



Special Features

- Stainless steel case
- Rugged construction
- Dry or liquid filled
- Standard followed in general EN 837-1

Application

- Oil
- Water
- Pneumatics
- Hydraulics
- Pump
- Compressors
- Diesel engines
- Gaseous / Liquid media that will not obstruct the pressure system

Specifications

Standard Version : 50 mm, 63 mm, 80 mm & 100 mm

Accuracy	:	±1.6% of F. S. (For NS 63 mm, 80 mm & 100 mm) & ±2.5% of F. S. (For NS 50 mm)
Ambient temperature	:	- 20°C to + 65°C
Process temperature	:	Max 150°C
Operating pressure range	:	75 % of Scale Value
Over pressure limit	:	≤ 100 bar : 125% of Max. Scale Value
	:	> 100 to ≤ 600 bar : 115% of Max. Scale Value
	:	> 600 to ≤ 1600 bar : 110% of Max. Scale Value

Case	:	AISI 304 SS (Rolling Type), Bayonet type for NS 80 mm
Bourdon	:	Copper Alloy
Socket	:	Copper Alloy
Movement	:	Copper Alloy
Joints	:	Alloy Brazing / Soldering

Protection	:	IP 65
Dial	:	Aluminum, black graduation on white background
Pointer	:	Black coloured, Fixed
Window	:	Plexi Glass
Blow off Disc	:	Neoprene
Gasket	:	Neoprene /Silicon Rubber

Dry But Fillable Version (Option FG)

Fillable Dampening Liquid	:	Glycerine 99.7%
Ambient Temperature	:	Maximum 65°C
Process Temperature	:	Maximum 65°C
Other Features	:	Refer Specification of Standard Version

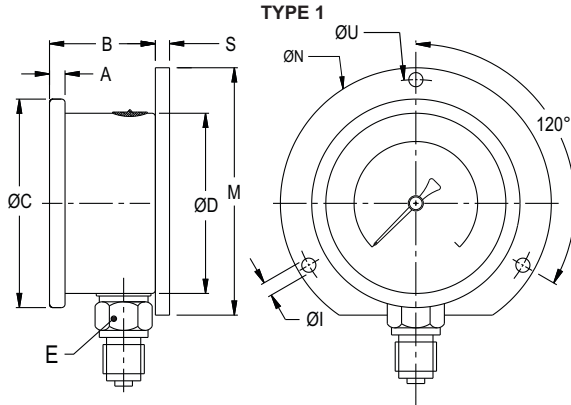
Glycerine Filled Version (Option PY)

Accuracy	:	±1.6% of F. S. (For NS 63 mm, 80 mm & 100 mm) & ±2.5% of F. S. (For 50 mm)
Ambient Temperature	:	Maximum 65°C
Process Temperature	:	Maximum 65°C
Window	:	Plexi Glass
Dampening Liquids	:	Glycerine 99.7%
Other Features	:	Refer Specification of Standard Version

Temperature effect:

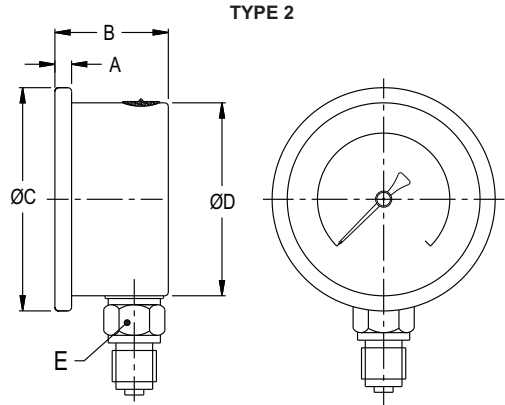
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :- Formula : $\pm 0.04 \times (t_2 - t_1) \% \text{ of F. S.}$ where t_1 = reference temperature (+20°C) and t_2 = ambient temperature in °C.

Dimensions - standard version



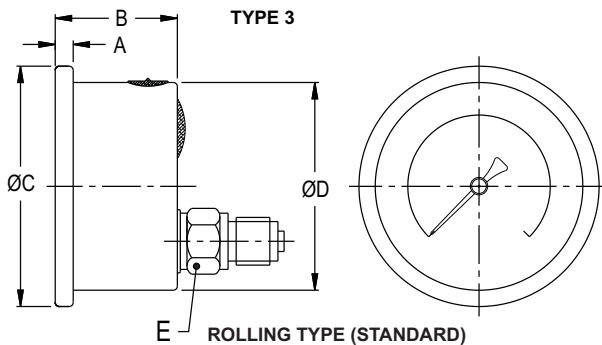
ROLLING TYPE (STANDARD)

NS	A	B	ØC	ØD	E	S	ØN	ØI	ØU	M	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
63	6.5	30	68	62.5	A/F 14	6	134	5	76	80	195.0	255.0
100	7	35.5	110	100	A/F 17	4	150	6	118	128	465.0	575.0



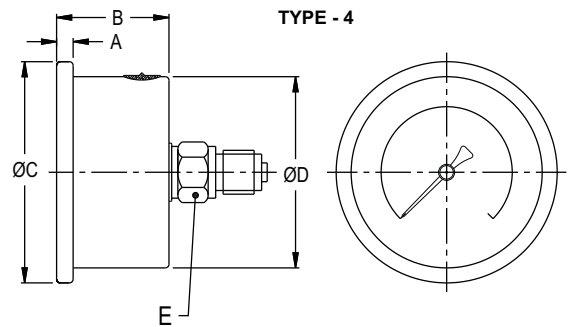
ROLLING TYPE (STANDARD)

NS	A	B	ØC	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
50	5	29	57	51.5	A/F 14	125.0	185.0
63	6.5	30	68	62.5	A/F 14	155.0	215.0
100	7	35.5	110	100	A/F 17	390.0	500.0



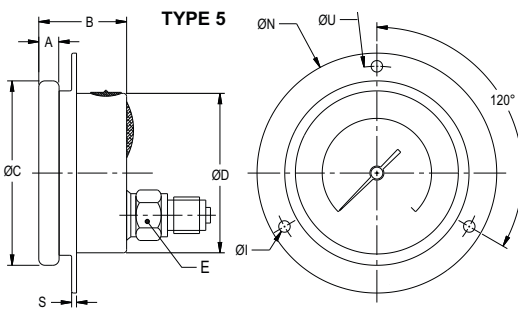
ROLLING TYPE (STANDARD)

NS	A	B	ØC	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	7	35.5	110	100	A/F 17	410.0	520.0



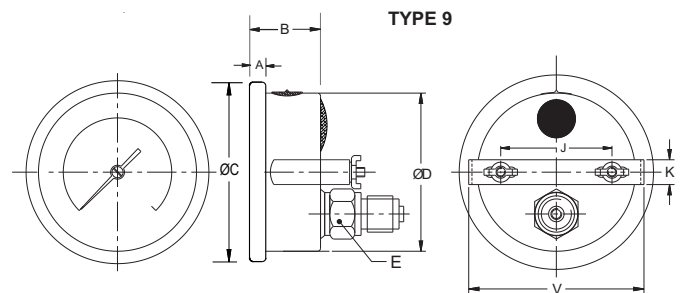
ROLLING TYPE (STANDARD)

NS	A	B	ØC	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
50	4.5	29	57.5	51.5	A/F 14	118.0	180.0
63	6.5	30	68	62.5	A/F 14	155.0	215.0



ROLLING TYPE (STANDARD)

NS	A	B	ØC	ØD	E	S	ØI	ØN	ØU	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
63	9	31	62	69.5	A/F 14	1	6	85.5	76	211.0	270.0
100	9	35.5	100	110	A/F 17	1	6	134	118	460.0	570.0

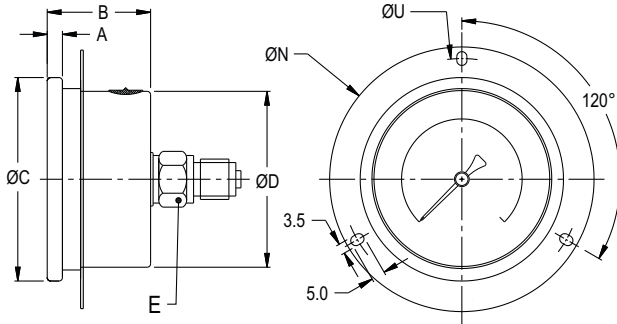


ROLLING TYPE (STANDARD)

NS	A	B	ØD	ØC	E	J	K	V	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	7	35.5	100	110	A/F 17	66.5	16	106	550.0	670.0

For other optional items, please contact factory for delivery and minimum quantity of order.

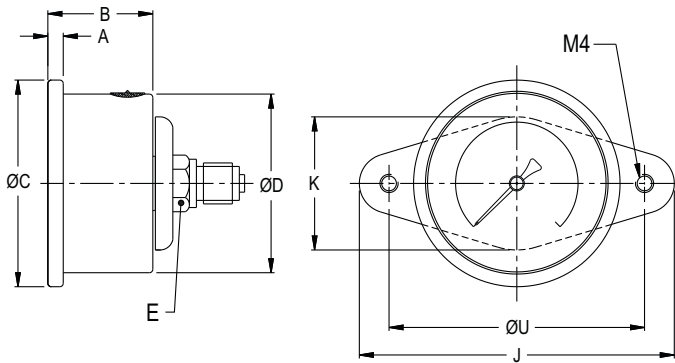
Dimensions - standard version



TYPE - 12

ROLLING TYPE (STANDARD)

NS	A	B	ØC	ØD	E	ØN	ØU	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
63	6.5	30	68	62.5	A/F 14	85.5	76	216.0	276.0

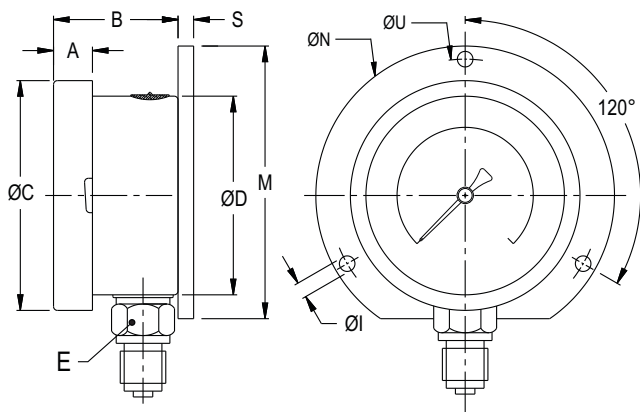


TYPE - 13

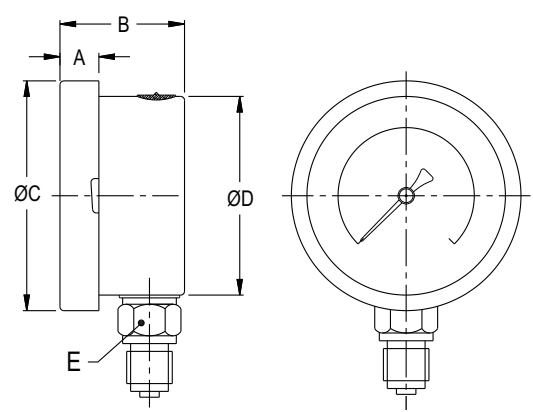
ROLLING TYPE (STANDARD)

NS	A	B	ØC	ØD	E	J	K	ØU	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
50	5	29	57	51.5	A/F 14	91	38	70.5	160.0	200.0
63	6.5	30	68	62.5	A/F 14	91	38	70.5	195.0	255.0

TYPE 1



TYPE 2



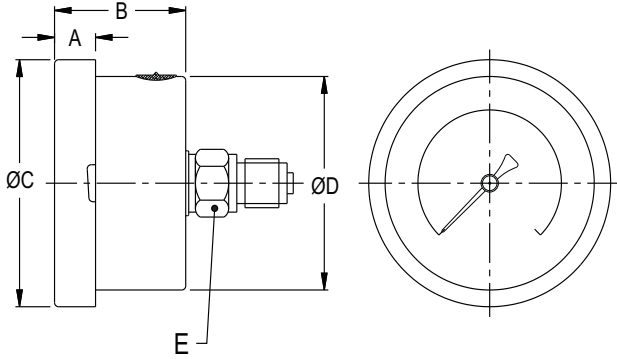
BAYONET TYPE (OPTION - OS)

NS	A	B	ØC	ØD	E	S	ØN	ØI	ØU	M	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
63	10	30	69.5	62.5	A/F 14	5	88	5	76	80	207.0	267.0
80	11	35	89.5	80	A/F 14	4	110	5	94	95	300.0	380.0
100	12.5	39	110	100	A/F 17	6	134	6	118	128	510.0	630.0

BAYONET TYPE (OPTION - OS)

NS	A	B	ØC	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
50	10	31	59	51	A/F 14	136.0	200.0
63	9	31	69.5	62.5	A/F 14	165.0	225.0
80	11	35	89.5	80	A/F 14	250.0	330.0
100	12.5	39	110	100	A/F 17	390.0	520.0

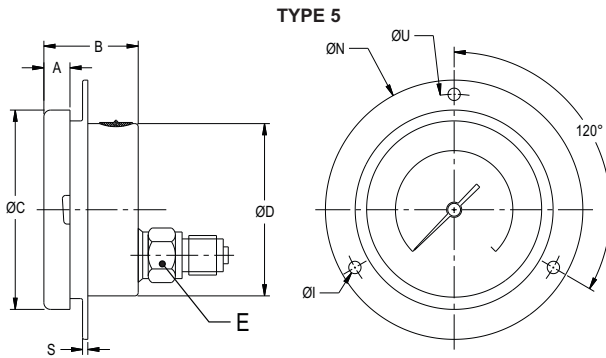
Dimensions - standard version



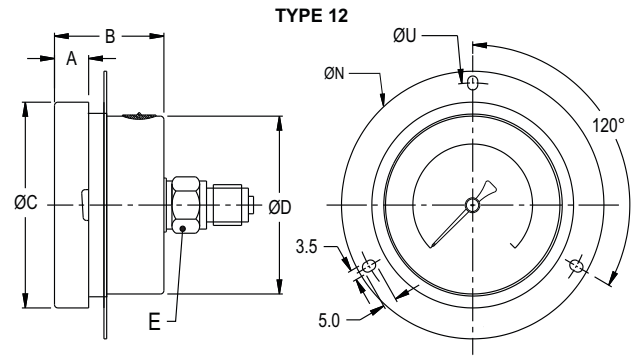
TYPE - 4

BAYONET TYPE (OPTION - OS)

NS	A	B	ØC	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
50	10	31	59	51	A/F 14	162.0	225.0
63	10	31	69.5	62.5	A/F 14	172.0	230.0
80	11	35	89.5	80	A/F 14	240.0	320.0



TYPE 5



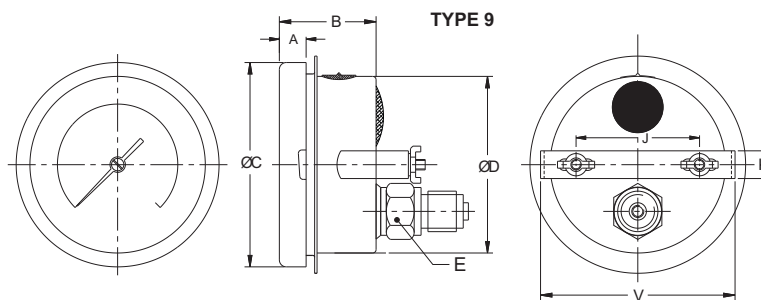
TYPE 12

BAYONET TYPE (OPTION - OS)

NS	A	B	ØC	ØD	E	S	ØI	ØN	ØU	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
63	9	31	62.5	69.5	A/F 14	1	6	85.5	76	211.0	270.0
100	12.5	35.5	100	110	A/F 14	1	6	134	118	460.0	600.0

BAYONET TYPE (OPTION - OS)

NS	A	B	ØC	ØD	E	ØN	ØU	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
63	9	31	69.5	62.5	A/F 14	85.5	76	211.0	280.0



TYPE 9

BAYONET TYPE (STANDARD)

NS	A	B	ØD	ØC	E	J	K	V	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	39	100	110	A/F 17	66.5	16	106	550.0	670.0

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

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

Nominal Sizes

Range (psi with kg/cm ²)		50	63	80	100
psi	kg/cm ²				
-30 inHg / 0	-760 mmHg / 0	✓	✓	✓	✓
0/15 psi	0/1 kg/cm ²	✓	✓	✓	✓
0/30 psi	0/2 kg/cm ²	✓	✓	✓	✓
0/60 psi	0/4 kg/cm ²	✓	✓	✓	✓
0/100 psi	0/7 kg/cm ²	✓	✓	✓	✓
0/150 psi	0/10 kg/cm ²	✓	✓	✓	✓
0/220 psi	0/16 kg/cm ²	✓	✓	✓	✓
0/300 psi	0/21 kg/cm ²	✓	✓	✓	✓
0/400 psi	0/28 kg/cm ²	✓	✓	✓	✓
0/500 psi	0/35 kg/cm ²	✓	✓	✓	✓
0/600 psi	0/42 kg/cm ²	✓	✓	✓	✓
0/1000 psi	0/70 kg/cm ²	✓	✓	✓	✓
0/1500 psi	0/100 kg/cm ²	✓	✓	✓	✓
0/2200 psi	0/160 kg/cm ²	✓	✓	✓	✓
0/3000 psi	0/210 kg/cm ²	✓	✓	✓	✓
0/4000 psi	0/280 kg/cm ²	✓	✓	✓	✓
0/5000 psi	0/350 kg/cm ²	×	✓	✓	✓
0/6000 psi	0/400 kg/cm ²	×	✓	✓	✓
- 30inHg /15	- 1/1 kg/cm ²	×	✓	✓	✓
- 30inHg /30	- 1/2 kg/cm ²	×	✓	✓	✓
- 30inHg /60	- 1/4 kg/cm ²	×	✓	✓	✓
- 30inHg /100	- 1/7 kg/cm ²	×	✓	✓	✓
- 30inHg /150	- 1/10 kg/cm ²	×	✓	✓	✓
- 30inHg /200	- 1/14 kg/cm ²	×	✓	✓	✓
- 30inHg /300	- 1/21 kg/cm ²	×	✓	✓	✓

Freon With Temperature Scale

Note : For temperature scales, please provide refrigerant name.

- 30" Hg / 150 psi	×	✓	✓	✓
- 30" Hg / 300 psi	×	✓	✓	✓
0/300 psi	×	✓	✓	✓
0/500 psi	×	✓	✓	✓

Accessories (Refer Datasheet For Complete Specifications)

EC	Gauge cock	EG	Snubber
ED	Overload protector (gauge saver)**	EH	Siphon
*	Needle valve		

* Refer catalogue for Valves & Manifolds

** For Pressure Ranges.

How To Order						Example
Basic Model						AT
Code						
Nominal Size		C	D	E	F	
		50 mm	63 mm	80 mm	100 mm	X
Type of Mounting						X OR XX
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	×	✓	×	✓	
9	Lower back entry with mounting bracket	×	×	×	✓	
12	Center back entry with front flange	×	✓	×	×	
13	Center back entry with mounting bracket	✓*	✓*	×	×	
Note : *Applicable for Rolling type design only.						
Gauge Connection		C	D	E	F	XXX
1BM	1/8" BSP(M)	✓	✓	×	×	
1NM	1/8" NPT(M)	✓	✓	×	×	
1TM	1/8" BSPT(M)	✓	✓	×	×	
2BM	1/4" BSP(M)	✓	✓	✓	✓	
2NM	1/4" NPT(M)	✓	✓	✓	✓	
2TM	1/4" BSPT(M)	✓	✓	✓	✓	
3BM	3/8" BSP(M)	×	×	✓	✓	
3NM	3/8" NPT(M)	×	×	✓	✓	
3TM	3/8" BSPT(M)	×	×	✓	✓	
4BM	½" BSP(M)	×	×	✓*	✓*	
4NM	½" NPT(M)	×	×	✓*	✓*	
4TM	½" BSPT(M)	×	×	✓*	✓*	
* These connections will be provided on request. Consult factory for minimum order quantity, price & delivery.						
Note : Connections like Metric/ PT/ PF/ Flaired/ UNF/ G/ R etc. can be provided on request.						
Range						0/10 kg/cm²
Refer range table						
Optional Extras						XX
RH	Custom designed dial	SX	SS tag plate			
SG	Oxygen service (for dry version)	TB	Helium leak test			
PW	Five point calibration certificate	FG	Fillable liquid glycerine			
PY	Dampening liquid glycerine filled	FK	Integral dampening screw (brass)			
RI	25 mm BOD (except mounting 4, 12 & 13)*	ZC	Freon Range (with temperature scale)*			
OS	Case with bayonet type bezel***	RX	Shatterproof glass/ safety glass (for bayonet type design)*			
RR	Enclosure protection IP 66***	RZ	Toughened glass (for bayonet type design)*			
RE	Enclosure protection IP 67***	SF	Movement with dampening jelly*			
* Applicable for NS 63 mm, 80 mm & 100 mm.						
***Applicable for NS 50 mm, 63 mm & 100 mm.						

Ordering Example: AT . X . X OR XX . XXX . 0/10 kg/cm² . XX

For other optional items, please contact factory for delivery and minimum quantity of order.