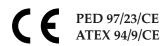
bourdon tube pressure gauges HEAVY WORK DS 4", 6" (100-150mm)

MGS19





These instruments are designed for use in food, beverage, pharmaceutical, cryogenics, chemical and petrochemical processing industries, and in conventional and nuclear power plants. They are built to resist the most severe operating conditions created by the ambient environment and the process medium. The high strength of the sensing element makes these instrument suitable to withstand high overpressure up to 4 times the full scale value and together with the case filling, they are suitable to high dynamic pulsating pressure. An Argonarc welded case/socket strengthens the whole construction.

1.19.1 - Standard Model

Design: EN837-1.

Safety designation: S1 as per EN 837-2.

Ranges: from 0...15 to 0...15000 psi (from 0...1 to 0...1000 bar or

equivalent units).

Accuracy class: 1 according to EN 837-1. **Ambient temperature:** -13...+149°*F* (25...+65 °C). **Process fluid temperature:** -40...+302°*F* (-40...+150 °C).

Thermal drift: $\pm 0.4 \% / 10 \text{ K}$ of range (starting from $68 \degree F$ - $20 \degree C$).

Working pressure:

100% of FSV for static pressures; 90% of FSV for pulsating pressures.

Overpressures: up to 400% of FSV (see tables at pag. 2)

Protection degree: IP 55 according to IEC 529.

Socket material: in AISI 316L.

Bourdon tube: in AISI 316L steamless tube.

Case: stainless steel.

Ring: stainless steel, bayonet lock.

Window: safety glass.

Movement: stainless steel with internal limit stops for minimum

and maximumpressure.

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

1.19.2 - Fillable Model

Protection degree: IP 67 secondo IEC 529. **Other features:** as Standard Model.

1.19.3 - Filled Model

Accuracy Class: 1,6 as per EN 837-1.

Damping liquid: gliycerine 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.

OXYGEN INSTRUMENTS

To suit criteria of standard EN837-1/2, the pressure gauges for oxygen service must be solid- front type (with baffle wall and safety bursting back).

Pressure gauges suitable for this service are detailed on MGS21 sheet.



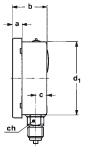
For use in potentially explosive atmosphere, instruments must be designed in conformity to ATEX 94/9/CE. This version is shown in separate data sheet available on request.

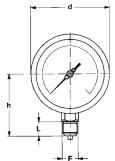


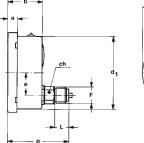


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MGS19









A - LOWER CONNECTION

D - BACK CONNECTION

Mounting	DS	F	a	b	с	d	d ₁	e	h	p	L	Weight (1)
	E	41M - G 1/2 A	0.51"	1.90"	0.59"	4.35"	3.97"		3.38"		0.78"	1.16 lbs
Lower	4" (100)	43M - 1/2-14 NPT	(13)	(48,5)	(15)	(110,6)	(101)		(86)		(20)	(0,53 kg)
Lower	G	41M - G 1/2 A	0.59"	1.98"	0.61"	6.33"	5.88"		4.60"		0.78"	2.24 lbs
	6" (150)	43M - 1/2-14 NPT	(15)	(50,5)	(15,5)	(161)	(149,6)		(117)		(20)	(1,02 kg)
	E	41M - G 1/2 A	0.51"	1.90"		4.35"	3.97"	1.22"		3.42"	0.78"	1.14 lbs
Back	4" (100)	43M - 1/2-14 NPT	(13)	(48,5)		(110,6)	(101)	(31)		(87)	(20)	(0,52 kg)
Dack	G	41M - G 1/2 A	0.59"	1.98"		6.33"	5.88"	1.22"		3.36"	0.78"	2.09 lbs
	6" (150)	43M - 1/2-14 NPT	(15)	(50,5)		(161)	(149,6)	(31)		(85,5)	(20)	(0,95 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

RANGES

ar	Ranges	01	01,6	02,5	04	06	010	016	025	040	060	0100	0160	0250	0400	0600	01000
þ	Overpressure	4	6	10	16	25	40	48	<i>7</i> 5	80	120	200	320	500	800	1200	1600

Si		015	030	060	0100	0160	0200	0300	0400	0600	01000	01500	02000	03000	04000	06000	010000	015000
a	Overpressure	60	120	240	400	480	600	900	1000	1200	2000	3000	4000	6000	8000	10000	15000	20000

VACUUM AND COMPOUND

	Ranges, bar	-10	-10,6	-11,5	-13	-15	-19	-115	-124
ĺ	Overpressure, bar	3	5	9	15	23	39	47	75

Ranges, psi (1)	-300	-3015	-3030	-30150
Overpressure, psi	45	100	125	450

(1) Vacuum measurement unit: InHg

OPTIONS

Model	standard	fillable	filled					
B - "U"-clamp, for back connection pressure gauges	+	+	*					
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 datasheet for technical details							
2D1 - ATEX II 2GD c version	for technical details							
C40 - AISI 316 st. st. case and ring	+	+	+					
P01 - Suitable for filling with silicone		+						
S10 - Silicone filling			+					
F30 - Fluorinated fluid filling			+					
T01 - Tropicalization	+	+	*					

-2-

"HOW TO ORDER" SEQUENCE

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

B, C, E 1 41M 2 D G 2G1...T01 43M 3



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