

bourdon tube "solid-front" pressure gauges NACE MR0103/MR0175 (ISO 15156) version DS 4", 6" (100-150mm)

MGS40



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 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.

1.40.1 - Standard Model

Design: EN 837-1, ISO 15156.

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: -13...+149°F (-25...+65 °C).

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

Thermal drift: ±0,4 % / 10 K 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).

Protection degree: IP 55 as per IEC 529.

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: stainless steel

Ring: stainless steel, bayonet lock.

Blow out disk: stainless steel.

Window: safety glass.

Movement: stainless steel with internal limit stops for minimum and maximum pressure.

Dial: aluminium, white with black markings.

Pointer: adjustable, aluminium, black

1.40.2 - Fillable Model - Lower connection only

Protection degree: IP 67 as per 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:

+59...+149°F (+15...+65 °C) with glycerine filling;

-49...+149°F (-45...+65 °C) with silicon oil filling;

-76...+149°F (-60...+65 °C) with fluorinated fluid filling.

Process fluid temperature: +149°F (+65 °C).

Protection degree: IP 67 as per IEC 529.

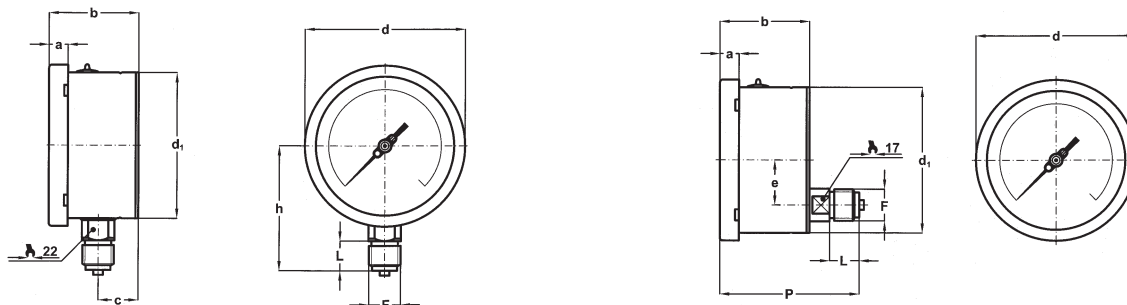
Other features: as Standard Model



For use in potentially explosive atmospheres, instruments must be designed in conformity to ATEX 94/9/CE. This version is shown on separate data sheet available on request.

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NACE MR0103/MR0175 (ISO15156) version, DS 4", 6" (100-150mm)**

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A - LOWER CONNECTION

**D - BACK CONNECTION,
Standard model only**

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

dimensions : inches (mm)

(1) add 0.72 lbs (0,33 kg) for DS 4" (100) and 1.65 lbs (0,75 kg) for DS 6" (150), when filled

OPTIONS

Model	standard	fillable	filled
C - Back flange, for lower connection pressure gauges	◆	◆	◆
E - Front flange, for back connection pressure gauges	◆	◆	◆
2G1 - ATEX II 2G c version	See the ATEX pressure gauges data-sheet for technical details		
2D1 - ATEX II 2GD c version			
C40 - AISI 316 st. st. case and ring	◆	◆	◆
E07 - Socket material MONEL 400	◆	◆	◆
E30 - NACE MR0103/MR0175 (ISO 15156) certificate	◆	◆	◆
F30 - Fluorinated fluid filling			◆
P01 - Suitable for filling with silicone/Fluorinated fluid		◆	
P03 - Compensating device, for DS 4" (100mm) only	◆	◆	◆
S10 - Silicone filling			◆
T01 - Tropicalization	◆	◆	◆

"HOW TO ORDER" SEQUENCE

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

1 40 1 A E -- 41M C...E
2 D G E07 43M 2G1...T01
3