

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: 1/4 NPT, NS 100, 160: 1/2 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	SI	WA	Note
Dial Size										
2-63 mm(2 $\frac{1}{2}$ "")										
4-100mm(4")				4						
6-160mm(6")										
Process Connection Type										
T- Bottom				T						
Process Connection Sizes										
2 - 1/4 NPT Dial 63 Male 1/2 NPT Male NS100,160 Dial							2			
4 - G 1/4 Male Dial 63 G 1/2 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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