MGS10

bourdon tube pressure gauges
anti-vibration heavy duty version
DS 4" (100mm)



PED 2014/68/EU

These instruments are designed for use on power station units, pumps, hydro-cleaning machines, presses, engine compressors, turbines, diesel engines, chemical, petrochemical and refrigerating plants and on machines and equipment where pulsating pressures or mechanical vibrations are apparent. They can be used with gaseous or liquid media which do not corrode copper alloy and which do not have high viscosity or do not cristalize.

1.10.1 - Standard Model

Design: EN 837-1.
Safety designation: S1 as per EN 837-2.
Ranges: *from 0...15 to 0...15000 PSI* (from 0...1 to 0...1000 bar or other equivalent units).
Accuracy class: 1,0 as per EN 837-1.
Ambient temperature: *-40...+149 °F* (-40...+65 °C)
Process fluid temperature:
-13...+212 °F (-25...+100 °C) for ranges ≤ *600 psi* (40 bar);
-13...+248°F (-25...+120 °C) per campi ≥ *600 psi* (40 bar).
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.
Overpressure limit: 30% of FSV (max 12 h).
Protection degree: IP 55 as per IEC 529.
Socket material:
copper alloy with internal restrictor Ø *0.03"* (0,8 mm).
Bourdon tube:
copper alloy for ranges ≤ *600 psi* (40 bar);
AISI 316L st.st.for ranges > *600 psi* (40 bar).
Case: stainless steel.
Ring: stainless steel, bayonet lock
Window: tempered glass
Movement: copper.
Dial: aluminium, white with black markings
Pointer: not adjustable, aluminium ,black

1.10.2 - Fillable Model

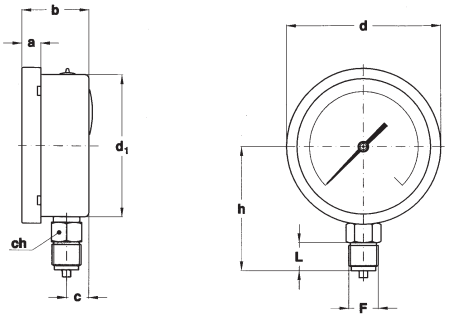
Protection degree: IP 67 as per IEC 529.
Other features: as Standard Model.

1.10.3 - Filled Model

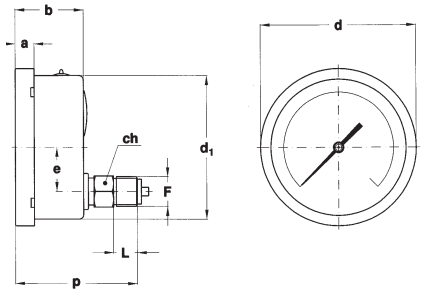
Damping liquid: glycerine 98% or silicon oil.
Ambient temperature:
+32...+149 °F (0...+65 °C) with glycerine filling;
-40...+149 °F (-40...+65 °C) with silicon oil filling.
Process fluid temperature: *max +149°F* (+65 °C).
Protection degree: IP 67 as per IEC 529.
Other features: as Standard Model

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A - LOWER CONNECTION



D - BACK CONNECTION

Mounting	F	a	b	c	d	d_1	e	h	p	ch	L	Weight (1)
Lower	41M - G 1/2 A 43M - 1/2-14 NPT	*0.51"* (13)	*1.91"* (48,6)	*0.63"* (16,1)	*4.35"* (110,6)	*3.97"* (101)		*3.38"* (86)		*0.86"* (22)	*0.78"* (20)	*1.14 lbs* (0,52 kg)
Back	41M - G 1/2 A 43M - 1/2-14 NPT	*0.51"* (13)	*1.91"* (48,6)		*4.35"* (110,6)	*3.97"* (101)	*1.22"* (31)		*3.41"* (86,8)	*0.86"* (22)	*0.78"* (20)	*1.25 lbs* (0,57 kg)

dimensions : *inches* (mm)

(1) add *0.72 lbs* (0,33 kg) when filled

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	◆	◆	◆
L22 -	Maximum pointer IP 67 on polycarbonate window (1)		◆	◆
P01 -	Suitable for filling with silicone		◆	
S10 -	Silicone filling			◆
T32 -	Safety glass window	◆	◆	◆

(1) Accuracy refers to the area free from the maximum pointer action.

"HOW TO ORDER" SEQUENCE

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

1	10	1	A	E		41M	B, C, E
		2	D			43M	L22...T32
		3					

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