

ESW

Economical SS (SS 304) Pressure Gauge Bourdon type (Dry Version)



Bottom Connection

Special Features

- Stainless steel case & measuring system
- Socket directly welded to case
- Dry version Weather Proof
- 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 m	ım
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 < 1600 bar : 110% of Max. Scale Value
Case & Bezel	:	AISI 304 SS (Snap Action Bayonet Bezel)
Bourdon	:	AISI 316L 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	:	Sheet Glass
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

Temperature effect:

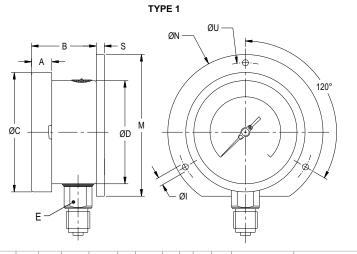
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :- Formula : ± 0.04 x (t2 - t1) % of F. S. where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C.



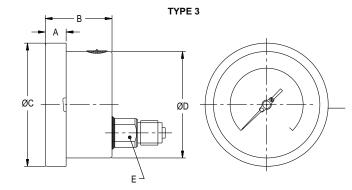
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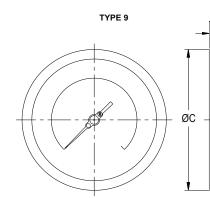
Dimensions - Standard Version

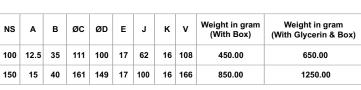


NS	Α	в	øc	ØD	Е	м	s	ØI	ØN	ØU		Weight in gram (With Glycerin & Box)
100	6.5	38	111	100	17	128	5	6	134	118	450.0	650.00
150	15	43	161	149	17	174.5	5	6	186	168	850.0	1250.00



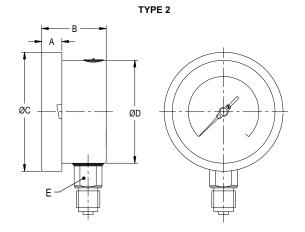
NS	A	в	øc	ØD	Е	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	35	111	100	17	430.00	630.00
150	15	40	161	149	17	800.00	1200.00





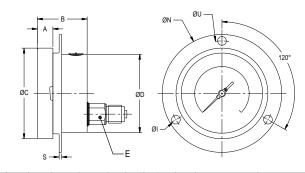
В

А

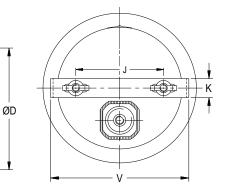


NS	Α	в	øc	ØD	Е	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	6.5	35	111	100	17	430.00	630.00
150	15	40	161	149	17	800.00	1400.00

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



-E



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)

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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	

Dual Scale (psi with kg/cm²)

psi	kg/cm²	psi	kg/cm²	psi	kg/cm ²
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/cm ²	2)			
inHg with psi	mmHg with kg/cm ²	inHg with psi	mmHg with kg/cm ²	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

Freon (with temperature scale)

Ammonia (with temperature scale)

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

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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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How 1	Γο Order						Exa
Decia	Model						
Code	Model						-
Nomin	al Size				40	60	-
					100 mm	150 mm	-
Туре о	of Mounting						
1	Wall / surface / projection mounting with bottom entry						
2	Direct bottom entry						
3	Direct lower back entry						
5	Lower back entry with front flange						
9	Lower back entry with mounting bracket Lower back entry with Front Flange & mounting bracket Both						
15	(Type 5 + Type 9 Both Combine)	e & moi	unting bracket Both				
7	Direct bottom entry with mounting bracket						
	of bracket and 'U' clamp will be steel	l (painte	d). Ask factory for drawings, if				_
Gauge	Connection			Nominal Size >	40	60	_
2BM	¼" BSP (M)				~	~	
2NM	¼" NPT (M)				~	~	
2TM	1⁄4" BSPT (M)				~	~	
3BM	3/8" BSP (M) Standard				~	~	
3NM	3/8" NPT (M)				~	~	
3TM	3/8" BSPT (M)				 	~	
Range	Connections Above 3/8" Should E			quired With Extra C	ost		_ _ _ ł
	nal Extras						-
-							
MRP	Maximum reading pointer with plexi glass	МТС	Material test certificates***		with temperature sca		
OXS	Oxygen service (for dry version)					scale)	
CDD	Custom designed dial						
LGF	Demping Liquid Glycerin Filled			Die Dry Dat i Mable			
							-
Orde	ring Example: ESW - XX - X	or XX	- XXX - 0/10 kg/cm ² - XX	XX			

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.