



Differential Pressure Gauges

Stainless Steel Case

High Overpressure Safety

Diaphragm Element Series • Type 732.12

Pressure Gauges

Application

Where low differential of very high process pressure is to be measured. All stainless steel pressure gauge. Suitable for corrosive environments and gaseous and liquid media.

Sizes

4" and 6" (100 and 160 mm)

Accuracy

± 1.5% of span

Ranges

24 "H₂O to 400 PSI (60 mbar to 25 bar)
or equivalent other units of pressure or vacuum

Working Range

Steady: full scale value
Fluctuating: 0.9 x full scale value

Overpressure Safety

Safe up to 6000 PSI
regardless of scale range when pressure applied to one side only

Operating Temperature

Ambient: -4°F (-20°C) to 140°F (60°C)
Media: max. + 212°F (+100°C)

Weather Protection

Weather resistant (NEMA 4X / IP 54)

Standard Features

Connection

Diaphragm housing
Material: 316 stainless steel
2 x 1/4" OR 1/2" NPT

Diaphragm Element

< 100 PSI: 316 stainless steel
> 100 PSI: Duratherm (NiCrCo-alloy)

Diaphragm Gasket

FPM (Viton), PTFE (Teflon)

Pressure System Components

316 stainless steel
Galvanized high-tensile steel bolts

Movement

Stainless steel

Dial

White aluminum with black lettering

Pointer

Black aluminum pointer, adjustable

Case

Stainless steel with stainless steel bayonet ring.
Blow-out plug in back of case

Window

Laminated safety glass



Transmitting Fluid

Silicone oil

Gauge Mounting

Requires mounting with sturdy piping or gauge valve. Optional pipe or wall mounting bracket is available.

Pressure inputs identified ⊕ and ⊖

⊕ high pressure

⊖ low pressure

Order Options

Liquid filled case (**model 733.12**)

Other threaded pressure connection

Pipe or wall mounting bracket

Alternate transmitting fluid

Diaphragm and wetted parts made of special materials (solid metal only)

Alarm contacts (see data sheet AAE 08.01)

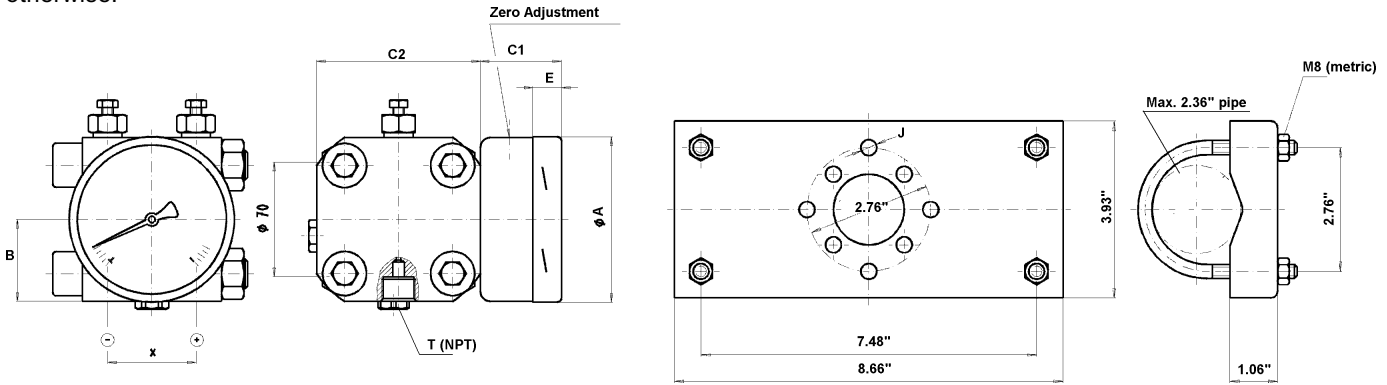
6" only: Transmitters (see data sheet AE 08.02)

Dimensions:

Standard Dimensions

All dimensions in inches unless noted otherwise.

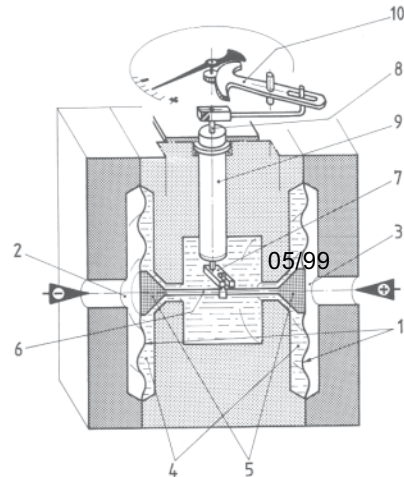
Option Wall and Pipe Mounting Brackets



TYPE	WEIGHT	RANGE	KEY	A	B	C1	C2	E	J	T	X
732.12 4"	39.4 lb	<= 6 PSI	mm	101	75	49.5	150	175	9	1/2"	100
			in	3.98	2.95	1.95	5.9	6.9	.35		3.94
	12.5 lb	> 6 PSI	mm	101	50	49.5	100	175	9	1/2"	54
			in	3.98	1.97	1.95	3.94	6.9	.35		2.13
732.12 6"	40.3 lb	<= 6 PSI	mm	161	75	49.5	150	175	9	1/2"	100
			in	6.33	2.95	1.95	5.9	6.9	.35		3.94
	13.4 lb	> 6 PSI	mm	161	50	49.5	100	175	9	1/2"	54
			in	6.33	1.97	1.95	3.94	6.9	.35		2.13

Design and operating principle

- Process pressures are applied to the low pressure chamber (2) and high pressure chamber (3).
- The area between the two diaphragms (4) is filled with a transmitting fluid..
- Any pressure differential will deflect the diaphragm (1) and the deflection is hydraulically transmitted to the other diaphragm by the transmitting fluid..
- The deflection of the diaphragm is transmitted to the pointer by means of a rotating axle (9) that provides frictionless transmission and a metal-to-metal seal.
- A pressure greater than the full scale will close the valve (5), thus discontinuing the transmission of pressure.
- Both diaphragms rest on a liquid cushion that allows the instrument to withstand process pressure up to the maximum pressure rating of the instrument.



**THE MEASURE OF
Total Performance™**

Ordering Information:

State computer part number (if available) / type number / size / range / connection size and location / options required.

Specifications given in this price list represent the state of engineering at the time of printing. Modifications may take place and the specified materials may change without prior notice



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