

bourdon tube "solid-front" pressure gauges NACE MR0103/MR0175 versions DS 4", 6" (100-150mm)









PED 2014/68/UE ATEX 2014/34/UE TP TO

These instruments are built in conformity with the construction and safety specifications of EN 837-1/S3 e ASME B40.1. In case of leaks or break of the elastic element, the operator is protected by a solid separating wall placed on the front of the instrument and by the blow out back. They are usually used in the petrochemical and natural gas industry; they are built to resist to the most severe conditions created by H2S, by the environment and for those fluids, which have high viscosity and do not crystallize. The TIG welding between the case and the process socket, strengthens the instrument and assures a better tight in case of dampening fluid The advantages of filling the case of the instrument with a dampening fluid are: reduced pointer fluctuation, reduced wear of rotating parts of the movement when pulsant vibrations and pulsations occur. Moreover, condensation and corrosive atmospheres which could damage the internal, parts are prevented.

1.40.1 - Standard Model

Design: EN 837-1, ISO 17945, ISO 15156-3. **Safety designation:** S3 as per EN 837-2.

Ranges: from 0...15 to 0...10000 psi; (from 0...1 to 0...600 bar or other

equivalent units).

Accuracy class: 1 as per EN 837-1.

Ambient temperature:

-4...+149 °F (-20...+65 °C), IP55 housing (IEC 529);

-63...+149 °F (-53...+65 °C), vented IP65/67 housing (IEC 529).

Process fluid temperature: -40...+302°F (-40...+150 °C).

Thermal drift: ±0,4 %/10 °C of range (starting from 68°F - 20°C).

Working pressure:

100% of FSV for static pressure; 90% of FSV for pulsating pressure. Overpressure: 30% of FSV (max 12 h). Socket material: AISI 316L or MONEL 400. Bourdon tube: MONEL 400 seamless tube

Leak test: Helium Test leak search, (max 1x10⁻⁶ mbar x l x s⁻¹).

Case, ring and blow out disk: DN100 in AISI 316L st.st.

DN 150 in AISI 304 st.st. (available in AISI316L st.st. upon request)

Window: safety glass.

Movement: stainless steel with internal limit stops.

Dial: aluminium, white with black markings.

Pointer: adjustable, aluminium, black.

1.40.2 - Fillable Model - Lower connection only

Ambient temperature: -4...+149 °F (-20...+65 °C), IP 65/67 housing (IEC 529).

Other features: as Standard Model.

1.40.3 - Filled Model - Lower connection only

Filling liquid: glycerina 98%, silicon oil or Fluorinated fluid.

Ambient temperature:

+32...+149 °F (0...+65 °C) glycerine filling;

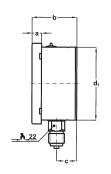
-4...+149 °F (-20...+65 °C) silicon oil filling and fluorinated fluid filling; -76...+149 °F (-60...+65 °C) low temperatures special silicon oil filling.

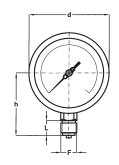
Process fluid temperature: $\max +149^{\circ}F$ (+65 °C). Protection degree: IP 65/67 as per IEC 529.

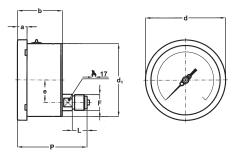
Other features: as Standard Model



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A - LOWER CONNECTION

D - BACK CONNECTION, Standard model only

Mounting	DS	F	a	b	с	d	d ₁	e	h	p	L	Weight (1)
Lower	E	41M - G 1/2 A	0.51"	2.46"	1.16"	4.35"	3.97"		3.38"		0.78"	1.43 lbs (1)
	4" (100)	43M - 1/2-14 NPT	(13)	(62,5)	(29,5)	(110,6)	(101)		(86)		(20)	(0,65 kg)
	G	41M - G 1/2 A	0.59"	2.51"	1.18"	6.33"	5.92"		4.60"		0.78"	2.64 lbs (1)
	6" (150)	43M - 1/2-14 NPT	(15)	(64)	(30)	(161)	(150,5)		(117)		(20)	(1,2 kg)
Back	E	41M - G 1/2 A	0.51"	2.46"		4.35"	3.97"	1.22"		3.75"	0.78"	1.54 lbs
	4" (100)	43M - 1/2-14 NPT	(13)	(62,5)		(110,6)	(101)	(31)		(95,5)	(20)	(0,70 kg)
	G	41M - G 1/2 A	0.59"	2.51"		6.33"	5.92"	1.22"		3.77"	0.78"	2.53 lbs
	6" (150)	43M - 1/2-14 NPT	(13)	(64)		(161)	(150,5)	(31)		(96)	(20)	(1,15 kg)

dimensions: inches (mm)

(1) add 0.73 lbs (0,33 kg) for DS 4" (100) and 1.76 lbs (0,8 kg) for DS 6" (150), when filled

OPTIONS

Model	standard	fillable	filled
C40 - Case, ring and blow out disk in AISI 316L st. st. (compulsory option for DN100)	*	•	•
C - Back flange, for lower connection pressure gauges	*	•	•
E - Front flange, for back connection pressure gauges	*		
2G2 - ATEX II 2G h - Dry - A.t20+60 °C (1)	•		
2D2 - ATEX II 2GD h - Dry/Silicon oil \$10 - A.t20+60 °C (1)			♦ (2)
2D0 - ATEX II 2GD h - Glycerine filled - A.t. 0+60 °C (1)			•
2D5 - ATEX II 2GD h - Vented housing version ECV - A.t53+60 °C (1)	◆ (3) (4)		
2D6 - ATEX II 2GD h - Special silicon oil S60 - A.t60+60 °C (1)			♦ (5)
E07 - Socket material MONEL 400	•	•	•
E30 - Certification NACE MR0103 - ISO 17945	•	•	•
E75 - Certification NACE MR0175 - ISO 15156-3	•	•	•
P03 - Compensating device for DS 4" model (100 mm), lower mounting		•	•
S10 - Silicone oil filling			•
E67 - Protection degree IP65/67	•		
S60 - Special silicone oil filling for low temperatures- A.t60+65 °C			•
ECV -Vented housing version - IP65/67 -A.t53+65 °C (3) (6)	•		
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- (1) Please see catalogue sheet concerning the ATEX version
- (2) To be ordered with S10 option
- (3) To be ordered with E67 option

- (4) To be ordered with ECV option
- (5) To be ordered with S60 option

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(6) with corrosive atmospheres please select the filled model

"HOW TO ORDER" SEQUENCE

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

C...E 1 1 E **41M** 2 D G **E07** 2G1...T01 43M 3

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