

bourdon tube pressure gauges all stainless steel construction DS 4", 6" (100-150mm)

MGS18



These instruments are designed for food, processing, pharmaceutical, petrochemical industries and for conventional and nuclear power plants. They are built to resist to the most severe conditions created by the process medium and by the environment and for those fluids, which have high viscosity and do not crystallize. The quality of the materials used to build the sensible element allows their use with high frequency pulsating pressures.

The TIG welding between the case and the process socket, strengthens the instrument and assures better containment 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 could damage the internal parts are prevented.

1.18.1 - Standard Model

Design: EN837-1.

Safety designation: S1 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: -13...+149 °F (-25...+65 °C).

Process fluid temperature: -40...+302 °F (-40...+150 °C).

Thermal drift: ±0,4 % / 10 K 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).

Protection degree: IP 55 as per IEC 529.

Socket material: AISI 316L st.st.

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

Case and ring: stainless steel.

Window: tempered glass.

Movement: stainless steel with internal limit stops for minimum and maximum pressure.

Dial: aluminium, white with black markings.

Pointer: adjustable, aluminium, black.

1.18.2 - Fillable Model

Protection degree: IP 67 as per IEC 529.

Pointer: not adjustable, aluminium, black.

Other features: as Standard Model.

1.18.3 - Filled Model

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

Dampening 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

To suit safety criteria of standard EN837-1/2, the pressure gauges for oxygen service must be solid-front type (with baffle wall and safety bursting back).

Pressure gauges suitable for this service are detailed on MGS20 DS 4", 6" (100-150 mm) sheet.



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.

NUOVA FIMA

DFC

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شرکت دقیق فرایند کنترل

Laser calibrated for positive accuracy. Seamless 316 Bourdon tubes, heat treated and stress relieved tubes and sockets. Serial numbers fully traceable to mill specifications and date of manufacture. Alberta Boilers Branch Approved with CRN# OF1908.2.



Type B
Flush Mounting,
U-Clamp,
Back Connection

Type A
Stem Mounting,
Lower Connection

Type C
Stem Mounting
Back Connection

Type E
Flush Mounting, Flush Flange
Back Connection

NUOVA FIMA

MGS 18/3 SERIES - 4" 316 Stainless Steel Tube and Socket LIQUID FILLED

- Accuracy:** 1% of full scale.
- Socket material:** AISI 316 Stainless Steel.
- Bourdon Tube:** AISI 316 Stainless Steel.
- Case:** AISI 304 Stainless Steel.
- Ring:** AISI 304 Stainless Steel, polished, bayonet connection.
- Window:** Plexiglass.
- Movement:** 316 Stainless Steel.
- Dial:** White aluminum with black and red markings.
- Special dials:** Ranges different from standard, or custom artwork, available on request.
- Pointer:** Black aluminum, micro-adjustable.
- Gasket:** Polychloroprene.

RANGE CODES					
#	PSI	KPA	#	PSI	KPA
01	30/0	-100/0	16	0/400	0/2500
02	30/15	-100/100	17	0/500	0/3000
03	30/30	-100/200	18	0/600	0/4000
04	30/60	-100/400	19	0/800	0/5500
05	30/100	-100/600	20	0/1000	0/6000
06	30/150	-100/1000	21	0/1500	0/10000
07	30/200	-100/1200	22	0/2000	0/12000
08	30/300	-100/2000	23	0/3000	0/20000
09	0/15	0/100	24	0/4000	0/25000
10	0/30	0/200	25	0/5000	0/30000
11	30/60	0/400	26	0/6000	0/40000
12	0/100	0/600	27	0/10000	0/60000
13	0/160	0/1100	28	0/15000	0/100000
14	0/200	0/1200	29	0/20000	0/140000
15	0/300	0/2000			

When ordering include part number and mounting style, gauge size and range number.

MGS 18/3 A - 4 15

Part Number Mount Size Range

MGS18/3 Series - 4" Liquid Filled