

# ESG

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



Back Connection With 3 Hole Panel Back Connection With 'C' Bracket

#### **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

#### Specifications

#### Standard Version : 100 mm & 150 mm

Process Temperature	:	Maximum 100°C
Dampening Liquids Ambient Temperature	:	Glycerine 99.7% Maximum 65°C
Gasket & Filling Plug	:	Neoprene
Window	:	Crystal Clear Acrylic / Plexi Glass for NS 100 & Sheet Glass For NS 150
Pointer	:	Aluminium, black coloured
Dial	:	Aluminium, black graduation on white background
Protection	:	IP 68
Joints	:	Tig Argon Arc Welding
Movement	:	Brass Plated ( Optional SS 304)
Socket	:	AISI 304 SS (Directly Welded to Case)
Bourdon	:	AISI 316 SS
Case & Bezel	:	AISI 304 SS ( Crimp Type Bezel for NS 100 & Bayonet Bezel for NS 150 )
	:	> 600 to < 700 bar : 110% of Max. Scale Value
	:	> 100 to < 600 bar :115% of Max. Scale Value
Over pressure limit	:	< 100 bar : 125% of Max. Scale Value
Operating pressure range	:	75% of Scale Value
Process temperature	:	Max 300°C
Ambient temperature	:	- 25°C to + 65°C
Accuracy	:	±1.6% of F. S.

#### Temperature effect:

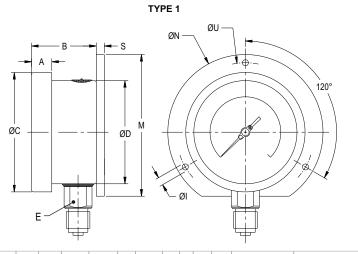
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :- Formula :  $\pm$  0.04 x (t2 - t1) % of F. S. where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C.



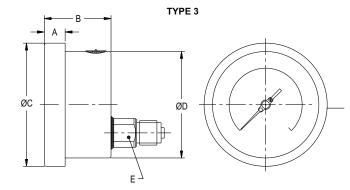
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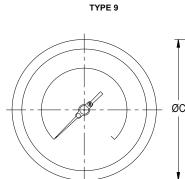
### **Dimensions - Standard Version**

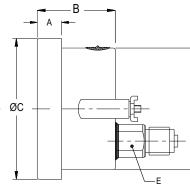


NS	A	в	øc	ØD	Е	м	s	øı	ØN	ØU		Weight in gram (With Glycerin & Box)
100	6.5	35	111	100	17	128	5	6	134	118	450.0	650.00
150	15	40	161	149	17	174.5	5	6	186	168	850.0	1250.00

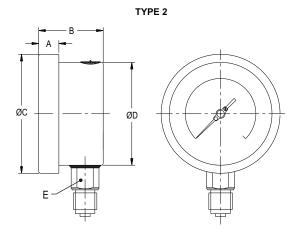


NS	A	в	øc	ØD	Е	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	35	111	100	17	430.00	630.00
150	15	40	161	149	17	800.00	1200.00



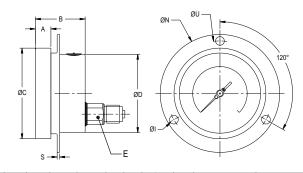


NS	A	в	øc	ØD	Е	J	к	v	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	35	111	100	17	62	16	108	450.00	650.00
150	15	40	161	149	17	100	16	166	850.00	1250.00

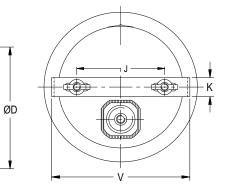


NS	A	в	øc	ØD	Е	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	6.5	35	111	100	17	430.00	630.00
150	15	40	161	149	17	800.00	1400.00

TYPE 5



NS	Α	в	øc	ØD	Е	s	ØI	ØN	øυ		Weight in gram (With Glycerin & Box)
100	12.5	35	111	100	17	1	6	134	118	450.00	650.00
150	15	40	161	149	17	1	6	186	168	850.00	1250.00





#### Range Table

Note : We offer National / International Scales like kPa, MPa, bar, psi, kg/cm<sup>2</sup> & 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/cm<sup>2</sup>& psi scales.

Pressure					
Single Scale (kg/cm <sup>2</sup>	² or bar)				
0/1	0/6	0/25	0/160		
0/1.6	0/7	0/40	0/250		
0/2.5	0/10	0/60	0/400		
0/4	0/16	0/100	0/600		
ual Scale (psi with k	g/cm²)				
psi	kg/cm²	psi	kg/cm²	psi	kg/cm <sup>2</sup>
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		
acuum & Compound	1				
ual Scale (inHg with	n psi & mmHg with kg/ci	m²)			
inHg with psi	mmHg with kg/cm <sup>2</sup>	inHg with psi	mmHg with kg/cm <sup>2</sup>	inHg with psi	mmHg with kg/cm <sup>2</sup>
- 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
ngle Scale (kg/cm <sup>2</sup> )	)				
- 1/0	-	1/1.5	- 1/5		- 1/15
- 1/0.6	-	1/3	- 1/9		- 1/24
reon (with temperate			Ammonia (with temper	rature scale)	
•	scales, please provide re	frigerant 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
	tasheet for complete sp				
T Cooling tower		GS Over load protecto	or (gauge saver)**	SN Snub	
C Gauge cock	¢	Needle valve		SP Sipho	n

GC Gauge cock \* Needle valve

\*\* For Pressure Ranges Only. \* Refer catalogue for Valves & Manifolds.

Note : For Any Non Standard or Special Scale Marking Consult Factory





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How	To Order				
Bacic	Model				
Code	Model				
	nal Size			40	60
				100 mm	150 mm
Туре	of Mounting				
1	Wall / surface / projection moun	ting with bot	tom entry		
2	Direct bottom entry				
3	Direct lower back entry				
5	Lower back entry with front flan				
9	Lower back entry with mounting		ing hundlet Dath		
15	Lower back entry with Front Fla (Type 5 + Type 9 Both Combine		IIIY DIACKEL DUII		
7	Direct bottom entry with mounti				
	•	eel (painted)	. Ask factory for drawings, if required.	-> 40	<u> </u>
Gaug	e Connection		Nominal Siz	e > 40	60
2BM	1/4" BSP (M)			~	~
2NM	1/4" NPT (M)			~	~
2TM	1⁄4" BSPT (M)			~	~
3BM	3/8" BSP (M) Standard			~	~
3NM	3/8" NPT (M)			~	~
3ТМ				<ul> <li>✓</li> </ul>	~
Note		d Be Provid	ed Through Adaptor if Required With Ex	ra Cost	
Range	9				
Refer	range table (Standard Ranges S	nould be in E	oual Scale Kg/cm² & PSI)		
Optio	nal Extras				
oxs	Oxygen service (for dry version)	FRE	Freon range (with temperature scale)		
072	Custom designed dial	AMO	Ammonia range (with temperature scale)		
CDD		DFG	Dry But Fillable Version (Glycerin)		
	Calibration certificate traceable to				
CDD	Calibration certificate traceable to National/International standards	DFS	Dry But Fillable Version (Silicon)		
CDD		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.