

# 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<br>Hastelloy, Monel, Tantalum(option)   |
| ■ Process connection      | Stainless steel 316L bottom<br>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<br>-20 ... +60 °C gauges with glycerine filling <sup>1)</sup><br>Medium: +200 °C maximum without liquid filling<br>+100 °C maximum with liquid filling |
| ■ Movement                | Stainless steel   |
| ■ Pointer                 | Aluminium, black  |
| ■ Dial                    | Aluminium, white, black lettering,  |
| ■ Protection              | IP66  |
| ■ Range                   | 0...16 cmH <sub>2</sub> O to 0...250 mH <sub>2</sub> O;<br>0...1.6 to 0...2500 kPa;<br>0...16 mbar to 0...25 bar<br>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 mH<sub>2</sub>O pressure with the minimum span of 16 cmH<sub>2</sub>O, 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
<b>Dial Size</b>										
2-63 mm(2½")										
4-100mm(4")			4							
6-160mm(6")										
<b>Process Connection Type</b>										
T- Bottom				T						
<b>Process Connection Sizes</b>										
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										
<b>Case Design</b>										
D - Dry										
L - Liquid fill						L				
<b>Process Connection</b>										
S - 316L Stainless steel							S			
M - Monel 400®										
H - Hastelloy										
C - Customer										
<b>Accuracy</b>										
AT - 1.6% (std.)								AT		
AC - 1%										
<b>Options</b>										
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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