

ALL SS PRESSURE GAUGE

ELECTRIC CONTACT TYPE



BJ

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 & 150 mm

 Accuracy
 : ±1.0% 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

Operating pressure range
Over pressure limit

front of lens
75% of Scale Value
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 65

Dial: Aluminum, black graduation on white backgroundPointer: Aluminum, black coloured micrometer zero adjustable

Window : Polycarbonate Dome
Electrical Contacts* : Refer How to Order
Blow off Disc : Neoprene

Gasket & Filling Plug Neoprene

FILLED VERSION - DIELECTRIC OIL (OPTION - ZZ)

Accuracy : ±1.6% of F. S.

Ambient Temperature : Maximum 65°C

Process Temperature : +15°C / 65° C

Window : Polycarbonate Dome

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: ± 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 ±5% of setting point.)

Notes: • Drawings are not to scale. • All Dimensions are in mm



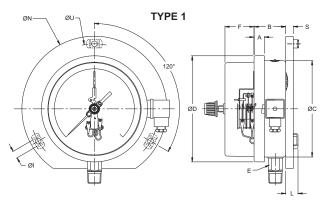


^{*} Please specify contact set points while ordering.

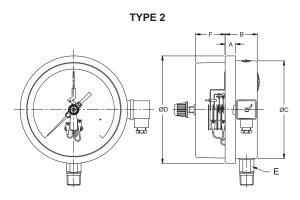
^{*}BOD, Gasket & Filling plug of NBR. Refer Price List for Viton.

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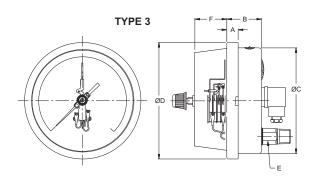
DIMENSIONS - STANDARD VERSION



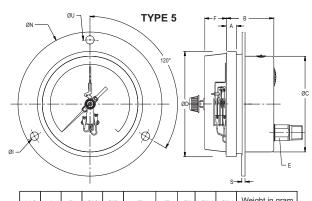
NS	Α	В	øс	ØD	Е	F	ØΙ	ØN	Øυ	L	S	Weight in gram (With Box)
100	12.5	45	100	111	22	44	6	134	118	14.5	6	890.0
150	15	46.5	149	161	22	44	6	186	168	14.5	6	1370.0



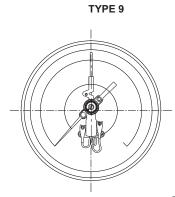
NS	А	В	ØС	ØD	Е	F	Weight in gram (With Box)
100	12.5	47	100	111	22	44	800.0
150	15	49	149	161	22	44	1200.0

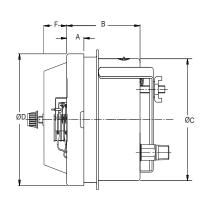


NS	А	В	ØС	ØD	Е	F	Weight in gram (With Box)
100	12.5	47	100	111	22	44	790.0
150	15	49	149	161	22	44	1140.0



NS	Α	В	øс	ØD	E	F	ØI	ØN	Øυ	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

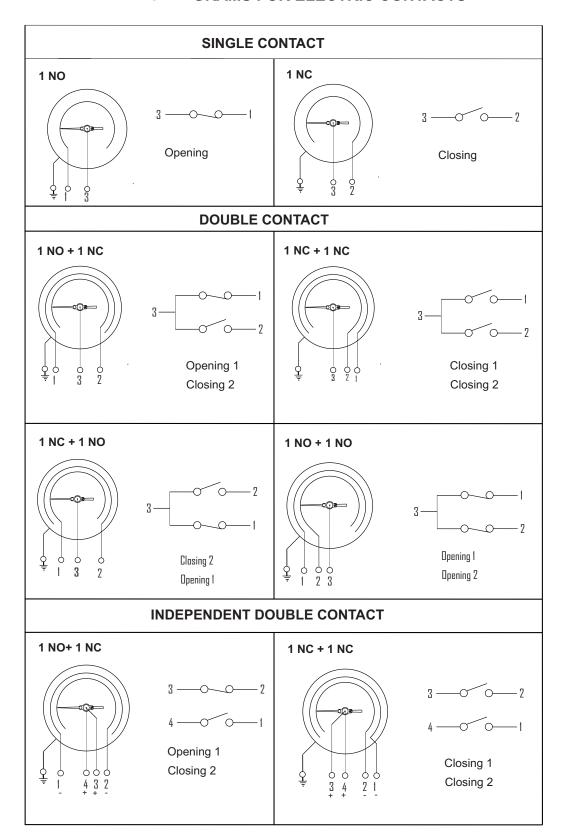




NS	А	В	ØС	ØD	E	F	J	K	V	Weight in gram (With Box)
100	12.5	47	100	111	A/F 22	44	72	16	108	870.0
150	15	49	149	161	A/F 22	44	106.5	16	166	1240.0



WIRING DIAGRAMS FOR ELECTRIC CONTACTS





RANGE TABLE

BJ

Example

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

PRESSURE & COMPOUND

PRESSURE	E - SINGLE	SCALE ((g/cm² or bar)			COMPOUNI	D - SINGLE SCALE	(kg/cm² or bar)		
0/1.6	.6 0/10 0/60 0/400					4/5				
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 SCA	LE (psi wit	h kg/cm²)								
psi	kg/d	cm²	psi	kg/cm²	psi	kg/cm²	psi	kg/cm²		
0/25	0/1.	6	0/220	0/16	0/1500	0/100	0/10000	0/700		
0/35	0/2.	0/2.5		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	0/1000	0/70	0/6000	0/400				

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

ACCESSORIES (Refer Datasheet for complete specifications)

EB	COOLING TOWER	ED	OVER LOAD PROTECTOR (GAUGE SAVER)	EG SNUBBER
EC	GAUGE COCK	*	NEEDLE VALVE	EH SIPHON

^{*} Refer catalogue for Valves & Manifolds.

HO	W TO ORDER					Example
	IC MODEL					
COD						BJ
	IINAL SIZE	F	н			
	-	100 mm	150 mm			X
ΓΥΡΙ	E OF MOUNTING	100 11111	130 111111			
2 [NALL, SURFACE, PROJECTION MOUNTIN DIRECT BOTTOM ENTRY DIRECT LOWER BACK ENTRY CTRIC CONTACTS (CE& ATEX APPR		OM ENTR		LUSH PANEL BACK ENTRY WITH FRONT FLANGE ACK ENTRY WITH MOUNTING BRACKET	X
	NGLE INSULATED MAGNETIC SNAP ACT 230 V AC, 1 Amp.)(48 V DC, 0.5 Amp.)	ION TYPE*		B) II	NDUCTIVE TYPE (220 V AC, 0.4 Amp.)	XX
RJ RK RL RM RN RO RU RA	Single; NORMALLY CLOSED (1 NC) Double; NORMALLY CLOSED + NORMAL Single; NORMALLY OPEN (1 NO) Double; NORMALLY OPEN + NORMALLY Double; NORMALLY CLOSED (BOTH NC) Double; NORMALLY OPEN (BOTH NO) BOOSTER WITH RELAY FOR CURRENT SPDT	CLOSED (1 NO	,	YV YX YY 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)	
RC	DPDT * FOR DOUBLE INSULATED EL	ECTRICAL CONT	ACTS, CO	NSULT	FACTORY FOR PRICE & DELIVERY.	
	3/8" BSP (M) STANDARD 2NM 1/4"	NPT (M)		2BM	1/4" BSP (M)	
	. ,	NPT (M) STAND	DARD		M20 x1.5 (M)	XXX
	: Connections like Metric/ PT/ PF/ Flaired/ U	` '			. ,	
	IGE	1117 07 11 010 001	n bo provi	aoa oi	11044000.	
	ER RANGE TABLE					0/10 kg/cn
	TIONAL EXTRAS					kg/cn
TI	MONEL BOURDON & SOCKET (MONEL)	VERSION)**	TF	CON	FORMITY AS PER NACE MR 0175	
	AISI 316 SS CASE & BEZEL*	•			TOM DESIGNED DIAL	XX
	FIVE POINT CALIBRATION CERTIFICATE	≣			GRAL DAMPENING SCREW (AISI 316 SS)	
	DIELECTRIC OIL FILLED#				GRAL DAMPENING SCREW (MONEL)**	
	SS TAG PLATE				RNAL WACHIM STOP	
	DIAL TAG MARKING HELIUM LEAK TEST				RNAL VACUUM STOP EMENT WITH DAMPENING JELLY	
		TTV 0 DELIVERY			ERIAL TEST CERTIFICATES***	
	ISULT FACTORY FOR MINIMUM ORDER QUANT				#BOD Gasket & Filling plug of NBP Pefer Price List for N	liton

^{**}INTEGRAL DAMPENING SCREW WILL BE IN MONEL IF ORDERED. REFER OPTION FL. #BOD, Gasket & Filling plug of NBR. Refer Price List for Viton.

*** MATERIAL TEST CERTIFICATES WILL BE PROVIDED FOR WETTED PARTS ONLY WITH CHEMICAL COMPOSITION TESTING. FOR OTHERS,
PLEASE CONSULT FACTORY.

Ordering Example: BJ - 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.

