



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



PED 2014/68/UE

These instruments are used to check filter obstructions, pressure drops, flow rate differences, level, measurements and generally a difference between two pressures of one or different circuits. The measuring element is formed by two bourdon tubes, acting on the same movement. In this way the pointer shows only the difference between the two pressures corresponding respectively to upstream and downstream pressure of the circuit.

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 Δp (1) : psi (bar)	Static pressure, both sides or side "+": psi (bar)	Static pressure, side "-": psi (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.



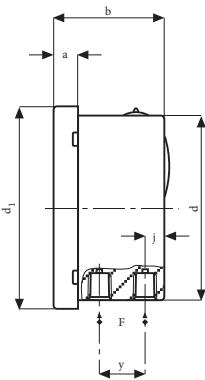
ISO 9001 : 2008

Cert. nr. 0433/6

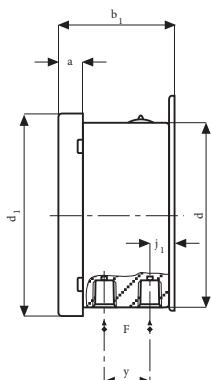
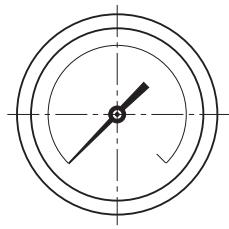
differential pressure gauges with double Bourdon tube, DS 4" (100mm)

MD18

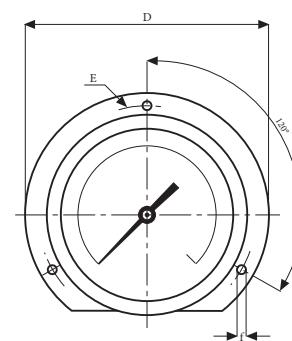
RC4-16/14



A - Lower connection

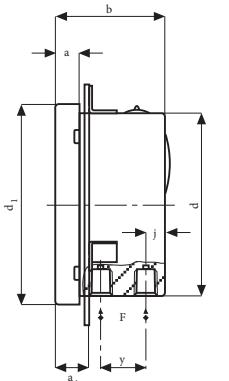


**Lower (Mounting code A) , with back flange
(Option code C)**



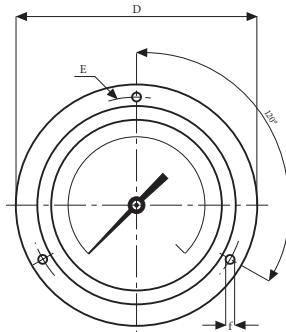
F	a	a ₁	b	b ₁	d	d ₁	D	E	f	j	j ₁	y	Weight : lbs (kg)
23F 1/4-18 NPT	0.51 (13)	0.67 (17)	2.48 (63)	2.64 (67)	3.98 (101)	4.35 (110,6)	5.28 (134)	4.74 (120,5)	0.24 (6)	0.54 (13,8)	0.70 (17,8)	0.91 (23)	2.20 (1)

dimensions : inches (mm)



OPTIONS

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



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

"HOW TO ORDER" SEQUENCE

Section / Model / Case / Mounting / Diameter / Range / Process connection / Options

**2 18 1 A E 23F C, F
C40...T32**

Copyright © Nuova Fima srl. All rights reserved. Any part of this publication should not be reproduced without a written Nuova Fima's srl approval

NUOVA FIMA USA Inc.

www.nuovafima.com - e-mail: infousa@nuovafima.com
4123 Hollister, Suite G - TX 77080 Houston
TEL. +1 713.690.9800 - FAX +1 713.690.9803

-2-

NUOVA FIMA srl

www.nuovafima.com - e-mail: info@nuovafima.com
P.O. BOX 58 - VIA C. BATTISTI 59 - 28045 INVORIO (NO) ITALY
TEL. +39 0322 253200 - FAX +39 0322 253232



IN ORDER TO IMPROVE THEIR PRODUCTION, MESSRS. NUOVA FIMA RESERVE THE RIGHT TO THEMSELVES TO MAKE ALL THE MODIFICATIONS THAT THEY DEEM INDISPENSABLE AT ANYTIME. UPDATED DATA-SHEETS ARE AVAILABLE ON SITE www.nuovafima.com