Differential Pressure Gauges

Copper Alloy Wetted Parts
Stainless Steel Case

Diaphragm Element Series • Type 712.20

Pressure Gauges

Application
Suitable for noncorrosive and noncrystallizing gaseous and liquid media that are not highly viscous.

Sizes
4" and 6" (100 and 160 mm)

Accuracy
±1.5% of span

Ranges

Scale Ranges	In. H2O							PSI									
	0 to 6	0 to 10	0 to 15	0 to 25	0 to 30	0 to 60	0 to 100	0 to 6	0 to 10	0 to 15	0 to 25	0 to 30	0 to 60	0 to 90	0 to 160	0 to 200	0 to 400
Max. total static pressure	30 PSI							160 PSI								400 PSI	
Overload limit ⊕ & ⊖ sides	30 PSI							PSI									
								45		70	950		160			400	

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

Operating Temperature
Ambient: -4°F (-20°C) to 140°F (60°C)
Medium: max. + 140°F (+60°C)

Temperature error
Additional error when temperature changes from reference temperature of 68°F (20°C) ± 0.4% for every 18°F (10°C) rising or falling. Percentage of span.

Weather Protection
Weather resistant (NEMA 4 / IP 54)

Standard Features

Pressure Chamber and Connection
(exposed to pressure medium)
Material: Aluminum alloy
2 x 1/4" NPT female

Diaphragm Element (exposed to pressure medium)
≤ 30 PSI: 316 stainless steel
≥ 60 PSI: Duratherm (NiCrCo alloy)

Sealing Bellows (exposed to pressure medium)
Copper alloy

Movement
Stainless steel

Gaskets (exposed to pressure medium)
NBR (Buna rubber)

Linkage (sealing bellows to pressure chamber)
(exposed to pressure medium)
Aluminum epoxy resin compound

Dial
White aluminum with black lettering

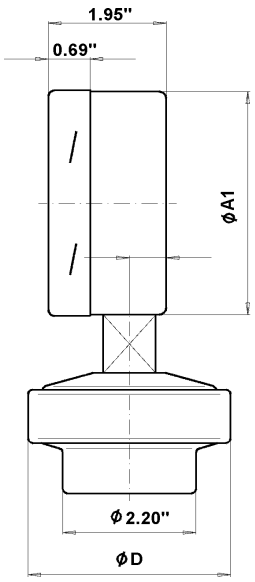
Pointer
Black aluminum, adjustable

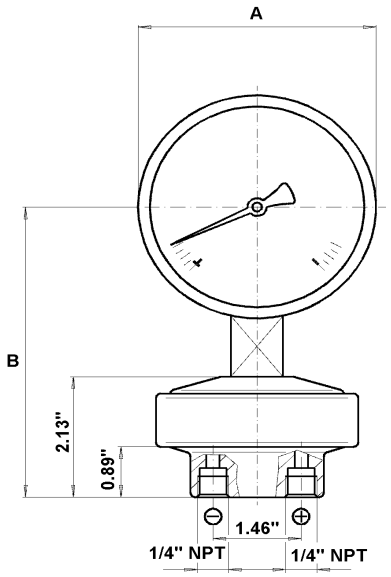
Case
Stainless steel with stainless steel bayonet ring. Blow-out relief plug in back of case

Window
Flat instrument glass

Gauge Mounting
Pressure inputs identified ⊕ and ⊖
⊕ high pressure
⊖ low pressure
Mounting by means of:
- sturdy piping
- front or rear flange (optional extra)
- pipe or wall mounting bracket (optional extra)

Dimensions:





TYPE	WEIGHT	KEY	A	A1	B	D
712.20 4"	2.2 lb	mm	101	99	120	85
		in	3.98	3.9	4.72	3.35
712.20 6"	3.08 lb	mm	161	159	150	85
		in	6.33	6.25	5.91	3.35

NOTE: For ranges 100"H2O and under, "D" dimension changes to 5.87" (149 mm) and weight increases by 2 lbs.

Order Options

Liquid filling (model **713.20**)
Pressure chamber venting (exposed to pressure medium)
Zero adjustment
Gasket material FPM (Viton)
Pressure connection male
Improved accuracy
Scale ranges < 6 "H_2O (depending on application)
Higher max. total overpressure (static)
Pipe or wall mounting bracket
Front or rear flange
Pressure equalizing valve (exposed to pressure medium) - (see data sheet AAM 09.11)
Alarm contacts (see data sheet AAE 08.01)
Transmitters (see data sheet AAE 08.02)

Operating principle

- High ⊕ and low ⊖ process pressures are separated by a diaphragm element.
- Any pressure differential across high pressure and low pressure sides causes the diaphragm to deflect up or down.
- The deflection is transmitted by a resin linkage to the instrument's movement and pointer.
- Two Metal bellows provide isolate the pressure chambers from the ambient atmosphere.
- Contoured metal surfaces above and below the diaphragm protect the diaphragm from overpressure damage.

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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