

All SS (SS 304) Pressure Gauge Bourdon type



Standard Version

Special Features

- Stainless steel case & measuring system
- Socket directly welded to case
- Dry and liquid filled version
- Standard followed EN 837-1 (for NS 100, 150 & 250 mm)

Application

- Cryogenics
- Pumps
- Diesel engines & Refrigerating plants
- Chemical & Petrochemical industries
- Conventional & nuclear power plants
- Environments & gaseous or liquid media that will not obstruct the pressure system.
- Hydro-cleaning machines
- Presses
- Engine compressors
- **Turbines**

Specifications

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

±1.0% of F. S. Accuracy - 25°C to + 65°C Ambient temperature Process temperature Max 300°C Operating pressure range 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 (Bayonet Type)

Bourdon AISI 316L SS

Socket AISI 304 SS (Directly Welded to Case)

AISI 304 SS Movement

Joints Tig Argon Arc Welding

Protection

Dial Aluminium, black graduation on white background

Standard Version

Aluminium, black coloured Micrometer zero adjustable / W/o. Zero Adjustment Pointer for Option LGF Pointer

Glycerine Filled Version

Toughened Glass Window

Blow off Disc Neoprene Gasket & Filling Plug Neoprene

Dry But Fillable Version

Fillable Dampening Liquid Glycerine 99.7% (Option - DFG)

Ambient Temperature Maximum 65°C **Process Temperature** Maximum 100°C Window Toughened Glass Other Features Refer Specification of

Accuracy Ambient Temperature : Process Temperature :

> Toughened Glass Dampening Liquids Glycerine 99.7% (others available as option) Other Features Refer Specification of Standard Version

±1.0% of F.S.

Maximum 65°C

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

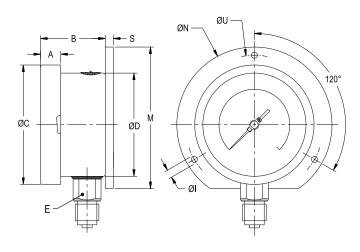
Window



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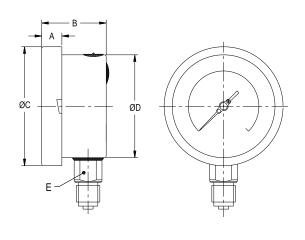
Dimensions - Standard Version

TYPE 1

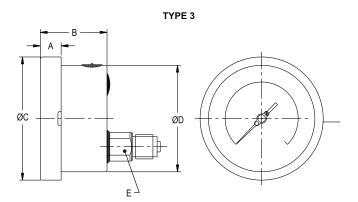


NS	Α	В	øс	ØD	Е	М	s	øı	ØN	øυ	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	45	111	100	22	128	5	6	134	118	720.0	1025.0
125	15	46	129	119	22	143	5	6	150	137	845.0	1165.0
150	15	47	161	149	22	174.5	5	6	186	168	1160.0	1895.0
200	18	49	216	200	22	229	1.5	7	245	230	2020.0	2780.0
250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

TYPE 2

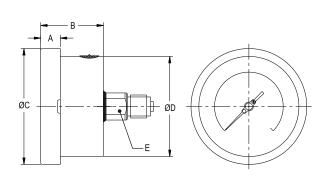


NS	A	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	48	111	100	22	640.0	935.0
125	15	48	129	119	22	750.0	1070.0
150	15	49	161	149	22	1020.0	1755.0
200	18	49	216	200	22	1720.0	2480.0
250	18	55	263	248	22	2000.0	2820.0



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
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



N	NS	Α	В	øс	ØD	Е	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
1	00	12.5	47	111	100	22	640.0	935.0

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

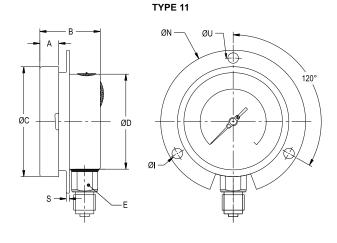


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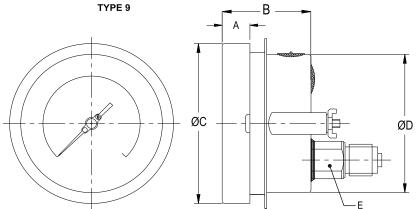
Dimensions - standard version

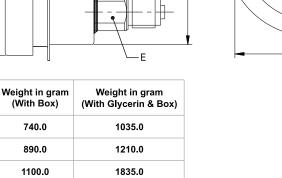
TYPE 5

NS	Α	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	Α	В	øс	ØD	Е	s	ØΙ	ØN	øυ		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





2680.0

3120.0

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

16 108

16 125

16 166

16 208

30 270

• Weights mentioned are approximate and for standard product. Weight can be different after selection of options.

1920.0

2300.0

NS

100 12.5 48

125 15 48 129

150 15 49

200

250

18 49 216

18 52 263 248 22 180

B ØC ØD E

111

161 149 22 100

100 22 62

119 22 65

200 22 165

K



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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.

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Ρ	re	S	S	ı	ı	r	ρ

Single Scale (kg/cm² o	r 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		

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/cm ²	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

Receiver

Linear scale	Square root scale
(0 - 100% Internal Scale)	(0 - 10 Sq - Root Internal Scale)
External Scale	External 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/cm ²)

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