

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, 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 filling¹⁾
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 cmH₂O to 0...250 mH₂O;
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 PD1 Series 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	SI	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.)											
AC - 1%											
Filling Fluids (Consult factory for specifications, price and delivery)											
FI - Flurolube 4.2 (-45 to 175°C)											
FU - Flurolube 6.3 (-40 to 235°C)											
FR - Flurolube FS-5 (-28 to 148°C)											
FG - Food grade oil (-20 to 140°C)											
SI - Silicon DC 200 (-40 to 205°C) (standard)									SI		
SL - Silicon DC 704 (10 to 337°C)											
SC - Silicon DC 710 (7 to 371°C)											
SH - Syltherm 800 (-40 to 315°C)											
SE - Syltherm XLT (-100 to 260°C)											
HA - Halocarbon oil											
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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