MGS32

bourdon tube "solid-front" pressure gauges for high pressures, turret case DS 4.5" (125 mm)

These instruments are designed in compliance with the construction and safety requirements of **ASME B40.1** standard.
In the event of leaks or failure of the elastic element, the operator is protected by a solid-front stainless steel safety cell and a blow-out back.
They are primarily used in high-pressure water jet applications, such as water cutting machines, hydro-blasting pumps, turbines, and hydro-demolition systems. The TIG welding between the safety cell and the process socket reinforces the instrument and ensures better sealing, especially when the instrument is filled with damping fluid. In the presence of vibrations or pressure pulsations, filling the case with damping fluid is recommended to protect the pointer from fluctuations and to prevent wear of the movement's rotating components. Additionally, the internal parts are protected from condensation and corrosive environments.

1.32.2 - Fillable Model

Ranges: 0...2500, 0...3000 and 0...4000 bar;
0...30000, 0...40000 and 0...60000 psi/bar.
Accuracy: Grade 1A as per ASME B40.1 (±1,0% of F.S.V.).
Ambient temperature: -13...+149 °F (-25...+65 °C).
Process fluid temperature*: -22...+302 °F* (-30...+150 °C).
Working pressure:
75% of FSV for static pressure;
66% of FSV for pulsating pressure.
Over pressure limit: 10% of FSV (temporary).
Protection degree: IP 67 as per IEC 529.
Socket material: AISI 316L st.st.
Bourdon tube: duplex st.st. seamless tube.
Case and blow out disk: strengthened polyamide with fiber glass, UV rays stabilized.
Ring: strengthened polypropylene, fiber glass.
Safety cell: stainless steel.
Window: safety glass.
Movement: stainless steel with internal limit stops for minimum and maximum pressure.
Dial: aluminium, white with black markings.
Pointer: adjustable, aluminium, black.

1.32.3 - Filled Model

Damping liquid: glycerine 98%, 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).
Other features: as Fillable Model.

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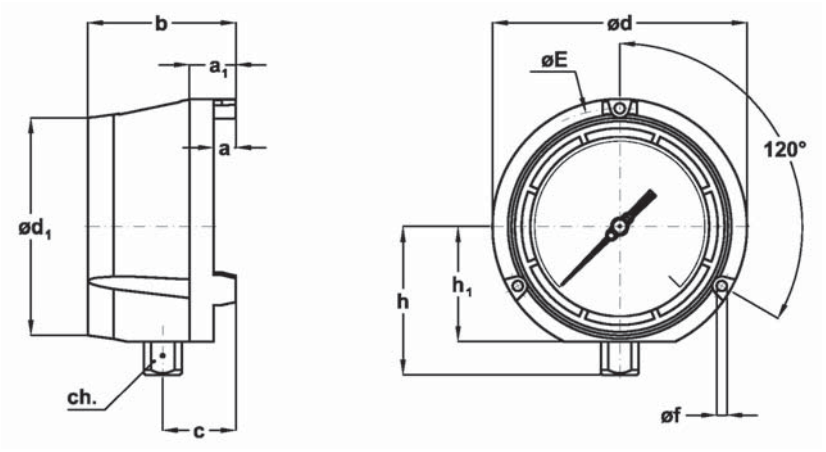

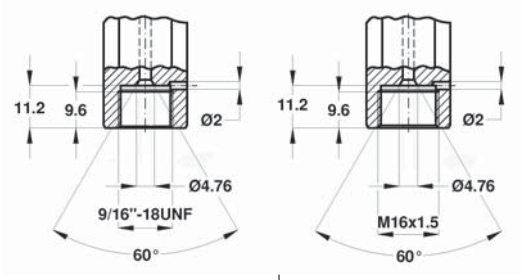

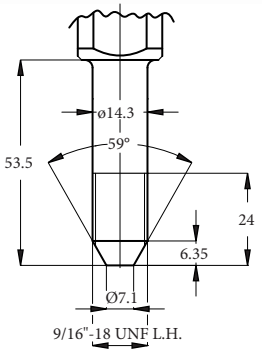

A - LOWER CONNECTION

Mounting	F	a	a_1	b	c	d	d_1	E	f	h	h_1	ch	Peso (1)
Lower	**IUF** 9/16-18 UNF-2B (1) **D7F** M16 x 1,5 **IUH** 9/16-18 UNF-L.H.	13	27	86	42	148	126	137	6,5	86	66,5	22	0,75 kg

(1) adjustable for the following fittings:
1/4" F250C Autoclave
1/4" HF4 - HiP
1/4" Newport AMINCO HP
1/4" HP Butech
(2) add 1.10 Ibs (0,5 kg) when filled.

dimensions : mm

OPTIONS

Model		fillable	filled
F11 -	Panel mounting kit	◆	◆
P01 -	Suitable for filling with silicon and "Fluorolube"	◆	
S10 -	Silicone filling		◆
T01 -	Tropicalization	◆	◆

"HOW TO ORDER" SEQUENCE

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

1	32	2 3	A	F	D7F IUF	F11...T01

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