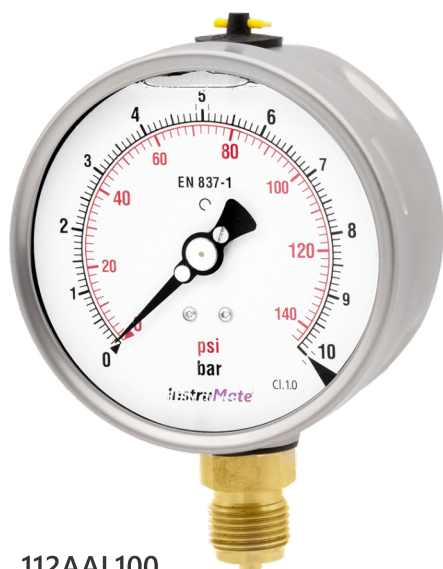
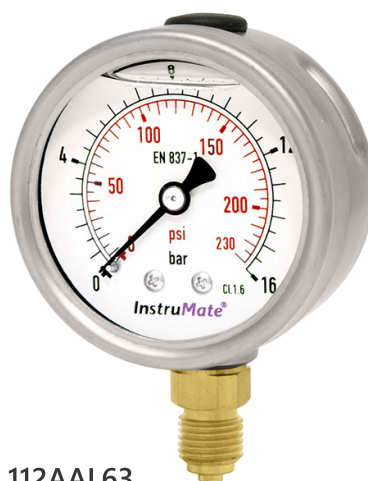




112AAL100



112AAL63

Application

- ✓ Hydraulic systems, pumps and presses
- ✓ Measuring needs with sudden or dynamic pressure changes
- ✓ Vibrating machineries, diesel engines
- ✗ Do not use directly for medias that are viscous, crystallizing and corroding copper alloy

Special Features

- ✓ Re-calibratable and re-adjustable
- ✓ Popular bayonet bezel design
- ✓ No leakage guaranteed
- ✓ Heavy duty mechanism for dial sizes 100 & 160mm

Description

InstruMate group of oil fillable pressure gauges covers a series of oil-filled pressure gauges efficient for plants or machineries with pulsating pressures or mechanical vibrations. As sensitive a pressure gauge as might be, vibration threatens its long life span and that is the time InstruMate 112 series come into action.

InstruMate 112AA is not only shock resistant when filled, but also it has a heavy duty mechanism for more demanding applications (only with dial size 100 and 160mm) with the accuracy of 1% according to EN837-1. A safety glass and a micro-adjustable pointer are other advantages which distinguish it from average class of oil filled gauges in 100, 160mm dial size.

Since oil filled pressure gauges have a copper alloy connection, considerations about their corrosion and clogging is recommended.

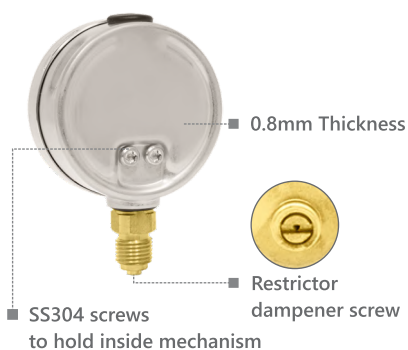
The model 112AA is constructed from a matte stainless steel case with a DIN type bayonet bezel.

All InstruMate pressure gauges have geometrically balanced dial designs, thus a much easier reading experience.

Default Specification

Design	Nominal sizes in mm
EN 837-1	63, 100, 160
Process Connection	
Brass NS 63: G ¼ NS 100,160: G ½	Bottom connection: 112AAL Center or lower back connection: 112AAB
Temperature Effect	Pressure Element
± 0.04 x (t ₂ -t ₁) % of the span t ₁ is the Reference temperature in degrees celsius. t ₂ is the Ambient temperature in degrees celsius.	Copper alloy C-type for ≤ 60bar Helical for > 60bar
Pressure Limitations	
NS 63 Steady: 75% of full scale Fluctuating: 65% of full scale Over-Pressure: 100% of full scale	NS 100, 160 Steady: 100% of full scale Fluctuating: 85% of full scale Over-Pressure: 130% of full scale (short time)
Scale Range	Permissible Temperature
NS 63: 0...1bar to 700bar NS 100,160: 0...0.6bar to 700bar Vacuum and compound ranges	Ambient: -20...+60 °C Medium: +65 °C Maximum
Pointer	Window
NS 63: Aluminum pointer NS 100: Micro-adjustable pointer NS 160: Micro-adjustable pointer	NS 63: Instrument glass NS 100: Safety glass NS 160: Safety glass
Pressure units	Accuracy
bar/psi	NS 63: 1.6% of full scale NS 100, 160: 1% of full scale
Filling oil	Dial
Glycerin	Aluminum
Case	Movement
matte SS304 (DIN type)	Copper alloy

112AAL63



112AAL100

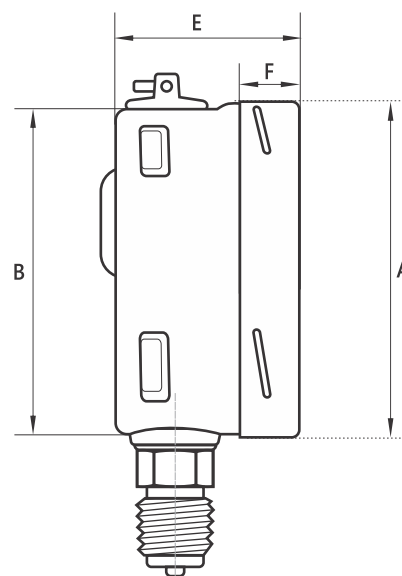
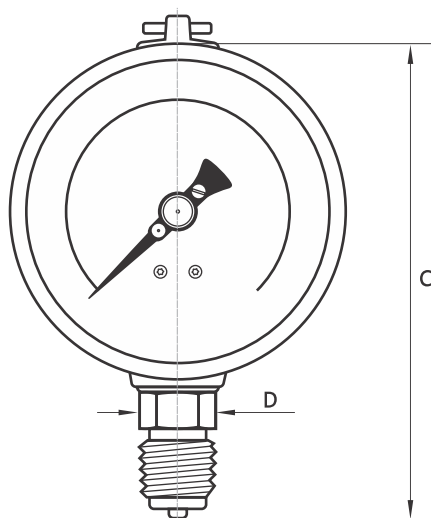


Options

- ✓ Requested process connections other than stated in the table
- ✓ Safety glass for 63mm
- ✓ Silicon oil or to be shipped without oil
- ✓ Other pressure units

Dimentions (in mm)

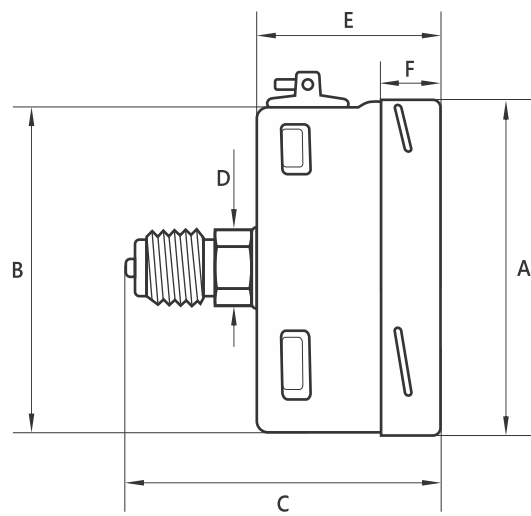
■ DS 63, 100, 160 Bottom Connection



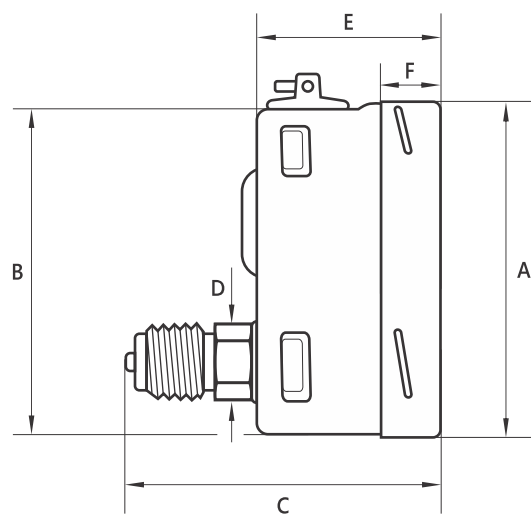
112AAL

Nominal Size	A	B	C	D	E	F	KG
63	63.5	62.2	89	14	33.5	12.5	0.23
100	100.4	99	136	22	48.5	16.5	0.84
160	160.5	158.5	197	22	48.5	17.5	1.7

■ DS 63 Center Back Connection



■ DS 100 Lower Back Connection



112AAB

Nominal Size	A	B	C	D	E	F	KG
63	63.5	62.2	59	14	34	12.5	0.245
100	100.4	99	88.8	22	48.5	16.5	0.88

Thread Type	Code
NPT	N
BSPP (G)	B
BSPT	Z
Metric	M

Thread Size	Code
1/4	4
1/2	2
3/8	3
1/8	8
for metric sizes write the number	M20×1.5

How To Order

	Product Group Name	Model	Mounting	Nominal Size	Thread Type	Thread size	Scale Range	Options
Example:	Oil filled Pressure Gauge	112AA	L	100	B	2	0...25bar-psi	–

Or simply order by item number on the basis of your previous purchases.

InstruMate®

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