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

MGS21





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 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. The solid-front version of these instruments is built in accordance with safety specifications of EN 837-1 and ASME B40.1. The safety construction consists of a solid separating wall in stainless steel, placed between the dial and the elastic element and a blow out back which is released from the case whenever an internal pressure, due to leaks, is created or the elastic element is broken.

1.21.1 - Standard Model

Design: EN 837-1.

Safety designation: S3 as per EN 837-2.

Campi scala: from 0...15 to 10000 psi; (from 0...1 to 0...600 bar or

other equivalent units)

Accuracy class: 1 as per 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: $\pm 0.4 \% / 10 \degree \text{C}$ of range (starting from $68 \degree F - 20 \degree \text{C}$).

Working pressure:

100% del FSV for static pressure; 90% del FSV for pulsating pressure.

Overpressure limit: 400% of FSV (see table at pag. 2)

Socket material: AISI 316L st.st.

Bourdon tube: AISI 316L st.st. steamless tube

Case: stainless steel.

Ring: stainless steel, bayonet lock.

Blow out disc: stainless steel.

Window: safety glass.

Movement: stainless steel with internal limit stop.

Dial: aluminium, white with black markings

Pointer: adjustable, aluminium, black.

1.21.2 - Fillable Model - Lower connection only

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

Other features: as Standard Model.

1.21.3 - Filled Model - Lower connection only

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

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

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: max +149°F (+65°C).

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

Window: tempered glass.

Other features: as Standard Model.

OXYGEN INSTRUMENTS

Glycerine and silicon oil should not be used with highly oxydizing agents as oxygen, chlorine, nitric acid or hydrogrn peroxide because of danger of spontaneous chemical reaction, inflammability or explosion. The use of fluorinates fluid is recommended in these cases.



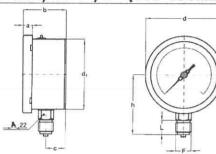
For use in potentially explosive atmospheres, instruments must be designed in conformity to ATEX 94/9/CE. This version is shown on separate data sheet available on request



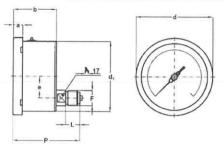


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D - BACK CONNECTION

(31) 1.22" (31) nd 1.76 lbs (0,8 kg) 060 0100 0 120 200 3	p L 0.78 (20) 0.78 (20) 3.75" 0.78 (95,5) (20) 3.77" 0.78 (96) (20) 0 for DS 6" (1	1.43 (0,65 2.64 (1,2 1.54 (0,70 2.53 (1,15 50), when	kg) lbs kg) lbs lbs lbs kg)
3.38" (86) 4.60" (117) 1.22" (31) 1.22" (31) nd 1.76 lbs (0,8 kg) 060 0100 0 120 200 3	0.78 (20) 0.78 (20) 3.75" 0.78 (95,5) (20) 3.77" 0.78 (96) (20) 0 for DS 6" (1	1.43 (0,65 2.64 (1,2 1.54 (0,70 2.53 (1,15 50), when	lbs i kg) lbs kg) lbs kg) lbs lbs lbs i kg)
(86) 4.60" (117) 1.22" (31) 1.22" (31) ond 1.76 lbs (0,8 kg) 060 0100 0 120 200 3	(20) 0.78 (20) 3.75" 0.78 (95,5) (20) 3.77" 0.78 (96) (20) 0 for DS 6" (1	(0,65 (1,2 (1,2 (1,2 (1,2 (1,54 (0,70 (2,53 (1,15 (1,15	kg) lbs kg) lbs lbs lbs kg)
(31) 1.22" (31) 1.22" (31) 1.26 lbs (0,8 kg) 060 0100 0 120 200 3	0.78 (20) 3.75" 0.78 (95,5) (20) 3.77" 0.78 (96) (20) 6 for DS 6" (1	2.64 (1,2 " 1.54) (0,70 " 2.53) (1,15 50), when	lbs kg) lbs kg) lbs kg)
(117) 1.22" (31) 1.22" (31) nd 1.76 lbs (0,8 kg) 060 0100 0100 120 200 3	3.75" 0.78 (95,5) (20) 3.77" 0.78 (96) (20) 0 for DS 6" (1	(1,2 " 1.54 (0,70 " 2.53 (1,15 50), when	kg) lbs kg) lbs lbs kg)
1.22" (31) 1.22" (31) nd 1.76 lbs (0,8 kg) 060 0100 0 120 200 3	3.75" 0.78 (95,5) (20) 3.77" 0.78 (96) (20)) for DS 6" (1	" 1.54) (0,70 " 2.53) (1,15 50), when	lbs kg) lbs kg)
(31) 1.22" (31) nd 1.76 lbs (0,8 kg) 060 0100 0 120 200 3	(95,5) (20) 3.77" 0.78 (96) (20) 6 for DS 6" (1 .160 0250	(0,70 " 2.53) (1,15 50), when	lbs kg)
1.22" (31) and 1.76 lbs (0,8 kg) 060 0100 0 120 200 3	3.77" 0.78 (96) (20)) for DS 6" (1 .160 0250	" 2.53) (1,15 50), when	lbs kg)
(31) nd 1.76 lbs (0,8 kg) 060 0100 0 120 200 3	(96) (20)) for DS 6" (1 .160 0250) (1,15 50), when	kg)
nd 1.76 lbs (0,8 kg) 060 0100 0 120 200 3) for DS 6" (1	50), when	
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01500 02000 0		00 06000	10000
3000 4000	6000 8000	10000	15000
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ent unit: InHg			
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for technical	details		
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	es (2) -300 essure 45 ent unit: InHg fillat the ATEX pressure for technical + + (1) + (1) 667 option	es (2) -300 -3015 -3 essure 45 100 ent unit: InHg fillable the ATEX pressure gauges data-s for technical details + (1) + (1) + (267 option I not adjustable pointer ECV option	es (2)

(1)	Ranges	01	01,6	02,5	04	06	010	016	025	040	060	0100	0160	0250	0400	0600	1
ba	Overpressure	4	6	10	16	25	40	48	75	80	120	200	320	500	800	1200	

.75	Ranges	015	030	060	0100	0160	0200	0300	0400	0600	01000	01500	02000	03000	04000	06000	010000	
d	Overpressure	60	120	240	400	480	600	900	1000	1200	2000	3000	4000	6000	8000	10000	15000	1

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

si	Ranges (2)	-300	-3015	-3030	-30150
D	Overpressure	45	100	125	450

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 A	TEX pressure gauges dai	ta-slieet
2D1 - ATEX II 2GD c version		TEX pressure gauges dat for technical details	
C40 -AISI 316L st. st. case, ring and blow out disc	+	+	+
P01 -Suitable for filling with silicone/fluorinated fluid		+	
P02 -Oxygen service	+	→ (1)	♦ (2)
P03 -Compensating device, for DS 4" (100 mm) and lower mounting only	+	+	+
S10 -Silicone filling			+
F30 - Fluorinated fluid filling			+
ECV - Vented housing version, Ambient temperature -50+65 °C (3) (4)	+		
E67 - Protection degree IP67 (5)	+		
T01 -Tropicalization	+	+	+

- (2) to be ordered with fluorinated fluid filled instruments
- (3) to be ordered with E67 option
- (4) lower mounting and not adjustable pointer
- (5) to be ordered with ECV option