

ALL SS ELECTRIC CONTACT PRESSURE GAUGE

HIGH VERSION TYPE



IPS-PS-24

SPECIAL FEATURES

- CE Approved electrical contacts
- Stainless steel case & measuring system
- Filled version available
- Standard followed in general EN 837-1

APPLICATIONS

- To control the electrical operation of compressors
- Pumps
- Motors
- Presses
- Hydraulic
- Pneumatic equipments
- Chemicals
- Petrochemical plants



SPECIFICATION

Standard Version : 100 mm & 150 mm

Accuracy	:	±1.0% of F.S.
Ambient temperature	:	- 20°C to + 65°C
Process temperature	:	Max. 100°C
Electric wiring	:	DIN Connector or 1 Meter Cable With Cable Gland
Contact setting	:	Over on arc of 270° through a knob placed on front of lens
Operating pressure range	:	75% of Scale Value
Over pressure limit	:	Not Suitable

Case & Bezel	:	AISI 304 SS (Bayonet Type)
Bourdon	:	AISI 316L SS
Socket	:	AISI 316L SS (Directly welded to case)
Movement	:	AISI 304 SS
Joints	:	Tig Argon Arc Welding

Protection	:	IP 68
Dial	:	Aluminum, black graduation on white background
Pointer	:	Aluminum, black coloured micrometer zero adjustable
Window	:	Plexi Glass
Electrical Contacts*	:	Refer How to Order
Blow off Disc	:	Neoprene
Gasket & Filling Plug	:	Neoprene

* Please specify contact set points while ordering.

Filled version - dielectric oil (option - DOF)

Accuracy	:	±1.6% of F. S.
Ambient Temperature	:	Maximum 65°C
Process Temperature	:	+15°C / 65°C
Window	:	Plexi Glass
Blow off Disc*	:	NBR
Gasket & Filling Plug*	:	NBR
Dampening Liquids	:	Dielectric Oil
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 : $\pm 0.04 \times (t_2 - t_1) \%$ of F. S. where t_1 = reference temperature (+20°C) and t_2 = ambient temperature in °C.
Note : The addition of mechanical electric contacts affects the accuracy of instruments such that 1% becomes 1.5%, 1.6% becomes 2.4% etc.
(Add the 50% of accuracy; If the contact is of the magnetically assisted type, this value can't be added within the ±5% of setting point.)



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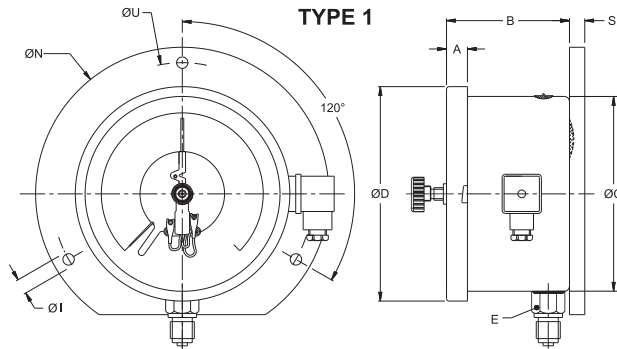
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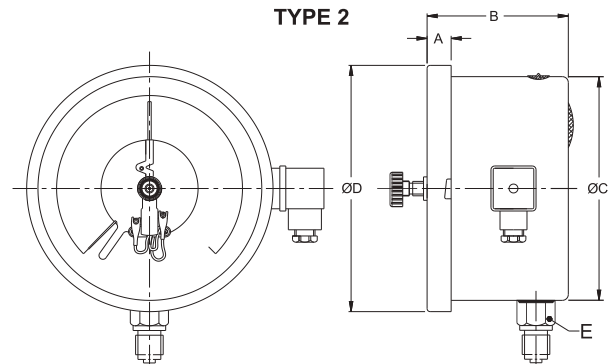


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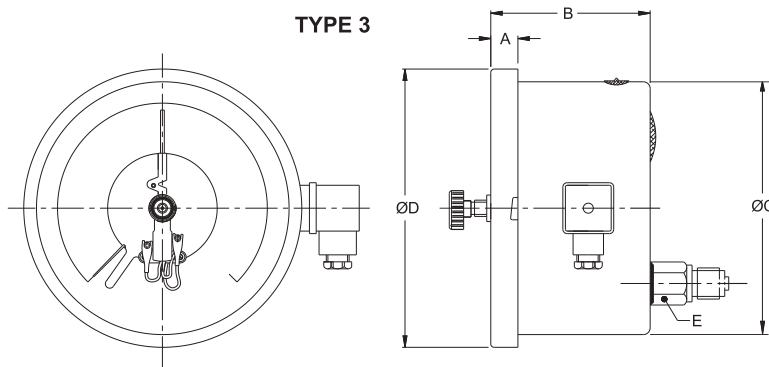
Dimension Standard Version



NS	A	B	ØC	ØD	E	ØI	ØN	ØU	S	Weight in gram (With Box)
100	12.5	90	100	111	A/F 22	6	134	118	6	920.0
150	15.5	96	149	161	A/F 22	6	186	168	6	1600.0



NS	A	B	ØC	ØD	E	Weight in gram (With Box)
100	12.5	90	100	111	A/F 22	840.0
150	15.5	91	149	161	A/F 22	1450



NS	A	B	ØC	ØD	E	Weight in gram (With Box)
100	12.5	90	100	111	A/F 22	820.0
150	15.5	91	149	161	A/F 22	1450.0

Notes : • Drawings are not to scale.
• All Dimensions are in mm.
• NS = Nominal Size.

Range Table

Note : We offer Pressure, Vacuum and Compound ranges in Scales like kPa, MPa, bar, psi, kg/cm² & Dual Scale like kPa with psi, kPa with bar, bar with psi or scales as per the requirement can be provided on request. Following are the example tables for kg/cm² & psi scales

Pressure & Compound

Pressure - single scale (kg/cm ² or bar)				Compound - single scale (kg/cm ² or bar)
0/1.6	0/10	0/60	0/400	
0/2.5	0/16	0/100	0/600	-1/5
0/4	0/25	0/160	0/1000	-1/9
0/6	0/40	0/250	0/1600	-1/15

Dual scale (psi with kg/cm²)

psi	kg/cm ²	psi	kg/cm ²	psi	kg/cm ²	psi	kg/cm ²
0/25	0/1.6	0/230	0/16	0/1500	0/100	0/10000	0/700
0/35	0/2.5	0/300	0/20	0/2300	0/160	0/15000	0/1000
0/60	0/4	0/400	0/28	0/3000	0/200	0/23000	0/1600
0/100	0/7	0/600	0/40	0/4000	0/280		
0/150	0/10	0/1000	0/70	0/6000	0/400		

Accessories (Refer Datasheet for complete specifications)

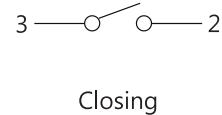
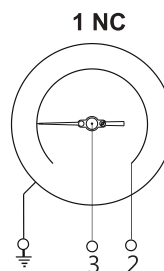
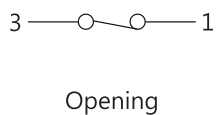
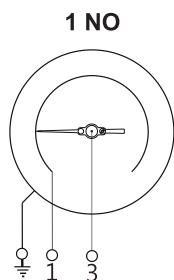
CT Cooling tower	GS Over load protector (gauge saver)**	SN Snubber
GC Gauge cock	* Needle valve	SP Siphon

* Refer catalogue for Valves & Manifolds

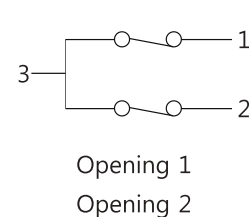
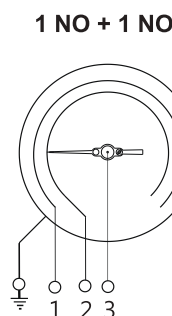
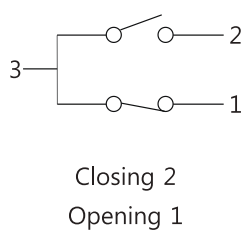
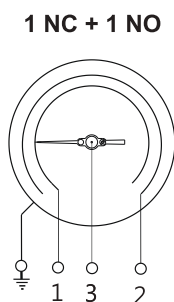
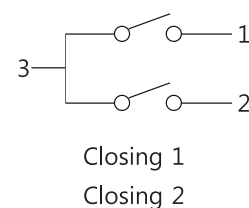
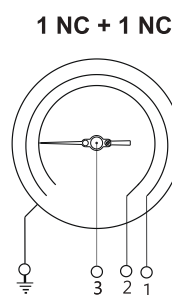
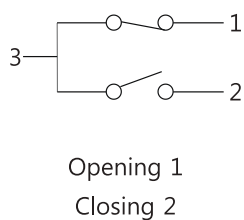
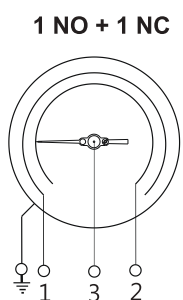
** For Pressure Ranges.

Electrical Contact Wiring Information

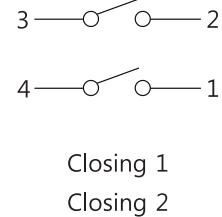
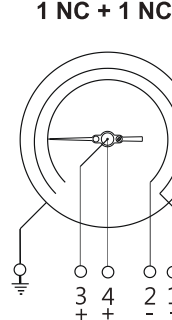
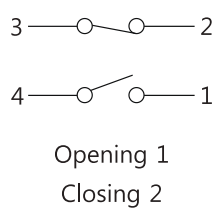
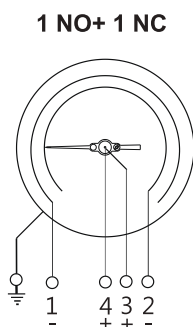
Single Contact



Double contact



Independent / Inductive double contact



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HOW TO ORDER

Basic Model

Code

Nominal Size	F	H	
	100 mm	150 mm	

Type of Mounting

1	Wall, surface, projection mounting with bottom entry	5	Flush panel back entry with front flange
2	Direct bottom entry	9	Back entry with mounting bracket
3	Direct lower back entry		

Gauge Connection

2BM	1/4" BSP (M)	2NM	1/4" NPT (M)	4TM	1/2" BSPT (M)
3BM	3/8" BSP (M) Standard	3NM	3/8" NPT (M)	4MM	M20 x 1.5 (M)
4BM	1/2" BSP (M)	4NM	1/2" NPT (M)		

Range

Refer range table

Electric Contacts (C€ Approved)

(For dry version, with ingress protection up to IP 55 & poly carbonate dome as a window)

A) Single insulated magnetic snap action type
(230 V AC, 1 Amp.)(48 V DC, 0.5 Amp.)
(Available for 1 kg/cm² & above)

B) Inductive type (220 V AC, 0.4 Amp.)
(Available for 1000 mm WC & above)

M1	Single; normally closed (1 NC)	D1	Single; normally open (1 NO)
M2	Double; normally closed + normally open (1 NC + 1 NO)	D2	Single; normally closed (1 NC)
M3	Single; normally open (1 NO)	D3	Double; normally closed + normally open (1 NC + 1 NO)
M4	Double; normally open + normally closed (1 NO + 1 NC)	D4	Double; normally open (both NO)
M5	Double; normally closed (both NC)	D5	Double; normally closed (both NC)
M6	Double; normally open (both NO)	D6	Double; normally open + normally closed (1 NO + 1 NC)

Options

CBS	AISI 316 SS case & bezel	CNS	Conformity as per NACE Standard
MBS	Monel bourdon & socket (Monel version)**	TFC	Calibration certificate traceable to National/International standards
CBS	Case & Bezel SS316	MTC	Material test certificates#
CDD	Custom designed dial	DOF	Dielectric oil filled
TND	Dial tag marking		
STP	SS tag plate		

* Consult factory for minimum order quantity & delivery.

**Integral dampening screw will be in monel if ordered. Refer option FL. ## Consult factory for dial design approval.

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

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

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.



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