bourdon tube "solid-front" pressure gauges all stainless steel construction DS 2.5" (63mm)

MGS20



These Solid-Front instruments are built in accordance with safety specifications of **EN 837-1 "S3"** and **ASME B40.1**. The safety construction consists of a <u>solid separating</u> wall in stainless steel, placed between the scale and the elastic element and a <u>blow</u> <u>out back</u> which is released from the case whenever an internal pressure, due to leaks, is created or the elastic element is broken. A leak tight fit is ensured if the instrument is filled with a dampening fluid to prevent damage due to vibration. These instruments are designed for use in food, beverage, pharmaceutical, cryogenic, 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.

1.20.1 - Standard Model

Design: EN 837-1. Safety designation: S3 as per EN 837-2. Ranges: from 0...15 to 0...15000 psi; from 0...1 to 0...1000 bar (or other equivalent units) Accuracy class: 1,6 as per EN 837-1. **Ambient temperature:** -13...+149 °F (-25...+65 °C). **Process fluid temperature:** *max* +212°F (+100 °C). **Thermal drift:** $\pm 0.4 \% / 10$ K of range (starting from $68^{\circ}F - 20^{\circ}$ C). Working pressure: 75% of FSV for static pressure; 66% of FSV for pulsating pressure; 100% of FSV for static pressure (max 12 hours) **Over pressure limit** (15 min max): 25% of FSV for pressure ranges \leq 1500 psi (100 bar); 15% of FSV for pressure ranges over 1500 psi (100 bar). Protection degree: IP 55 as per IEC 529. Socket material: AISI 316 st.st. Bourdon tube: AISI 316L st.st. Case: stainless steel. **Ring:** stainless steel, bayonet lock. Blow out disk: plastic. Window: safety glass. Movement: stainless steel. **Dial:** plastic. Pointer: adjustable, aluminium, black.

1.20.2 - Fillable Model

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

1.20.3 - Filled Model

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

Ambient temperature:

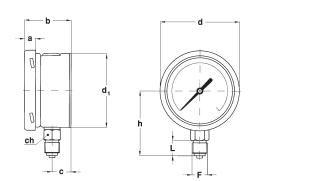
+59...+149 °F (+15...+65 °C) with glycerine filling; -49...+149 °F (-45...+65 °C) with silicon oil filling; -76...+149 °F (-60...+65 °C) with fluorinated fluid filling. Process fluid temperature: max +149°F (+65 °C). Protection degree: IP 67 as per IEC 529. Pointer: not adjustable, aluminium, black. Other features: as Standard Model.

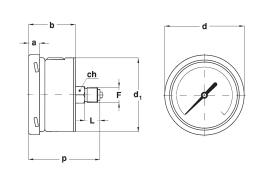
INSTRUMENTS FOR OXYGEN

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.









A - LOWER CONNECTION

D - BACK CONNECTION

	A - LOWER CO	ONNE	CTION	1				D - BA	CK C	ONNE	CTION	
lounting	F	a	b	с	d	d	h	р	L		ch	Weight (1
Lower	21M - G 1/4 A 23M - 1/4-18 NPT	0.39" (10)	1.57" (40)	0.65″ (16,7)	2.67″ (68)	2.46″ (62,6)	2.13" - 2.17" (54,3 - 55,3)		0.51" (13)	" (0.55 x 0.31 - 0.55 x 0.35)		0.44 lbs (0,2 kg)
Back	21M - G 1/4 A 23M - 1/4-18 NPT	0.39" (10)	1.57″ (40)		2.67″ (68)	2.46" (62,6)		2.32" - 2.36" (59,1 - 60,1)	0.51" (13)	51″ (0.55 x 0.31 - 0.55 x 0.35)		0.50 lbs (0,23 kg
PTIO	NS									, , ,	(11.1.1	(*11 1
Iodel - Fror									sta	andard	fillable	filled
	nt flange, for back connected able for filling with silico									+	•	+
		ne/ Pluo	illiateu i	liulu						+	♦ (2)	◆ (1)
						P02 - Oxygen service S10 - Silicone filling						
	prinated fluid filling											
	dered only with instrume dered with instruments s					ıg						* *
2) to be ord H OW T (uitable f	or fluori:	nated flu	uid fillin	_	Μ	Options E 201F30				* *

OPTIONS

Mode	1	standard	fillable	filled
E -	Front flange, for back connection pressure gauges	+	+	+
P01 -	Suitable for filling with silicone/Fluorinated fluid		+	
P02 ·	• Oxygen service	+	◆ (2)	♦ (1)
S10 ·	· Silicone filling			+
F30 -	· Fluorinated fluid filling			+

"HOW TO ORDER" SEQUENCE

Section	/ Model	Range / Process connection	/ Options			
1	20	1	Α	С	21M	Ē
		2	D		23M	P01F30
		3				