

Capsule Diaphragm Pressure Gauge

Model: PD3

Applications

- For the process industry, high overload safety
- Pressure measurement at very low pressures
- 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
- High overload safety up to 50 x full scale value
- Anti-glare & Anti-static window
- Excellent load-cycle stability and shock resistance
- Scale ranges vacuum up to 2.5 mbar ... 250 mbar



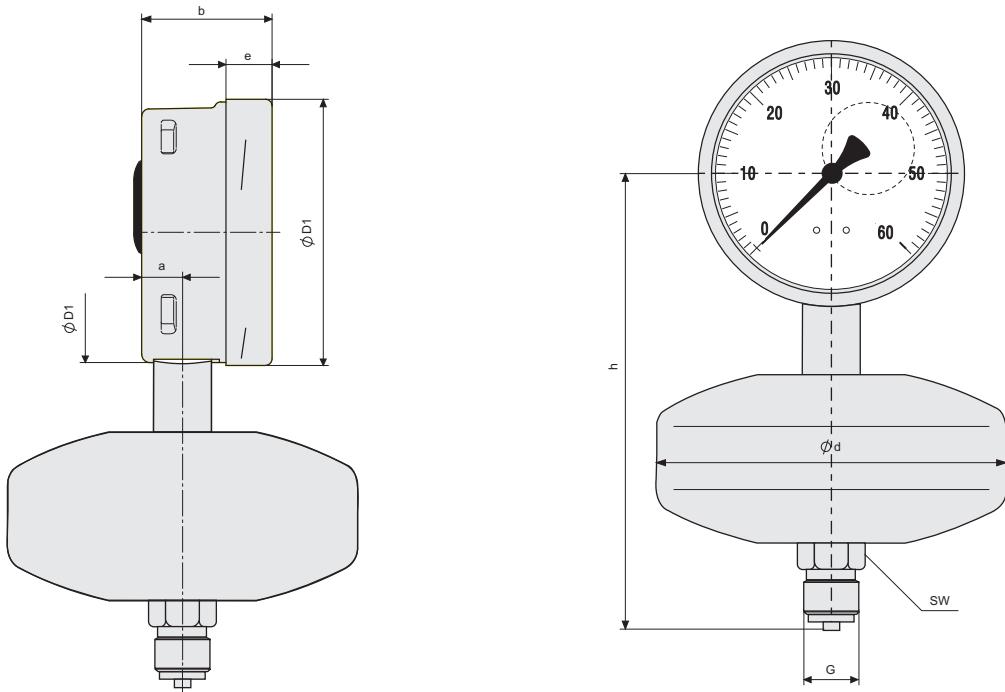
Description

■ Accuracy class	NS 100, 160: 1.6
■ Pressure element	Stainless steel 316L Hastelloy, Monel, Tantalum(option)
■ Process connection	Stainless steel 316L bottom NS 100, 160: 1/2 NPT, BSP (option)
■ Socket & connection	Threaded or open flange process connections
■ Case	Stainless steel, with blow-out disc device
■ Window	Glass, Laminated safety glass Anti-glare & Anti-static
■ Permissible temperature	Ambient: -40 ... +60 °C without liquid filling Medium: +100 °C maximum without liquid filling
■ Movement	Stainless steel
■ Pointer	Zero adjustable pointer, Aluminium, black
■ Dial	Aluminium, white, black lettering,
■ Sealing	PTFE
■ Protection	IP54
■ Range	0...2.5 mbar to 0...250mbar or all other equivalent vacuum or combined pressure
■ Pressure limitation	NS 100, 160: Steady: Full scale value Fluctuating: 0.9 x full scale value
■ Temperature error	When the temperature of the measuring system deviates from the reference temperature (+20 °C): max. ±0.6 %/10 K of full scale value

**PD3 Capsule Diaphragm Pressure Gauge**

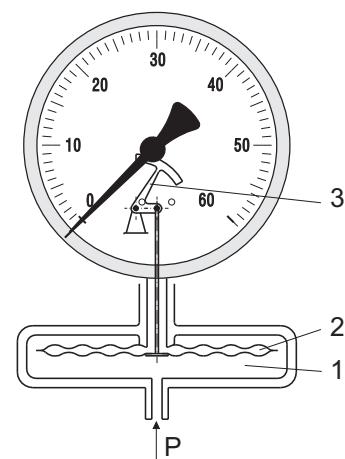
ORDERING CODE	Example: PD3	4	T	2	D	S	AT	WA	Note
Dial Size									
4-100mm(4")									
6-160mm(6")		4							
Process Connection Type									
T- Bottom			T						
Process Connection Sizes									
2 - 1/2 NPT Male NS100,160 Dial				2					
4 - G1/2 Male NS100,160 Dial									
6 - Flange Type (please mention the technical details in the note)									
8 - Customer									
Case Design									
D - Dry					D				
Process Connection									
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									
NC - NACE MR 0175 & MR0103 standard									
AN - Anti-glare & Anti - static window									
CC - Calibration certificate									
NH - Stainless steel tag wired to case									
AT - ATEX									
WA - One year warranty							WA		
HI - Higher overload safety									
CP - Capsule pressure gauge with switch contacts see data sheet Cp1 contact									
CI - Capsule pressure gauge with 4-20mA output signal									
Other									





NS	Dimensions in mm										Weight in kg
	a	b	D ₁	D ₂	d	e	G	h ±1	SW		
100	15.5	49.5	101	99	133	17.5	G 1/2 B	170	22	1.6	
160	15.5	49.5	161	159	133	b	G 1/2 B	200	22	2.1	

- Pressure-sealed measuring chamber (1) with capsule measuring element
- The capsule element (2) is pressurised from outside and moves in strokes (deflection)
- The deflection is transmitted to the movement (3) and indicated
- The overload safety is achieved through the mutually supporting surfaces of both halves of the capsule element





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