

1616 XS AND 1617 XS ALL SS PRESSURE GAUGES

FEATURES

The 1616 XS (\varnothing 63), and 1617 XS (\varnothing 100) all stainless steel pressure gauges are designed for measuring pressure on non-viscous and non-crystallising, but potentially corrosive fluids. They can also be used in aggressive environments or in clean environments. They are designed following the EN 837-1 standard. The pressure scale has a bar/psi (\varnothing 63) double graduation. The dial is removable, and the pressure gauge can be calibrated by an adjustment screw. They also have a filling orifice. Vertical connection.



T-METER®

LIMITS OF USE

Fluid WP:	<u>Static load:</u> 75% of the scale <u>Dynamic load:</u> 65% of the scale
Fluid WT°:	-20°C / +100°C
Ambient temperature:	-25°C / +60°C

Whenever the temperature is too high, use a diaphragm seal or a siphon (see the "ACCESSORIES" §).

PRECISION CLASS

At 20°C, in % of scale:

\varnothing 63	1.6 class
\varnothing 100	1 class

Whenever used at another temperature, the deviation is $\pm 0.04\%$ / °K.

MEASUREMENT SCALES

No.	Range in bar	Range in psi
1	-1 / 1	-14.5 / 14.5
2	0 / 1.6	0 / 23
3	0 / 2.5	0 / 35
4	0 / 4	0 / 58
5	0 / 6	0 / 87
6	0 / 10	0 / 145
7	0 / 16	0 / 230
8	0 / 25	0 / 350
9	0 / 40	0 / 580

Information given as an indication only, and subject to possible modifications

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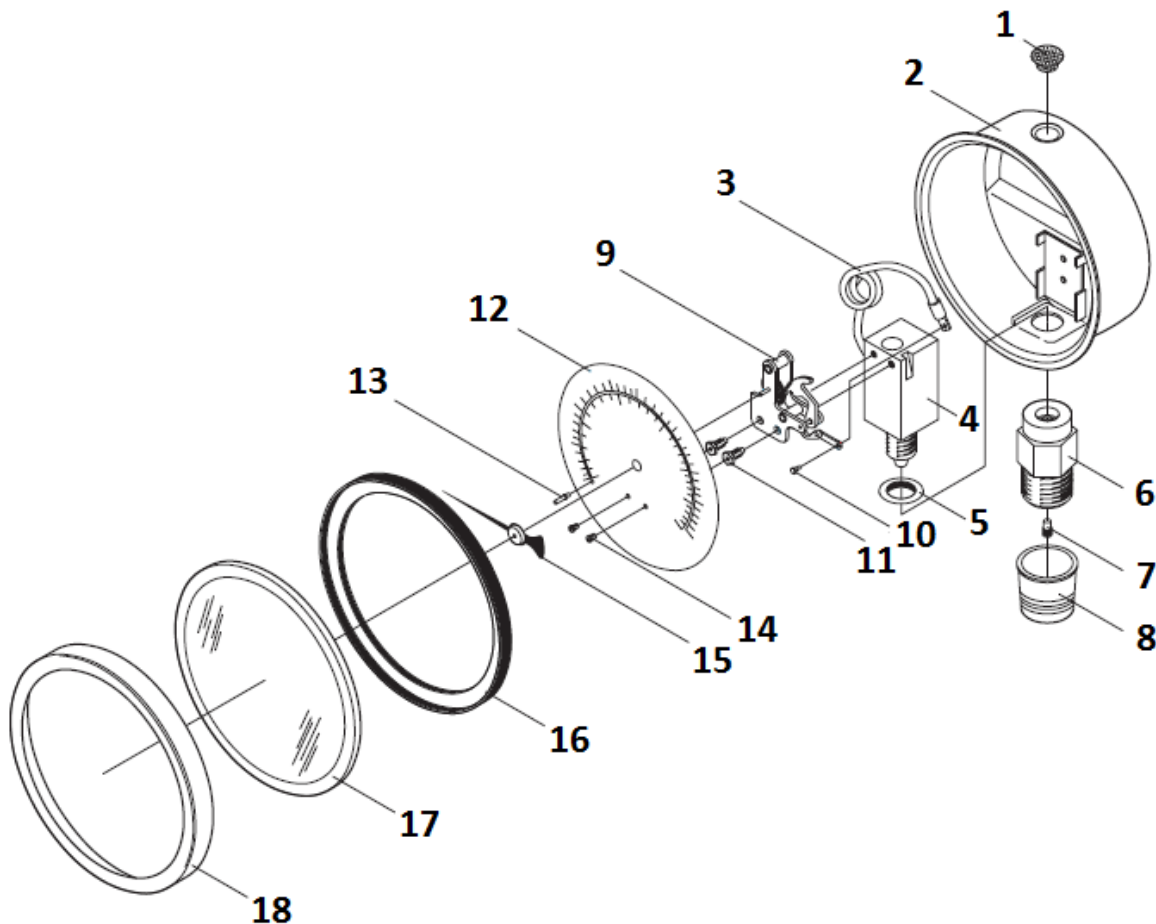
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CONNECTION

∅ 63	G 1/4" M cylindrical, vertical connection
∅ 100	G 1/2" M cylindrical, vertical connection

CONSTRUCTION

No.	Item	Material	No.	Item	Material
1	Safety vent		10	Screw	
2	Case	AISI 304 SS	11	Hexagonal screw	
3	Mecanism tube	AISI 316 SS	12	Dial	
4	Central block	AISI 316 SS	13	Pointer	
5	Gasket		14	Screw	
6	Vertical connection		15	Pointer	
7	Damper	AISI 316 SS	16	Gasket	
8	Protective plug		17	Glass	Toughened glass
9	Movement		18	Bezel	AISI 304 SS



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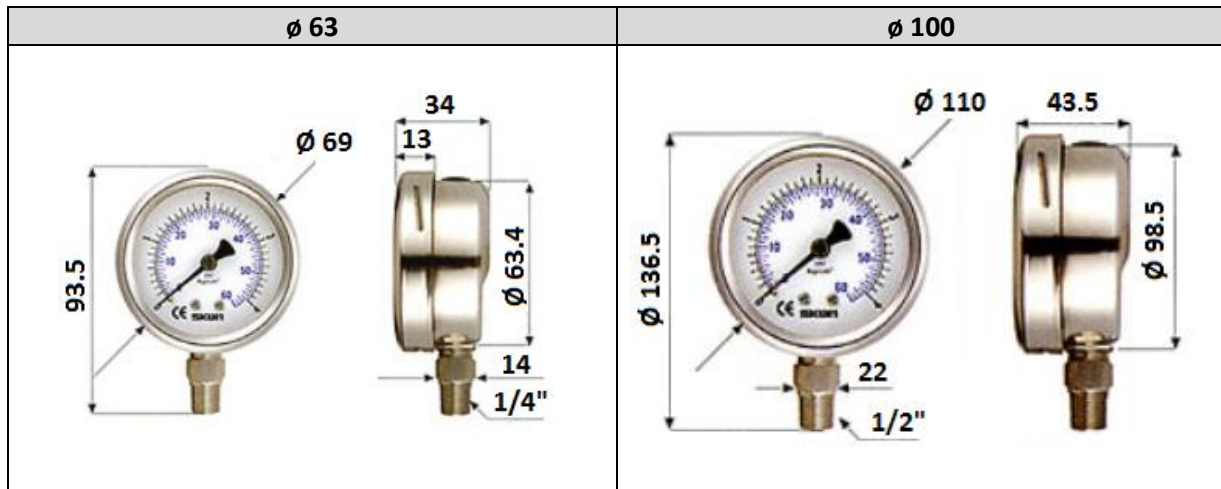


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DIMENSIONS (mm)



DIRECTIVE AND MANUFACTURING STANDARDS

Design	EN 837-1
Fabrication	ISO 9001: 2008
Connection	ISO 228

LABORATORY CALIBRATION






The 1616 XS and 1617 XS pressure gauges can be calibrated by our laboratory according to their accuracy class. An individual calibration certificate can be issued. Please contact us.

FILLING WITH GLYCERINE

To absorb water hammers and low vibrations, the 1616 XS and 1617 XS pressure gauges can be filled with glycerine. Please contact us.

MOUNTING ON DIAPHRAGM SEAL

Whenever pressure gauges are used on corrosive, viscous or crystallising fluids, the 1616 XS and 1617 XS pressure gauges can be mounted on different types of diaphragm seals:

DT 110	DT 108	DT 103	DT 122	DT 105	DT 106
removable	welded	Minimum	removable	welded	welded
threaded fitting	threaded fitting	threaded fitting	flange fitting	fitting SMS	clamp fitting
					

Filling can be made with the following liquids:

- Silicone oil, **WT°**: -50°C/+200°C,
- FDA food glycerine.

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ACCESSORIES

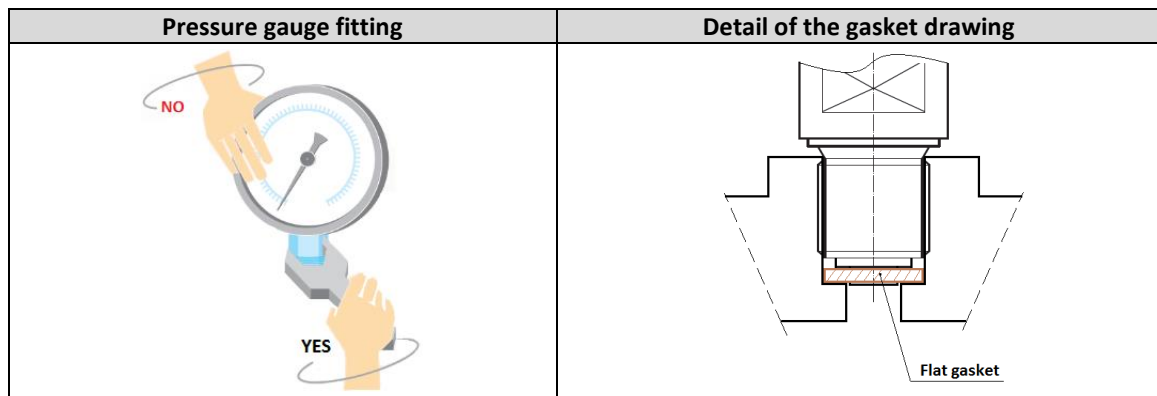
The following accessories can be used with the 1616 XS and 1617 XS pressure gauges.

siphon	damper	front flange	bracket	needle valve	ball valve
SY	D1			RPM	MIGNON
					

Please contact us.

ASSEMBLY INSTRUCTIONS

1. Plan the measuring outlet in a part of the pipe installation or of the tank where the flow is uniform and undisturbed.
2. If the fluid is dirty, viscous or crystallising, use a diaphragm seal.
3. Check that the measuring range for the pressure to be measured is in accordance with the scale of the pressure gauge.
4. Check that the fluid temperature is compatible with that of the pressure gauge operation. If necessary mount, provide a diaphragm seal or a siphon.
5. Mount an isolation valve between the pressure gauge and the pressure outlet to be able to perform its maintenance.
6. A glycerine filling and a damper are necessary, when vibrations are present on the installation.
7. Use a flat gasket suitable for the fluid, to avoid leak-tightness for the pressure gauge fitting.
8. When screwing on the pressure gauge, do not hold it by the dial, but use a flat wrench on the fitting as shown in the diagram below.
9. If the pressure gauge is filled with glycerine, bring it to the atmosphere by cutting the plug nipple for exposing to atmosphere.
10. If a hydrostatic test is carried out on the installation, do not exceed the pressure intended for the pressure gauge. Otherwise, close the isolation valve or remove the pressure gauge.
11. During start-up, slowly open the isolation valve to prevent water hammer which can damage the pressure gauge.
12. Gently tap the pressure gauge case.
13. Read the displayed value.



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