

## 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

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

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

10 kg/cm <sup>2</sup> up to ranges 1 bar Static pressure (on request)

16 kg/cm<sup>2</sup> for ranges above 1.6 bar

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

AISI 304 SS Case

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)

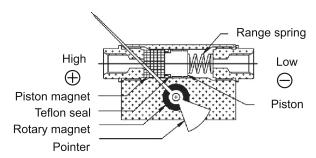
Accuracy ±4.0% of F. S. (For ascending order)

Maximum 65°C Ambient temperature Maximum 65°C Process temperature Window Plexi Glass

Dampening liquids Glycerin 99.7% (others available as option) Other features Refer Specification of Standard Version

#### Temperature effect:

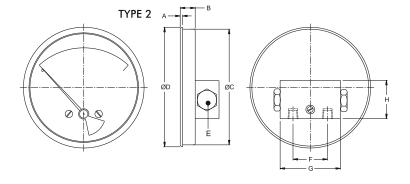
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :- Formula :  $\pm$  0.04 x (t2 - t1) % of F. S. where t1 = reference temperature  $(+20^{\circ}C)$  and t2 = ambient temperature in °C.



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.

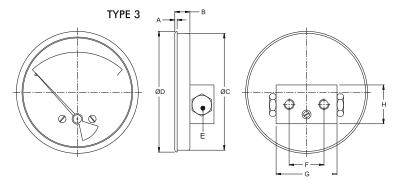
# DIFFERENTIAL PRESSURE GAUGE MAGNETIC PISTON TYPE DPMG



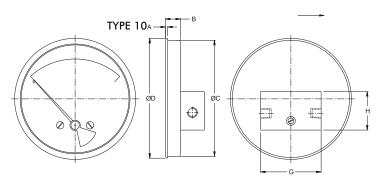


## **Dimensions - standard version**

NS	A	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	A	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/cm<sup>2</sup>

### **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.

## DIFFERENTIAL PRESSURE GAUGE MAGNETIC PISTON TYPE DPMG

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Basic Model					DPMG
Code					
Nominal Size		В	С	D	С
		63 m	m 100 mm	150 mm	C
Case Type					
HN Case without front flange	HO Case with front flang	ge			CN
Mounting					3
2 Direct bottom entry	3 Direct back entry	10 In line	entry		3
Body Material					CL
<b>HU</b> Aluminium	CL AISI 316 SS	<b>CN</b> Mone	I		
Gauge Connection	7.10101000	GIV Mone	•		6NF
<b>6NF</b> 1/4" NPT (F) X 2 Nos. (St	tandard)	6BF 1/4"	BSP (F) X 2 Nos.		
Mounting	,		,		0/2
Note : Connections like Metric/ F	PT/ PF/ Flaired/ UNF/ G/ R ef	tc. can be provided o	n request		kg/cm²
Range	THE THE TAIL OF THE STATE OF TH	te. can be previded e	Troquoot.		
					0/2 kg/cm <sup>2</sup>
Refer range table					
Options					RH
RH Custom designed dial  SW Dial tag marking					LG
<b>SW</b> Dial tag marking <b>SX</b> SS tag plate					
NG Calibration certificate					
GF Dampening liquid glycerin	ne filled				
JU 2" pipe/yoke mounting bra	acket & 'U' clamp (AISI 304 S	iS)			

## Ordering Example: DPMG . C . CN . 3 . CL . 6NF . 0/2 kg/cm<sup>2</sup>. 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.

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