

safety pressure gauges "solid-front" all stainless steel construction DS 4", 6" (100-150mm)









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

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 failure 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 food, process, pharmaceutical, petrochemical industries and in conventional and nuclear power plants. 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 may damage the internal components of the instrument, are prevented.

1.20.1 - Standard Model

Design: EN837-1.

Safety designation: S3 as per EN 837-2.

Ranges: from 0...15 to 0...30000 psi (from 0...0,6 to 0...1600 bar or

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 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.

Over pressure limit: 30% of FSV (max 12 hours).

Socket material: AISI 316L st.st.

Bourdon tube, seamless tube: AISI 316L st.st. for pressure ranges up to 20000 psi (0...1000 bar); Duplex st.st for range \geq 20000 psi (0...1400 bar)

Case: stainless steel.

Ring: stainless steel, bayonet lock.

Blow out disk: stainless steel.

Window: safety glass (with external zero adjustement on request).

Movement: stainless steel with internal limit stops. **Dial:** aluminium, white with black markings. **Pointer:** adjustable, aluminium, black.

1.20.2 - Fillable Model - Lower connection only

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

Pointer: not adjustable, aluminium, black. **Other features:** as Standard Model.

1.20.3 - Filled Model - Lower connection only

Ranges: from 0...15 to 0...30000 psi (from 0...1 to 0...1600 bar or equivalent units)

Damping liquid: glycerine 98%, silicon oil or fluorinated fluid.

Ambient temperature:

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

-4...+149 °F (-20...+65 °C) with silicon oil filling and fluorinated fluid filling:

-76...+149 °F (-60...+65 °C) with special silicon oil filling.

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

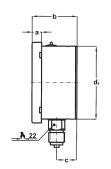
Protection degree: IP 67 as per IEC 529. **Pointer:** not adjustable, aluminium, black.

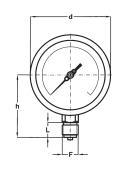
INSTRUMENTS FOR OXYGEN - Glicerine or silicone should not be used with highly oxidizing agents such as oxygen, chlorine, nitric acid or hydrogen peroxide, because of danger of spontaneous chemical reaction, inflammability or explosion. The use of fluorinates fluid is recommended in these cases.

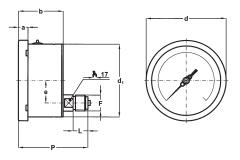


MGS20

all stainless steel construction, DS4", 6" (100-150mm)







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
	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"		0.59"		0.78"	2.64 lbs
	6"(150)	43M - 1/2-14 NPT	(15)	(64)	(30)	(161)	(150,5)		(15)		(20)	(1,2 kg)
Back	Е	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	(15)	(64)		(161)	(150,5)	(31)		(96)	(20)	(1,15 kg)

dimensions: inches (mm)

(1) add 0.95 lbs (0,43 kg) for DS 4" (100) and 1.76 lbs (0,8 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 h - Dry - T.a20+60 °C				
2D1 - ATEX II 2GD h - Dry/Silicon oil \$10 - T.a20+60 °C				
2D100 - ATEX II 2GD h - Glycerine filled - T.a. 0+60 °C	Constructive characte	eristics and ordering guide ant ATEX version data sh	please refere to the	
2D153 - ATEX II 2GD h - Vented housing version ECV - T.a53+60 °C	recer	um 111 121 version umu sin		
2D160 - ATEX II 2GD h - Special silicon oil S60 - T.a60+60 °C (8)				
C40 - AISI 316L st. st. case, ring and blow out disk	•	•	•	
K06 - Accuracy class: 0,6 as per EN 837-1 (1)	•	•		
P02 - Oxygen service (4)	♦ (2)		♦ (3)	
P03 - Compensating device, for DS 4" (100 mm) only, lower mounting	•	•	•	
610 - Silicone oil filling - IP67 - T.a20+65 °C			•	
E65- Protection degree IP65 (7)	•			
S60 - Special silicone oil filling - IP67 - T.a60+65 °C			•	
ECV -Vented housing version - IP65 - T.a53+65 °C (5)	•			

- (1) For pressure ranges up to 6000 psi (400 bar). Not available for receivers.
- (2) to be ordered with instruments suitable for fluorinated fluid filling
- (3) to be ordered with fluorinated fluid filled instruments
- (4) For pressure ranges up to 15000 psi (1000 bar)

- (5) to be ordered with E65 option
- (6) lower mounting and not adjustable pointer
- (7) to be ordered with ECV option
- (8) to be ordered with special silicon oil option S60

"HOW TO ORDER" SEQUENCE

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

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

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