

## differential pressure gauges with double Bourdon tube, DS 4" (100mm)



PED 2014/68/UE

These instruments are designed to measure the differential pressure of gaseous or low-viscous fluids that do not crystallise. They can be assembled to a diaphragm seal when corrosive, high-temperature and high-viscous media are involved.

### 2.18.1 - Standard Model

**Accuracy class:** 1,6 as per EN 837. (2,5 for range 0...0,4 bar)  
**Ambient temperature:** -13...+149°F (-25...+65 °C.)  
**Process fluid temperature:** max. +212°F (+100 °C);  
 max +149°F (+65 °C) when filled.  
**Protection:** IP 55 as per EN 60529/IEC 529 (IP 65 when filled).  
**Thermal drift:** ± 0,8% every ± 50°F (10 °C) of ambient temperature.  
**Process connection:** AISI 316 st.st.  
**Elastic element:** AISI 316 L. st.st. Bourdon tube, seamless.

**Case:** st.st.

**Ring:** st.st. polished, bayonet lock.

**Window:** tempered glass.

**Movement:** stainless steel.

**Dial:** aluminium, white with black markings.

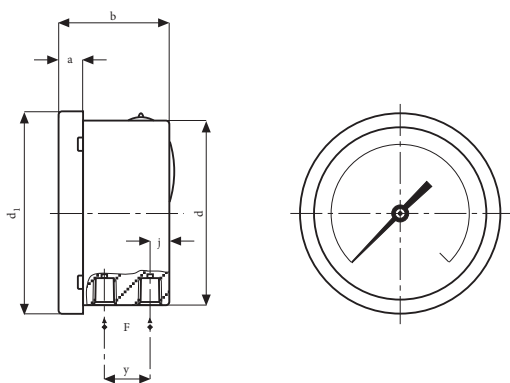
**Special dial:** ranges different from standard, custom artworks available on request.

**Pointer:** adjustable, aluminium, black.

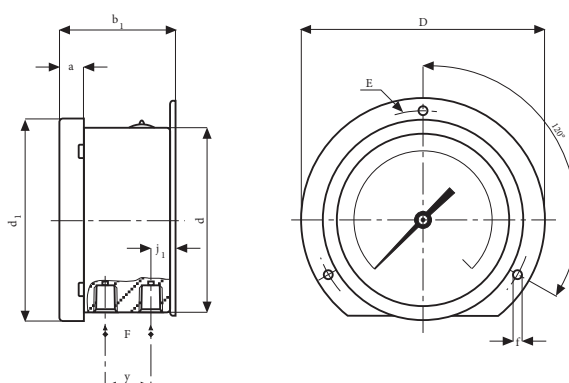
Differential $\Delta p$ (1) : <i>psi</i> (bar)	Static pressure, both sides or side " + " : <i>psi</i> (bar)	Static pressure, side " - " : <i>psi</i> (bar)
0...6 (0...0,4)	10.44 (0,72)	8.70 (0,6)
0...10 (0...0,6)	23.21 (1,6)	14.50 (1)
0...16 (0...1)	58 (4)	23.21 (1,6)
0...25 (0...1,6)	116 (8)	29 (2)
0...40 (0...2,5)	181.30 (12,5)	43.51 (3)
0...60 (0...4)	232 (16)	72.52 (5)
0...100 (0...6)	348 (24)	145 (10)
0...160 (0...10)	580.15 (40)	232 (16)

Damping liquids	Ambient temperature
Glycerine 98%	+60...+150 °F (+15...+65 °C)
Silicone oil	-50...+150 °F (-45...+65 °C)

(1) Other units of measurement upon request.



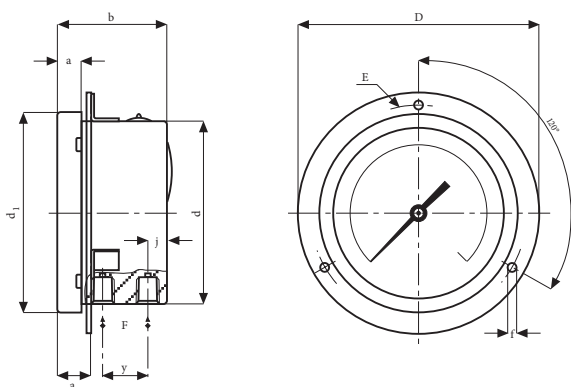
**A - Lower connection**



**Lower (Mounting code A) , with back flange (Option code C)**

F	a	a <sub>1</sub>	b	b <sub>1</sub>	d	d <sub>1</sub>	D	E	f	j	j <sub>1</sub>	y	Weight : lbs (kg)
<b>23F</b> 1/4-18 NPT	0.51 (13)	0.67 (17)	2.48 (63)	2.64 (67)	3.98 (101)	4.35 (110,6)	5.28 (134)	4.74 (120,5)	0.24 (6)	0.54 (13,8)	0.70 (17,8)	0.91 (23)	2.20 (1)

dimensions : inches (mm)



**Lower (Mounting code A) , with front flange (Option code F)**

**OPTIONS**

<b>C</b> -	Back flange for DN100-150 instruments
<b>F</b> -	Front flange for DN100 instruments
<b>C40</b> -	AISI 316L st.st. case and ring
<b>R10</b> -	Case glycerine filling. Ambient temp. +32...+149°F (0...+65 °C)
<b>R11</b> -	Case filling with silicon oil. Ambient temp. -40...+149°F (-40...+65 °C)
<b>T01</b> -	Tropicalization
<b>T31</b> -	Plastic window
<b>T32</b> -	Safety glass window

**“HOW TO ORDER” SEQUENCE**

Section / Model / Case / Mounting / Diameter / Range / Process connection / Options  
**2 18 1 A E 23F C, F C40...T32**