

ALL SS PRESSURE GAUGE

ELECTRIC CONTACT TYPE (HIGH CASE VERSION)



SPECIAL FEATURES

- C€& ATEX 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.

SPECIFICATIONS STANDARD VERSION : 100 mm



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Accuracy Ambient temperature	: ±1.0% of F. S. : - 20°C to + 65°C
Process temperature	: Max 100°C
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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 Bourdon Socket Movement Joints	 AISI 304 SS (Bayonet Type) AISI 316L SS AISI 316L SS (Directly welded to case) AISI 304 SS Tig Argon Arc Welding
Protection	÷ IP 65
Dial	Aluminum, black graduation on white background
Pointer	Aluminum, black coloured Fixed
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 - ZZ)

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 Eastures	: Refer Specification of Standard Version
Other Features	Refer Specification of Standard Version

*BOD, Gasket & Filling plug of NBR. Refer Price List for Viton.

Temperature effect:

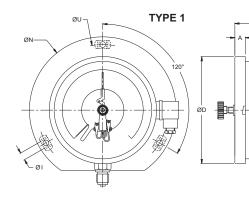
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :-Formula : \pm 0.04 x (t2 - t1) % of F. S. where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C.

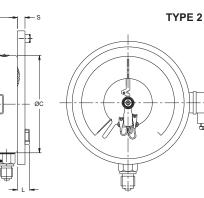
Note : The addition of mechanical electric contacts affects the accuracy of instruments such that 1% becomes 1.5%, 1.6% becomes 2.4% etc. (Add the 50% of accuracy; If the contact is of the magnetically assisted type, this value can't be added within the \pm 5% of setting point.)



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DIMENSIONS - STANDARD VERSION



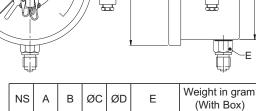


F

100 12.5 90 100 111

NS	А	В	ØC	ØD	E	ØI	ØN	ØU	L	S	Weight in gram (With Box)
100	12.5	90	100	111	A/F 22	6	134	118	15	6	920.0

TYPE 3



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840.0

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A/F 22

	Å								
			NS	А	В	øc	ØD	E	Weight in gram (With Box)
	_	øc	100	12.5	90	100	111	A/F 22	820.0
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Notes : • Drawings are not to scale. • All Dimensions are in mm. • NS = Nominal Size.

bc

ØD

RANGE TABLE

Note : Waaree offers 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

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PRESSURE & COMPOUND

PRESSUR	E - SINGLE	SCALE (k	g/cm² or bar)			COMPOUN	D - 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/cm ²)									
psi	kg/	cm ²	psi	kg/cm ²	psi	kg/cm ²	psi	kg/cm²	
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	150 0/10		0/1000	0/70	0/6000	0/400			

Note: Range above 1600 kg/cm², consult factory.

ACCESSORIES (Refer Datasheet for complete specifications)

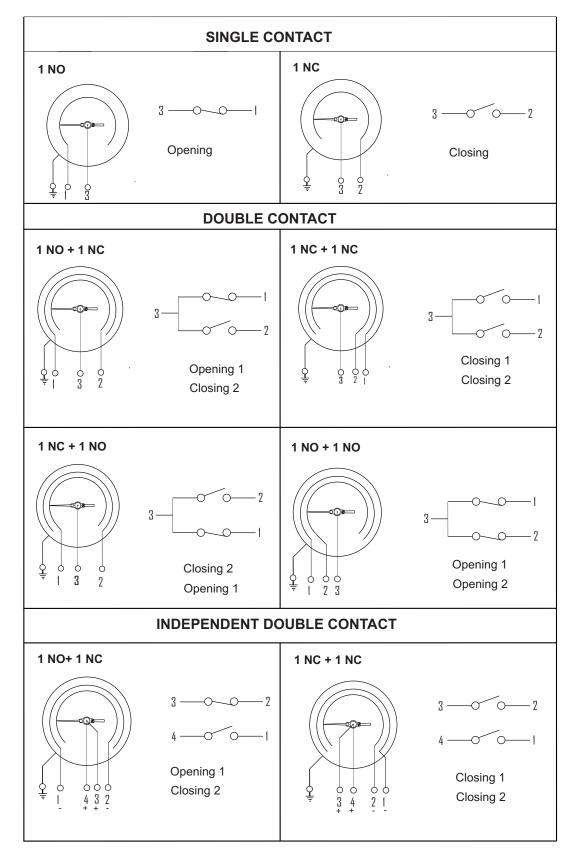
* Refe	r catalogue for Valves & Mar	nifold	ls. ** For Pressure Ranges.		
EC	GAUGE COCK	*	NEEDLE VALVE	EH	SIPHON
EB	COOLING TOWER	ED	OVER LOAD PROTECTOR (GAUGE SAVER)**	EG	SNUBBER

* Refer catalogue for Valves & Manifolds.

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WIRING DIAGRAMS FOR ELECTRIC CONTACTS

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но	W TO ORDER			Example
	SIC MODEL			
CO				BI
NO	MINAL SIZE F			_
	100 mm			X
TY	PE OF MOUNTING			-
1	WALL, SURFACE, PROJECTION MOUNTING WITH BO	DTTON	IENTRY	Х
2 3				
5	DIRECT LOWER BACK ENTRY			
ELE	CTRIC CONTACTS (CE& ATEX APPROVED)			_
A)	SINGLE INSULATED MAGNETIC SNAP ACTION TYPE (230 V AC, 1 Amp.)(48 V DC, 0.5 Amp.)	* В)	INDUCTIVE TYPE (220 V AC, 0.4 Amp.)	
RK RL RM RN RO RU RA	Single; NORMALLY CLOSED (1 NC) Double; NORMALLY CLOSED + NORMALLY OPEN (1 NC +1 NG Single; NORMALLY OPEN (1 NO) Double; NORMALLY OPEN + NORMALLY CLOSED (1 NO + 1 N Double; NORMALLY CLOSED (BOTH NC) Double; NORMALLY OPEN (BOTH NO) BOOSTER WITH RELAY FOR CURRENT UPTO 5 Amp. SPDT DPDT	D) YN Y) IC) Y1 YZ	 Single; NORMALLY OPEN (1 NO) Single; NORMALLY CLOSED (1 NC) Double; NORMALLY CLOSED + NORMALLY OPEN (1 NC +1 NO) Double; NORMALLY OPEN (BOTH NO) Double; NORMALLY CLOSED (BOTH NC) Double; NORMALLY OPEN + NORMALLY CLOSED (1 NO + 1 NC) 	XX
	R DOUBLE INSULATED ELECTRICAL CONTACTS, CONSUL	т ғаст	ORY FOR PRICE & DELIVERY.	
	1 3/8" BSP (M) STANDARD 2NM 1/4" NPT (M) 1 ½" BSP (M) STANDARD 4NM ½" NPT (M) ST		4TM ½" BSPT (M) RD 4MM M20 x 1.5 (M)	XXX
NOT	e : Connections like Metric/ PT/ PF/ Flaired/ UNF/ G/ R	etc ca	in de provided on request.	
RA	NGE			0/40
REF	ER RANGE TABLE			0/10 kg/cm ²
OP	FIONS			
		TE		
TI PS	MONEL BOURDON & SOCKET (MONEL VERSION)** AISI 316 SS CASE & BEZEL*	TF RH	CONFORMITY AS PER NACE MR 0175 CUSTOM DESIGNED DIAL##	
	FIVE POINT CALIBRATION CERTIFICATE		INTEGRAL DAMPENING SCREW (AISI 316 SS)	XX
ZZ SX	DIELECTRIC OIL FILLED# SS TAG PLATE		INTEGRAL DAMPENING SCREW (MONEL)**	
5X TB	HELIUM LEAK TEST		INTERNAL OVERPRESSURE STOP INTERNAL VACUUM STOP	
GH		SF	MOVEMENT WITH DAMPENING JELLY	

* CONSULT FACTORY FOR MINIMUM ORDER QUANTITY & DELIVERY. # BOD, Gasket & Filling plug of NBR. Refer Price List for Viton. **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: BI - X - X - XX - XXX - 0/10kg/cm² - XX

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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