

bourdon tube pressure gauges

HEAVY WORK

DS 4", 6" (100-150mm)



PED 2014/68/UE ATEX 2014/34/UE

These instruments are designed for use in chemical and petrochemical processing industries, and in conventional power plants.

They are built to resist the most severe operating conditions created by the 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...10000 psi (from 0...1 to 0...600 bar or equivalent units).

Accuracy class: 1 according to EN 837-1.

Ambient temperature:

-40...+149 °F (-40...+65 °C), IP55 housing (EN 60529/IEC 529);

-58...+149 °F (-50...+65 °C), vented IP67 housing (EN 60529/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 pressures;

90% of FSV for pulsating pressures.

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

Socket material: in AISI 316L.

Bourdon tube: in AISI 316L stainless tube.

Case: stainless steel.

Ring: stainless steel, bayonet lock.

Window: safety glass.

Movement: stainless steel with internal limit stops.

Dial: aluminium, white with black markings.

Pointer: adjustable, aluminium, black.

1.19.2 - Fillable Model

Ambient temperature: -40...+149 °F (-40...+65 °C), IP 67 housing (EN 60529/IEC 529).

Other features: as Standard Model.

1.19.3 - Filled Model

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

Damping liquid: glycerine 98% or silicon oil.

Ambient temperature:

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

-40...+149°F (-40...+65 °C) with silicon oil filling or fluorinated fluid filling.

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

Protection degree: IP 67 as per EN 60529/IEC 529.

Other features: as Standard Model.

OXYGEN INSTRUMENTS

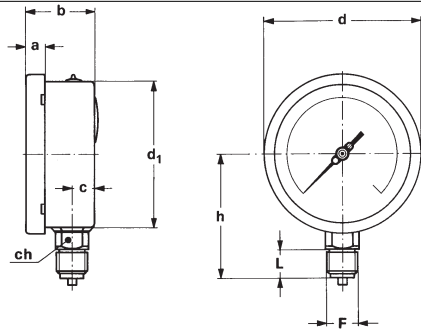
To suit criteria of standard EN837-1/2, the pressure gauges for oxygen service must be solid- front type (with baffle wall and safety bursting back).

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

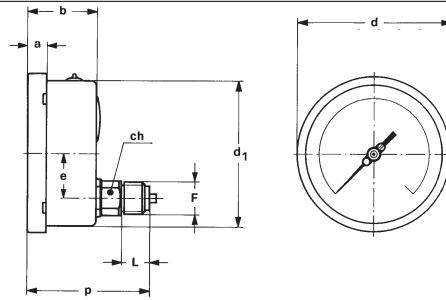
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HEAVY WORK, DS 4", 6" (100-150mm)

MGS19



A - LOWER CONNECTION



D - BACK CONNECTION

Mounting	DS	F	a	b	c	d	d ₁	e	h	p	L	ch	Weight (1)
Lower	E 4" (100)	41M - G 1/2 A 43M - 1/2-14 NPT	0.51" (13)	1.90" (48,5)	0.59" (15)	4.35" (110,6)	3.97" (101)		3.38" (86)		0.78" (20)	0.87" (22)	1.16 lbs (0,53 kg)
	G 6" (150)	41M - G 1/2 A 43M - 1/2-14 NPT	0.59" (15)	1.98" (50,5)	0.61" (15,5)	6.33" (161)	5.88" (149,6)		4.60" (117)		0.78" (20)	0.87" (22)	2.24 lbs (1,02 kg)
Back	E 4" (100)	41M - G 1/2 A 43M - 1/2-14 NPT	0.51" (13)	1.90" (48,5)		4.35" (110,6)	3.97" (101)	1.22" (31)		3.42" (87)	0.78" (20)	0.87" (22)	1.14 lbs (0,52 kg)
	G 6" (150)	41M - G 1/2 A 43M - 1/2-14 NPT	0.59" (15)	1.98" (50,5)		6.33" (161)	5.88" (149,6)	1.22" (31)		3.36" (85,5)	0.78" (20)	0.87" (22)	2.09 lbs (0,95 kg)

dimensions : inches (mm)

(1) add 0.72 lbs (0,33 kg) for DS 4" (100) and 1.65 lbs (0,78 kg) for DS 6" (150), when filled

RANGES

bar (1)	Ranges	0...1	0...1,6	0...2,5	0...4	0...6	0...10	0...16	0...25	0...40	0...60	0...100	0...160	0...250	0...400	0...600
	Overpressure	4	6	10	16	25	40	48	75	80	120	200	320	500	800	1200

psi	Ranges	0...15	0...30	0...60	0...100	0...160	0...200	0...300	0...400	0...600	0...1000	0...1500	0...2000	0...3000	0...4000	0...6000	0...10000
	Overpressure	60	120	240	400	480	600	900	1000	1200	2000	3000	4000	6000	8000	10000	15000

bar (1)	Ranges	-1...0	-1...0,6	-1...1,5	-1...3	-1...5	-1...9	-1...15	-1...24
	Overpressure	3	5	9	15	23	39	47	75

psi	Ranges (2)	-30...0	-30...15	-30...30	-30...150
	Overpressure	45	100	125	450

(1) Available measurement units kPa, MPa, kg/cm²

(2) 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 data-sheet for technical details		
2D1 - ATEX II 2GD c version			
C40 - AISI 316L st. st. case, ring and blow out disk	◆	◆	◆
P01 - Suitable for filling with silicone		◆	
S10 - Silicone filling			◆
ECV - Vented housing version, Ambient temperature -50...+65 °C (1) (2)			
E67 - Protection degree IP67 (3)	◆		
T01 - Tropicalization	◆	◆	◆

(1) to be ordered with E67 option

(2) not adjustable pointer

(3) to be ordered with ECV option

"HOW TO ORDER" SEQUENCE

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

1 19 1 A E 41M B, C, E
2 D G 43M 2G1...T01
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