

Diaphragm Pressure Gauge

Model: PD1

Applications

- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive ambience
- Process industry: Chemical/petro chemical, power stations, food and beverage, offshore oil rigs, pulp and paper, environmental technology, machine building and general plant construction

Special features

- According to NACE MR 0175 & MR0103 standard
- Stabilizer movement
- Anti-glare & Anti-static window
- Excellent load-cycle stability and shock resistance
- All stainless steel construction
- Design EN 837-3
- High Scale ranges up to 40 ... 600 bar
Low Scale ranges up to 16 mbar ... 40 bar
- Threaded or open flange process connections

Description

- | | |
|---------------------------|---|
| ■ Accuracy class | NS 63: 2.5 NS 100, 160: 1.6, 0.1% (option) |
| ■ Pressure element | Stainless steel 316L C-type or helical type
Hastelloy, Monel, Tantalum(option) |
| ■ Process connection | Stainless steel 316L bottom
NS 63: ¼ NPT, NS 100, 160: ½ NPT, BSP (option) |
| ■ Socket & connection | Threaded or open flange process connections |
| ■ Window | Glass, Laminated safety glass Anti-glare & Anti-static |
| ■ Permissible temperature | Ambient: -40 ... +60 °C without liquid filling
-20 ... +60 °C gauges with glycerine filling ¹⁾
Medium: +200 °C maximum without liquid filling
+100 °C maximum with liquid filling |
| ■ Movement | Stainless steel |
| ■ Pointer | Aluminium, black |
| ■ Dial | Aluminium, white, black lettering, |
| ■ Protection | IP66 |
| ■ Range | 0...16 cmH ₂ O to 0...250 mH ₂ O;
0...1.6 to 0...2500 kPa;
0...16 mbar to 0...25 bar
Vacuum and high range ranges are available |





- Pressure limitation**

NS 63:	Steady:	3/4 x full scale value
	Fluctuating:	2/3 x full scale value
	Short time:	Full scale value
NS 100, 160:	Steady:	Full scale value
	Fluctuating:	0.9 x full scale value
	Short time:	1.3 x full scale value

- Temperature error**

When the temperature of the measuring system deviates from the reference temperature (+20 °C):
 max. ±0.4 %/10 K of full scale value

Two classes of the PD1Series are offered. low pressure application type with larger diaphragm (Ø150mm) for up to 4 mH2O pressure with the minimum span of 16 cmH2O, and high pressure application type with smaller diaphragm (Ø96 mm) for the maximum pressure of 600bar

PD1 Diaphragm Pressure Gauges

ORDERING CODE	Example:	PD1	4	T	2	L	S	AT	WA	Note
Dial Size										
2-63 mm(2½")										
4-100mm(4")			4							
6-160mm(6")										
Process Connection Type										
T- Bottom				T						
Process Connection Sizes										
2 - ¼ NPT Dial 63 Male ½ NPT Male NS100,160 Dial					2					
4 - G ¼ Male Dial 63 G ½ Male NS100,160 Dial										
6 - Flange Type (please mention the technical details in the note)										
8 - Customer										
Case Design										
D - Dry										
L - Liquid fill						L				
Process Connection										
S - 316L Stainless steel							S			
M - Monel 400®										
H - Hastelloy										
C - Customer										
Accuracy										
AT - 1.6% (std.)								AT		
AC - 1%										
Options										
SC - Single scale										
DS - Dual scales										
YW - 316L Stainless steel case										
OS - Overload stop										
GF - Glycerine filling										
QC - Low temperature silicone fill for ambient temperature down to -94°F (-70°C), including Fluorosilicone sealing										
SH - Red set hand, stationary (dry case only)										
PF - PTFE connection and diaphragm foil										
FS - 5 * F.S. overpressure										
NC - NACE MR 0175 & MR0103 standard										
ST - Stabilizer movement										
AN - Anti-glare & Anti - static window										
CC - Calibration certificate										
NH - Stainless steel tag wired to case										
AT - ATEX										
WA - One year warranty									WA	
Other										





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