



BD

SPECIAL FEATURES

- RUST FREE DESIGN (EXCELLENT FOR CORROSIVE ENVIRONMENT)
- IDEAL FOR HVAC & PHARMACEUTICAL INDUSTRY
- ECONOMICAL VERSION

APPLICATIONS

WATER / AIR / REFRIGERANT GAS / HVAC

SPECIFICATIONS

STANDARD VERSION : 100 mm

Accuracy	: $\pm 1.6\%$ of F. S.
Ambient temperature	: $- 20^{\circ}\text{C}$ to $+ 65^{\circ}\text{C}$
Process temperature	: Max. 60°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	: Plastic [Threaded]
Socket	: Copper Alloy
Bourdon	: Copper Alloy upto 70 kg/cm^2
	: AISI 316L for above 70 kg/cm^2
Movement	: Copper Alloy
Process Connection	: $3/8"$ BSP (M)
Joints	: Alloy Brazing / Soldering

Dial	: Aluminum, black graduation on white background
Pointer	: Aluminum, Black coloured, Fixed
Window	: Sheet Glass

Temperature effect:

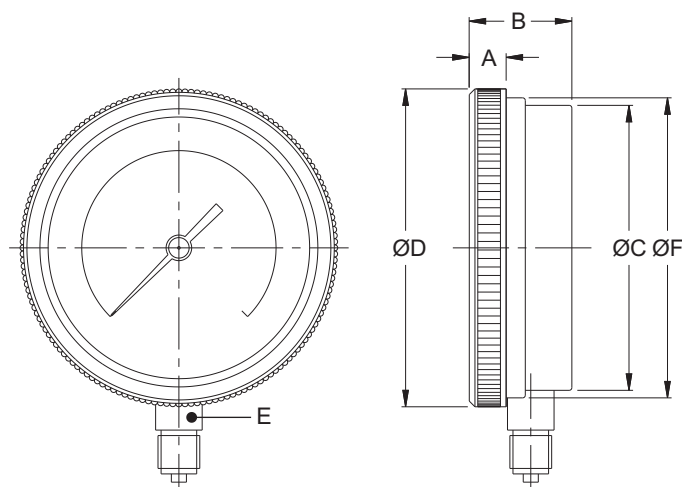
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :-

Formula : $\pm 0.04 \times (t_2 - t_1) \%$ of F. S.

where t_1 = reference temperature ($+20^{\circ}\text{C}$) and t_2 = ambient temperature in $^{\circ}\text{C}$.



DIMENSIONS - STANDARD VERSION



TYPE 2

NS	A	B	ØC	ØF	ØD	E	Weight in gram (With Box)
100	13	37.5	104	109.5	116	SQ. 17	300.0

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

HVAC MODEL (PLASTIC CASE WITH BRASS INTERNALS)

BD

RANGE TABLE

Note : Waaree offers National / International Scales like kPa, MPa, bar, psi, kg & 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, VACUUM & COMPOUND RANGES

RANGE (psi with kg/cm ²)					
psi	kg/cm ²	psi	kg/cm ²	psi	kg/cm ²
-30 inHg / 0	-760 mmHg / 0	0/500	0/35	- 30inHg/15	- 1 to 1
0/15	0/1	0/600	0/42	- 30inHg /30	- 1 to 2
0/30	0/2	0/1000	0/70	- 30inHg /60	- 1 to 4
0/60	0/4	0/1500	0/100	- 30inHg /100	- 1 to 7
0/100	0/7	0/2200	0/160	- 30inHg /150	- 1 to 10
0/150	0/10	0/3000	0/200	- 30inHg /200	- 1 to 14
0/220	0/16	0/3500	0/250	- 30inHg /300	- 1 to 20
0/300	0/20	0/4000	0/280		
0/350	0/25	0/5000	0/350		
0/400	0/28	0/6000	0/400		

FREON (WITH TEMPERATURE SCALE)

Note : For temperature scales, please provide refrigerant name.

DUAL SCALE (Inch Hg to psi)	
RANGE	RANGE
-30/150	0-300
-30/300	0-500

ACCESSORIES (Refer Datasheet for complete specifications)

EC	GAUGE COCK	EG	SNUBBER
*	NEEDLE VALVE	EH	SIPHON

* Refer catalogue for Valves & Manifolds

HOW TO ORDER

BASIC MODEL

CODE

NOMINAL SIZE

F

TYPE OF MOUNTING

100 mm

2 DIRECT BOTTOM ENTRY

CONNECTION

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

Note : Connections like Metric/ PT/ PF/ Flaired/ UNF/ G/ R, BSPT, NPT etc can be provided on request.

RANGE

REFER TABLES

OPTIONAL EXTRAS

FK	INTEGRAL DAMPENING SCREW (BRASS)	SL	ZERO ADJUSTABLE POINTER
RH	CUSTOM DESIGNED DIAL	PW	FIVE POINT CALIBRATION CERTIFICATE
TB	HELIUM LEAK TEST	ZC	FREON RANGE (WITH TEMPERATURE SCALE)
RW	PLEXI GLASS	SX	SS TAG PLATE
SW	DIAL TAG MARKING		

Ordering Example: BD - X - X - XXX - 0/10 kg/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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