

Electric Contact Dome Type Pressure Gauge

Special Features

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

Application

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



Specifications

Standard Version : 63mm 100 mm & 150 mm

Accuracy	: ±1.0% of F.S. / Switching Accuracy 2% of F.S.
Ambient temperature	: - 20°C to + 65°C
Process temperature	: Max. 100°C
Electric wiring	: DIN Connector
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 316 SS
Socket	: AISI 316 SS (Directly welded to case)
Movement	: AISI 304 SS
Joints	: Tig Argon Arc Welding

Protection	: IP 55
Dial	: Aluminum, black graduation on white background
Pointer	: Aluminum, black coloured micrometer zero adjustable
Window	: Polycarbonate Dome
Electrical Contacts*	: Refer How to Order
Blow off Disc	: Neoprene
Gasket & Filling Plug	: Neoprene

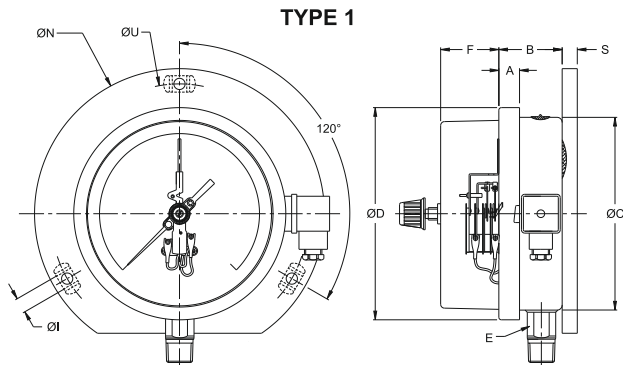
* Please specify contact set points while ordering.

Temperature effect:

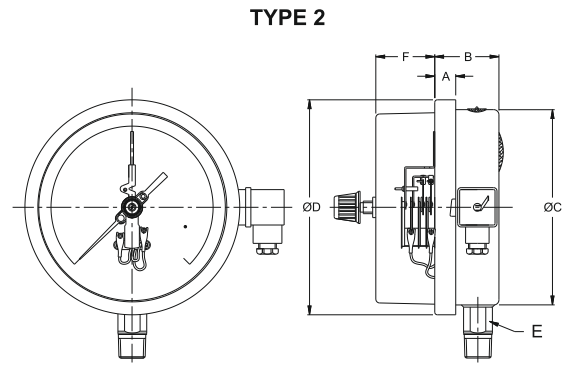
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :- Formula : $\pm 0.04 \times (t_2 - t_1) \% \text{ of F. S.}$ where t_1 = reference temperature (+20°C) and t_2 = ambient temperature in °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 $\pm 5\%$ of setting point.)

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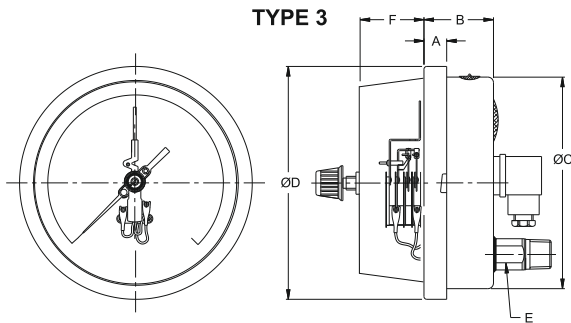
Dimensions - standard version



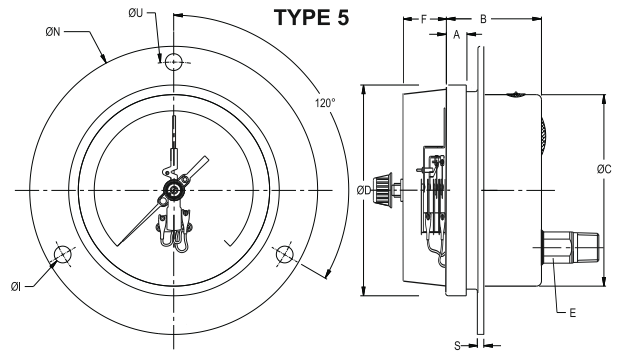
NS	A	B	$\varnothing C$	$\varnothing D$	E	F	$\varnothing I$	$\varnothing N$	$\varnothing U$	L	S	Weight in gram (With Box)
63	12.5	45	100	111	22	44	6	134	118	14.5	6	890.0
100	15	46.5	149	161	22	44	6	186	168	14.5	6	1370.0



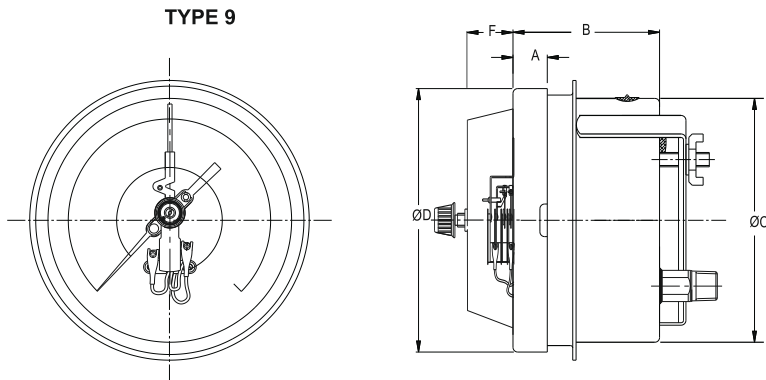
NS	A	B	$\varnothing C$	$\varnothing D$	E	F	Weight in gram (With Box)
63	12	31	63	70	14	29	350.0
100	12.5	47	100	111	22	44	800.0
150	15	49	149	161	22	44	1200.0



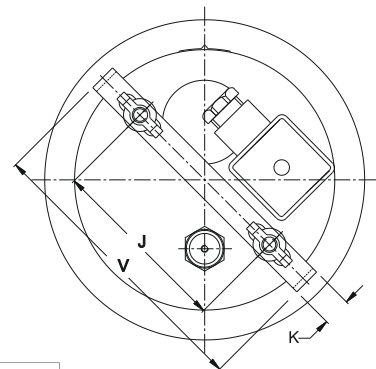
NS	A	B	$\varnothing C$	$\varnothing D$	E	F	Weight in gram (With Box)
100	12.5	47	100	111	22	44	790.0
150	15	49	149	161	22	44	1140.0



NS	A	B	$\varnothing C$	$\varnothing D$	E	F	$\varnothing I$	$\varnothing N$	$\varnothing U$	Weight in gram (With Box)
100	12.5	47	100	111	A/F 22	44	6	134	118	860.0
150	15	49	149	161	A/F 22	44	6	186	168	1300.0



NS	A	B	$\varnothing C$	$\varnothing D$	E	F	J	K	V	Weight in gram (With Box)
100	12.5	47	100	111	A/F 22	44	72	16	108	870.0
150	15	49	149	161	A/F 22	44	106.5	16	166	1240.0

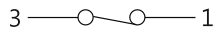
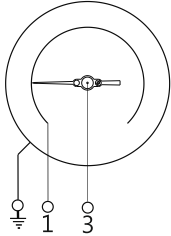


Electrical Contact Wiring Information

Wiring diagrams for electric contacts

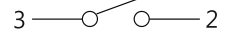
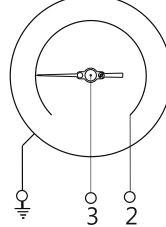
Single Contact

1 NO



Opening

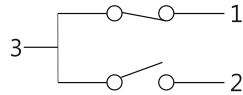
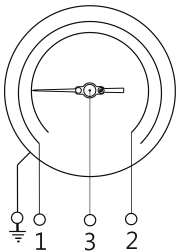
1 NC



Closing

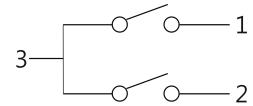
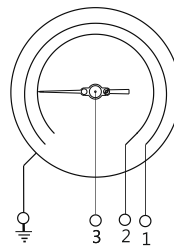
Double contact

1 NO + 1 NC



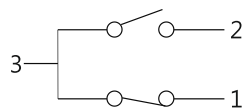
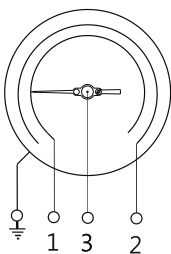
Opening 1
Closing 2

1 NC + 1 NC



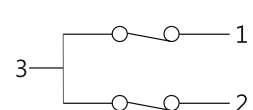
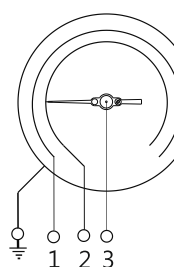
Closing 1
Closing 2

1 NC + 1 NO



Closing 2
Opening 1

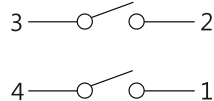
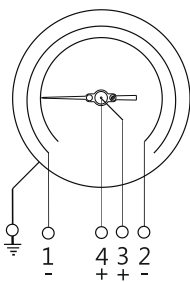
1 NO + 1 NO



Opening 1
Opening 2

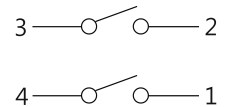
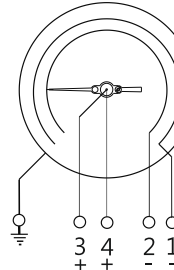
Independent double contact

1 NO+ 1 NO



Opening 1
Closing 2

1 NC + 1 NC



Closing 1
Closing 2



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a unique innovation, with trust and quality...

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	0/220	0/16	0/1500	0/100	0/10000	0/700
0/35	0/2.5	0/300	0/20	0/2200	0/160	0/15000	0/1000
0/60	0/4	0/400	0/28	0/3000	0/200	0/22000	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		



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How To Order						Example	
Basic Model						EC	
Code							
Nominal Size			25	40	60	XX	
			63 mm	100 mm	150 mm		
Type of Mounting							
1	Wall, surface, projection mounting with bottom entry		5	Flush panel back entry with front flange		X	
2	Direct bottom entry		9	Lower Back entry with mounting bracket			
3	Direct lower back entry		12	Center back entry with front flange *			
4	Direct center back entry *		13	Center back entry with mounting bracket *			
“ * “ Available in NS 63 Only.							
Gauge Connection							
2BM	1/4" BSP (M)		2NM	1/4" NPT (M)	4TM	1/2" BSPT (M)	XXX
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						0/10	
Refer range table						kg/cm ²	
Electric Contacts (C€ Approved)							
Single insulated magnetic snap action type							
(230 V AC, 1 Amp.) (48 V DC, 0.5 Amp.)							
(Available for 1 kg/cm² & above)							
M1	Single; normally closed (1 NC)					XX	
M2	Double; normally closed + normally open (1 NC + 1 NO)						
M3	Single; normally open (1 NO)						
M4	Double; normally open + normally closed (1 NO + 1 NC)						
M5	Double; normally closed (both NC)						
M6	Double; normally open (both NO)						
Options							
CBS	AISI 316 SS case & bezel		CNS	Conformity as per NACE Standard			
MBS	Monel bourdon & socket (Monel version)**		TRC	Calibration certificate traceable to			
CBS	Case & Bezel SS316			National/International standards		XXX	
CDD	Custom designed dial		MTC	Material test certificates#			
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.							
Ordering Example: EC - XX - X - XXX - 0/10 kg/cm² - XX - XXX							

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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