

differential pressure gauges PN 400 with double diaphragm DS 4", 6" (100-150mm)



PED 2014/68/UE ATEX 2014/34/UE

These instruments are used to measure the differential pressure of low-viscosity gaseous and liquid fluids that do not crystallize. The double-diaphragm measuring cell is equipped with a system of blocking devices that create a protective liquid layer. This layer supports the measuring element in the event of unilateral overpressure. The linear displacement of the diaphragm is converted into a rotary movement by a lever mechanism, which is then transmitted to the pointer through an amplifying movement system.

2.17.1 - Standard Model

Accuracy class: 1,6 as per EN 837.

Scale amplitude: 270°.

Static Pressure: 6000 *psi* max (400 bar).

Ambient temperature: -40...+149°F (-40...+65 °C).

Process fluid temperature: +302°F (+150 °C).

Thermal drift: ± 0,8 % every ±50°F (± 10° C) of ambient temperature

Protection degree: IP 55 as per EN 60529/IEC 529.

Socket material: AISI 316L st.st.

Elastic element: double diaphragm AISI 316L st.st/Duratherm.

Gasket: VITON and PTFE.

Case: stainless steel.

Ring: stainless steel, bayonet lock.

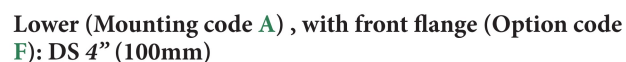
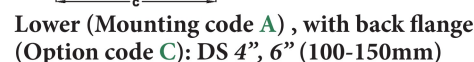
Window: tempered glass.

Movement: stainless steel.

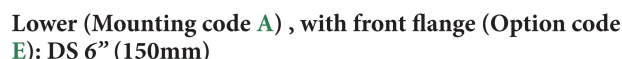
Dial: aluminium, white with black markings

RANGE	Static pressure, one side : <i>psi</i> (bar)	Static pressure, both side : <i>psi</i> (bar)
(0...0,4 bar)	3500 (250)	6000 (400)
0...10 <i>psi</i> (0...0,6 bar)	3500 (250)	6000 (400)
0...15 <i>psi</i> (0...1 bar)	3500 (250)	6000 (400)
(0...1,6 bar)	3500 (250)	6000 (400)
0...30 <i>psi</i> (0...2,5 bar)	3500 (250)	6000 (400)
0...60 <i>psi</i> (0...4 bar)	3500 (250)	6000 (400)
0...100 <i>psi</i> (0...6 bar)	3500 (250)	6000 (400)
0...160 <i>psi</i> (0...10 bar)	3500 (250)	6000 (400)

MD17



dimensions : *inches* (mm)



C - Back flange for DN100-150 instruments		L22 - Maximum pointer IP 65 on plexiglas window	(3) (6)
F - Front flange for DN100 instruments		M23 -Protection diaphragm MONEL 400	(4)
E - Front flange for DN150 instruments		R10 - Case glycerine filling. Ambient temp. $+32...+149^{\circ}F$ ($0...+65^{\circ}C$).	(6)
Electric contacts (amplitude 180°)	(1)	R11 - Case filling with silicon oil. Ambient temp. $-40...+149^{\circ}F$ ($-40...+65^{\circ}C$).	(6)
C40 - Case and ring AISI 316L st.st.		S31 - 2"pipe mounting bracket	
E30 - NACE version MR0103/MR0175 (ISO 15156)	(2)	T32 - Safety glass window	(6)
E65 - Protection degree IP 65	(6)	2D9 -Execution: ATEX : II 2GD c	
2G9 -Execution: ATEX : II 2G c	(5) (6)		

- (5) For constructive details see ATEX execution data-sheet
(6) Not available with electric contacts

Section /	Model /	Case /	Mounting /	Diameter /	Special version /	Range /	Process connection /	Options
2	17	1	A	E	---		41M - G 1/2" A M	C...E
				G			43M - 1/2" NPT M	C40...2D9
							43F - 1/2" NPT F	

