

DIAPHRAGM OPERATED

SPECIAL FEATURES

- 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.
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 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)
Enclosure Protection	:	1 SPST / 1 SPDT / 2 SPDT
Switch	:	SPST : 10 VA, 125 V, 0.5 A AC/DC (Max)
Switch Rating	:	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:

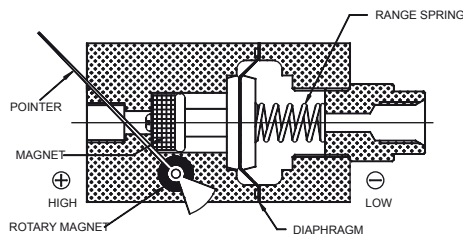
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :-

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.

DIAPHRAGM OPERATED

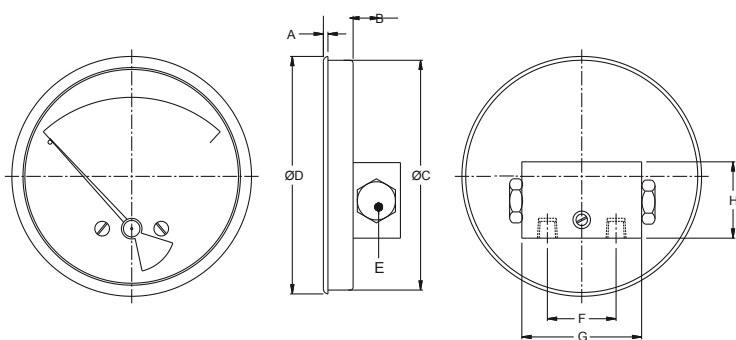
OPERATING PRINCIPLE



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.

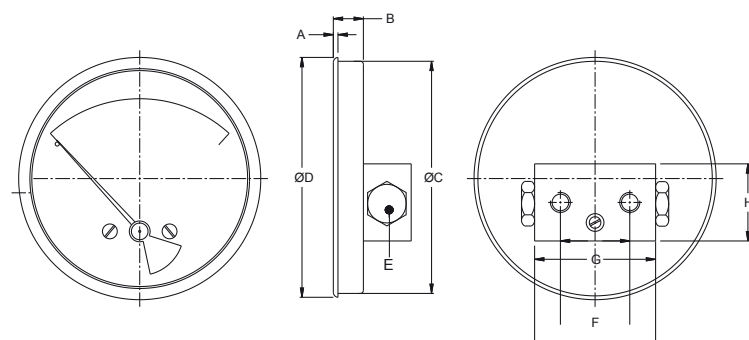
A rotary magnet, located in a separate body cavity and isolated from the acting pressures, is rotated by magnetic coupling as per the linear movement of the sensor assembly. A pointer attached to the rotary magnet indicates differential pressure on the dial.

DIMENSIONS - STANDARD VERSION



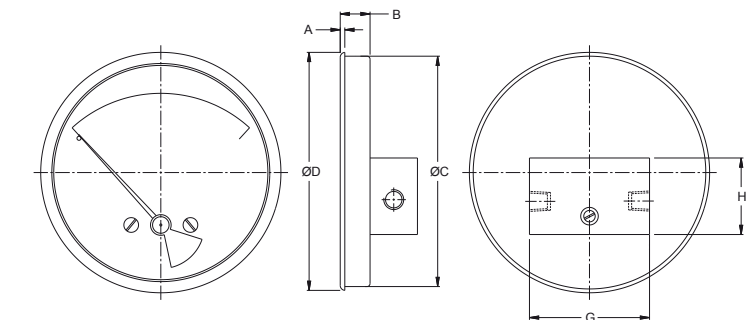
TYPE 2

Code	NS (mm)	A	B	ØC	ØD	E	F	G	H	Weight in gram (With Box)
D	63	1.5	19.5	63	66.5	25	68	102.5	57	710
E	80	1.5	19.5	80	82	25	68	102.5	57	730
F	100	2.6	19.5	102	104	25	68	102.5	57	760
G	115	2.6	19.5	118.5	121	25	68	102.5	57	700
H	150	3.2	19.5	151.5	155.5	25	68	102.5	57	860



TYPE 3

Code	NS (mm)	A	B	ØC	ØD	E	F	G	H	Weight in gram (With Box)
D	63	1.5	19.5	63	66.5	25	68	102.5	57	700
E	80	1.5	19.5	80	82	25	68	102.5	57	715
F	100	2.6	19.5	102	104	25	68	102.5	57	750
G	115	2.6	19.5	118.5	121	25	68	102.5	57	690
H	150	3.2	19.5	151.5	155.5	25	68	102.5	57	850

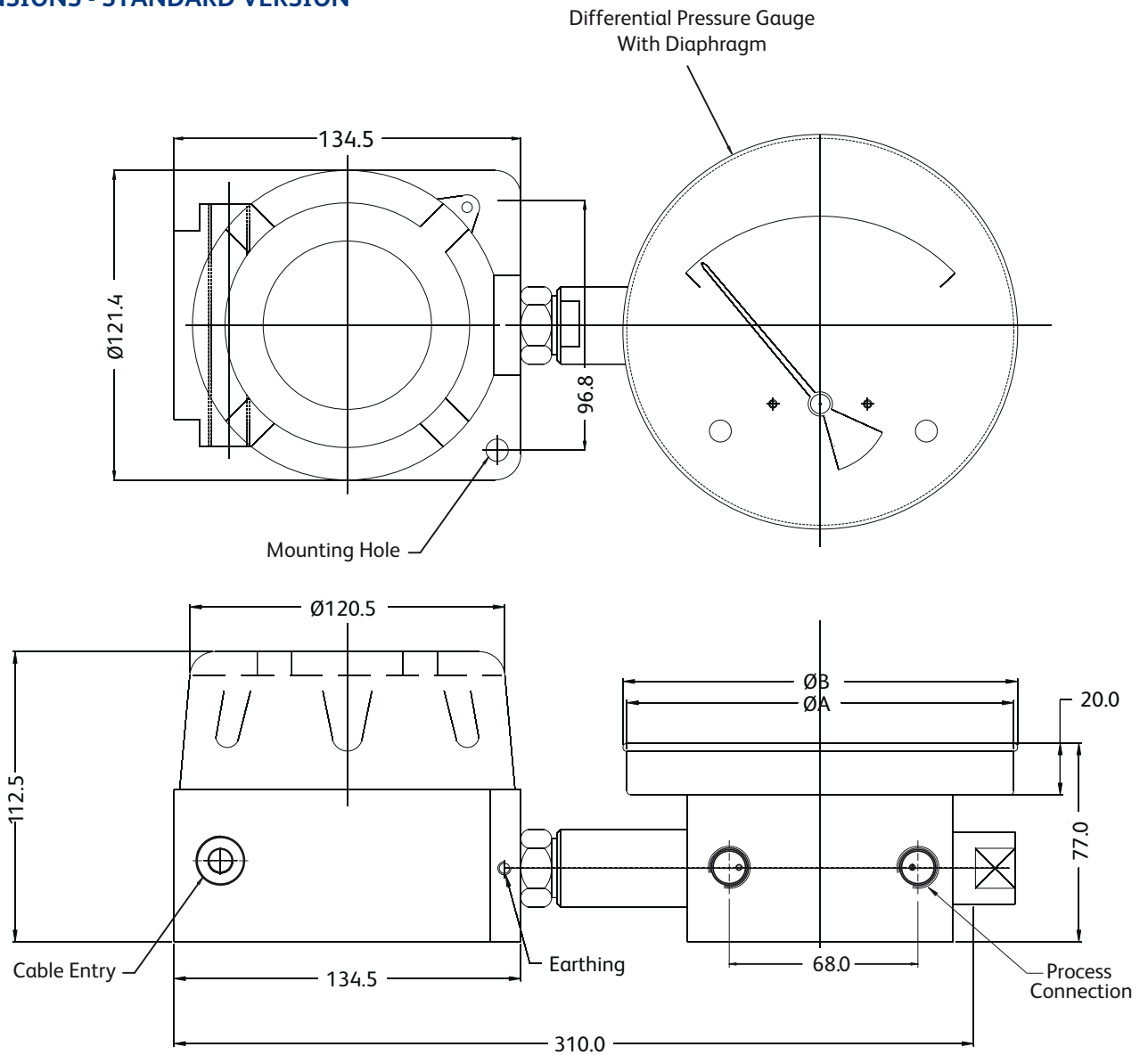


TYPE 10

Code	NS (mm)	A	B	ØC	ØD	E	F	G	H	Weight in gram (With Box)
D	63	1.5	19.5	63	66.5	25	68	102.5	57	720
E	80	1.5	19.5	80	82	25	68	102.5	57	750
F	100	2.6	19.5	102	104	25	68	102.5	57	740
G	115	2.6	19.5	118.5	121	25	68	102.5	57	720
H	150	3.2	19.5	151.5	155.5	25	68	102.5	57	880

Notes : • Drawings are not to scale. • All Dimensions are in mm. • NS = Nominal Seize
 • Weights mentioned are approximate and for standard product. Weight can be different after selection of options.

DIMENSIONS - STANDARD VERSION



Code	NS	ØA	ØB	Weight in gram (With Box)
D	63	63	66.5	3500
E	80	80	82	3600
F	100	102	104	3810
G	115	118.5	121	3880
H	150	151.5	155.5	4000

BASIC MODEL

2211 PG	DPIS
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CODE

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

TYPE

SW SWITCH GS GAUGE + SWITCH

BODY MATERIAL

HU ALUMINIUM CL AISI 316 SS CN MONEL BR BRASS

CONNECTION

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

MOUNTING

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

CASE TYPE

HN CASE WITHOUT FRONT FLANGE HO CASE WITH FRONT FLANGE

WINDOW

RW PLEXI GLASS RZ TOUGHENED GLASS

DIAPHRAGM

B BUNA - N (Standard) E EPDM V VITON

RANGE

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)

01	1 SPST WITH A DIN PLUG#	4A	2 SPST WITH BUILT IN RELAY
02	1 SPST WITH A TERMINAL STRIP	05	1 SPDT WITH A DIN PLUG#
2A	1 SPST WITH BUILT IN RELAY	06	1 SPDT WITH A TERMINAL STRIP
03	2 SPST WITH A DIN PLUG#	07	2 SPDT WITH 2 DIN PLUGS#
04	2 SPST WITH A TERMINAL STRIP	08	2 SPDT WITH A TERMINAL STRIP

OPTIONS

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)

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.

RANGE TABLE

Note: STRATAA CONTROLS 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 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.

BASIC MODEL	
2211 PG	DPIS

CODE									
NOMINAL SIZE (mm)	D	E	F	G	H				
	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	

SWITCH (# DIN PLUG - We mount it on top, on the plastic switch cover, however we can give it at the back on request)			
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2A	1 SPST WITH BUILT IN RELAY	06	1 SPDT WITH A TERMINAL STRIP
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04	2 SPST WITH A TERMINAL STRIP	08	2 SPDT WITH A TERMINAL STRIP

OPTIONS			
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)		

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