

All SS Heavy duty Bourdon Type Pressure Gauge



Standard Version

Special Features

- External zero adjustment (optional)
 - 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

- Food & beverage
- Pharmaceutical
- 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
- Suitable for corrosive

Specifications

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

Accuracy	: ±1.0% / 0.5% of F. S.	Case & Bezel	: AISI 304 SS (Bayonet Type)
Ambient temperature	: - 25 C to + 65 C	Bourdon	: AISI 316 / 316L SS
Process temperature	: Max 300 C	Socket	: AISI 304 / 316 / 316L SS (Directly Welded to Case)
Operating pressure range	: 75% of Scale Value	Movement	: AISI 304 SS
Over pressure limit	: ≤ 100 bar : 125% of Max. Scale Value	Joints	: Tig Argon Arc Welding
	: > 100 to ≤ 600 bar : 115% of Max. Scale Value		
	: > 600 to < 1600 bar : 110% of Max. Scale Value		

Protection	: IP 68
Dial	: Aluminium, black graduation on white background
Pointer	: Aluminium, black coloured Micrometer zero adjustable
Window	: Toughened Glass / Plexi Glass
Blow off Disc	: Neoprene
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 : $\pm 0.04 \times (t_2 - t_1) \% \text{ of F. S.}$ where t_1 = reference temperature (+20 C) and t_2 = ambient temperature in C.

Optional Variance

Dial Size	100 mm	150 mm	200 mm	250 mm
Connection Size & Mounting				
■ Gauge Connection (BSP / NPT / Others)	1/2"/3/8"/1/4"	1/2"/3/8"/1/4"	1/2"/3/8"	1/2"/3/8"
■ Wall surface/ projection mounting with bottom entry	✓	✓	✓	✓
■ Direct bottom entry	✓	✓	✓	✓
■ Direct lower back entry	✓	✓	✓	✓
■ Direct center back entry	✓	×	×	×
■ Lower back entry with front flange	✓	✓	✓	✓
■ Center back entry with front flange	✓	✓	✓	✓
■ Center back entry with mounting bracket *	✓	×	✓	✓
■ Bottom entry with front flange	✓	✓	×	×
■ 2" pipe / yoke mounting with bottom entry*	✓	✓	×	×

Please contact us for other Variations, delivery and minimum order quantity.

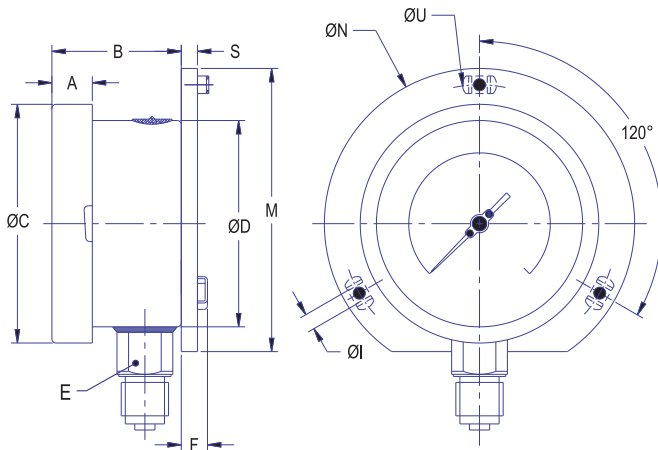
Note: Specifications and dimensions given in this product catalogue represents the state of engineering at the time of designing. Prior notification of changes in specifications is impracticable due to continuous improvement.

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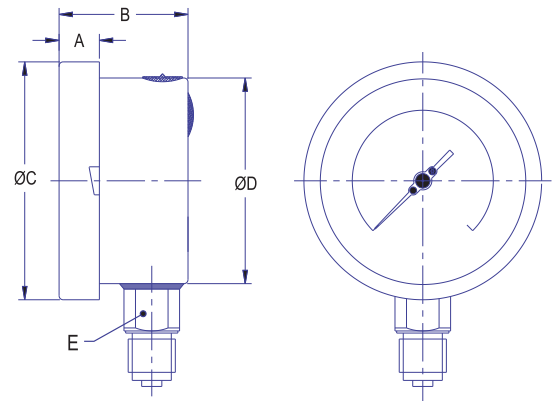
Dimensions - standard version

TYPE 1



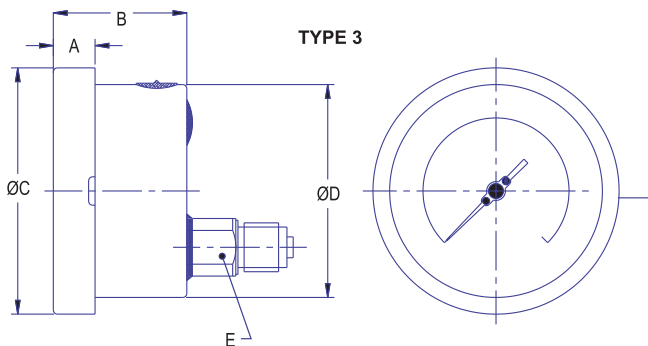
NS	A	B	ØC	ØD	E	M	S	F	ØI	ØN	ØU	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	45	111	100	22	128	6	14.5	6	134	118	720.0	1025.0
125	15	46	129	119	22	143	4	14.5	6	150	137	845.0	1165.0
150	15	46.5	161	149	22	174.5	6	14.5	6	186	168	1160.0	1895.0
200	18	49	216.5	201.5	22	229	1.5	14.5	7	245	230	2020.0	2780.0
250	18	52	263	250	22	286.5	1.5	14.5	7	290	276	2400.0	3220.0

TYPE 2



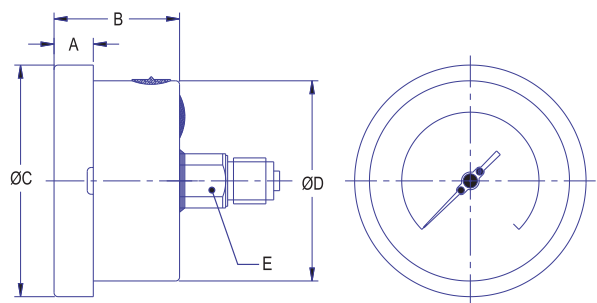
NS	A	B	ØC	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	47	111	100	22	640.0	935.0
125	15	48	129	119	22	750.0	1070.0
150	15	49	161	149	22	1020.0	1755.0
200	18	49	210.5	201.5	22	1720.0	2480.0
250	18	52	263	250	22	2000.0	2820.0

TYPE 3



NS	A	B	ØC	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	216.5	201.5	22	1500.0	2260.0
250	18	52	263	250	22	1800.0	2620.0

TYPE 4



NS	A	B	ØC	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	47	111	100	22	640.0	935.0

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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.

Pressure

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/cm	psi	kg/cm	psi	kg/cm
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
0/220	0/16	0/2200	0/160	0/22000	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	inHg with psi	mmHg with kg/cm	inHg 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	- 760/21
- 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/cm or 3 - 15 psi	0.2 - 1 kg/cm or 3 - 15 psi
(0-100% linear scale)	(0.2 - 1 kg/cm)

Freon (with temperature scale)

Ammonia (with temperature scale)

Note : For temperature scales, please provide refrigerant name.

Range (psi)	(kg/cm ²)	(psi)
-30 inHg - 150	-1to12.5	-30 inHg - 150
-30 inHg - 300	-1to16	-30 inHg - 300
	-1to25	0 - 300

Accessories (refer datasheet for complete specifications)

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

Optional Extras

Monel bourdon & socket (Monel version)**
 Dampening liquid glycerine filled
 Dampening liquid silicon oil filled*
 Shatterproof/safety glass
 Knife edge pointer
 Maximum reading pointer with plexi glass
 (Available in 100mm & 150mm Dial Size)
 Epoxy painted case & bezel

Material test certificates***
 ON - OFF type vent plug
 IBR approval #
 Anti parallax mirror band dial ##
 External zero adjustment
 SS tag plate
 Internal over pressure stop
 Helium leak test

Internal vacuum stop
 Calibration certificate traceable to
 National/International standards
 Oxygen service (for dry version)
 Custom designed dial
 Integral dampening screw (AISI 316 SS)
 Solid front version with Baffle Wall/Plate

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