



GOST - R



SPECIAL FEATURES

- FM APPROVED ENCLOSURE
- HIGH OPERATING PRESSURE UP TO 100 bar
- SIMPLE AND COMPACT DESIGN
- COST EFFECTIVE
- RELIABLE

APPLICATIONS

FILTERS, HYDRAULIC SYSTEMS, WATER TREATMENT PLANTS, CHEMICAL PLANTS, NATURAL GAS PROCESSING, HEAT EXCHANGERS, GASOLINE / DIESEL ENGINE FILTERS, PUMPS & VALVES, COMPRESSORS.

SPECIFICATIONS

STANDARD VERSION : 63 mm, 80 mm, 100 mm, 115 mm & 150 mm

Accuracy	: ± 2% of F. S.(Ascending)
Ambient temperature	: Max. 65°C
Process temperature	: Max. 80°C
Over Pressure Range	: Up to the Full Scale Value
Connection	: 1/4" NPT (F) x 2 Nos.

Case	: AISI 304 SS
Wetted Parts	: Diaphragm, Ceramic Magnet & SS Spring
Body	: AISI 316 SS
Protection	: IP 65
Dial & Pointer	: Aluminum, black Colored, Fixed
Window	: Glass

EXPLOSION PROOF VERSION

Enclosure Material	: Die Cast Aluminum
Enclosure Protection	: Explosion proof, Class I, Div. 1, Group B, C & D, Class II, Div. 1, Group E, F & G, Class III, Div. 1, Hazardous Locations, Indoor & Outdoors, (Type 4X/IP66/IP67)
Switch	: 1 SPST / 1 SPDT / 2 SPDT
Switch Rating	: SPST : 10 VA, 125 V, 0.5 A AC/DC (Max) SPDT : 5 VA, 125 V, 0.25 A AC/DC (Max)

GLYCERINE FILLED VERSION (OPTION PY)

Accuracy	: ±4.0% of F. S.(Ascending)
Ambient Temperature	: Maximum 65°C
Process Temperature	: Maximum 65°C
Window	: Plexi Glass
Dampening Liquids	: Glycerin 99.7% (others available as option)
Other Features	: Refer Specification of Standard Version

Temperature effect:

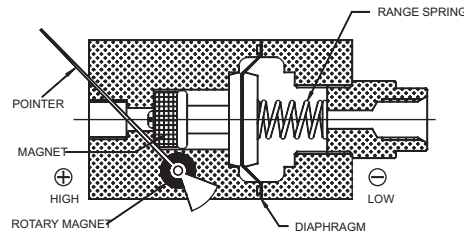
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :-

Formula : $\pm 0.08 \times (t_2 - t_1) \% \text{ of F. S.}$

where t_1 = reference temperature (+20°C) and t_2 = ambient temperature in °C.



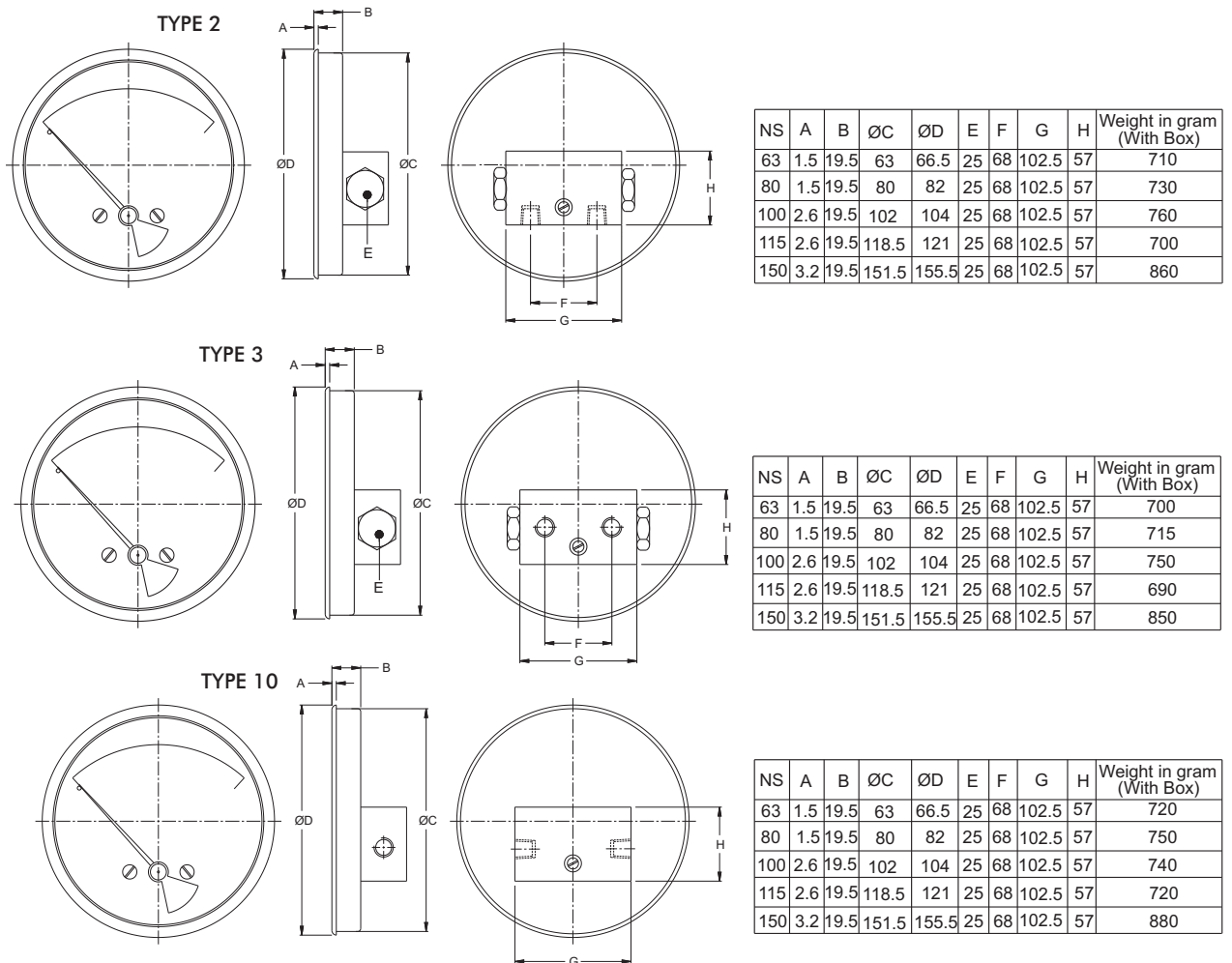
OPERATING PRINCIPLE



High and Low pressures are separated by a sensor assembly consisting of a magnet, piston, Teflon seal and a range spring. The difference in pressure causes the sensor assembly to move in proportion to the change against a range spring.

A rotary magnet, located in a separate body cavity and isolated from the acting pressures, is rotated by magnetic coupling as per the linear movement of the sensor assembly. A pointer attached to the rotary magnet indicates differential pressure on the dial.

DIMENSIONS - STANDARD VERSION



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

RANGE TABLE

Note : Waaree offers National / International Scales like kPa, bar, psi, kg/cm², mbar, mmWC, inWC or Equivalent scales as per the requirement can be provided on request.

Following are the example tables for kPa & kg/cm²

GAUGE PRESSURE RANGE

SINGLE SCALE						
kPa	kPa	kPa		kg/cm ²	kg/cm ²	kg/cm ²
0 / 7.5	0 / 50	0 / 250		0 / 0.075	0 / 0.50	0 / 2.5
0 / 10	0 / 75	0 / 300		0 / 0.10	0 / 0.75	0 / 3.0
0 / 20	0 / 100	0 / 400		0 / 0.20	0 / 1.0	0 / 4.00
0 / 25	0 / 200			0 / 0.25	0 / 2.0	

Note : Other Scale are available on customer request.

HOW TO ORDER

BASIC MODEL

CODE

	D	E	F	G	H
NOMINAL SIZE	63 mm	80 mm	100 mm	115 mm	150 mm

CASE TYPE

HN CASE WITHOUT FRONT FLANGE HO CASE WITH FRONT FLANGE

TYPE OF MOUNTING

2 DIRECT BOTTOM ENTRY 3 DIRECT BACK ENTRY 10 IN LINE ENTRY

BODY MATERIAL

HU ALUMINIUM CL AISI 316 SS CN MONEL

GAUGE CONNECTION

2NF 1/4" NPT (F) X 2 Nos. (Standard)
2BF 1/4" BSP (F) X 2 Nos.

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

RANGE

REFER RANGE TABLE

OPTIONS

RH CUSTOM DESIGNED DIAL
SW DIAL TAG MARKING
SX SS TAG PLATE
NG CALIBRATION CERTIFICATE
PY DAMPENING LIQUID GLYCERINE FILLED
JU 2" PIPE/YOKE MOUNTING BRACKET & 'U' CLAMP (AISI 304 SS)

Example

BG

X

XX

X
OR
XX

XX

XXX

0/2
kg/cm²

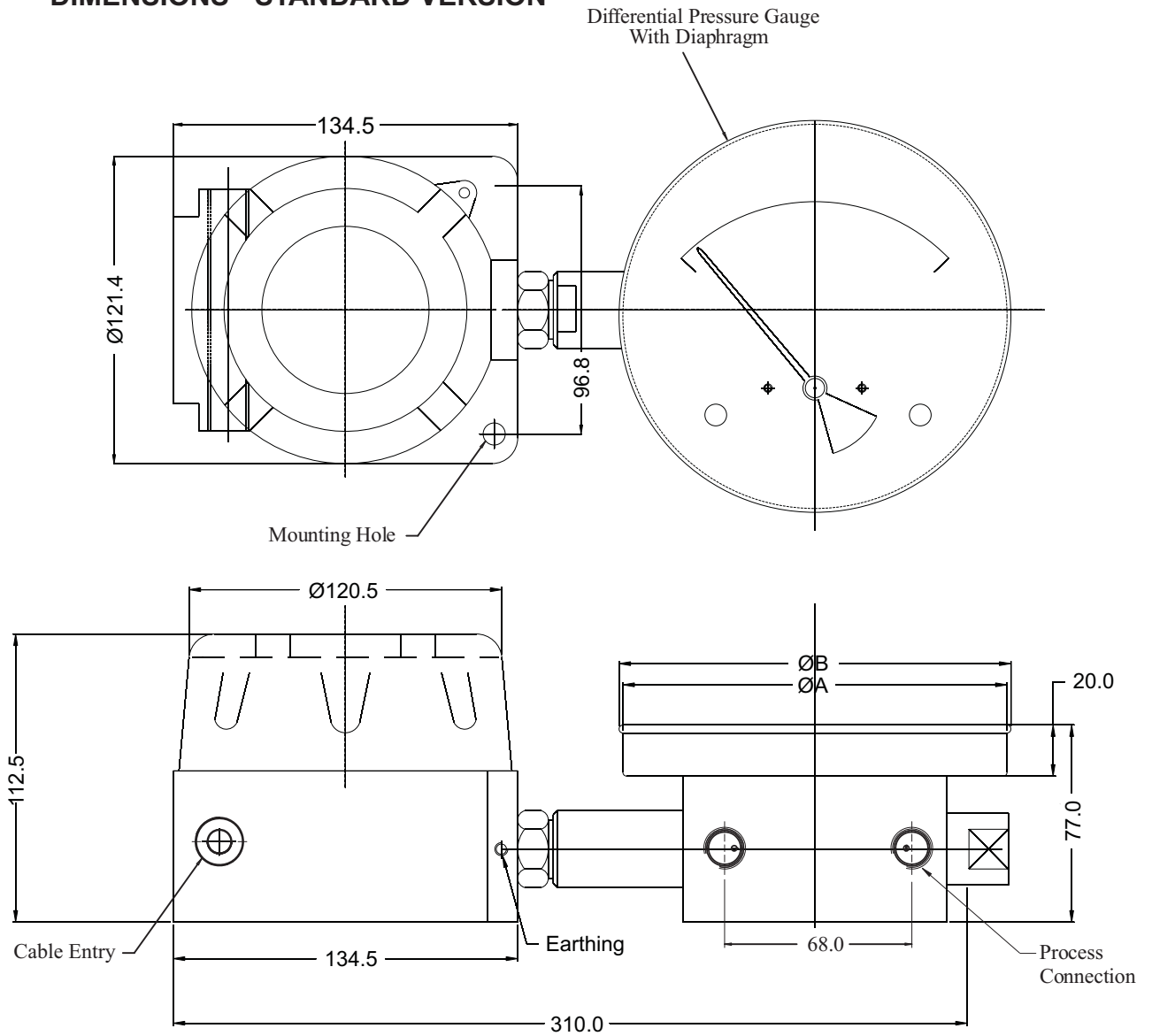
XX

Ordering Example: BG - X - XX - X OR XX - XX - XXX - 0/2 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.

DIMENSIONS - STANDARD VERSION



NS	$\varnothing A$	$\varnothing B$	Weight in gram (With Box)
63	63	66.5	3500
80	80	82	3600
100	102	104	3810
115	118.5	121	3880
150	151.5	155.5	4000

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

DIAPHRAGM OPERATED

BG

HOW TO ORDER

Example

BASIC MODEL

CODE							BG
NOMINAL SIZE		D	E	F	G	H	X
		63 mm	80 mm	100 mm	115 mm	150 mm	
TYPE							XX
SW	SWITCH	GS	GAUGE + SWITCH				
BODY MATERIAL							XX
HU	ALUMINIUM	CL	AISI 316 SS	CN	MONEL	BR	BRASS
CONNECTION							XXX
2NF	1/4" NPT (F) X 2 Nos. (Standard)						
2BF	1/4" BSP (F) X 2 Nos.						
MOUNTING							X OR XX
2	DIRECT BOTTOM ENTRY	3	DIRECT BACK ENTRY		10	IN LINE ENTRY	
CASE TYPE							XX
HN	CASE WITHOUT FRONT FLANGE		HO	CASE WITH FRONT FLANGE			
WINDOW							XX
RW	PLEXI GLASS		RZ	TOUGHENED GLASS			
DIAPHRAGM							XX
B	BUNA - N (Standard)		E	EPDM		V	VITON
RANGE							0/2 kg/cm ²
REFER RANGE TABLE							
SWITCH (# DIN PLUG - We mount it on top, on the plastic switch cover, however we can give it at the back on request)							XX
01	1 SPST WITH A DIN PLUG#						
02	1 SPST WITH A TERMINAL STRIP						
2A	1 SPST WITH BUILT IN RELAY						
03	2 SPST WITH A DIN PLUG#						
04	2 SPST WITH A TERMINAL STRIP						
4A	2 SPST WITH BUILT IN RELAY						
05	1 SPDT WITH A DIN PLUG#						
06	1 SPDT WITH A TERMINAL STRIP						
07	2 SPDT WITH 2 DIN PLUGS#						
08	2 SPDT WITH A TERMINAL STRIP						
OPTIONS							XX
RH	CUSTOM DESIGNED DIAL		NG	CALIBRATION CERTIFICATE			
SW	DIAL TAG MARKING		PY	DAMPENING LIQUID GLYCERINE FILLED			
SX	SS TAG PLATE		JU	2" PIPE/YOKE MOUNTING BRACKET & 'U' CLAMP (AISI 304 SS)			

Ordering Example: BG - X - XX - XX - XXX - X OR XX - XX - XX - XX - 0/2 kg/cm² - XX - XX

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