



All SS (SS 304) Pressure Gauge Bourdon type



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)
- CE marking (as per PED 97/23/EC) (for NS 100 mm & 150 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

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

Zero Adjustment

Case & Bezel AISI 304 SS (Bayonet Type)

Bourdon AISI 316L SS

AISI 304 SS (Directly Welded to Case) Socket

Movement AISI 304 SS

Joints Tig Argon Arc Welding

Protection

Dial Aluminium, black graduation on white background

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

Window **Toughened Glass**

Blow off Disc Neoprene Gasket & Filling Plug Neoprene

Dry But Fillable Version (Option DFG)

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 Standard Version

Glycerine Filled Version (Option LGF)

Accuracy ±1.0% of F.S. Ambient Temperature : Maximum 65°C Process Temperature : Maximum 100°C Window Toughened Glass

Dampening Liquids Glycerine 99.7% (others available as option) 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.

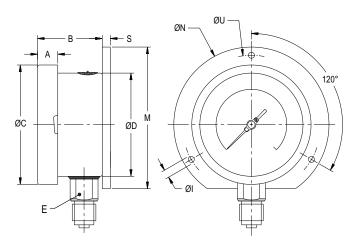


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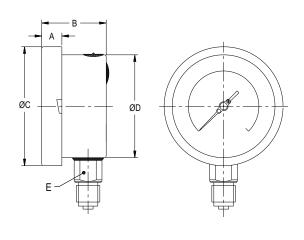
Dimensions - Standard Version

TYPE 1

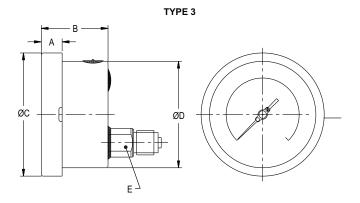


NS	Α	В	øс	ØD	E	M	s	ØΙ	ØN	øυ	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	45	111	100	22	128	5	6	134	118	720.0	1025.0
125	15	46	129	119	22	143	5	6	150	137	845.0	1165.0
150	15	47	161	149	22	174.5	5	6	186	168	1160.0	1895.0
200	18	49	216	200	22	229	1.5	7	245	230	2020.0	2780.0
250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

TYPE 2

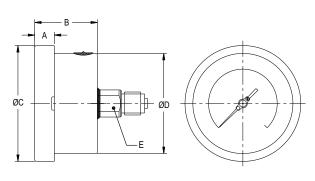


NS	A	В	øс	ØD	Е	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	48	111	100	22	640.0	935.0
125	15	48	129	119	22	750.0	1070.0
150	15	49	161	149	22	1020.0	1755.0
200	18	49	216	200	22	1720.0	2480.0
250	18	55	263	248	22	2000.0	2820.0



NS	Α	В	øс	ØD	Е	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	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

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



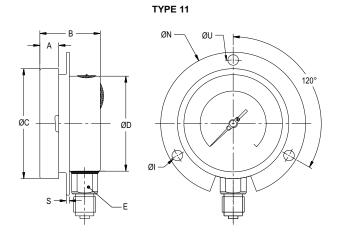
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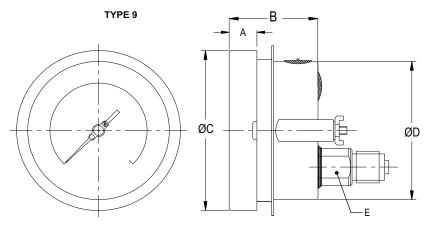
Dimensions - standard version

TYPE 5

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	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



NS	A	В	øс	ØD	E	J	K	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.



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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 o	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)						

Duai Scale (psi with kg	/CIII-)				
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/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

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/cm²)

Freon (with temperature scale)

Ammonia (with temperature scale)

Note: For temperature scales, please provide refrigerant name.

Range (psi)		(kg/cm	m²) (psi)	
-30 inHg - 150	0-300	-1to12.	2.5 -30 inHg - 150	
-30 inHg - 300	0-500	-1to16	6 -30 inHg - 300	
		-1to25	5 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



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Bourdon type

	o Order							Exam		
Basic N Code	Model							W		
Nomina	al Size		40	45	60	80	100			
			100 mm	125 mm	150 mm	200 mm	250 mm	- X		
Гуре of	f Mounting							XX		
1	Wall / surface / projection mounting	ng with bottom entry								
2	Direct bottom entry									
3	Direct lower back entry									
4	Direct center back entry (for NS 100 mm only)							Х		
5								OF		
6	3							XX		
7	Direct bottom entry with mounting	•								
9	Lower back entry with mounting									
11	Bottom entry with front flange (fo		m & 150 mm)							
12	Center back entry with front flang	e	,							
15	Lower back entry With front flang									
1400 -	A handlet and the alaman will be a to	ol (mainta d) A als facta		:f						
	of bracket and 'U' clamp will be stee	Nominal Size >	40	45	60	80	100			
		Hommar Oize	-							
2BM	1/4" BSP (M)		<i>V</i>	<i>V</i>	<i>V</i>	×	X			
2NM 2TM	1/4" NPT (M) 1/4" BSPT (M)			~	V	×	×			
3BM	3/8" BSP (M)		/ *	~	/	V	$\hat{\mathbf{z}}$			
3TM	3/8" BSPT (M)		~	✓	~	~	V	XX		
4BM	½" BSP (M) Standard		<i>V</i>	V	V	V	V	700		
4NM	½" NPT (M) Standard		<i>V</i>	V	~	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<i>V</i>			
4TM	½" BSPT (M)		/	V	·	~	~			
4MM	M20x 1.5 (M)		~	✓	~	~	~			
Stand	lard for NS 100 mm.									
Note : (Connections like Metric / UNF et	c. can be provided o	n request.							
Range								0/1		
7-4	ange table							kg/c		
Reier ra										
	al Extras									
Option	al Extras Accuracy ± 0.5% of F. S. (for dry version)	MTC Material test cer	tificates***	IVS I	nternal vacuum sto	рр				
Option AC5 LGF	Accuracy ± 0.5% of F. S. (for dry version) Dampening liquid glycerine filled	MTC Material test cer VPO ON - OFF type v		REC F	Receiver range					
Option AC5 LGF LSI	Accuracy ± 0.5% of F. S. (for dry version) Dampening liquid glycerine filled Dampening liquid silicon oil filled*			REC F	Receiver range Freon range (with te	mperature scale)				
Option AC5 LGF LSI PLG	Accuracy ± 0.5% of F. S. (for dry version) Dampening liquid glycerine filled Dampening liquid silicon oil filled* Plexi glass	VPO ON - OFF type v IBR IBR approval # EZA External zero ac	vent plug	REC F	Receiver range Freon range (with te		;)	XX		
Option: AC5 LGF LSI PLG STG	Accuracy ± 0.5% of F. S. (for dry version) Dampening liquid glycerine filled Dampening liquid silicon oil filled* Plexi glass Shatterproof/safety glass	VPO ON - OFF type v IBR IBR approval # EZA External zero ac STP SS tag plate	vent plug djustment	REC F FRE F AMO A DFG	Receiver range Freon range (with te Ammonia range (wit Ory But Fillable Vers	mperature scale) h temperature scale ion (Glycerin)	÷)	XX		
Option: AC5 LGF LSI PLG STG MDJ	Accuracy ± 0.5% of F. S. (for dry version) Dampening liquid glycerine filled Dampening liquid silicon oil filled* Plexi glass Shatterproof/safety glass Movement with dampening jelly	VPO ON - OFF type v IBR IBR approval # EZA External zero ac STP SS tag plate TND Tag No. marking	vent plug djustment g on Dial	REC F FRE F AMO A DFG D	Receiver range Freon range (with te Ammonia range (wit Ory But Fillable Vers Ory But Fillable Vers	mperature scale) h temperature scale iion(Glycerin) iion(Silicon)	;)	XX		
AC5 LGF LSI PLG STG	Accuracy ± 0.5% of F. S. (for dry version) Dampening liquid glycerine filled Dampening liquid silicon oil filled* Plexi glass Shatterproof/safety glass	VPO ON - OFF type v IBR IBR approval # EZA External zero ac STP SS tag plate TND Tag No. marking HLT Helium leak test	vent plug djustment g on Dial	REC F FRE F AMO A DFG C DFS C	Receiver range Freon range (with te Ammonia range (wit Ory But Fillable Vers	mperature scale) h temperature scale ion (Glycerin) ion (Silicon)	e)	XX		

^{***}Material test certificates will be provided for wetted parts only with chemical composition testing. For others, please consult factory.

Ordering Example: WP4 - XX or XXX - X or XX - XXX - 0/10 kg/cm2 - XXX

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

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.

[#] For NS 150 mm & above. Scale shall be marked in kg/cm² or bar single Scale Only Consult factory for any Other scale requirement.

[♦] For NS 100 mm to 150 mm.