



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



#### **Special Features**

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

#### **Application**

- Food & beverage
- Engine compressors
- Diesel engines
- Equipments
- Nuclear power plants
- Pharmaceutical
- Turbines
- Hydraulic
- Petrochemical industries
- Hydro-cleaning machines
- Refrigerating plants and gaseous / liquid media that will not obstruct the pressure system.

Pumps

Presses

Chemical

Conventional

CE

### **Specifications**

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

± 1.6% of F.S. Accuracy Ambient temperature - 25°C to + 65°C Process temperature Max 180°C Operating pressure 75 % of Scale Value

: 125% of Max. Scale Value Over pressure limit < 100 bar

> 100 to < 600 bar : 115% of Max. Scale Value > 600 to < 1600 bar : 110% of Max. Scale Value

Case & Bezel AISI 304 SS (Crimped Bezel) / Optional Bayonet Bezel For NS 63 & 83mm(Option: SAB)

Socket AISI 316 SS AISI 316L SS Bourdon Movement AISI 304 SS

Tig Argon Arc Welding **Joints** 

Protection **IP** 68

Aluminium, black graduation on white background Dial

Pointer Black Coloured, Fixed

Window Plexi Glass / Toughened Glass for Option SAB

Filling Plug Neoprene Gasket Neoprene

#### Dry but fillable version (option DFG)

Fillable Dampening Liquid Glycerine 99.7% Ambient Temperature (-) to 65°C **Process Temperature** Maximum 100°C

Other Features Refer Specification of Standard Version

### Glycerine filled version (option LGF)

Accuracy ±1.6% of F. S. **Ambient Temperature** Maximum Maximum 100°C **Process Temperature** 

Window Plexi Glass / Toughened Glass for Option SAB

Dampening Liquids Glycerine 99.7%

Other Features Refer Specification of Standard Version

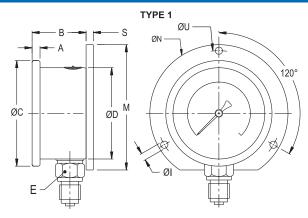
### Temperature effect:

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 : ± 0.04 x (t2 - t1) % of F. S. where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C.

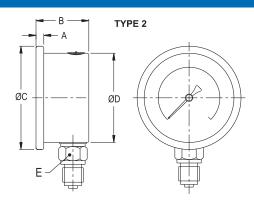


### All SS Pressure Gauge Bourdon type (Two Part Connection System)

### Dimensions - standard version (Crimped / Rolling Bezel)

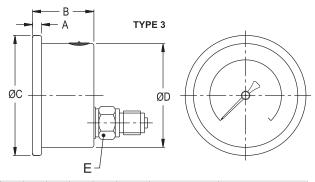


N	IS	Α	В	øс	ØD	E	s	ØN	ØΙ	øυ	М	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
6	3	6.5	30.5	69	62.5	A/F 14	7	86	3.6	75	80	190.0	250.0

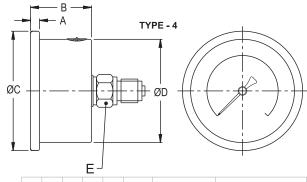


NS	Α	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box
40*	5	29	45.5	41	A/F 14	90.0	130.0
50	5	29	57.5	51.5	A/F 14	125.0	185.0
63	6.5	30.5	69	62.5	A/F 14	140.0	200.0

<sup>\*</sup> Push Fit type (standard)

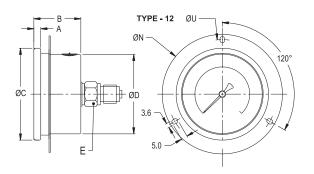


NS	Α	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)	
63	6.5	30.5	69	62.5	A/F 14	160.0	220.0	

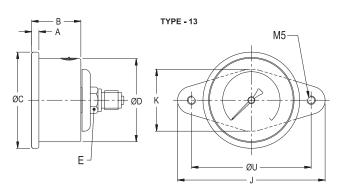


NS	Α	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
40*	5	29	45.5	41	A/F 14	100.0	140.0
50	4.5	29	57.5	51.5	A/F 14	117.0	167.0
63	6.5	30.5	69	62.5	A/F 14	170.0	230.0

<sup>\*</sup> Rolling type (standard)



	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



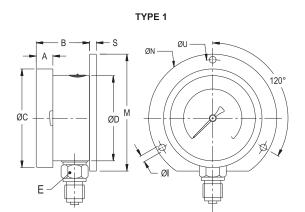
NS	Α	В	øс	ØD	E	J	ĸ	Øυ	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
50	5	29	57	51.5	A/F 14	91	38	70.5	180.0	240.0
63	6.5	30.5	69	62.5	A/F 14	91	38	70.5	210,0	270.0

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.



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

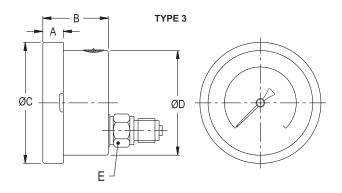
### Dimensions - Optional version With Option SAB (Snap Action Bayonet type bezel)

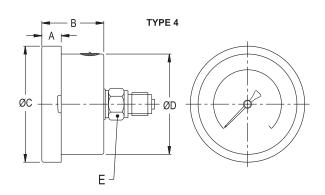


TYPE 2
ØC ØD

NS	A	В	øс	ØD	E	s	ØN	ØI	øυ	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

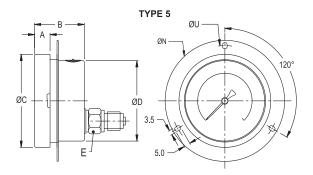
NS	Α	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
63	12	32	70	63	A/F 14	180.0	240.0
80	12	35	90	80	A/F 14	250.0	330.0

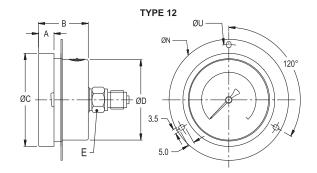




NS	А	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)	
63	12	32	70	63	A/F 14	190.0	250.0	

NS	А	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	А	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	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
50	12	32	59	52	A/F 14	76	65	200.0	250.0



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

### 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

je (psi with kg/cm³)		40 mm	50 mm	63 mm	80 mm
psi	kg/cm²				
-30 inHg / 0	-760 mmHg / 0	~	~	~	V
0/15 psi	0/1 kg/cm <sup>2</sup>	~	~	<b>✓</b>	V
0/30 psi	0/2 kg/cm <sup>2</sup>	~	~	<b>~</b>	V
0/60 psi	0/4 kg/cm <sup>2</sup>	~	~	~	V
0/100 psi	0/7 kg/cm <sup>2</sup>	~	~	~	V
0/150 psi	0/10 kg/cm <sup>2</sup>	~	~	<b>~</b>	V
0/230 psi	0/16 kg/cm <sup>2</sup>	~	~	<b>~</b>	V
0/300 psi	0/20 kg/cm <sup>2</sup>	~	~	~	V
0/400 psi	0/28 kg/cm <sup>2</sup>	~	~	<b>~</b>	V
0/500 psi	0/35 kg/cm <sup>2</sup>	~	~	~	~
0/600 psi	0/42 kg/cm <sup>2</sup>	~	~	<b>~</b>	V
0/1000 psi	0/70 kg/cm <sup>2</sup>	~	~	<b>~</b>	~
0/1500 psi	0/100kg/cm <sup>2</sup>	~	~	<b>v</b>	V
0/2300 psi	0/160 kg/cm <sup>2</sup>	V	~	<b>✓</b>	~
0/3000 psi	0/200 kg/cm <sup>2</sup>	~	~	<b>v</b>	~
0/4000 psi	0/280 kg/cm <sup>2</sup>	V	~	<b>✓</b>	V
0/5000 psi	0/350 kg/cm <sup>2</sup>	V	~	<b>✓</b>	~
0/6000 psi	0/400 kg/cm <sup>2</sup>	V	~	<b>✓</b>	~
0/10000 psi	0/700 kg/cm <sup>2</sup>	×	~	<b>v</b>	V
0/15000 psi	0/1000 kg/cm <sup>2</sup>	×	×	~	V
- 30inHg /30	- 1/2 kg/cm²	×	~	<b>✓</b>	<b>V</b>
- 30inHg /60	- 1/4 kg/cm²	×	~	V	V
- 30inHg /100	- 1/7 kg/cm²	×	~	~	V
- 30inHg /150	- 1/10 kg/cm²	×	~	<b>~</b>	V
- 30inHg /200	- 1/14 kg/cm²	×	~	<b>✓</b>	~
- 30inHg /300	- 1/21 kg/cm²	×	~	<b>✓</b>	~
nonia with temperature scal	e				
- 30" Hg / 150 psi		×	×	V	~
- 30" Hg / 300 psi		×	×	V	~
0/300 psi		×	×	V	~
-11/2. 5 kg/cm²		×	×	V	~
-1/16 kg/cm²		×	×	V	V
-1/25 kg/cm <sup>2</sup>		×	×	V	V

### Accessories (refer datasheet for complete specifications)

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

<sup>\*</sup> Refer catalogue for Valves & Manifolds

<sup>\*\*</sup> For Pressure Ranges Only.



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How T	o Order						Examp
Basic M	Model						WPT
Code							
Nominal Size			15	20	25	30	
			40 mm	50 mm	63 mm	80 mm	XX
Type of	f Mounting						
1	Wall/ surface/ projection mounting with botton	n entrv	×	×	V	~	
2	Direct bottom entry	,	V	~	~	~	
3	Direct lower back entry		×	×	~	×	X
4	Direct center back entry		~	~	~	~	OR
5	Lower back entry with front flange		×	×	~	×	XX
12	Center back entry with front flange		×	~	<b>V</b>	×	
13	Center back entry with mounting bracket *		<b>✓</b>	<b>/</b>	<i>'</i>	×	
16	Center Back Entry With Front Flange & Bracke	et	×	<b>/</b>	~	×	
Note:	*Applicable for Crimped type Bezel Design only.						
Gauge	Connection	Nominal Size	> 15	20	25	30	
1BM	1/8" BSP (M)		~	~	~	×	
1NM	1/8" NPT (M)		<b>✓</b>	~	<b>~</b>	×	
1TM	1/8" BSPT (M)		<b>✓</b>	~	~	×	
2BM	1/4" BSP (M)		×	~	~	×	
2NM	1/4" NPT (M)		×	~	~	×	XXX
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)		×	×	×*	×* ×* ×*	
8MM	M11 x 1.25mm Pitch Flare Connection		×	×	<b>✓</b>	×*	
* These	e connections will be provided on request. Consu	ult factory for mi	nimum order qua	antity, price & d	elivery.		
Range							0/10
Refer ra	ange table						kg/cm
Option	al Extras						
CDD	Custom designed dial		SS tag plate				
oxs	Oxygen service (for dry version)	Helium leak test					
CBS	AISI 316 SS case & bezel *	DSS	DSS Integral dampening screw (AISI 316 SS)				
DFG	Dry but Field Fallible liquid glycerine	Maximum reading pointer with plexi glass*					
DFS	Dry but Field Fallible liquid silicon oil ***	Shatterproof / safety glass (for bayonet type design) * #				XXX	
LGF	Dampening liquid glycerine filled ##	TDG	TDG Toughened glass (for bayonet type design) *#				
LSI	Dampening liquid silicon oil filled ***	MDJ	MDJ Movement with dampening jelly * #				
MTC	Material test certificates ****	AMO	Ammonia range	(with temperat	ure scale) * #		
TRC	Calibration certificate traceable to National / International standards	SAB	Snap Action Bay	onet Type Cas	e & Bezel #		

<sup>\*</sup> Applicable for NS 63 mm

# Applicable for NS 63 mm & 80 mm.

# Ordering Example: WPT - XX - X OR XX - XXX - 0/10 kg/cm<sup>2</sup> - XXX

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

Note: Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing.

Modifications may take place and materials specified may be replaced by others without prior notice.

<sup>\*\*\*</sup> Gasket & Filling Plug of Viton.

<sup>##</sup> Applicable for NS 50mm, 63mm & 80mm.

<sup>\*\*\*\*</sup> Material test certificates will be provided for wetted parts only with chemical composition testing. For others, please consult factory.