, Explosion Proof II C, ATEX Approved	IP 65, IP 67, IP 68, Flame proof II A II B, Explosion Proof II C, ATEX Approved	IP 65, IP 67, IP 68, Flame proof II A II B, Explosion Proof II C, ATEX Approved	IP 65, IP 67, IP 68, Flame proof II A II B, Explosion Proof II C, ATEX Approved
Cable gland	Single compression / Double compression	Single compression / Double compression	Single compression / Double compression	Single compression / Double compression
Process connections	1/4" to 3/4" BSP / NPT(M) & Adjustable Flange	1/4" to 3/4" BSP / NPT(M) & Nipple Union Nipple	Weld Pad with integral collar	Nipple & Union, Flexible Hose
Cable gland material	Nikel plated brass, AISI 304 SS, AISI 316 SS	Nikel plated brass, AISI 304 SS, AISI 316 SS	Nikel plated brass, AISI 304 SS, AISI 316 SS	Nikel plated brass, AISI 304 SS, AISI 316 SS
Reference standard	IEC 751 / DIN 43760	IEC 751 / DIN 43760	IEC 751 / DIN 43760	IEC 751 / DIN 43760

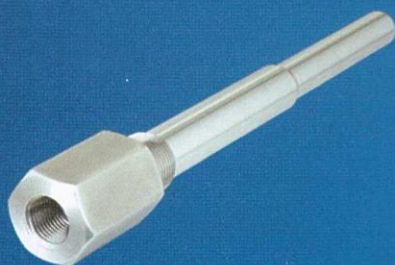
# Temperature measurements

- Thermocouple



					
Model		T01	T02	T07	T10
Elements		J, K, T, E, R, S, B, N	K, R, S, B	K, J, E, N	K, J, E, N, T
Element type		Simplex, Duplex	Simplex, Duplex	Simplex, Duplex	Simplex, Duplex
Sheath material		AISI 316,SS, AISI 310 SS, Inconel 600	AISI 316,SS, AISI 310 SS, Inconel 600	AISI 316,SS, AISI 310 SS, Inconel 600	AISI 316,SS, AISI 310 SS, Inconel 600
Sheath diameter		1, 1.5, 3, 4.5, 6, 8, 10,12 mm	1, 1.5, 3, 4.5, 6, 8, 10,12 mm	1, 1.5, 3, 4.5, 6, 8,10, 12 mm	1, 1.5, 3, 4.5, 6 & 8 mm
Enclosure (housing) material		Die Cast Aluminum, AISI 304 SS, AISI 316 SS	Die Cast Aluminum, AISI 304 SS, AISI 316 SS	Die Cast Aluminum, AISI 304 SS, AISI 316 SS	Plug & Jack Connector
Protection class & type		IP 65, IP 67, IP 68, Flame proof II A II B, Explosion Proof II C, ATEX Approved	IP 65, IP 67, IP 68, Flame proof II A II B, Explosion Proof II C, ATEX Approved	IP 65, IP 67, IP 68, Flame proof II A II B, Explosion Proof II C, ATEX Approved	Standard, High Temperature
Cable gland		Single compression / Double compression	Single compression / Double compression	Single compression / Double compression	
Cable gland material		Nickel plated Brass, AISI 304 SS, AISI 316 SS	Nickel plated Brass, AISI 304 SS, AISI 316 SS	Nickel plated Brass, AISI 304 SS, AISI 316 SS	
Process connections		1/4" to 3/4" BSP / NPT(M) & Nipple Union Nipple	1/4" to 3/4" BSP / NPT(M) & Adjustable Flange	1/4" to 3/4" BSP / NPT(M)	1/4" to 3/4" BSP / NPT(M)
Protecting tube			KER 710, KER 610		
Reference standard		IEC 584.2/ ANSI MC 96.1	IEC 584.2/ ANSI MC 96.1	IEC 584.2/ ANSI MC 96.1	IEC 584.2/ ANSI MC 96.1

# Temperature measurements



- Thermowells
  - Bar stock threaded
  - Bar stock flanged
  - Bar vanstone type

				
Model	W1	W2	W6	W8
Type	Bar Stock (Screwed) : Straight, Straight Reduced Tip, Partial Taper, Full Taper	Bar Stock (Flanged) : Straight, Straight Reduced Tip, Partial Taper, Full Taper	Vanstone type	Fabricated from pipe
Material	AISI 304 SS, AISI 316 SS, Hastelloy C, Monel, Inconel	AISI 304 SS, AISI 316 SS, Hastelloy C, Monel, Inconel	AISI 304 SS, AISI 316 SS, Hastelloy C, Monel, Inconel	AISI 304 SS, AISI 316 SS, Hastelloy C, Monel, Inconel
Instrument connection	3/8" to 1" BSP/NPT	3/8" to 1" BSP/NPT	1/2" NPT	1/2" NPT
Process connection	3/8" to 1" BSP/NPT	1/2" to 3" Flanged	1/2" to 3" Flanged	1/2" to 3" Flanged
Approval	IBR	IBR		
Additional data	Wake Frequency Calculations as per PTC 19.3	Wake Frequency Calculations as per PTC 19.3	Wake Frequency Calculations as per PTC 19.3	

## Note:

1. We offer MOCs for different applications. In case of requirement of MOC other than mentioned in catalogue; please contact our nearest sales office.
2. We carry out standard Test & Calibration as per EN Standards.  
We also offer following customized testing requirements like Dye Penetration, Hydrostatic, Positive Material Identification, NACE Certification, Vibration for Non-Siesmic & Siesmic.  
For any specific requirement to meet your project needs, contact us.
3. We have NABL accredited laboratory & we can offer services of calibration of your master equipments.



Baumer Technologies India Pvt. Ltd.  
(Formerly known as Waaree Instruments Ltd.)



## **HUSSAIN Enterprise**

# 188 (New No.268), Linghi Chetty St., Chennai - 600 001.  
Telefax : 91 - 44 - 2522 4108, 2524 3336, 4216 0108.

E-mail : [haiderhm@airtelmail.in](mailto:haiderhm@airtelmail.in) web : [www.hussainenterprise.in](http://www.hussainenterprise.in)