

PRECISION

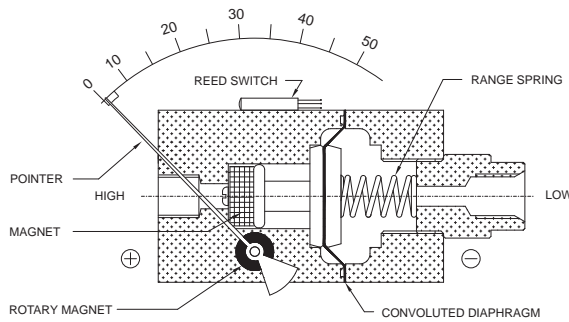
Differential Pressure Instruments



PRECISION Differential Pressure Instruments

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Legacy Series 300DGC Convoluted Diaphragm Gauge



300 DGC

ΔP Range : 0-1 up to 0-60 Psid
Dual Scale Sq.Rt. & Flow dials (GPM, etc).

COMBINATIONS

Gauge



Switch



Gauge + switch (with a terminal strip inside)



Compound Gauge (Centre Zero)



MOUNTING BRACKETS

Gauge



Specifications

Accuracy	±2% of FSD (Ascending)
Migration	No migration ; Zero leakage from high to low port
Range	0-1 to 0-60 PSID or equivalent ranges in other units
First marking on the scale	15% of the FSD
Sensing element	Diaphragm
Wetted parts	Diaphragm, body material, 302SS spring & ceramic magnet
Case material	Stainless steel (304SS)
Dial size in inch /mm	2.5", 3.5", 4", 4.5", 6"/ 63, 80, 100, 115, 150
Mounting	Direct, front flange & 2" pipe mounting
Maximum working pressure	1500 psi/100 bar
Maximum process temperature	200° F/93° C
Body material	Aluminum, Brass, 316SS
Seals	Buna-N, Viton & EPDM diaphragm & 'O' rings
Window	Glass(Std.), toughened glass & acrylic.
Connection	1/4" NPT(F) Std.
Porting	In-line, rear, bottom, bottom & vent, In-line & vent, In-line & bottom.
Over range protection	Up to the max. working pressure from high side
Protection for gauge & switch	NEMA-4/IP65

Options

Glycerine filling
Red follower pointer (except 6")
Customer logo
Dual scale
Colored arc
Filter mesh in (+) connection
Descending calibration

Switches (Adjustable in 30-100% of FSD)

1 or 2 SPSTs with a terminal strip
1 SPST with a built in relay
1 or 2 SPDTs with a terminal strip



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300DGC Diaphragm Gauge Order Code

300DGC CONVERTIBLE DIAPHRAGM GAUGE

- Options

300DGC G S 4.5 4N 1 SS F V 0 0-100" H₂O

Model
300DGC

Style
G = Gauge only
GS = Gauge + Switch

Body Material
A = Aluminum B = Brass
S = 316SS M = Monel

Dial Size
2.0 = 2" 4.0 = 4"
2.5 = 2½" 4.5 = 4½"
3.5 = 3½" 6.0 = 6"

Connection
4N = ¼" FNPT (standard)
ZZ = Special Connection

Connection Location
1 = Inline (std.) 4 = Bottom & Vent
2 = Rear/Back 5 = Inline & Vent
3 = Bottom 6 = Inline & Bottom

Case
SS = 304SS (std.) SF = 304SS Flange (Panel Mount)

Lens
F = Glass (std.) A = Acrylic T = Toughened Glass

Seals
B = Buna-n (std.) V = Viton E = EPDM

Switch

2 = 1 SPST w/terminal strip	+	<u>SPST Specifications</u>
2A = 1 SPST w/relay		1 = 10VA/100V/0.5 A (std)
4 = 2 SPST w/terminal strip		2 = 40VA/230V/1Amp
4A = 2 SPST w/relay		3 = 100VA/300V/1Amp
6 = 1 SPDT w/terminal strip		<u>SPDT Specifications</u>
8 = 2 SPDT w/terminal strip		1 = 3VA/30V/0.3 Amp (std)
		2 = 5VA/125V/0.25 Amp
		3 = 5VA/175V/0.25 Amp
		4 = 60VA/400V/1 Amp*

Range

Psid	Kg/cm ₂	Bar	Kpa	Inches W.C.
1	0.075	0.075	-	25
-	0.25	0.25	25	50
5	-	-	-	100
8	0.5	0.5	50	200
-	0.75	0.75	75	300
15	1	1	100	-
20	-	-	-	-
25	1.6	1.6	160	-
30	2	2	200	-
-	2.5	2.5	250	-
40	3	3	300	-
50	-	-	-	-
60	4	4	400	-

- 0 = None
 - A = Glycerine Fill**
 - B = Follower Pointer (acrylic lens)
 - C = Customer Logo
 - D = Dual Scale
 - E = Colored Dial Arc
 - F = Filter Screen in + Port
 - H = Descending calibration
 - N = NACE
 - S = Silicone Fill**
 - I = Oxygen Clean
 - M1 = 2" Horizontal Pipe Mount
 - M2 = Surface Mount Bracket
 - M3 = 2" Vertical Pipe Mount
- Notes
* = Switch Factory Set Only
** = Affects Accuracy



Contact Information



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