

differential pressure gauges PN 100 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.

2.16.1 - Standard Model

Accuracy class: 2,5 as per EN 837.

Scale amplitude: 180°.

Static pressure: 1500 psi max (100 bar).

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

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

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

Process connection: AISI 316L st.st.

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

Gasket: VITON and PTFE.

Case: stainless steel.

Ring: stainless steel polished, bayonet lock.

Window: glass.

Movement: stainless steel.

Dial: aluminium, white with black markings.

Pointer: aluminium, micrometric adjustable.

RANGES	mbar	mmH2O	bar	kPa	psi
0...0,4			♦		
0...0,6			♦		
0...1			♦		
0...1,6			♦		
0...2,5			♦		
0...4			♦		♦
0...6			♦		♦
0...10			♦		♦
0...15					♦
0...30					♦
0...40				♦	♦
0...60				♦	♦
0...100				♦	♦
0...160				♦	♦
0...200					♦
0...250				♦	♦
0...300					♦
0...400	♦			♦	
0...600	♦			♦	
0...1000	♦			♦	
0...1600	♦				
0...4000		♦			
0...6000		♦			
0...10000		♦			

MD16



Lower (Mounting code **A), with front flange (Option code **F**: DS 4" - 100mm; Option code **E**: DS 6" - 150mm)**

Mounting	DS	F	a	b	d	d ₁	p	L	ch	Weight lbs (kg)
Wall	E 4" (100mm)	41M G 1/2 A 43M 1/2-14 NPT	0.51 (13)	1.91 (48,5)	4.35 (110,5)	3.98 (101)	3.88 (98,5)	0.79 (20)	0.87 (22)	10.71 (4,86)
Wall	G 6" (150mm)		0.59 (15)	1.99 (50,5)	6.34 (161)	5.89 (149,5)	3.97 (101)	0.79 (20)	0.87 (22)	11.79 (5,35)
Panel	G 6" (150mm)		1 (25,5)	1.99 (50,5)	6.34 (161)	5.89 (149,5)	3.97 (101)	0.79 (20)	0.87 (22)	11.35 (5,15)

C - Back flange	P02 - Oxygen service	(5)
F - Front flange for DN100 instruments	R10 - Glycerine filled case. Ambient temp. +32...+149°F (0...+65 °C).	(8)
E - Front flange for DN150 instruments	R11 - Silicon oil filled case. Ambient temp. -40...+149°F (-40...+65 °C).	(6) (8)
C40 - AISI 316L st.st. case and ring	S31 - 2" pipe mounting bracket	
E30 - NACE MR0175 version (ISO 15156)	T01 - Tropicalization	(2)
E65 - Protection IP65	T32 - Safety glass window	(3) (8) (8)
L22 - Maximum pointer IP65	2G9 - ATEX versions : II 2G c	(4) (8) (9)
M23 - MONEL 400 diaphragms	2D9 - ATEX versions : II 2GD c	(8) (9)
Mechanical electric contacts	054 - Centre-to-centre distance "T" = 54 mm	(1)

- ## “HOW TO ORDER” SEQUENCE

2	16	1	A	E	---	41M - G 1/2 A M	C, E
				G		43M - 1/2" NPT M	C40...054
						23F - 1/4" NPT F	

