

DIFFERENTIAL PRESSURE GAUGE MAGNETIC PISTON TYPE DPMG



Applications:

Hydraulic systems Water treatment plants

Chemical plants

Natural gas processing

Heat exchanger

Gasoline / diesel engine filters

Pumps Valves Compressors

Special Features:

- ★ Simple and compact design.
- ★ High operating pressure up to 200 bar.
- ★ Over pressure safe from either side to maximum working pressure.
- ★ Indicating mechanism isolated from pressure chamber.
- ★ Suitable for Air / Gas media.



Specifications

Standard Version: NS 63, 100 & 150

Accuracy ± 2% of F. S. (For ascending order)

Ambient temperature Max. 65°C Max. 80°C Process temperature

Static pressure (on request) 10 kg/cm² up to ranges 1 bar

16 kg/cm² for ranges above 1.6 bar

Over pressure range Up to the Full Scale Value Connection 1/4" NPT (F) x 2 Nos.

Case AISI 304 SS

Wetted parts Teflon, Ceramic Magnet & SS Spring

AISI 316 SS Body Protection IP 65

Dial Aluminum, black Colored, Fixed

Plain Glass Window

Glycerine filled version (option py)

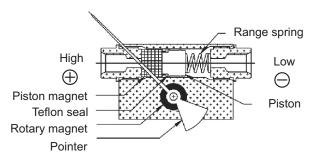
Accuracy ±4.0% of F. S. (For ascending order)

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:

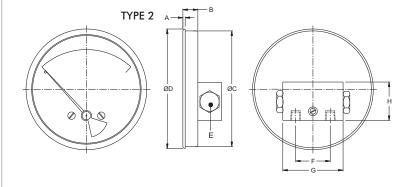
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :- Formula : ± 0.04 x (t2 - t1) % of F. S. where t1 = reference temperature $(+20^{\circ}C)$ and t2 = ambient temperature in °C.



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.

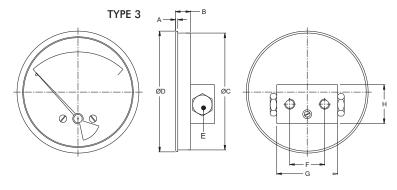
DIFFERENTIAL PRESSURE GAUGE MAGNETIC PISTON TYPE DPMG



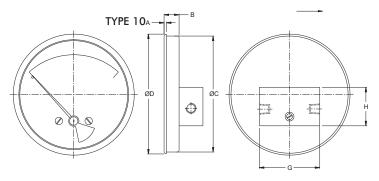


Dimensions - standard version

NS	Α	В	øс	ØD	E	F	G	н
63	3.2	19.5	62.5	66.5	20	46	76	50
100	3.2	19.5	101.5	104	20	46	76	50
150	3.2	19.5	151.5	155.5	20	46	76	50



NS	Α	В	øс	ØD	E	F	G	Н
63	3.2	19.5	62.5	66.5	20	46	76	50
100	3.2	19.5	101.5	104	20	46	76	50
150	3.2	19.5	151.5	155.5	20	46	76	50



NS	Α	В	øс	ØD	G	Н
63	3.2	19.5	62.5	66.5	76	50
100	3.2	19.5	101.5	104	76	50
150	3.2	19.5	151.5	155.5	76	50

Range Table

All Dimensions are in mm, Drawings are not to scale

Note: Delta offers National / International Scales like kPa, bar, psi, kg/cm², mbar, mmWC, in WC 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/cm²	kg/cm²	kg/cm²			
0 / 25	0 / 200	0 / 500	0 / 0.25	0 / 2.00	0 / 5.00			
0 / 50	0 / 250	0 / 600	0 / 0.50	0 / 2.50	0 / 6.00			
0 / 75	0 / 300	0 / 700	0 / 0.75	0 / 3.00	0 / 7.00			
0 / 100	0 / 350	0 / 900	0 / 1.00	0 / 3.50	0 / 9.00			
0 / 160	0 / 400	0 / 1000	0 / 1.60	0 / 4.00	0 / 10.00			

Note: Other Scale are available on customer request.

How To Order

Dampening liquid glycerine filled

2" pipe/yoke mounting bracket & 'U' clamp (AISI 304 SS)

Basic Model						DPMG
Code						
Nominal Size			В	С	D	С
			63 mm	100 mm	150 mm	C
Case Type						
HN Case without front flange	HO Case with front flange					CN
Mounting						2
2 Direct bottom entry	3 Direct back entry	10	In line entry			3
Body Material						CL
HU Aluminium	CL AISI 316 SS	CN	Monel			
Gauge Connection						6NF
6NF 1/4" NPT (F) X 2 Nos. (Sta	andard)	6BF	1/4" BSP (F) X 2 Nos.		
Mounting						0/2
Note : Connections like Metric/ P	PT/ PF/ Flaired/ UNF/ G/ R etc.	can be pro	vided on reque	est.		kg/cm²
Range						0/2 kg/cm ²
Refer range table						0/2 kg/cm
Options						B
RH Custom designed dial						RH
SW Dial tag marking						LG
SX SS tag plate						
NG Calibration certificate						

Ordering Example: DPMG . C . CN . 3 . CL . 6NF . $0/2 \text{ kg/cm}^2$. RH . LG

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.