



ESG

Economical SS (SS 304) Pressure Gauge Bourdon type (Glycerin Filled)

Special Features

- Stainless steel case & measuring system
- Socket directly welded to case
- Liquid filled version
- Standard followed EN 837-1

Application

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



Back Connection With 3 Hole Panel

Back Connection With 'C' Bracket

Specifications

Standard Version: 100 mm & 150 mm

Accuracy : ±1.6% of F. S.

Ambient temperature : -25°C to +65°C

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 < 700 bar : 110% of Max. Scale Value

Case & Bezel : AISI 304 SS (Crimp Type Bezel)

Bourdon : AISI 316 SS

Socket : AISI 304 SS (Directly Welded to Case)

Movement : Brass Plated (Optional SS 304)

Joints : Tig Argon Arc Welding

Protection : IP 68

Dial : Aluminium, black graduation on white background

Pointer : Aluminium, black coloured
Window : Crystal Clear Acrylic / Plexi Glass

Blow off Disc : Neoprene
Gasket & Filling Plug : Neoprene

Dampening Liquids : Glycerine 99.7%

Ambient Temperature : Maximum 65°C

Process Temperature : Maximum 65°C

Temperature effect:

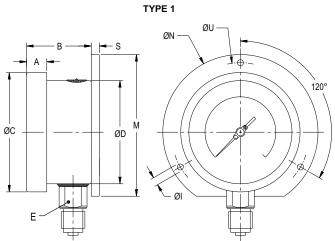
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement: Formula: $\pm 0.04 \times (t2 - t1) \%$ of F. S. where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C.



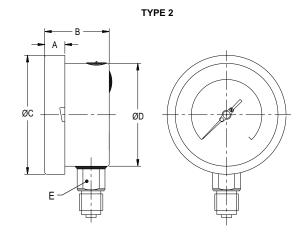
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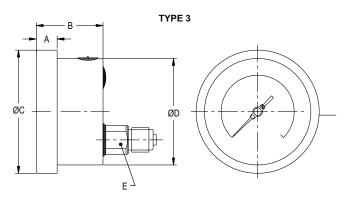
Dimensions - Standard Version



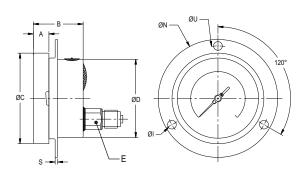
	ı							ı				
NS	A	В	øс	ØD	Е	М	s	ØI	ØN	øυ	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	6.5	35	111	100	17	128	5	6	134	118	450.0	650.00
150	15	40	161	149	17	174.5	5	6	186	168	850.0	1250.00



NS	A	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	6.5	35	111	100	17	430.00	630.00
150	15	40	161	149	17	800.00	1400.00

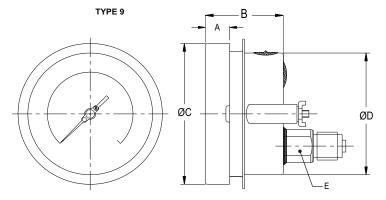


NS	A	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	47	111	100	17	430.00	630.00
150	15	49	161	149	17	800.00	1200.00

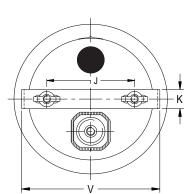


TYPE 5

NS	A	В	øс	ØD	Е	s	ØΙ	ØN	øυ		Weight in gram (With Glycerin & Box)
100	12.5	48	111	100	17	1	6	134	118	450.00	650.00
150	15	49	161	149	17	1	6	186	168	850.00	1250.00



NS	A	В	øс	ØD	E	J	к	v	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	48	111	100	17	62	16	108	450.00	650.00
150	15	49	161	149	17	100	16	166	850.00	1250.00





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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	or bar)			
0/0.6	0/4	0/25	0/160	
0/1	0/6	0/40	0/250	
0/1.6	0/10	0/60	0/400	
0/2.5	0/16	0/100	0/600	
Dual Scale (psi with kg	(cm²)			

Dual	Scale	(psi	with	kg/cm²)
		nsi		

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		
0/230	0/16	0/2300	0/160		
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/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



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HOW I	o Order						Exam			
Basic I	Model						ES			
Code	wouer									
Nominal Size						60	-			
					100 mm	150 mm	X			
Туре о	f Mounting						-			
1 Wall / surface / projection mounting with bottom entry										
2	2 Direct bottom entry									
3 Direct lower back entry										
 Lower back entry with front flange Lower back entry with mounting bracket 										
	Lower back only with mounting	y bracket					-			
MOC o	of bracket and 'U' clamp will be st	eel (painted)	. Ask factory for drawings, if require	ed.						
Gauge	Connection		No	minal Size >	40	60				
2BM	1/4" BSP (M)				~	V				
2NM	1/4" NPT (M)				~	~				
2TM	1/4" BSPT (M)				~	~				
3ВМ	3/8" BSP (M) Standard				~	~	XX			
3ТМ	3/8" BSPT (M)				~	~				
Note :	Connections Above 3/8" Should	d Be Provid	ed Through Adaptor if Required \	With Extra Co	ost		-			
Range							0/1			
	ange table (Standard Ranges SI	nould be in D	ual Scale Kg/cm² & PSI)				kg/c			
	al Extras		,				-			
oxs	Oxygen service (for dry version)	FRE	Freon range (with temperature scale)							
CDD	Custom designed dial	AMO	Ammonia range (with temperature scale)				XX			
TRC	Calibration certificate traceable to	DFG	Dry But Fillable Version (Glycerin)							
	National/International standards	DFS	Dry But Fillable Version (Silicon)							

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.