

INSTRUMENT PRODUCT CATALOGUE

PRESSURE GAUGES





MSF

All SS Pressure Gauge Solid Front

Special Features

- External zero adjustment (Optional)
- Solid Front Design features baffle wall interposed Between the sensing system & the window, and a Pressure relieving back for increased safety
- Accuracy ±0.5% F.S. (Optional)
- Stainless Steel blow off back
- Standard followed EN 837-1

Applications

Industrial Applications:

- Chemical and Petrochemical Industries: Pressure gauges monitor pressure in pipelines, reactors, and storage tanks. They help prevent overpressure situations that could lead to leaks or equipment failure.
- **Process Industries:** Used in oil refineries, power plants, and manufacturing facilities to maintain safe operating conditions.
- Water Treatment Plants: Monitor water pressure in distribution networks and filtration systems.

HVAC and Refrigeration:

- Compressors: Pressure gauges ensure optimal performance by monitoring air and gas pressure.
- Ventilation Systems: Used to maintain proper airflow and pressure in buildings.
- Refrigeration Systems: Monitor refrigerant pressure to prevent system malfunction.

Sanitary and Pharmaceutical Applications:

- Food and Beverage Industry: Pressure gauges ensure safe pressure levels during food processing, brewing, and bottling.
- Medical Equipment: Used in autoclaves, sterilizers, and other medical devices.
- Pharmaceutical Manufacturing: Monitors pressure in drug production processes.

- **Aerospace:** Pressure gauges in aircraft and spacecraft monitor cabin pressure, hydraulic systems, and fuel lines.
- Automotive: Tire pressure gauges help maintain safe driving conditions.
- Automotive: Tire pressure gauges help maintain safe driving conditions.
- Research and Laboratories: Used in experiments, testing, and quality control.

Standard Version: 100 mm & 150 mm

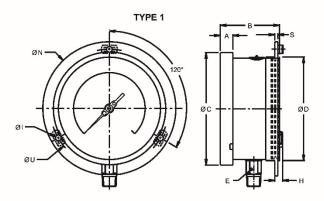
Accuracy	:	± 1.0% of F.S.
Ambient Temperature	:	-20°C to + 65°C
Process Temperature	:	Max. 300° C
Operating pressure range	:	75% of the scale valve
Over pressure limit	:	≤ 100 bar : 125% of the Max. scale value
	:	> 100 to ≤ 600 bar : 125% of the Max. scale value
	:	> 600 to ≤ 1600 bar : 110% of the Max. scale value

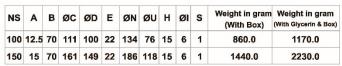
Case & Besel	:	AISI 304 SS (Bayonet Type)
Bourdon		AISI 316L SS
Socket	:	AISI 316L SS (Directly welded to case)
Movement	:	AISI 304 SS
Joints	• •	Tig Argon Arc Welding

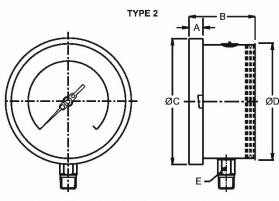
Protection	:	IP 68
Dial	• •	Aluminum, Black gradation on white background
Pointer	:	Aluminum, Black colored Micrometer zero adjustable
Window	:	Shatterproof / Safety Glass
Blow off Disc	:	AISI 304 SS
Gasket & Filling Plug	:	Neoprene

Temperature effect:

The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement: - Formula: \pm 0.04 X (t2-t1) % of F.S. where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C







NS	A	В	ØC	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	70	111	100	22	760.0	1070.0
150	15	70	161	149	22	1300.0	2090.0

Notes: • Drawings are not to scale. • All Dimensions are in mm

- NS = Nominal Size
- Weights mentioned are approximate and for standard product.
- · Weight can be different after selection of options.

Note: We offer National / International Scales like kPa, MPa, bar, psi, kg/cm² Dual Scale like kPa with psi, kPa with bar, bar with psi or Equivalent scales as per the requirement can be provided on request. Following are the example tables for kg/cm² & psi scales

Range with nominal sizes

Single scale (kg/cm² or bar)								
0/0.6	0/4	0/25	0/160	0/1000				
0/1	0/6	0/40	0/250	0/1600				
0/1.6	0/10	0/60	0/400					
0/2.5	0/16	0/100	0/600					

Dual scale (psi with kg/cm²)

psi	kg/cm²	psi	kg/cm²	psi	kg/cm²
0/15	0/1	0/400	0/28	0/4000	0/280
0/30	0/2	0/500	0/35	0/5000	0/350
0/60	0/4	0/600	0/40	0/6000	0/400
0/100	0/7	0/1000	0/70	0/10000	0/700
0/150	0/10	0/1500	0/100	0/15000	0/1000
0/230	0/16	0/2300	0/160	0/23000	0/1600
0/300	0/20	0/3000	0/200		

Vacuum & Compound range

Dual scale								
inHg with psi	mmHg with kg/cm²	inHg with psi	mmHg with kg/cm²	inHg	with psi	mmHg with kg/cm²		
- 30/0	- 760 / 0	- 30/60	- 760 / 4	- 3	0/200	- 760 /14		
- 30/15	- 760 / 1	- 30/100	- 760 / 7	- 3	0/300	- 760 / 21		
- 30/30	- 760 / 2	- 30/150	- 760 / 10					
Single scale (kg/cm² or bar)								
- 1/0		- 1/1.5	- 1/5			- 1/15		
- 1/0.6		- 1/3	- 1/9			- 1/24		

Accessories (Refer datasheet for complete specifications)

СТ	Cooling tower	*	Needle valve
GC	Gauge cock	SN	Snubber
GS	Overload protector (gauge saver)**	SP	Siphon

^{*} Refer catalogue for Valves & Manifolds

^{**} For Pressure Ranges.





MPG1

All SS (316 wetted Parts) Pressure Gauge Bourdon type

Special Features

- Stainless Steel case & measuring system.
- Socket directly welded to case
- Dry & liquid filled version
- Confirms to standard EN 837-1 (for NS 100, 150 & 250 mm)

Applications

Industrial Applications:

- Chemical and Petrochemical Industries: Pressure gauges monitor pressure in pipelines, reactors, and storage tanks. They help prevent overpressure situations that could lead to leaks or equipment failure
- Process Industries: Used in oil refineries, power plants, and manufacturing facilities to maintain safe
 operating conditions.
- Water Treatment Plants: Monitor water pressure in distribution networks and filtration systems.

HVAC and Refrigeration:

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Sanitary and Pharmaceutical Applications:

- **Food and Beverage Industry:** Pressure gauges ensure safe pressure levels during food processing, brewing, and bottling.
- Medical Equipment: Used in autoclaves, sterilizers, and other medical devices.
- Pharmaceutical Manufacturing: Monitors pressure in drug production processes.

- **Aerospace:** Pressure gauges in aircraft and spacecraft monitor cabin pressure, hydraulic systems, and fuel lines.
- Marine: Engine Monitoring, Hydraulic Systems, Fuel Systems, Cooling Systems.
- Onshore & Offshore: Process instrumentation
- Refinery: Various critical process requiring precise measurement.
- Automotive: Tire pressure gauges help maintain safe driving conditions.
- Research and Laboratories: Used in experiments, testing, and quality control.

Standard Version: 100 mm, 125 mm, 150 mm, 200 mm & 250 mm

Accuracy	:	± 1.0% of F.S.
Ambient Temperature	:	-25°C to + 65°C
Process Temperature	:	Max. 300° C
Operating pressure range	:	75% of the scale value
Over pressure limit	:	< 100 bar : 125% of the Max. scale value
	:	> 100 to < 600 bar : 125% of the Max. scale value
	:	> 600 to < 1600 bar : 110% of the Max. scale value

Case & Besel	:	AISI 304 SS (Bayonet Type)
Bourdon	:	AISI 316L SS
Socket	:	AISI 316 SS (Directly welded to case)
Movement	:	AISI 304 SS
Joints	:	Tig Argon Arc Welding

Protection	:	IP 68
Dial	:	Aluminum, Black gradation on white background
Pointer	:	Aluminum, Black colored Micrometer zero adjustable
Window	:	Toughened Glass
Blow off Disc	:	Neoprene
Gasket & Filling Plug	:	Neoprene

Dry / Fillable version

Fillable Dampening Liquid	Glycerin 99.7% (option – DFG)
Ambient Temperature	Max. 65°C
Process Temperature	Max. 100°C
Window	Toughened Glass
Other features	Refer Specification of Standard Version

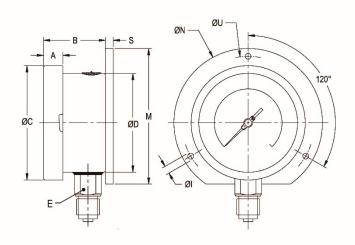
Glycerin filled version

Accuracy	± 1.0% of F.S.
Ambient Temperature	Max. 65°C
Process Temperature	Max. 100°C
Window	Toughened Glass
Dampening Liquid	Glycerin 99.7% (Other available as options)
Other features	Refer Specification of Standard Version

Temperature effect:

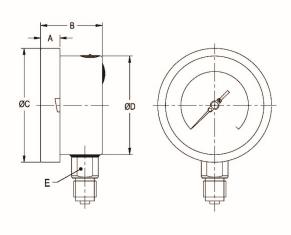
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement: - Formula: $\pm 0.04 \text{ X}$ (t2-t1) % of F.S. where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C

TYPE 1



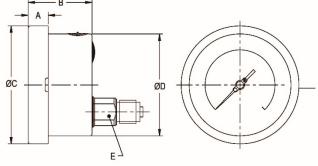
NS	Α	В	øс	ØD	Е	М	s	ØI	ØN	øυ	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	45	111	100	22	128	5	6	134	118	720.0	1025.0
125	15	46	129	119	22	143	5	6	150	137	845.0	1165.0
150	15	47	161	149	22	174.5	5	6	186	168	1160.0	1895.0
200	18	49	216	200	22	229	1.5	7	245	230	2020.0	2780.0
250	18	55	262	247	22	286.5	1.5	7	290	276	2400.0	3220.0

TYPE 2



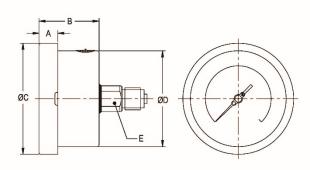
NS	Α	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box
100	12.5	48	111	100	22	640.0	935.0
125	15	48	129	119	22	750.0	1070.0
150	15	49	161	149	22	1020.0	1755.0
200	18	49	216	200	22	1720.0	2480.0
250	18	55	263	248	22	2000.0	2820.0

TYPE 3



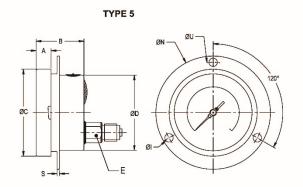
NS	A	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	47	111	100	22	640.0	935.0
125	15	48	129	119	22	750.0	1070.0
150	15	49	161	149	22	1000.0	1735.0
200	18	49	216	200	22	1500.0	2260.0
250	18	52	263	248	22	1800.0	2620.0

TYPE 4

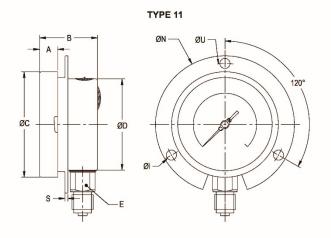


NS	Α	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	47	111	100	22	640.0	935.0

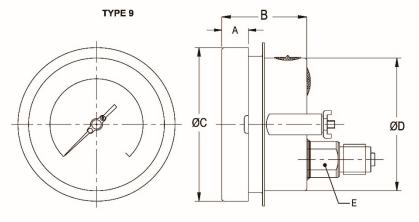
Note : For Type 4 Back Side Blow Out Disc is Not Available

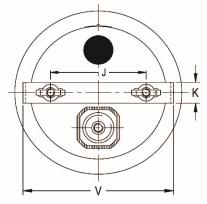


NS	A	В	øс	ØD	E	s	ØI	ØN	øυ	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	48	111	100	22	1	6	134	118	695.0	990.0
125	15	48	129	119	22	1	6	150	137	850.0	1170.0
150	15	49	161	149	22	1	6	186	168	1100.0	1835.0
200	18	49	216	200	22	1.5	7	245	230	2000.0	2760.0
250	18	52	263	248	22	1.5	7	290	276	2250.0	3070.0



NS	A	В	øс	ØD	E	s	ØI	ØN	ØU		Weight in gram (With Glycerin & Box)
100	12.5	48	111	100	22	1	6	134	118	730.0	1025.0
125	15	48	129	119	22	4	6	150	137	815.0	1135.0
150	15	49	161	149	22	5	6	186	168	1100.0	1835.0





NS	A	В	øс	ØD	Е	J	ĸ	v	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	48	111	100	22	62	16	108	740.0	1035.0
125	15	48	129	119	22	65	16	125	890.0	1210.0
150	15	49	161	149	22	100	16	166	1100.0	1835.0
200	18	49	216	200	22	165	16	208	1920.0	2680.0
250	18	52	263	248	22	180	30	270	2300.0	3120.0

Notes: • Drawings are not to scale. • All Dimensions are in mm . • NS = Nominal size
• Weights mentioned are approximate and for standard product. Weight can be different after selection of options.

Range Table

Note: We offer National / International Scales like kPa, MPa, bar, psi, kg/cm² & Dual Scale like kPa with psi, kPa with bar, bar with psi or Equivalent scales as per the requirement can be provided on request. Following are the example tables for kg/cm2 psi scales.

Pressure							
Single Scale (kg/cn	n² or bar)						
0/0.6	0/4	0/25	0/160		0/1000		
0/1	0/6	0/40	0/250		0/1600		
0/1.6	0/10	0/60	0/400				
0/2.5	0/16	0/100	0/600				
ual Scale (psi with	kg/cm²)						
psi	kg/cm²	psi	kg/cm²		psi	kg/cm²	
0/15	0/1	0/400	0/28		0/4000	0/280	
0/30	0/2	0/500	0/35		0/5000	0/350	
0/60	0/4	0/600	0/40		0/6000	0/420	
0/100	0/7	0/1000	0/70		0/10000	0/700	
0/150	0/10	0/1500	0/100		0/15000	0/1000	
0/230	0/16	0/2300	0/160		0/23000	0/1600	
0/300	0/20	0/3000	0/200				
acuum & Compour	ıd						
ual Scale (inHg wi	th psi & mmHg with kg	/cm²)					
inHg with psi	mmHg with kg/cm²	inHg with psi	mmHg with kg/cm²	inl	Hg with psi	mmHg with kg/cm	
- 30/0	- 760/0	- 30/60	- 760/4		- 30/200	- 760/14	
- 30/15	- 760/1	- 30/100	- 760/7		- 30/300 - 760/2		
- 30/30	- 760/2	- 30/150	- 760/10		- 30/350	- 760/25	
ingle Scale (kg/cm	²)						
- 1/0		- 1/1.5	- 1/5			- 1/15	
- 1/0.6		- 1/3	- 1/9			- 1/24	
Receiver							
	Linear scale			Squar	e root scale		
(0	- 100% Internal Scale)		(0	- 10 Sq - F	Root Internal S	cale)	
	External Scale			Exte	rnal Scale		
0.2	- 1 kg/cm² or 3 - 15 psi		0.2 - 1 kg/cm² or 3 - 15 psi				
((0-100% linear scale)		(0.2 - 1 kg/cm²)				
reon (with tempera	ture scale)		Ammonia (with temp	erature so	ale)		
lote : For temperatur	e scales, please provide	refrigerant name.					
Range (psi)			(kg/cn	1²)		(psi)	
	0-300		-1to12.		-30 inHg - 150		

0-500 Accessories (refer datasheet for complete specifications)

-30 inHg - 300

СТ	Cooling tower	GS	Over load protector (gauge saver)**	SN	Snubber
GC	Gauge cock	*	Needle valve	SP	Siphon
* Re	fer catalogue for Valves & Manifolds.		** For Pressure Ranges.		

-1to16

-1to25

-30 inHg - 300

0 - 300

Note: For Any Non Standard or Special Scale Marking Consult Factory





MPG2

All SS (316 wetted Parts) Pressure Gauge Bourdon type

Special Features

- Stainless Steel case & measuring system.
- Socket directly welded to case
- Dry & liquid filled version
- Confirms to standard EN 837-1 (for NS 100, 150 & 250 mm)

Applications

Industrial Applications:

- Chemical and Petrochemical Industries: Pressure gauges monitor pressure in pipelines, reactors, and storage tanks. They help prevent overpressure situations that could lead to leaks or equipment failure.
- Process Industries: Used in oil refineries, power plants, and manufacturing facilities to maintain safe
 operating conditions.
- Water Treatment Plants: Monitor water pressure in distribution networks and filtration systems.

HVAC and Refrigeration:

- **Compressors:** Pressure gauges ensure optimal performance by monitoring air and gas pressure.
- Ventilation Systems: Used to maintain proper airflow and pressure in buildings.
- Refrigeration Systems: Monitor refrigerant pressure to prevent system malfunction.

Sanitary and Pharmaceutical Applications:

- Food and Beverage Industry: Pressure gauges ensure safe pressure levels during food processing, brewing, and bottling.
- Medical Equipment: Used in autoclaves, sterilizers, and other medical devices.
- Pharmaceutical Manufacturing: Monitors pressure in drug production processes.

- Aerospace: Pressure gauges in aircraft and spacecraft monitor cabin pressure, hydraulic systems, and fuel lines.
- Marine: Engine Monitoring, Hydraulic Systems, Fuel Systems, Cooling Systems.
- Onshore & Offshore: Process instrumentation.
- Refinery: Various critical process requiring precise measurement.
- Automotive: Tire pressure gauges help maintain safe driving conditions.
- Research and Laboratories: Used in experiments, testing, and quality control.

Standard Version: 100 mm, 125 mm, 150 mm, 200 mm & 250 mm

Accuracy	:	± 1.0% of F.S.
Ambient Temperature	:	-25°C to + 65°C
Process Temperature	:	Max. 300° C
Operating pressure range	:	75% of the scale value
Over pressure limit	:	< 100 bar : 125% of the Max. scale value
	• •	> 100 to < 600 bar : 125% of the Max. scale value
	:	> 600 to < 1600 bar : 110% of the Max. scale value

Case & Besel	:	AISI 304 SS (Bayonet Type)
Bourdon	:	AISI 316L SS
Socket	:	AISI 304 SS (Directly welded to case)
Movement	:	AISI 304 SS
Joints	:	Tig Argon Arc Welding

Protection	:	IP 68
Dial	:	Aluminum, Black gradation on white background
Pointer	:	Aluminum, Black colored Micrometer zero adjustable
Window	:	Toughened Glass
Blow off Disc	:	Neoprene
Gasket & Filling Plug	:	Neoprene

Dry / Fillable version

Fillable Dampening Liquid	Glycerin 99.7% (option – DFG)
Ambient Temperature	Max. 65°C
Process Temperature	Max. 100°C
Window	Toughened Glass
Other features	Refer Specification of Standard Version

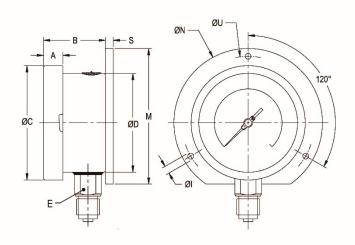
Glycerin filled version

Accuracy	± 1.0% of F.S.				
Ambient Temperature	Max. 65°C				
Process Temperature	Max. 100°C				
Window	Toughened Glass				
Dampening Liquid	Glycerin 99.7% (Other available as options)				
Other features	Refer Specification of Standard Version				

Temperature effect:

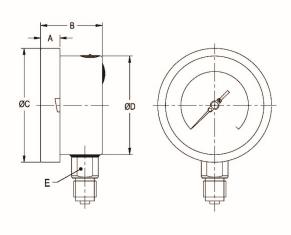
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement: - Formula: $\pm 0.04 \text{ X}$ (t2-t1) % of F.S. where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C

TYPE 1



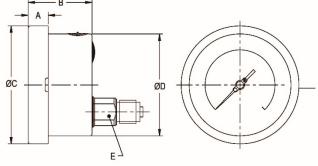
NS	Α	В	øс	ØD	Е	М	s	ØI	ØN	øυ	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	45	111	100	22	128	5	6	134	118	720.0	1025.0
125	15	46	129	119	22	143	5	6	150	137	845.0	1165.0
150	15	47	161	149	22	174.5	5	6	186	168	1160.0	1895.0
200	18	49	216	200	22	229	1.5	7	245	230	2020.0	2780.0
250	18	55	262	247	22	286.5	1.5	7	290	276	2400.0	3220.0

TYPE 2



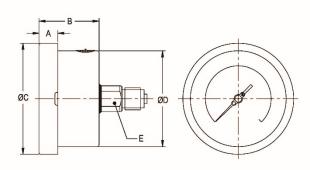
NS	Α	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box
100	12.5	48	111	100	22	640.0	935.0
125	15	48	129	119	22	750.0	1070.0
150	15	49	161	149	22	1020.0	1755.0
200	18	49	216	200	22	1720.0	2480.0
250	18	55	263	248	22	2000.0	2820.0

TYPE 3



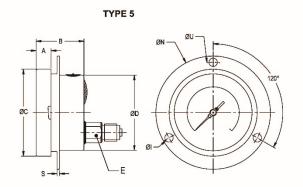
NS	A	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	47	111	100	22	640.0	935.0
125	15	48	129	119	22	750.0	1070.0
150	15	49	161	149	22	1000.0	1735.0
200	18	49	216	200	22	1500.0	2260.0
250	18	52	263	248	22	1800.0	2620.0

TYPE 4

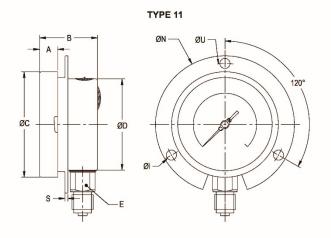


NS	Α	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	47	111	100	22	640.0	935.0

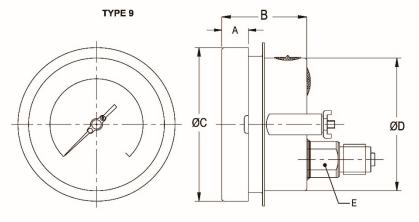
Note : For Type 4 Back Side Blow Out Disc is Not Available

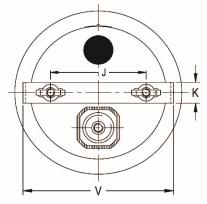


NS	A	В	øс	ØD	E	s	ØI	ØN	øυ	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	48	111	100	22	1	6	134	118	695.0	990.0
125	15	48	129	119	22	1	6	150	137	850.0	1170.0
150	15	49	161	149	22	1	6	186	168	1100.0	1835.0
200	18	49	216	200	22	1.5	7	245	230	2000.0	2760.0
250	18	52	263	248	22	1.5	7	290	276	2250.0	3070.0



NS	A	В	øс	ØD	E	s	ØI	ØN	ØU		Weight in gram (With Glycerin & Box)
100	12.5	48	111	100	22	1	6	134	118	730.0	1025.0
125	15	48	129	119	22	4	6	150	137	815.0	1135.0
150	15	49	161	149	22	5	6	186	168	1100.0	1835.0





NS	A	В	øс	ØD	Е	J	ĸ	v	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	48	111	100	22	62	16	108	740.0	1035.0
125	15	48	129	119	22	65	16	125	890.0	1210.0
150	15	49	161	149	22	100	16	166	1100.0	1835.0
200	18	49	216	200	22	165	16	208	1920.0	2680.0
250	18	52	263	248	22	180	30	270	2300.0	3120.0

Notes: • Drawings are not to scale. • All Dimensions are in mm . • NS = Nominal size
• Weights mentioned are approximate and for standard product. Weight can be different after selection of options.

Range Table

Note: We offer National / International Scales like kPa, MPa, bar, psi, kg/cm² & Dual Scale like kPa with psi, kPa with bar, bar with psi or Equivalent scales as per the requirement can be provided on request. Following are the example tables for kg/cm²& psi scales.

Pressure					
Single Scale (kg/cn	n² or bar)				
0/0.6	0/4	0/25	0/160	0/1000	
0/1	0/6	0/40	0/250	0/1600	
0/1.6	0/10	0/60	0/400		
0/2.5	0/16	0/100	0/600		
Dual Scale (psi with	kg/cm²)				
psi	kg/cm²	psi	kg/cm²	psi	kg/cm²
0/15	0/1	0/400	0/28	0/4000	0/280
0/30	0/2	0/500	0/35	0/5000	0/350
0/60	0/4	0/600	0/40	0/6000	0/420
0/100	0/7	0/1000	0/70	0/10000	0/700
0/150	0/10	0/1500	0/100	0/15000	0/1000
0/230	0/16	0/2300	0/160	0/23000	0/1600
0/300	0/20	0/3000	0/200		
/acuum & Compour	nd				
Dual Scale (inHg wi	th psi & mmHg with kg/c	cm²)			
inHg with psi	mmHg with kg/cm²	inHg with psi	mmHg with kg/cm²	inHg with psi	mmHg with kg/cm ²
			3 3	g po.	mining man ng. cm
- 30/0	- 760/0	- 30/60	- 760/4	- 30/200	- 760/14
- 30/0 - 30/15	- 760/0 - 760/1				
		- 30/60	- 760/4	- 30/200	- 760/14
- 30/15 - 30/30	- 760/1 - 760/2	- 30/60 - 30/100	- 760/4 - 760/7	- 30/200 - 30/300	- 760/14 - 760/21
- 30/15 - 30/30	- 760/1 - 760/2 n²)	- 30/60 - 30/100	- 760/4 - 760/7	- 30/200 - 30/300	- 760/14 - 760/21
- 30/15 - 30/30 Single Scale (kg/cm	- 760/1 - 760/2 1²)	- 30/60 - 30/100 - 30/150	- 760/4 - 760/7 - 760/10	- 30/200 - 30/300	- 760/14 - 760/21 - 760/25
- 30/15 - 30/30 Single Scale (kg/cm - 1/0 - 1/0.6	- 760/1 - 760/2 1²)	- 30/60 - 30/100 - 30/150	- 760/4 - 760/7 - 760/10	- 30/200 - 30/300	- 760/14 - 760/21 - 760/25
- 30/15 - 30/30 Single Scale (kg/cm - 1/0 - 1/0.6	- 760/1 - 760/2 1²)	- 30/60 - 30/100 - 30/150	- 760/4 - 760/7 - 760/10	- 30/200 - 30/300	- 760/14 - 760/21 - 760/25
- 30/15 - 30/30 Single Scale (kg/cm - 1/0 - 1/0.6 Receiver	- 760/1 - 760/2 1²)	- 30/60 - 30/100 - 30/150	- 760/4 - 760/7 - 760/10 - 1/5 - 1/9	- 30/200 - 30/300 - 30/350	- 760/14 - 760/21 - 760/25 - 1/15 - 1/24
- 30/15 - 30/30 Single Scale (kg/cm - 1/0 - 1/0.6 Receiver	- 760/1 - 760/2 n²) Linear scale	- 30/60 - 30/100 - 30/150	- 760/4 - 760/7 - 760/10 - 1/5 - 1/9	- 30/200 - 30/300 - 30/350 Square root scale	- 760/14 - 760/21 - 760/25 - 1/15 - 1/24
- 30/15 - 30/30 Single Scale (kg/cm - 1/0 - 1/0.6 Receiver	- 760/1 - 760/2 12) Linear scale - 100% Internal Scale)	- 30/60 - 30/100 - 30/150	- 760/4 - 760/7 - 760/10 - 1/5 - 1/9	- 30/200 - 30/300 - 30/350 Square root scale 0 Sq - Root Internal S	- 760/14 - 760/21 - 760/25 - 1/15 - 1/24
- 30/15 - 30/30 Single Scale (kg/cm - 1/0 - 1/0.6 Receiver (0	- 760/1 - 760/2 A²) Linear scale - 100% Internal Scale) External Scale	- 30/60 - 30/100 - 30/150	- 760/4 - 760/7 - 760/10 - 1/5 - 1/9	- 30/200 - 30/300 - 30/350 Square root scale 0 Sq - Root Internal S External Scale	- 760/14 - 760/21 - 760/25 - 1/15 - 1/24
- 30/15 - 30/30 Single Scale (kg/cm - 1/0 - 1/0.6 Receiver (0	- 760/1 - 760/2 1²) Linear scale - 100% Internal Scale) External Scale 2 - 1 kg/cm² or 3 - 15 psi (0-100% linear scale)	- 30/60 - 30/100 - 30/150	- 760/4 - 760/7 - 760/10 - 1/5 - 1/9	- 30/200 - 30/300 - 30/350 Square root scale 0 Sq - Root Internal S External Scale 2 - 1 kg/cm² or 3 - 15 µ (0.2 - 1 kg/cm²)	- 760/14 - 760/21 - 760/25 - 1/15 - 1/24
- 30/15 - 30/30 Single Scale (kg/cm - 1/0 - 1/0.6 Receiver (0 0.2	- 760/1 - 760/2 1²) Linear scale - 100% Internal Scale) External Scale 2 - 1 kg/cm² or 3 - 15 psi (0-100% linear scale)	- 30/60 - 30/100 - 30/150 - 1/1.5 - 1/3	- 760/4 - 760/7 - 760/10 - 1/5 - 1/9	- 30/200 - 30/300 - 30/350 Square root scale 0 Sq - Root Internal S External Scale 2 - 1 kg/cm² or 3 - 15 µ (0.2 - 1 kg/cm²)	- 760/14 - 760/21 - 760/25 - 1/15 - 1/24
- 30/15 - 30/30 Single Scale (kg/cm - 1/0 - 1/0.6 Receiver (0 0.2	- 760/1 - 760/2 2) Linear scale - 100% Internal Scale) External Scale 2 - 1 kg/cm² or 3 - 15 psi (0-100% linear scale) ture scale)	- 30/60 - 30/100 - 30/150 - 1/1.5 - 1/3	- 760/4 - 760/7 - 760/10 - 1/5 - 1/9	- 30/200 - 30/300 - 30/350 Square root scale 0 Sq - Root Internal S External Scale 2 - 1 kg/cm² or 3 - 15 µ (0.2 - 1 kg/cm²) ature scale)	- 760/14 - 760/21 - 760/25 - 1/15 - 1/24
- 30/15 - 30/30 Single Scale (kg/cm - 1/0 - 1/0.6 Receiver (0 0.2 (Freon (with tempera	- 760/1 - 760/2 2) Linear scale - 100% Internal Scale) External Scale 2 - 1 kg/cm² or 3 - 15 psi (0-100% linear scale) ture scale)	- 30/60 - 30/100 - 30/150 - 1/1.5 - 1/3	- 760/4 - 760/7 - 760/10 - 1/5 - 1/9 (0 - 1	- 30/200 - 30/300 - 30/350 Square root scale 0 Sq - Root Internal S External Scale 2 - 1 kg/cm² or 3 - 15 p (0.2 - 1 kg/cm²) ature scale)	- 760/14 - 760/21 - 760/25 - 1/15 - 1/24
- 30/15 - 30/30 Single Scale (kg/cm - 1/0 - 1/0.6 Receiver (0 0.2 (recon (with tempera	- 760/1 - 760/2 12) Linear scale - 100% Internal Scale) External Scale 2 - 1 kg/cm² or 3 - 15 psi (0-100% linear scale) ture scale) re scales, please provide rescales	- 30/60 - 30/100 - 30/150 - 1/1.5 - 1/3	- 760/4 - 760/7 - 760/10 - 1/5 - 1/9 (0 - 1 0.2 Ammonia (with tempera	- 30/200 - 30/300 - 30/350 Square root scale 0 Sq - Root Internal S External Scale 2 - 1 kg/cm² or 3 - 15 p (0.2 - 1 kg/cm²) ature scale)	- 760/14 - 760/21 - 760/25 - 1/15 - 1/24 scale)

GS Over load protector (gauge saver)**

** For Pressure Ranges.

Needle valve

SN Snubber

SP Siphon

Note: For Any Non Standard or Special Scale Marking Consult Factory

Cooling tower

* Refer catalogue for Valves & Manifolds.

GC Gauge cock





MPG3

All SS Pressure Gauge Bourdon type (Two Part Connection System)

Special Features

- Stainless Steel case & measuring system.
- Rugged Construction
- Dry & liquid filled
- Confirms to standard EN 837-1

Applications

Industrial Applications:

- Chemical and Petrochemical Industries: Pressure gauges monitor pressure in pipelines, reactors, and storage tanks. They help prevent overpressure situations that could lead to leaks or equipment failure.
- Process Industries: Used in oil refineries, power plants, and manufacturing facilities to maintain safe
 operating conditions.
- Water Treatment Plants: Monitor water pressure in distribution networks and filtration systems.

HVAC and Refrigeration:

- **Compressors:** Pressure gauges ensure optimal performance by monitoring air and gas pressure.
- Ventilation Systems: Used to maintain proper airflow and pressure in buildings.
- Refrigeration Systems: Monitor refrigerant pressure to prevent system malfunction.

Sanitary and Pharmaceutical Applications:

- Food and Beverage Industry: Pressure gauges ensure safe pressure levels during food processing, brewing, and bottling.
- Medical Equipment: Used in autoclaves, sterilizers, and other medical devices.
- *Pharmaceutical Manufacturing:* Monitors pressure in drug production processes.

- Aerospace: Pressure gauges in aircraft and spacecraft monitor cabin pressure, hydraulic systems, and fuel lines.
- Marine: Engine Monitoring, Hydraulic Systems, Fuel Systems, Cooling Systems.
- Onshore & Offshore: Process instrumentation
- Refinery: Various critical process requiring precise measurement.
- Automotive: Tire pressure gauges help maintain safe driving conditions.
- Research and Laboratories: Used in experiments, testing, and quality control.

Standard Version: 40 mm, 50 mm, 63 mm & 80 mm

Accuracy	:	± 1.6% of F.S.
Ambient Temperature	:	-25°C to + 65°C
Process Temperature	:	Max. 180° C
Operating pressure range	:	75% of the scale value
Over pressure limit	:	< 100 bar : 125% of the Max. scale value
	:	> 100 to < 600 bar : 125% of the Max. scale value
	:	> 600 to < 1600 bar : 110% of the Max. scale value

Case & Besel	:	AISI 304 SS (Crimped Besel) / Optional Bayonet Type for NS63 & 83mm
Bourdon	:	AISI 316L SS
Socket	:	AISI 316 SS
Movement	:	AISI 304 SS
Joints	••	Tig Argon Arc Welding

Protection	:	IP 68
Dial	:	Aluminum, Black gradation on white background
Pointer	:	Black Colored, Fixed
Window	:	Plexi Glass / Toughened Glass for Option SAB
Blow off Disc	:	Neoprene
Gasket & Filling Plug	:	Neoprene

Dry / Fillable version

Fillable Dampening Liquid	Glycerin 99.7% (option – DFG)
Ambient Temperature	Max. 65°C
Process Temperature	Max. 100°C
Window	Plexi Glass / Toughened Glass for Option SAB
Other features	Refer Specification of Standard Version

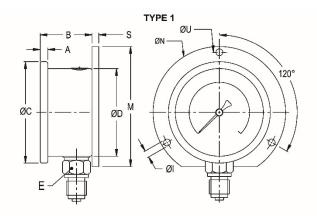
Glycerin filled version

Accuracy	± 1.6% of F.S.				
Ambient Temperature	Max. 65°C				
Process Temperature	Max. 100°C				
Window	Plexi Glass / Toughened Glass for Option SAB				
Dampening Liquid	Glycerin 99.7% (Other available as options)				
Other features	Refer Specification of Standard Version				

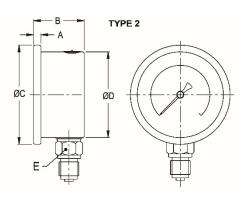
Temperature effect:

The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement: - Formula: $\pm 0.04 \text{ X}$ (t2-t1) % of F.S. where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C

Dimensions - Standard Version (Crimped /Rolling Bezel)

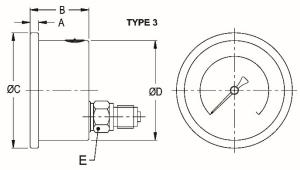


NS	A	В	øc	ØD	E	s	ØN	ØI	øυ	М	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
63	6.5	30.5	69	62.5	A/F 14	7	86	3.6	75	80	190.0	250.0

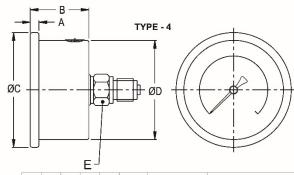


NS	A	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box
40*	5	29	45.5	41	A/F 14	90.0	130.0
50	5	29	57.5	51.5	A/F 14	125.0	185.0
63	6.5	30.5	69	62.5	A/F 14	140.0	200.0

* Push Fit type (standard)

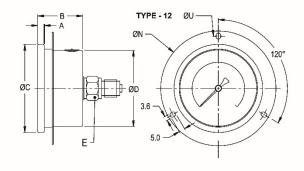


NS	A	В	øc	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
63	6.5	30.5	69	62.5	A/F 14	160.0	220.0

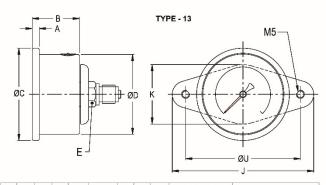


NS	A	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
40*	5	29	45.5	41	A/F 14	100.0	140.0
50	4.5	29	57.5	51.5	A/F 14	117.0	167.0
63	6.5	30.5	69	62.5	A/F 14	170.0	230.0

^{*} Rolling type (standard)



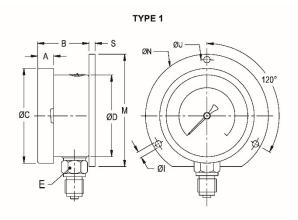
NS	A	В	øc	ØD	E	ØN	øυ	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
63	6.5	30.5	69	62.5	A/F 14	86	75	220.0	280.0



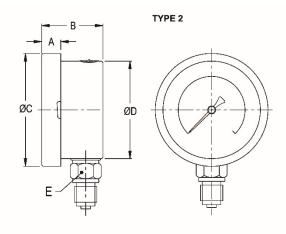
NS	A	В	øс	ØD	E	J	к	Øυ	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
50	5	29	57	51.5	A/F 14	91	38	70.5	180.0	240.0
63	6.5	30.5	69	62.5	A/F 14	91	38	70.5	210.0	270.0

Notes: • Drawings are not to scale. • All Dimensions are in mm . • NS = Nominal size • Weights mentioned are approximate and for standard product. Weight can be different after selection of options.

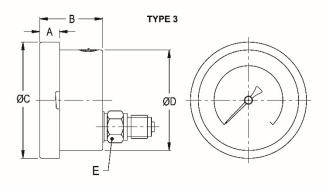
Dimensions – Optional Version with Option SAB (Snap Action Bayonet type Bezel)



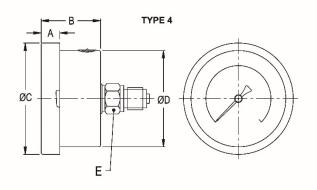
NS	A	В	øc	ØD	E	s	ØN	ØI	øu	М	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
63	12	32	70	63	A/F 14	1	86	3.5	75	80	215.0	265.0
80	12	35	90	80	A/F 14	1	110	5	94	95	300.0	380.0



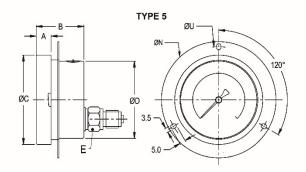
NS	Α	В	øc	ØD E Weight in gran		Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
63	12	32	70	63	A/F 14	180.0	240.0
80	12	35	90	80	A/F 14	250.0	330.0



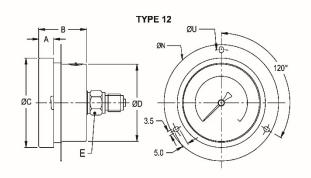
NS	A	В	øc	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
63	12	32	70	63	A/F 14	190.0	250.0



NS	A	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)		
63	12	32	70	63	A/F 14	188.0	250.0		
80	12	35	90	80	A/F 14	240.0	320.0		



NS	Α	В	øс	ØD	E	ØN	øυ	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
63	12	32	70	63	A/F 14	86	75	213.0	275.0



NS	A	В	øc	ØD	E	ØN	Øυ	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)	
63	12	32	70	63	A/F 14	86	75	213.0	275.0	
50	12	32	59	52	A/F 14	76	65	200.0	250.0	

Range Table

Note: We offer Pressure ranges, Vacuum ranges and Compound ranges in Scales like kPa, MPa, bar, psi, kg/cm²& Dual Scale like kPa with psi, kPa with bar, bar with psi or scales as per the requirement can be provided on request. Following are the example tables for kg/cm²& psi scales.

Range with nominal sizes

minal size						
inge (psi with kg/cm)		40 mm	50 mm	63 mm	80 mm	
psi	kg/cm²					
-30 inHg / 0	-760 mmHg / 0	<i>'</i>	~	<i>'</i>	~	
0/15 psi	0/1 kg/cm²	<i>'</i>	~	<i>'</i>	~	
0/30 psi	0/2 kg/cm ²	<i>'</i>	~	<i>'</i>	~	
0/60 psi	0/4 kg/cm ²	~	~	~	~	
0/100 psi	0/7 kg/cm ²	<i>'</i>	~	~	~	
0/150 psi	0/10 kg/cm²	~	~	~	~	
0/230 psi	0/16 kg/cm²	~	~	~	~	
0/300 psi	0/20 kg/cm²	~	~	~	~	
0/400 psi	0/28 kg/cm ²	V	V	~	~	
0/500 psi	0/35 kg/cm ²	~	V	~	~	
0/600 psi	0/42 kg/cm²	V	V	~	V	
0/1000 psi	0/70 kg/cm²	~	V	~	V	
0/1500 psi	0/100kg/cm ²	~	V	~	~	
0/2300 psi	0/160 kg/cm ²	~	~	~	~	
0/3000 psi	0/200 kg/cm ²	V	~	~	~	
0/4000 psi	0/280 kg/cm ²	~	~	~	~	
0/5000 psi	0/350 kg/cm ²	~	~	~	~	
0/6000 psi	0/400 kg/cm ²	~	~	~	V	
0/10000 psi	0/700 kg/cm ²	×	~	~	V	
0/15000 psi	0/1000 kg/cm ²	×	×	✓	V	
- 30inHg /30	- 1/2 kg/cm²	×	V	~	V	
- 30inHg /60	- 1/4 kg/cm²	×	V	~	V	
- 30inHg /100	- 1/7 kg/cm²	×	V	~	V	
- 30inHg /150	- 1/10 kg/cm²	×	V	~	V	
- 30inHg /200	- 1/14 kg/cm²	×	V	~	V	
- 30inHg /300	- 1/21 kg/cm²	×	V	~	V	
mmonia with temperature scal	e					
- 30" Hg / 150 psi		×	×	V	V	
- 30" Hg / 300 psi		×	×	V	V	
0/300 psi		×	×	V	V	
-1/12. 5 kg/cm ²		×	×	~	V	
-1/16 kg/cm²		×	×	V	V	
-1/25 kg/cm²		×	×	~	V	
ccessories (refer datasheet fo	r complete specifications)					
GC Gauge cock		SN Snubber				

^{*} Needle valve

* Refer catalogue for Valves & Manifolds

GS

Overload protector (gauge saver)**

SP

Siphon

Cooling tower

CT Coolin** For Pressure Ranges Only.





MPG4

SS Case Internal Brass Glycerin Filled Pressure Gauge Bourdon type (Two Part Connection System)

Special Features

- Stainless Steel case & Brass measuring system.
- Rugged Construction
- Standard liquid filled (Dry Optional)
- Confirms to standard EN 837-1

Applications

Industrial Applications:

- Chemical and Petrochemical Industries: Pressure gauges monitor pressure in pipelines, reactors, and storage tanks. They help prevent overpressure situations that could lead to leaks or equipment failure.
- Process Industries: Used in oil refineries, power plants, and manufacturing facilities to maintain safe
 operating conditions.
- Water Treatment Plants: Monitor water pressure in distribution networks and filtration systems.

HVAC and Refrigeration:

- Compressors: Pressure gauges ensure optimal performance by monitoring air and gas pressure.
- Ventilation Systems: Used to maintain proper airflow and pressure in buildings.
- Refrigeration Systems: Monitor refrigerant pressure to prevent system malfunction.

Sanitary and Pharmaceutical Applications:

- Food and Beverage Industry: Pressure gauges ensure safe pressure levels during food processing, brewing, and bottling.
- *Medical Equipment:* Used in autoclaves, sterilizers, and other medical devices.
- Pharmaceutical Manufacturing: Monitors pressure in drug production processes.

- Aerospace: Pressure gauges in aircraft and spacecraft monitor cabin pressure, hydraulic systems, and fuel lines.
- Marine: Engine Monitoring, Hydraulic Systems, Fuel Systems, Cooling Systems.
- Onshore & Offshore: Process instrumentation.
- Refinery: Various critical process requiring precise measurement.
- Automotive: Tire pressure gauges help maintain safe driving conditions.
- Research and Laboratories: Used in experiments, testing, and quality control.

Standard Version: 40 mm, 50 mm, 63 mm & 80 mm

Accuracy	:	± 1.6% of F.S.		
Ambient Temperature	:	-25°C to + 65°C		
Process Temperature	:	Max. 100° C for Glycerin filled / Max. 180°C for Dry		
Operating pressure range	:	75% of the scale value		
Over pressure limit	:	≤100 bar ∶ 125% of the Max. scale value		
	:	> 100 to ≤ 600 bar : 115% of the Max. scale value		
	:			

Case & Besel	:	AISI 304 SS (Crimped Besel)		
Bourdon	:	BRASS upto 35 Bar & SS316L for above		
Socket	:	BRASS		
Movement	:	BRASS Plated		
Joints	:	BRASS to BRASS Soft Solder & SS to Brass Silver Brazing		

Protection	:	IP 68		
Dial		Aluminum, Black gradation on white background		
Pointer	:	Black Colored, Fixed		
Window	:	Plexi Glass		
Blow off Disc		Neoprene		
Gasket & Filling Plug		Neoprene / Silicon rubber		

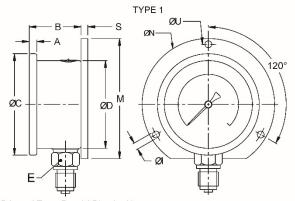
Dampening Liquid	:	Glycerin 99.7%
Ambient Temperature	:	Max. 65°C
Process Temperature	:	Max. 100°C

Dry but fillable version (option DFG)

Fillable Dampening Liquid	:	Glycerin 99.7%
Ambient Temperature	:	(-) to 65°C
Process Temperature	:	Max. 65°C
Other Features	:	Refer Specification of Standard Version

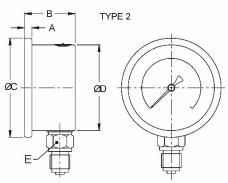
Temperature effect:

The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement: - Formula: \pm 0.04 X (t2-t1) % of F.S. where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C



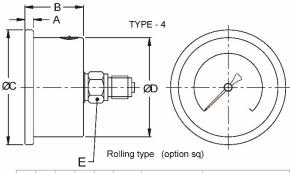
Crimped Type Bezel (Standard)

NS	Α	В	øс	ØD	E	s	ØN	ØI	ØU	М	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
63	6.5	30.5	69	62.5	A/F 14	7	86	3.6	75	80	190.0	250.0

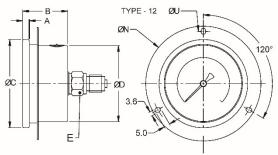


Rolling Type (option Sq)

NS	Α	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)		
40*	5	26.5	49.0	4 1.6	A/F 12	90.0	130.0		
50	5	29	57.5	51.5	A/F 14	125.0	185.0		
63	6.5	30.5	69	62.5	A/F 14	140.0	200.0		

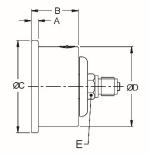


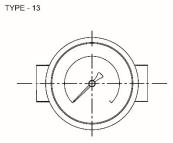
NS	Α	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)		
40	5	26.5	40.0	41.6	A/F 12	100.0	140.0		
50	4.5	29	57.5	51.5	A/F 14	117.0	167.0		
63	6.5	30.5	69	62.5	A/F 14	170.0	230.0		



Rolling type (option sq)

NS	А	В	ØС	ØD	E	ØN	øυ	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
63	6.5	30.5	69	62.5	A/F 14	86	75	220.0	280.0





Rolling type (standard)

NS	Α	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
50	5	29	57	51.5	A/F 14	180.0	240.0
63	6.5	30.5	69	62.5	A/F 14	210.0	270.0

Notes: • Drawings are not to scale. • All Dimensions are in mm . • NS = Nominal size • Weights mentioned are approximate and for standard product. Weight can be different after selection of options.





MPG5

Economical SS (SS304) Pressure Gauge Bourdon type (Dry Version)

Special Features

- Stainless Steel case & Brass measuring system.
- Socket directly welded to case
- Dry version Weather Proof
- Confirms to standard EN 837-1

Applications

Industrial Applications:

- Chemical and Petrochemical Industries: Pressure gauges monitor pressure in pipelines, reactors, and storage tanks. They help prevent overpressure situations that could lead to leaks or equipment failure.
- **Process Industries:** Used in oil refineries, power plants, and manufacturing facilities to maintain safe operating conditions.
- Water Treatment Plants: Monitor water pressure in distribution networks and filtration systems.

HVAC and Refrigeration:

- Compressors: Pressure gauges ensure optimal performance by monitoring air and gas pressure.
- Ventilation Systems: Used to maintain proper airflow and pressure in buildings.
- Refrigeration Systems: Monitor refrigerant pressure to prevent system malfunction.

Sanitary and Pharmaceutical Applications:

- Food and Beverage Industry: Pressure gauges ensure safe pressure levels during food processing, brewing, and bottling.
- *Medical Equipment:* Used in autoclaves, sterilizers, and other medical devices.
- Pharmaceutical Manufacturing: Monitors pressure in drug production processes.

- Aerospace: Pressure gauges in aircraft and spacecraft monitor cabin pressure, hydraulic systems, and fuel lines.
- Marine: Engine Monitoring, Hydraulic Systems, Fuel Systems, Cooling Systems.
- Onshore & Offshore: Process instrumentation.
- Refinery: Various critical process requiring precise measurement.
- Automotive: Tire pressure gauges help maintain safe driving conditions.
- Research and Laboratories: Used in experiments, testing, and quality control.

Standard Version: 100 mm

Accuracy	:	± 1.6% of F.S.			
Ambient Temperature	:	-25°C to + 65°C			
Process Temperature	:	Max. 300° C			
Operating pressure range	:	75% of the scale value			
Over pressure limit	:	< 100 bar : 125% of the Max. scale value			
	:	> 100 to < 600 bar : 115% of the Max. scale value			
	:	> 600 to < 1600 Bar : 100% of Max. scale value			

Case & Besel	• •	AISI 304 SS (Snap Action Bayonet Bezel)			
Bourdon		AISI 316L SS			
Socket	:	AISI 304 SS (Directly Welded to case)			
Movement		BRASS Plated (SS304 Optional)			
Joints :		Tig Argon Arc Welding			

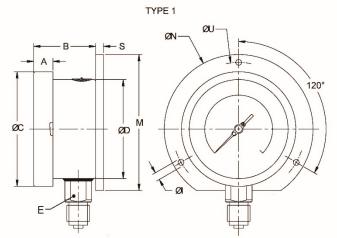
Protection	:	IP 68			
Dial	:	Aluminum, Black gradation on white background			
Pointer	:	Aluminum, Black Colored			
Window	:	Sheet Glass			
Gasket & Filling Plug	:	Neoprene			

Dry but fillable version (option DFG)

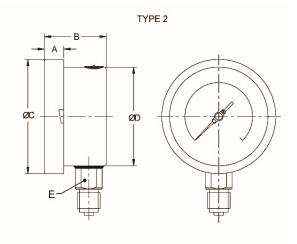
Fillable Dampening Liquid	:	Glycerin 99.7%
Ambient Temperature	• •	(-) to 65°C
Process Temperature	:	Max. 65°C
Window	:	Toughened Glass
Other Features	:	Refer Specification of Standard Version

Temperature effect:

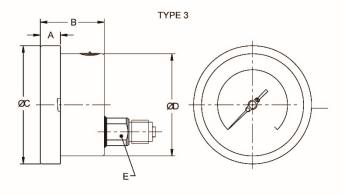
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement: - Formula: \pm 0.04 X (t2-t1) % of F.S. where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C



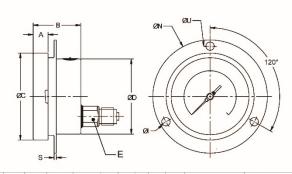
NS	Α	В	øс	ØD	Е	М	s	ØI	ØN	Øυ	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)		
100	6.5	38	111	100	17	128	5	6	134	118	450.0	650.00		
150	15	43	161	149	17	174.5	5	6	186	168	850.0	1250.00		



NS	Α	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)		
100	6.5	35	111	100	17	430.00	630.00		
150	15	40	161	149	17	800.00	1400.00		

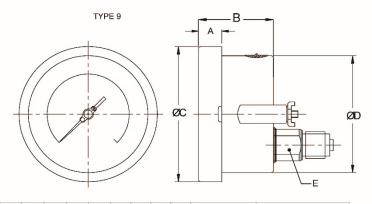


NS	Α	В	øc	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)		
100	12.5	35	111	100	17	430.00	630.00		
150	15	40	161	149	17	800.00	1200.00		

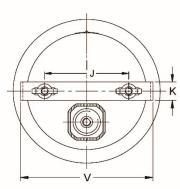


TYPE 5

NS	Α	В	ØС	ØD	E	s	ØI	ØN	ØU	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	35	111	100	17	1	6	134	118	450.00	650.00
150	15	40	161	149	17	1	6	186	168	850.00	1250.00



NS	Α	В	øс	ØD	E	J	K	٧	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	35	111	100	17	62	16	108	450.00	650.00
150	15	40	161	149	17	100	16	166	850.00	1250.00



Range Table

Note: We offer National / International Scales like kPa, MPa, bar, psi, kg/cm² & Dual Scale like kPa with psi, kPa with bar, bar with psi or

Pressure				
Single Scale (kg/cm² or	bar)			
0/1	0/6	0/25	0/160	
0/1.6	0/7	0/40	0/250	
0/2.5	0/10	0/60	0/400	
0/4	0/16	0/100	0/600	

psi	kg/cm²	psi	kg/cm²	psi	kg/cm²
0/15	0/1	0/400	0/28	0/4000	0/280
0/30	0/2	0/500	0/35	0/5000	0/350
0/60	0/4	0/600	0/40	0/6000	0/420
0/100	0/7	0/1000	0/70	0/10000	0/700
0/150	0/10	0/1500	0/100		
0/230	0/16	0/2300	0/160		
0/300	0/20	0/3000	0/200		

Vacuum & Compound

Dual Scale (inHg with psi & mmHg with kg/cm²)

()	, ,				
inHg with psi	mmHg with kg/cm ²	inHg with psi	mmHg with kg/cm²	inHg with psi	mmHg with kg/cm ²
- 30/0	- 760/0	- 30/60	- 760/4	- 30/200	- 760/14
- 30/15	- 760/1	- 30/100	- 760/7	- 30/300	- 760/21
- 30/30	- 760/2	- 30/150	- 760/10	- 30/350	- 760/25

Single Scale (kg/cm²)

- 1/0	- 1/1.5	- 1/5	- 1/15
- 1/0.6	- 1/3	- 1/9	- 1/24

Freon (with temperature scale)

Ammonia (with temperature scale)

Note: For temperature scales, please provide refrigerant name.

Range (psi)		(kg/cm²)	(psi)
-30 inHg - 150	0-300	-1to12.5	-30 inHg - 150
-30 inHg - 300	0-500	-1to16	-30 inHg - 300
		-1to25	0 - 300

Accessories (refer datasheet for complete specifications)

CT Cooling tower	GS	Over load protector (gauge saver)**	SN	Snubber
GC Gauge cock	*	Needle valve	SP	Siphon
* Refer catalogue for Valves & Manifolds.		** For Pressure Ranges.		

Note: For Any Non Standard or Special Scale Marking Consult Factory







MPG6

Economical (SS Case /Brass Internal) Pressure Gauge Bourdon type (Glycerin Filled)

Special Features

- Stainless Steel case & Brass measuring system.
- Socket directly welded to case
- Liquid filled version
- Confirms to standard EN 837-1

Applications

Industrial Applications:

- Chemical and Petrochemical Industries: Pressure gauges monitor pressure in pipelines, reactors, and storage tanks. They help prevent overpressure situations that could lead to leaks or equipment failure.
- Process Industries: Used in oil refineries, power plants, and manufacturing facilities to maintain safe
 operating conditions.
- Water Treatment Plants: Monitor water pressure in distribution networks and filtration systems.

HVAC and Refrigeration:

- Compressors: Pressure gauges ensure optimal performance by monitoring air and gas pressure.
- Ventilation Systems: Used to maintain proper airflow and pressure in buildings.
- Refrigeration Systems: Monitor refrigerant pressure to prevent system malfunction.

Sanitary and Pharmaceutical Applications:

- Food and Beverage Industry: Pressure gauges ensure safe pressure levels during food processing, brewing, and bottling.
- Medical Equipment: Used in autoclaves, sterilizers, and other medical devices.
- Pharmaceutical Manufacturing: Monitors pressure in drug production processes.

- **Aerospace:** Pressure gauges in aircraft and spacecraft monitor cabin pressure, hydraulic systems, and fuel lines.
- Marine: Engine Monitoring, Hydraulic Systems, Fuel Systems, Cooling Systems.
- Onshore & Offshore: Process instrumentation.
- Refinery: Various critical process requiring precise measurement.
- Automotive: Tire pressure gauges help maintain safe driving conditions.
- Research and Laboratories: Used in experiments, testing, and quality control.

Standard Version: 100 mm

Accuracy	• •	± 1.6% of F.S.
Ambient Temperature	• •	-25°C to + 65°C
Process Temperature	• •	Max. 300° C
Operating pressure range	• •	75% of the scale value
Over pressure limit	:	< 100 bar : 125% of the Max. scale value
		> 100 to < 600 bar : 115% of the Max. scale value
	:	> 600 to < 700 Bar : 100% of Max. scale value

Case & Besel	:	AISI 304 SS (Crimp Type Bezel for NS 100 & Bayonet Bezel for NS 150)	
Bourdon : Copper Alloy (PB or Brass)			
Socket	:	Brass (Two Part Systems)	
Movement	:	BRASS Plated (SS304 Optional)	
Joints	:	Soldering / Silver Brazing	

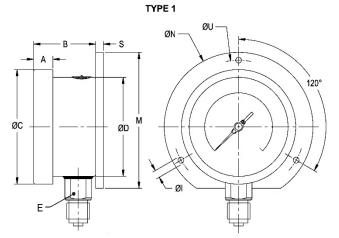
Protection	:	IP 68			
Dial	:	: Aluminum, Black gradation on white background			
Pointer	:	Aluminum, Black Colored			
Window	:	Crytal Clear Acrylic / Plexi Glass for NS 100 & Sheet Glass for NS 150			
Gasket & Filling Plug	:	Neoprene			

Dry but fillable version (option DFG)

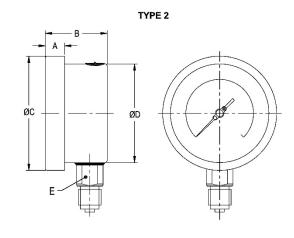
Fillable Dampening Liquid		Glycerin 99.7%
Ambient Temperature		Max. 65°C
Process Temperature		Max. 100°C

Temperature effect:

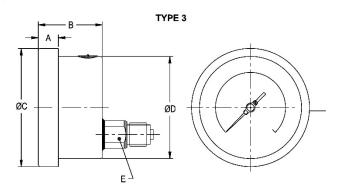
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement: - Formula: \pm 0.04 X (t2-t1) % of F.S. where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C



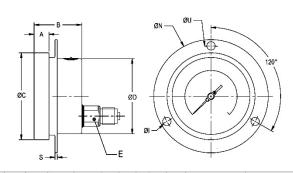
NS	Α	В	øс	ØD	E	М	s	ØI	ØN	øυ		Weight in gram (With Glycerin & Box)
100	6.5	35	111	100	17	128	5	6	134	118	450.0	650.00
150	15	40	161	149	17	174.5	5	6	186	168	850.0	1250.00



NS	Α	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	6.5	35	111	100	17	430.00	630.00
150	15	40	161	149	17	800.00	1400.00

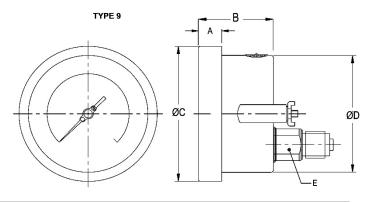


NS	Α	В	øс	ØD	Е	Weight in gram (With Box)	Weight in gram (With Glycerin & Box
100	12.5	35	111	100	17	430.00	630.00
150	15	40	161	149	17	800.00	1200.00

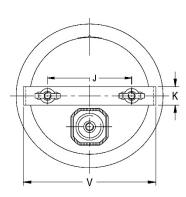


TYPE 5

NS	A	В	øс	ØD	E	s	ØI	ØN	Øυ		Weight in gram (With Glycerin & Box)
100	12.5	35	111	100	17	1	6	134	118	450.00	650.00
150	15	40	161	149	17	1	6	186	168	850.00	1250.00



NS	A	В	øс	ØD	E	J	K	v	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	35	111	100	17	62	16	108	450.00	650.00
150	15	40	161	149	17	100	16	166	850.00	1250.00



Range Table

Note: We offer National / International Scales like kPa, MPa, bar, psi, kg/cm² & Dual Scale like kPa with psi, kPa with bar, bar with psi or Equivalent scales as per the requirement can be provided on request. Following are the example tables for kg/cm²& psi scales.

D	-	 	-
	res		

Single Scale (kg/cm² o	r bar)			
0/1	0/6	0/25	0/160	
0/1.6	0/7	0/40	0/250	
0/2.5	0/10	0/60	0/400	
0/4	0/16	0/100	0/600	
No 1 O 1 - 1 1 141- 1 1	2)			

Dual Scale (psi with kg/cm²)

psi	kg/cm²	psi	kg/cm²	psi	kg/cm²
0/15	0/1	0/400	0/28	0/4000	0/280
0/30	0/2	0/500	0/35	0/5000	0/350
0/60	0/4	0/600	0/40	0/6000	0/420
0/100	0/7	0/1000	0/70	0/10000	0/700
0/150	0/10	0/1500	0/100		
0/230	0/16	0/2300	0/160		
0/300	0/20	0/3000	0/200		

Vacuum & Compound

Dual Scale (inHg with psi & mmHg with kg/cm²)

inHg with psi	mmHg with kg/cm²	inHg with psi	mmHg with kg/cm²	inHg with psi	mmHg with kg/cm²
- 30/0	- 760/0	- 30/60	- 760/4	- 30/200	- 760/14
- 30/15	- 760/1	- 30/100	- 760/7	- 30/300	- 760/21
- 30/30	- 760/2	- 30/150	- 760/10	- 30/350	- 760/25

Single Scale (kg/cm²)

- 1/0	- 1/1.5	- 1/5	- 1/15
- 1/0.6	- 1/3	- 1/9	- 1/24

Freon (with temperature scale)

Ammonia (with temperature scale)

Note: For temperature scales, please provide refrigerant name.

Range (psi)		(kg/cm²)	(psi)
-30 inHg - 150	0-300	-1to12.5	-30 inHg - 150
-30 inHg - 300	0-500	-1to16	-30 inHg - 300
		-1to25	0 - 300

Accessories (refer datasheet for complete specifications)

СТ	Cooling tower	GS	Over load protector (gauge saver)**	SN	Snubber
GC	Gauge cock	*	Needle valve	SP	Siphon
* Re	fer catalogue for Valves & Manifolds.		** For Pressure Ranges Only.		

Note: For Any Non Standard or Special Scale Marking Consult Factory





MPG7

Utility Pressure Gauge Bourdon type MS Case Brass Internal

Special Features

- Economical Version
- General purpose application

Applications

Industrial Applications:

- Chemical and Petrochemical Industries: Pressure gauges monitor pressure in pipelines, reactors, and storage tanks. They help prevent overpressure situations that could lead to leaks or equipment failure.
- Process Industries: Used in oil refineries, power plants, and manufacturing facilities to maintain safe
 operating conditions.
- Water Treatment Plants: Monitor water pressure in distribution networks and filtration systems.

HVAC and Refrigeration:

- Compressors: Pressure gauges ensure optimal performance by monitoring air and gas pressure.
- Ventilation Systems: Used to maintain proper airflow and pressure in buildings.
- Refrigeration Systems: Monitor refrigerant pressure to prevent system malfunction.

Sanitary and Pharmaceutical Applications:

- Food and Beverage Industry: Pressure gauges ensure safe pressure levels during food processing, brewing, and bottling.
- Medical Equipment: Used in autoclaves, sterilizers, and other medical devices.
- Pharmaceutical Manufacturing: Monitors pressure in drug production processes.

- Aerospace: Pressure gauges in aircraft and spacecraft monitor cabin pressure, hydraulic systems, and fuel lines.
- *Marine:* Engine Monitoring, Hydraulic Systems, Fuel Systems, Cooling Systems.
- Onshore & Offshore: Process instrumentation.
- Refinery: Various critical process requiring precise measurement.
- Automotive: Tire pressure gauges help maintain safe driving conditions.
- Research and Laboratories: Used in experiments, testing, and quality control.

Standard Version: 40 mm, 50 mm, 63 mm, 100 mm, 150 mm & 250 mm

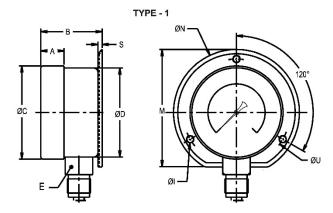
Accuracy : ± 2% of F.		± 2% of F.S. (For NS 63 mm, 100 mm, 150 mm & 250 mm)
	:	± 2.5% of F.S. (For NS 40 mm & 50 mm)
Ambient Temperature	:	-20°C to + 65°C
Process Temperature	:	Max. 100° C
Operating pressure range	:	75% of the scale valve
Over pressure limit	:	≤ 100 bar : 125% of the Max. scale value
	:	> 100 to ≤ 600 bar : 115% of the Max. scale value
	:	> 600 to ≤ 1600 Bar : 100% of Max. scale value

Case & Besel	:	Steel, Powder Coated / Painted (Push Fit Type Bezel) for Dial Size 40 to 200 mm
		Steel, Powder Coated / Painted (Snap Action Bayonet) for Dial Size 250mm
Bourdon	:	Copper Alloy for Range upto 600 PSI
		Stainless Steel for Range Above 600 PSI
Socket	:	Copper Alloy for Dial Size 40 to 150mm
		Stainless Steel for Dial Size 200 & 250mm
Movement	:	Copper Alloy
Joints	:	Soldering for Copper Alloy & Silver brazing for SS With Copper Alloy
	:	Argon Tig Welding for SS to SS material

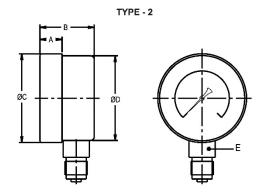
Dial	••	Aluminum, Black gradation on white background
Pointer	:	Black Colored, fixed
Window	• •	Sheet Glass & Poly carbonate Push Fit for NS 40 to 63mm BACK Connection

Temperature effect:

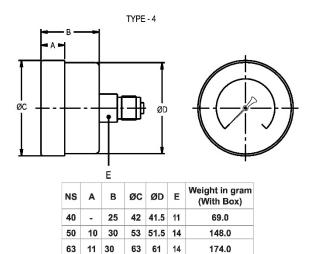
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement: - Formula: \pm 0.04 X (t2-t1) % of F.S. where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C



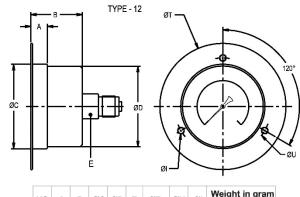
NS	A	В	øc	ØD	E	М	s	ØN	Øυ	ØI	Weight in gram (With Box)
80	13	31	80	78	17	90	4	110	95	5	250.0
100	13	39	100	98	17	124	5	134	117	6	405.0
150	16	43.5	153	152	17	183	6	198	168	-	730.0
200	24	58	204	202	22	229	7	245	230	-	1800.0
250	19	60	261	247	22	286	7	288	263	-	2300.0



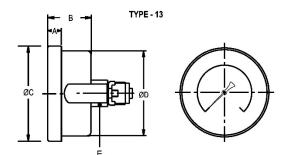
NS	Α	В	øс	ØD	E	Weight in gram (With Box)
40	-	25	42	41.5	12	82.0
50	10	30	53	51.5	14	101.0
63	11	30	63	61	14	120.0
80	13	35	80	78	17	195.0
100	13	35	100	98	17	343.0
150	16	42	153	152	17	695.0
200	24	53	204	202	22	1700.0
250	19	51	261	247	22	2100.0



78 17



NS	Α	В	øc	ØD	Ε	ØΤ	ØU	ØI	(With Box)
50	-	26	52	52	12	77	60	4	175.0
63	-	26	62	62	14	87	70	4	210.0
100	14	35	100	98	17	134	117	4	445.0



100 13 35 100 98 17

80 13 35 80

NS	Α	В	øc	ØD	Е	Weight in gram (With Box)
40	5	25	49	41.5	12	80.0
50	6	31	58	51.5	14	210.0
63	7	31	69	62.5	14	240.0

Notes: • Drawings are not to scale. • All Dimensions are in mm. • NS = Nominal Size.

190.0

343.0

Note: We offer National / International Scales like kPa, MPa, bar, psi, kg/cm² & Dual Scale like kPa with psi, kPa with bar, bar with psi or Equivalent scales as per the requirement can be provided on request. Following are the example tables for kg/cm² & psi scales.

D	r۵	c	c	11	re

Single Scale (kg/cm² or	bar)			
0/0.6	0/4	0/25	0/160	
0/1	0/6	0/40	0/250	
0/1.6	0/10	0/60	0/400	
0/2.5	0/16	0/100	0/600	

Dual Scale (psi with kg/cm²)

psi	kg/cm²	psi	kg/cm²	psi	kg/cm²
0/15	0/1	0/400	0/28	0/4000	0/280
0/30	0/2	0/500	0/35	0/5000	0/350
0/60	0/4	0/600	0/40	0/6000	0/420
0/100	0/7	0/1000	0/70	0/10000	0/700
0/150	0/10	0/1500	0/100		
0/230	0/16	0/2300	0/160		
0/300	0/20	0/3000	0/200		

Vacuum & Compound

Dual Scale (inHg with psi & mmHg with kg/cm²)

inHg with psi	mmHg with kg/cm²	inHg with psi	mmHg with kg/cm²	inHg with psi	mmHg with kg/cm²
- 30/0	- 760/0	- 30/60	- 760/4	- 30/200	- 760/14
- 30/15	- 760/1	- 30/100	- 760/7	- 30/300	- 760/21
- 30/30	- 760/2	- 30/150	- 760/10	- 30/350	- 760/25

Single Scale (kg/cm²)

- 1/0	- 1/1.5	- 1/5	- 1/15
- 1/0.6	- 1/3	- 1/9	- 1/24

Freon (with temperature scale)

Ammonia (with temperature scale)

Note: For temperature scales, please provide refrigerant name.

Range (psi)		(kg/cm²)	(psi)
-30 inHg - 150	0-300	-1to12.5	-30 inHg - 150
-30 inHg - 300	0-500	-1to16	-30 inHg - 300
		-1to25	0 - 300

Accessories (refer datasheet for complete specifications)

СТ	Cooling tower	GS	Over load protector (gauge saver)**	SN	Snubber
GC	Gauge cock	*	Needle valve	SP	Siphon
* Re	fer catalogue for Valves & Manifolds		** For Pressure Ranges		

Note: For Any Non Standard or Special Scale Marking Consult Factory

GAUGES FLANGES





Special Features

- All AlSI 316 SS Construction: Made entirely of AISI 316 stainless steel.
- Lightweight: Designed for ease of handling.
- Economical: Cost-effective solution.
- **Ideal for High Pressure**: Suitable for highpressure applications.
- Diaphragm Welded to Body: Ensures separation of filling fluid from the process medium.

Applications

- **Isolation:** Diaphragm seals separate pressure gauges and switches from corrosive, viscous, or high-temperature process fluids.
- Challenging Environments: Used in extreme hot or cold conditions.
- **Difficult Connections:** When attaching process connections to instruments is challenging.
- Media Compatibility: Employed for corrosive, sticky, easily solidified, or chemically incompatible media.
- **Protection:** Prevents clogging, minimizes corrosion, and protects sensing elements from extreme temperatures.
- **Industry** Refinery, Marine, Onshore & Offshore, Aerospace, Construction, Medical devices, Process instrumentation, Food & Beverage.

Specifications

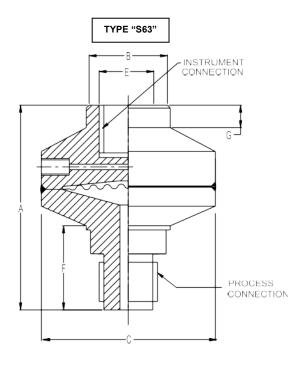
Standard Version

(Compatible mode: HPG1, HPG2, HPG3, HPG4, HPG5, HPG6)

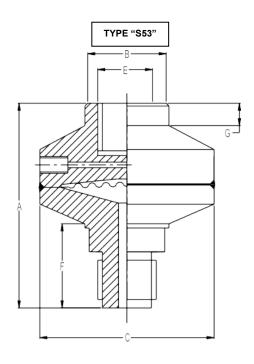
Seal Type & Range		S63 = -1 to 0 kg/cm ² & 0 to 4 kg/cm ² (Standard)
		S53 = 6 to 70 kg/cm ²
	:	S38 = 100 kg/cm ² to 400 kg/cm ²
	:	S30 = 250 kg/cm ² to 600 kg/cm ²
Process temperature	:	-40° C to 200° C or as per fill fluid
Instrument Connection	:	3/8" BSP (F)
	:	1/4" BSP (F) for type S30
Process Connection	:	1/2" BSP (M)
		1/4" BSP (F) for type S30
Filled fluid	:	Silicon oil – DC 200
Mounting	:	Direct (without Capillary)

Diaphragm	:	AISI 316L SS
Body	• •	AISI 316 SS

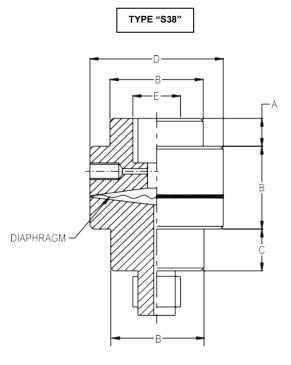
Dimensions - Standard Version



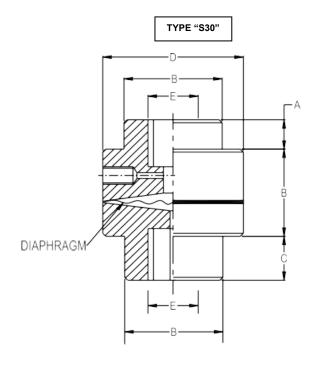
Α	В	С	E	F	G	Approx Wt.#
67	30	62	3/8"BSP(F)	30	8	700.00



Α	В	С	E	F	G	Approx Wt.#
68.5	30	53	1/2" BSP(F)	35	8	600.00



Α	В	С	D	E	Approx Wt.#
10	22	15	38	3/8" BSP(F)	350.00



Α	В	С	D	E	Approx Wt.#
10	30	10	30	1/4" BSP(F)	300.00





MDF

Diaphragm Sealed
Direct Flanged with Coupled Sealed.

Special Features

- Flange Design with Flush-Welded Diaphragm Allows easy removal of the upper housing without losing fill fluid during maintenance.
- Suitable for slurry & corrosive services
- Flushing ring, flange & diaphragm are available in various types of Stainless Steel & Exotic materials.
- Customizable material combinations based on the application.

Applications

- **Corrosive Media** Diaphragm seals act as a barrier between the corrosive media and the instrument. They allow pressure measurements without risking damage to the sensitive components.
- **High Temperature Media** In applications involving extreme temperatures (such as furnaces or steam systems), diaphragm seals protect pressure instruments.
 - The seal isolates the instrument from the hot process media, preventing heat-related damage.
- **Remote Readings -** Sometimes, pressure measurements need to be taken in hard-to-reach places (e.g., inside a reactor vessel or at the bottom of a tank).
 - Diaphragm seals allow remote mounting by using capillaries or tubing. The pressure is transmitted to the instrument located elsewhere.
- Safety in Hazardous Areas Industries dealing with hazardous materials (flammable gases, toxic chemicals) use diaphragm seals.
 - By isolating the instrument, these seals enhance safety and prevent accidents.
- Hygienic Applications In pharmaceuticals, food processing, or cleanrooms, hygiene is critical.
 Diaphragm seals ensure that the pressure instrument remains uncontaminated while measuring substances like sterile liquids or gases.
- Viscous or Sticky Media When measuring thick, sticky fluids (like molasses or slurries), diaphragm seals are essential.
 - They prevent clogging and ensure accurate pressure readings.
- Clear Chambers and Crystallization Prevention Diaphragm seals maintain a clear path for pressure transmission. They prevent crystallization or solidification of media within the instrument.
- **Industry** Refinery, Marine, Onshore & Offshore, Aerospace, Construction, Medical devices, Process instrumentation, Food & Beverage.

Specifications

Standard Flange Size 1-1/2"

Seal Type		S63 = -1 to 0 kg/cm ² & 0 to 250 kg/cm ² (Non PTFE Lined)* (Standard)		
	:	P63 = -1 to 0 kg/cm ² & 0 to 40 kg/cm ² (PTFE lined)*		
Process temperature : Max. 150° C for PTFE lined		Max. 150° C for PTFE lined		
	:	-40° C to 200° C for Non PTFE lined		
Instrument Connection	:	3/8" BSP (F)		
Process Connection	:	Flanged (As per DIN/BS/ANSI/JIS), 40 NB (1-1/2") & above		
Filled fluid	:	Silicon oil – DC 200		
Flanged finish	:	125-250 AARH		

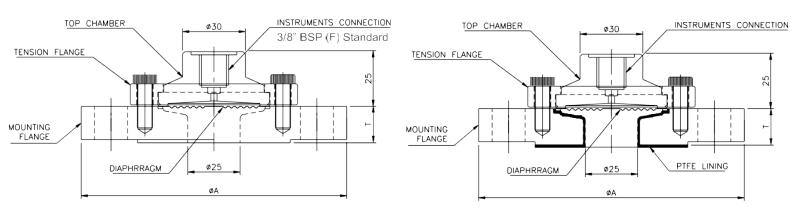
^{*}Range of Selection instrument shall be to flanged pressure rating.

Diaphragm	•	AISI 316L SS
Top Chamber	:	AISI 304 SS
Flange	:	AISI 316 SS

Dimension – Standard Version

SEAL TYPE: S63

SEAL TYPE: P63



WITHOUT PTFE LINDE

PTFE LINDE

^{* *} As per Standard flange table ANSI, DIN, BS, JIS ETC.,

Ordering Information

How to Select

E.g. For flange size of 1-1/2" as per BS-10 table e with raised face: C10 – FF

RF Raised Face

FF Flat Face

Flange Finish shall be 125 - 250 AARH as per standard. For other finish please consult.

As per DIN 2527

DN	PN	CODE		DN	PN	CODE
	6	A41			6	A61
	10	A42			10	A62
	16	A43			16	A63
	25	A44			25	A64
40	40	A45		65	40	A65
40	64	A46		05	64	A66
	100	A47			100	A67
	160	A48			160	A68
	250	A49			250	A69
	400	A50			400	A70
	6	A51			6	A71
	10	A52 A53			10	A72
	16				16	A73
	25	A54			25	A74
50	40	A55		80	40	A75
30	64	A56		80	64	A76
	100	A57			100	A77
	160	A58			160	A78
	250	A59			250	A79
	400	A60			400	A80
	•		_			

CODE

B33

B34

B35

B36

As per DIN 2642

As per DIN 2633

DN	PN	CODE
40	10	A95
50		A96
65		A97
80		A98

 DN
 PN
 CODE

 40
 A95

 50
 A96

 65
 A97

 80
 A98

As per DIN 2635

As per DIN 2633

DN	PN	CODE
40	40	B05
50		B06
65		B07
80		B08

NOMINAL SIZE	RATIN G /CLASS	CODE
	5K	B72
40A	10K	B73
	40K	B74

As per ASNI B 16.5

RATING

/CLASS

150

300

600

900

NOMINAL

SIZE

1/2"

As per BS 10

TABLE

Ε

F

Н

CODE

C09

C10

C11

C12

NOMINAL

SIZE

1-1/2"

	1500	B37
	2500	B38
	150	B39
	300	B40
2"	600	B41
	900	B42
	1500	B43
	2500	B44
	150	B45
	300	B46
2-1/2"	600	B47
2-1/2	900	B48
	1500	B49
	2500	B50
	150	B51
	300	B52
3"	600	B53
	900	B54
	1500	B55
	2500	B56

	J	C13
	K D E F H J	C14 C15 C16 C17 C18 C19
	D	C15
	E	C16
2"	F	C17
2	Н	C18
	J	C19
	K	C20
	D	C21
		021
	E	C22
2-1/2"	F	C23
Z- 1/Z	Н	C24
	J	C25
	K	C26
	D	C27
	Е	C28
3"	F	C29
	Н	C30
	E F H J K D E F H	C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31
	K	C32

NOMINAL	RATING	CODE
SIZE	/CLASS	CODE
	5K	B75
50A	10K	B76
	40K	B77
	5K	B78
65A	10K	B79
	40K	B80
	5K	B81
80A	10K	B82
	40K	B83

TEMPERATURE I	NCTDIMENTC
ILMIPLICATORL	MONLINIS



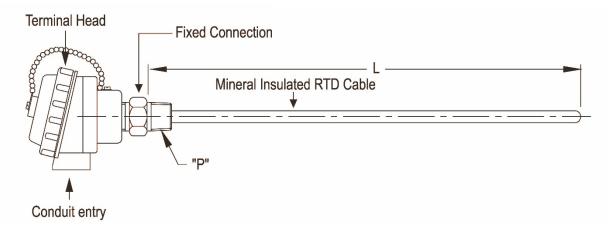




RTD Assembly with Fixed Threaded Connection

Special Features

- Spring Loaded design for positive contact with thermowell
- Available in all sheath diameters
- Mineral insulated enables flexibility and durability
- Enclosures in all material Die cast Aluminum/ SS304 / SS316
- Enclosures in all Categories (weatherproof, IP-65 to IP-68, Flameproof Gr.IIA IIB and Explosionproof Gr.IIA, IIB, IIC for H₂ service application.)
- Reference Standard IEC 751 / DIN 43760



HOW TO ORDER

Code	No of Element	
1	Simplex	
2	Duplex	

Code	Element Type
Pt -100	Pt - 100 RTD
Pt- 500	Pt - 500 RTD
Pt - 1000	Pt - 1000 RTD
Cu - 53	Cu - 53

Code	Range	
FLM	-200°C till 449°C	3
CMC	450°C #II 600°C	

Code	Accuracy	
Α	Class 'A' Tolerance as per IEC - 751	4
В	Class 'B' Tolerance as per IEC - 751	_

Code	Wire Configuration
2W	2 Wire System
3W	3 Wire System
AVA	4 Mira Cuatam

APPLICATION

Such design is generally used in all industries, machinery manufactures, bearing temp measurement etc. where space is limited.

STANDARD PRODUCT DETAILS

 No of element
 - Simplex

 Element type
 - Pt - 100 RTD

 Range
 - -200°C till 449°C

Accuracy - Class 'B' Tolerance as per IEC - 751

Wire Configuration - 3 Wire System
Sheath Diameter - 6.0 mm
Sheath Material - SS 304 / SS 316

Terminal Head Type - Screwed type, weatherproof, IP-65 in

die-cast Alumnium

No. Of Conduit Entry/Entries - One Conduit Entry Size - ½" NPT (F)

Head Extension Type - Fixed Threaded Connection Immersion Length "L"mm - 300 mm or As Required

Process conn. "P" - 1/2"NPT(M)

Option Description - S.C. cable gland in nickel plated brass

3 3.0 mm 4 4.0 mm 5 5.0 mm 6 6.0 mm 8 8.0 mm
5 5.0 mm 6 6.0 mm 8 8.0 mm
6 6.0 mm 8 8.0 mm
8 8.0 mm
10 10.0 mm
Consult factory for other diameter.

Code	Sheath Material
304	SS 304 (Standard)
316	SS 316

Code	Terminal Head Type
SW5	Screwed type, weatherproof, IP-65 in die-cast Alumunium
SW7 Screwed type, weatherproof, IP-67 in die-cast Alumunium	
SFP	Screwed type, flameproof Gr. IIA IIB in die-cast Alumunium
SEP	Screwed type, explosionproof Gr.IIC in die-cast Alumunium
HWP	Hinged type, weatherproof, IP-65 in die-cast Alumunium
BWP	Weatherproof Head, IP-65 in die-cast Aluminium with cover
BAAL	fitted with two screws.

Code	No. Of Conduit Entry/Entries
1	One
2	Two
	Other, Please Specify

Code	Conduit Entry Size
Α	3/4" ET(F)
В	1/2"NPT(F)
С	3/4"NPT(F)
	Other, Please Specify

Code	Head Extension Type	
FC	Fixed Threaded Connection	

Code	Immersion Length "L"mm
	Specify in mm.

Code	Process conn. "P"
Α	½"NPT(M)
В	1/2" BSP(M)
С	3/4"NPT(M)
D	3/4" BSP(M)
N	None
	Other, Please Specify

Code	Option Description
0	None
3	Terminal head in SS 304
4	Terminal head in SS 316
6	S.C. cable gland in nickel plated brass
7	D.C. cable gland in nickel plated brass
8	S.C. cable gland in SS 304
9	D.C. cable gland in SS 304
11	S.C. cable gland in SS 316
12	D.C. cable gland in SS 316
13	Head mounted temp. transmitter
14	S.S. base plate suitable for Temperature Transmitter mounting
16	Head Extension in SS 304.
17	Head Extension in SS 316.
20	Plug for conduit entry in Carbon Steel [ASTM A105]
21	Plug for conduit entry in SS 304
22	Plug for conduit entry in SS 316
23	Plug for conduit entry in Aluminium
PW	Factory Calibration Certificate
SX	SS Tag Plate
TC	Teflon Coating on Sheath

Note:

1. When selecting option "PW", please also specify measuring temperature range.(For e.g. 0/300°C)

2. Explanations of Abbreviations used:
 SC = Single Compression
 DC = Double Compression
 SS = Stainless Steel



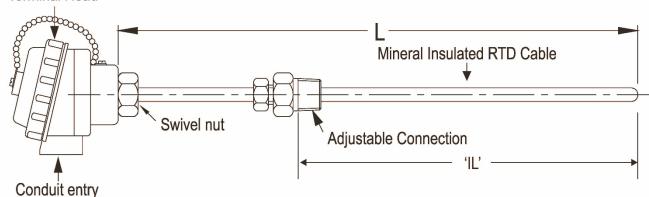




Special Features

- Spring Loaded design for positive contact with thermowell
- Available in all sheath diameters
- Mineral insulated enables flexibility and durability
- Enclosures in all material Die cast Aluminum/ SS304 / SS316
- Enclosures in all Categories (weatherproof, IP-65 to IP-68, Flameproof Gr.IIA IIB and Explosionproof Gr.IIA, IIB, IIC for H₂ service application.)
- Reference Standard IEC 751 / DIN 43760





HOW TO ORDER

	Code	No of Element	
ı	1	Simplex	
	2	Duplex	

Code	Element Type
Pt -100	Pt - 100 RTD
Pt- 500	Pt - 500 RTD
Pt - 1000	Pt - 1000 RTD
Cu - 53	Cu - 53

Code	de Range
FLM	M -200°C till 449°C
CMC	1C 450°C till 600°C

Code	Accuracy	
Α	Class 'A' Tolerance as per IEC - 751	
В	Class 'B' Tolerance as per IEC - 751	

Code	Wire Configuration	
2W	2 Wire System	5
3W	3 Wire System	9
4W	4 Wire System	

APPLICATION

Such design is generally used in all industries, machinery manufactures, bearing temp measurement etc. where space is limited.

STANDARD PRODUCT DETAILS

 No of element
 - Simplex

 Element type
 - Pt - 100 RTD

 Range
 - -200°C till 449°C

Accuracy - Class 'B' Tolerance as per IEC - 751

 Wire Configuration
 - 3 Wire System

 Sheath Diameter
 - 6.0 mm

 Sheath Material
 - \$\$ 304 / \$\$ 316

Terminal Head Type - Screwed type, weatherproof, IP-65 / 67 in

die cast Alumunium

No. Of Conduit Entry - One Conduit Entry Size - $\frac{1}{2}$ " NPT (F)

Head Extension Type - Adjustable Threaded Connection

 $\label{eq:local_$

Option Description - S.C. cable gland in nickel plated brass

Code	Sheath Diameter
3	3.0 mm
4	4.0 mm
5	5.0 mm
6	6.0 mm
8	8.0 mm
10	10.0 mm
Consult fa	ctory for other diameter.

Code	Sheath Material	
304	SS 304 (Standard)	
316	SS 316	

Code	Terminal Head Type
SW5	Screwed type, weatherproof, IP-65 in die-cast Alumunium
SW7	Screwed type, weatherproof, IP-67 in die-cast Alumunium
SFP	Screwed type, flameproof Gr. IIA IIB in die-cast Alumunium
SEP	Screwed type, explosionproof Gr.IIC in die-cast Alumunium
HWP	Hinged type, weatherproof, IP-65 in die-cast Alumunium
BWP	Weatherproof Head, IP-65 in die-cast Aluminium with cover
BWP	fitted with two screws.

Code	No. Of Conduit Entry/Entries
1	One
2	Two
	Other, Please Specify

Code	Conduit Entry Size
Α	3/4" ET(F)
В	1/2"NPT(F)
С	3/4"NPT(F)
	Other, Please Specify

Code	Head Extension Type
AC	Adjustable Threaded Connection

Code	Immersion Length 'IL'/ Element Length 'L'mm	49
	Specify in mm.	12

Code	Process conn. "P"	
Α	1/2"NPT(M)	
В	1/2" BSP(M)	
С	3/4"NPT(M)	
D	3/4" BSP(M)	
	Other, Please Specify	

Code	Option Description]
0	None	
3	Terminal head in SS 304	
4	Terminal head in SS 316	
6	S.C. cable gland in nickel plated brass	
7	D.C. cable gland in nickel plated brass	
8	S.C. cable gland in SS 304	
9	D.C. cable gland in SS 304	1
11	S.C. cable gland in SS 316	1
12	D.C. cable gland in SS 316	
13	Head mounted temp. transmitter	-(14)
14	S.S. base plate suitable for Temperature Transmitter mounting	
16	Head Extension in SS 304.	
17	Head Extension in SS 316.]
20	Plug for conduit entry in Carbon Steel [ASTM A105]	1
21	Plug for conduit entry in SS 304]
22	Plug for conduit entry in SS 316]
23	Plug for conduit entry in Aluminium	1
PW	Factory Calibration Certificate]
SX	SS Tag Plate	
TC	Teflon Coating on Sheath	

- Note:

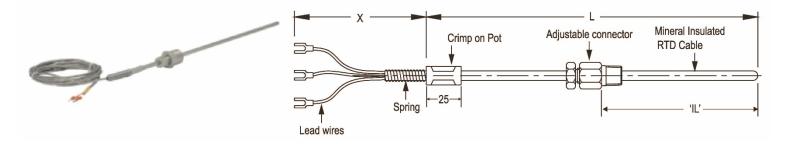
 1. When selecting option "PW", please also specify measuring temperature range.(For e.g. 0/300°C)

 2. Explanations of Abbreviations used:
 SC = Single Compression
 DC = Double Compression
 SS = Stainless Steel





RTD Assembly with Transition Joints



HOW TO ORDER

2 Wire System

3 Wire System

4 Wire System

Specify in mm.

3W

4W

Code	No of Element	
1	Simplex	
2	Duplex	
Code	Element	
Pt -100	Pt-100 RTD	
Pt- 500	Pt- 500 RTD	
Pt - 1000	Pt - 1000 RTD	
Cu - 53	Cu - 53	
Code	Range	
FLM	-200°C till 449°C	3
CMC	450°C till 600°C	
Code	Accuracy	
Α	Class 'A' Tolerance as per IEC - 751	4
В	Class 'B' Tolerance as per IEC - 751	
Code	Wire Configuration	

Code	Sheath Diameter	
3	3.0 mm	
4	4.0 mm	
5	5.0 mm	
6	6.0 mm	
8	8.0 mm	
10	10.0 mm	
Consult fa	ctory for other diameter.	

С	ode Sheath Materia		
3	04 SS 304 (Standa	ard)	
3	16 SS 316		
Co	de Immersion Len	gth 'IL' / Element Length 'L'	mm
	ac miniororor mon	gen in a monitorite nonigen n	

Code	Lead Wire Length "X" mm	
	Specify in mm.	9

Special Features

- Mineral Insulation
- RTD with adjustable process connection for adjustable insertion length
- Mineral Insulation enables flexibility and Durability.
- Reference standard IEC 751 / DIN 43760.

APPLICATION

• This design is used in General industry for temperature measurement.

STANDARD PRODUCT DETAILS

 No of element
 Simplex

 Element type
 Pt-100 RTD

 Range
 -200°C till 449°C

Accuracy - Class 'B' Tolerance as per IEC - 751

Wire Configuration - 3 Wire System
Sheath Diameter - 6.0 mm
Sheath Material - SS 304 / SS 316

Immersion Length 'IL' /

Element Length 'L' mm - L = 300 mm Lead Wire Length "X" mm - 3000 mm

Lead Wire Type - PTFE / PTFE / SS braided lead wire
Process Connection - 1/2"NPT(M) adj. connector in SS 304

Option Description - SS Tag Plate

Code	Lead Wire Type
1	PTFE insulated lead wires.
2	PTFE / PTFE insulated lead wires.
3	PTFE / PTFE / SS
	braided lead wires.

Code	Process Connection	
Α	½"NPT(M) adj. connector in SS 304	
В	½"NPT(F) adj. connector in SS 304	
С	1/2" BSP(M) adj. connector in SS 304	
D	1/2" BSP(F) adj. connector in SS 304	
	Other, please specify.	

Code	Option Description	
PW	Factory Calibration Certificate	12
SX	SS Tag Plate	

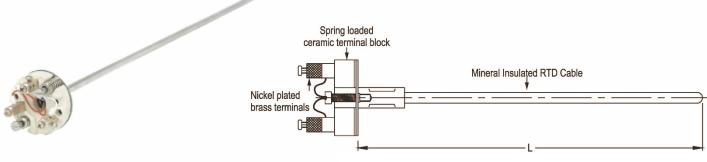
Note:

^{1.} When selecting option "PW", please also specify measuring temperature range. (For e.g. 0/300°C)





RTD Insert with Spring Loaded Terminal Block



HOW TO ORDER

Code	No of Element	
1	Simplex	
2	Duplex	

Code	Element Type	
Pt -100	Pt - 100 RTD	
Pt- 500	Pt - 500 RTD	
Pt - 1000	Pt - 1000 RTD	
Cu - 53	Cu - 53	

I	Code	Range	
ı	FLM	-200°C till 449°C	3
ı	CMC	450°C till 600°C	

Code	Accuracy
Α	Class 'A' Tolerance as per IEC - 751
B	Class 'B' Tolerance as per IEC - 751

	Code	Wire Configuration]
	2W	2 Wire System	
Γ	3W	3 Wire System	
Г	4W	4 Wire System	

Code	Sheath Diameter	
3	3.0 mm	
4	4.0 mm	
5	5.0 mm	
6	6.0 mm	6
8	8.0 mm	
10	10.0 mm	
Consult fa	ctory for other diameter.	

Code	Sheath Material	
304	SS 304 (Standard)	
316	SS 316	

Special Features

- Mineral Insulation
- RTD with adjustable process connection for adjustable insertion length
- Mineral Insulation enables flexibility and Durability.
- Reference standard IEC 751 / DIN 43760.

APPLICATION

Used as a spare or replacement RTD element in existing RTD assembly

STANDARD PRODUCT DETAILS

No of element Simplex Pt - 100 RTD Element type Range -200°C till 449°C

Accuracy Class 'B' Tolerance as per IEC - 751

Wire Configuration 3 Wire System Sheath Diameter 6.0 mm Sheath Material SS 316

Cold End Termination Spring loaded terminal block

OD = 41.0 mm PCD = 33 mm

Element Length "L" mm -300 mm Option Description SS Tag Plate

Code	Cold End Termination	
1	Spring loaded terminal block OD = 41.0 mm PCD = 33 mm	
2	Spring loaded terminal block OD = 55.0 mm PCD = 46 mm	

ı	Code	Element Length "L" mm	0
		Specify in mm.	y

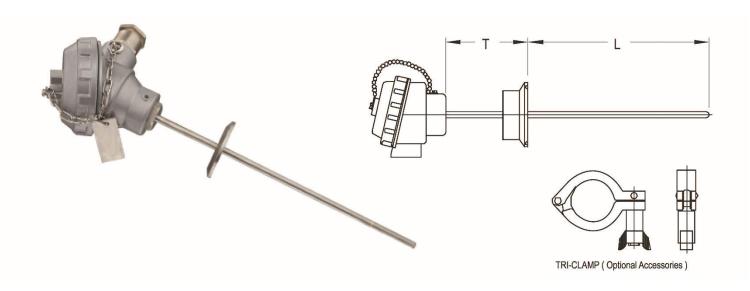
Code	Option Description	
PW	Factory Calibration Certificate	10
SX	SS Tag Plate	

Note:

1. When selecting option "PW", please also specify measuring temperature range. (For e.g. 0/300°C)







HOW TO ORDER

Code	No of Element	
1	Simplex	1
2	Duplex	_

Code	Element Type
Pt -100	Pt - 100 RTD
Pt- 500	Pt - 500 RTD
Pt - 1000	Pt - 1000 RTD
Cu - 53	Cu - 53

Code	Range	
FLM	-200°C till 449°C	
CMC	450°C till 600°C	`

Code	Accuracy	
Α	Class 'A' Tolerance as per IEC - 751	4
В	Class 'B' Tolerance as per IEC - 751	

Code	Wire Configuration	
2W	2 Wire System	
3W	3 Wire System	
4W	4 Wire System	

Code	Sheath Diameter	
3	3.0 mm	
4	4.0 mm	
5	5.0 mm	
6	6.0 mm	6
8	8.0 mm	
10	10.0 mm	
Consult fa	actory for other diameter.	

Special Features

- Tri Clamp are available in size of 1.5", 2", 2.5".
- Mounting is very easy & quick
- Reference standard IEC 751 / DIN 43760.

APPLICATION

Sanitary application, food industries etc.

STANDARD PRODUCT DETAILS

 No of element
 Simplex

 Element type
 Pt - 100 RTD

 Range
 -200°C till 449°C

Accuracy - Class 'B' Tolerance as per IEC - 751

 Wire Configuration
 3 Wire System

 Sheath Diameter
 6.0 mm

 Sheath Material
 SS 316

Terminal Head Type - Screwed type, weatherproof, IP-67 / 65 in

die-cast Alumunium

Junction Box Extension Type - Adjustable Tri clamp connection

Tri clamp size - 1.5"
Immersion Length "L"mm - 300 mm.
Extension Length "T"mm - 50 mm.

Option Description - S.C. cable gland in nickel plated

brass

Code	Sheath Material	
316	SS 316	
Code	Terminal Head Type	
SW5	Screwed type, weatherproof, IP-65 in die-ca	ast Alumunium
SW7	Screwed type, weatherproof, IP-67 in die-ca	
SFP	Screwed type, flameproof Gr. IIA IIB in die-c	
SEP	Screwed type, explosionproof Gr.IIC in die-	
HWP	Hinged type, weatherproof, IP-65 in die-cas	
BWP	Weatherproof Head, IP-65 in die-cast Alumi fitted with two screws.	nium with cover
	nuca with two sciews.	
Code	No. Of Conduit Entry/Entries	
1	One	
2	Two	
	Other, Please Specify	
Code	Conduit Entry Size	
Α	3/4" ET(F)	
В	1/2"NPT(F)	
С	3/4"NPT(F)	
	Other, Please Specify	
Code	Head Extension Type	
ATC	Adjustable Tri clamp connection	
Code	Tri clamp size	
1.5"	1 ½"	
2"	2"	
2.5"	2 ½"	
	Fix Welded With Sheath	
	Other, Please Specify	
	and the second	
Code	Immersion Length "L"mm	
	Specify in mm.	

Extension Length "T"mm
Specify in mm.

Code

Code	Option Description]
0	None	
3	Terminal head in SS 304	
4	Terminal head in SS 316	
5	Terminal head in Cast Iron	
6	S.C. cable gland in nickel plated brass	
7	D.C. cable gland in nickel plated brass]
8	S.C. cable gland in SS 304	
9	D.C. cable gland in SS 304	
11	S.C. cable gland in SS 316	-15
12	D.C. cable gland in SS 316	
13	Head mounted temp. transmitter	
14	S.S. base plate suitable for Temperature Transmitter mounting	1
20	Plug for conduit entry in Carbon Steel [ASTM A105]]
21	Plug for conduit entry in SS 304]
22	Plug for conduit entry in SS 316	
23	Plug for conduit entry in Aluminium	
PW	Factory Calibration Certificate	
SX	SS Tag Plate	

- Note:

 1. When selecting option "PW", please also specify measuring temperature range.(For e.g. 0/300°C)

 2. Explanations of Abbreviations used:

 SC = Single Compression

 DC = Double Compression

 SS = Stainless Steel

DEALER / DISTRIBUTOR : ALLTRADE INTEGRATED SDN. BHD.

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