MD17

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

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

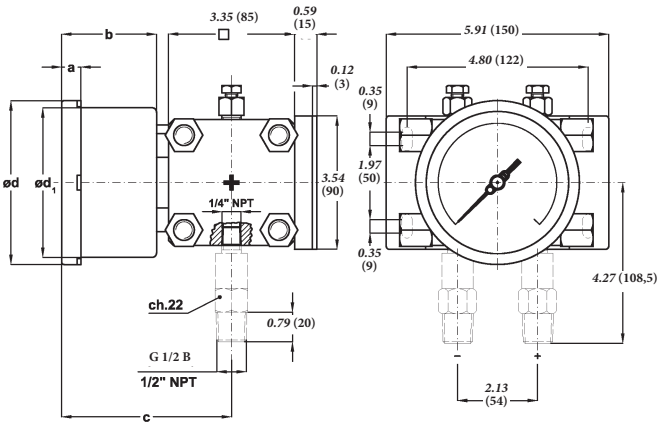
These instruments are used to measure the differential pressure of low-viscosity gaseous and liquid fluids that do not crystallize. The double-diaphragm measuring cell is equipped with a system of blocking devices that create a protective liquid layer. This layer supports the measuring element in the 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

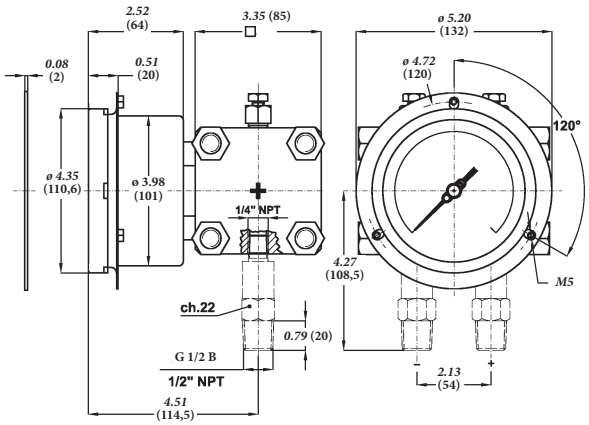
Accuracy class: 1,6 as per EN 837.
Scale amplitude: 270°.
Static Pressure: *6000 psi max* (400 bar).
Ambient temperature: *-40...+149°F* (-40...+65 °C).
Process fluid temperature: *+302°F* (+150 °C).
Thermal drift: ± 0,8 % every *±50°F* (± 10° C) of ambient temperature
Protection degree: IP 55 as per 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: stainles steel.
Dial: aluminium, white with black markings

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



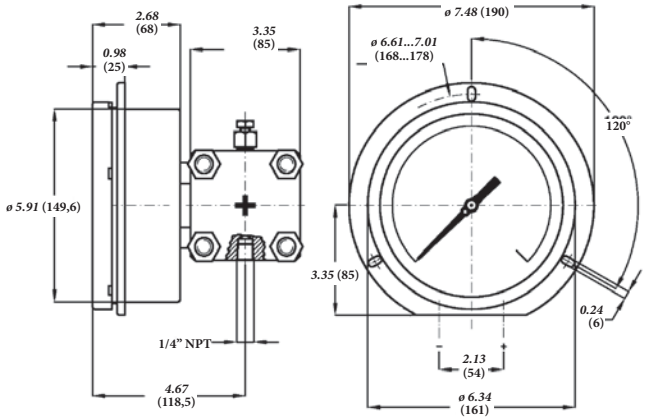
Lower (Mounting code A) , with back flange (Option code C): DS *4", 6"* (100-150mm)



Lower (Mounting code A) , with front flange (Option code F): DS *4"* (100mm)

DS	a	b	c	d	d_1	Weight : lbs (kg)
E *4"* (100)	*0.51"* (13)	*2.52"* (64)	*4.51"* (114,5)	*4.35"* (110,6)	*3.97"* (101)	*11.9"* (5,4)
G *6"* (150)	*0.59"* (15)	*2.68"* (68)	*4.67"* (118,5)	*6.33"* (161)	*5.88"* (149,6)	*12.78"* (5,8)

dimensions : *inches* (mm)



Lower (Mounting code A) , with front flange (Option code E): DS *6"* (150mm)

OPTIONS

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°F* (0...+65 °C). (6)
	Electric contacts (amplitude 180°) (1)	**R11** -	Case filling with silicon oil. Ambient temp. *-40...+149°F* (-40...+65 °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)		

(1) Codes, descriptions and wiring on data-sheet MN14
(2) To be ordered with Monel 400 or Hastelloy C diaphragms
(3) To be ordered with plexiglas window
(4) Ac curacy 2,5 secondo EN 837
(5) For constructive details see ATEX execution data-sheet
(6) Not available with electric contacts

"HOW TO ORDER" SEQUENCE

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

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