

Sanitary Diaphragm Pressure Gauge

Model: PD2

Applications

- Filtration, Food and Dairy, Biotech, Calibration Labs
Field Inspection
- Hygienic pressure measurement for the pharmaceutical and biotechnology industries
- Mechanical pressure display on pipelines, fermenters, bioreactors and vessels.
- Pressure display during processing and transport of high-quality and critical media
- Suitable for the production of active pharmaceutical ingredients (API)
- For gases, vapour; liquid, pasty, powdery and crystallizing media

Special features

- According to NACE MR 0175 & MR0103 standard
- Stabilizer movement
- Anti-glare & Anti-static window
- Sealing fluid food grade oil
- All welded diaphragm seals
- Excellent load-cycle stability and shock resistance
- All stainless steel construction
- Case and wetted parts in hygienic design
- High Scale ranges up to 40 ... 600 bar
- Low Scale ranges up to 16 mbar ... 40 bar
- Completely autoclavable, suitable for CIP and SIP



Description

- | | |
|---------------------------|--|
| ■ Accuracy class | NS 63: 2.5 NS 100, 160: 1.6, 1% (option) |
| ■ Diaphragm | Stainless steel 316L
Hastelloy, Monel, Tantalum(option) |
| ■ Process connection | Tri-clamp@ diaphragm (3A std.),
Bottom Matting part, Clamp & gasket must be ordered (option) |
| ■ Diaphragm size | 1½" , 2" and 2½"; see ordering table. |
| ■ Window | Plexiglass (for 2½" dial), safety glass (for 4" dial) |
| ■ Over pressure limit | 125% of max. scale value |
| ■ Permissible temperature | Ambient: -40 ... +60 °C without liquid filling
-20 ... +60 °C gauges with glycerine filling ¹
Medium: +100 °C maximum with liquid filling |
| ■ Movement | Stainless steel |
| ■ Pointer | Aluminium, black |
| ■ Dial | Aluminium, white, black lettering, |
| ■ Protection | IP65 |
| ■ 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

The diaphragm seal is integrally built with the gauge and can be connected to the process with a quick-connection clamp and mating part which should be ordered separately. The sealing fluid is food grade oil and process temperature can be as high as 140°C; suitable for autoclaves, etc. The case of PD2 Series of pressure gauges is fine polished stainless steel to control bacteria accumulation on the case and suitable for applications in critical food processing. Standards followed in manufacturing of PD2 Series are according to EN-837-3.

PD2 Diaphragm Pressure Gauges

ORDERING CODE	Example:	PD2	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						
B - Back										
Process Connection Sizes										
2 - 1½ Tri-clamp					2					
4 - 2 Tri-clamp										
6 - 2½ Tri-clamp										
8 - Customer										
Case Design										
D - Dry										
L - Liquid fill						L				
Process Connection Material										
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 & MR 0103 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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