

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(2 $\frac{1}{2}$ "")									
4 - 100mm(4")		4							
6 - 160mm(6")									
Process Connection Type									
T - Bottom			T						
B - Back									
Process Connection Sizes									
2 - 1 $\frac{1}{2}$ Tri-clamp				2					
4 - 2 Tri-clamp									
6 - 2 $\frac{1}{2}$ 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 Flourosilicone 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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