



Differential Pressure Gauges

Bourdon Tube Element Series • Type 716.01
 Bourdon Tube and Diaphragm Element Series • Type 716.02
 Diaphragm Element Series • Type 716.03
 Capsule Element Series • Type 716.04

Pressure Gauges

Application

Differential pressure measurement at filters, pumps and similar equipment. Specially designed for the OEM market.

Type 716.01 Suitable for liquid and gaseous, clean and transparent, non-sticky and non-aggressive media.

Type 716.02 High pressure side ⊕ for liquid and gaseous, transparent, non-crystallizing media.

Low pressure side ⊖ for liquid and gaseous media, even non-transparent.

Type 716.03 High and low pressure side suitable for non-transparent liquid and gaseous media

Type 716.04 High and low pressure side suitable for all clean and dry, non-aggressive gaseous media only

Size

3" (80 mm)

Accuracy

±1.5% of span

Ranges

Bourdon tube: 10 PSI to 200 PSI

Capsule element: 4 "H₂O to 160 "H₂O or equivalent other units of pressure or vacuum

Working Range

Steady: full scale value

Fluctuating: 0.9 x full scale value

Overpressure Safety

Bourdon tube: full scale value

Capsule element: < 6 "H₂O: + -side 3 x Δp
> 10 "H₂O: + -side 10 x Δp

Static Pressure Rating

200 PSI for all ranges

Operating Temperature

Ambient: -4°F (-20°C) to 140°F (60°C)

Media: 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 tight (NEMA 4 / IP 65)

Gauge Mounting

Pressure inputs identified ⊕ and ⊖

⊕ high pressure

⊖ low pressure

Requires mounting with sturdy piping. Front flanges and rear flanges are also available as options.

Compact Design, Multi Purpose

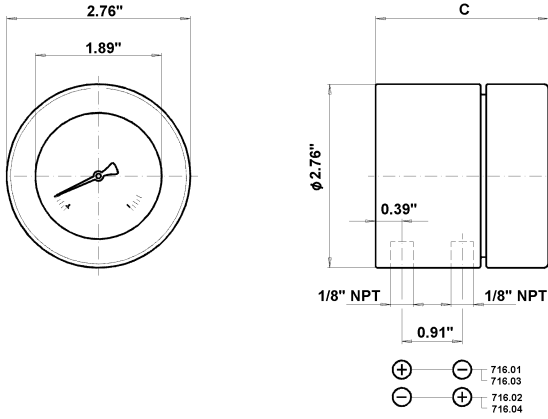


NOTICE: This product is being discontinued. Orders will not be accepted after December 15, 2000.

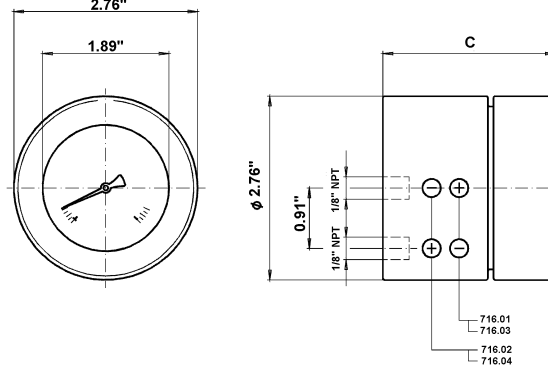
Component	Material	Model			
		716.01	716.02	716.03	716.04
Case	Black aluminum	●	●	●	●
Case ring		○	○	○	○
Press. element	Copper alloy	●	●	○	
Assembly		●	●	○	
Movement		●	○	○	
Pointer	Black aluminum	●	○	○	
Dial	White aluminum	●	○	○	
Window	Glass	●	○	○	
Isolating diaphragm	FPM (Viton)	N/A	●	●	N/A
Gasket	NBR (Buna rubber)	●	○	○	●
Pressure connection:	2 x 1/8" NPT or G 1/8 female - lower mount				
	2 x 1/8" NPT or G 1/8 female - back mount				
	2 x 1/8" NPT or G 1/8 female - side mount				
		● wetted ○ non-wetted			

Dimensions:

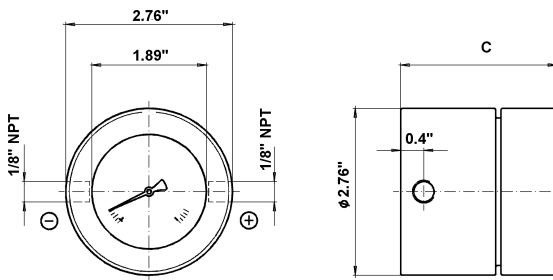
Lower mount



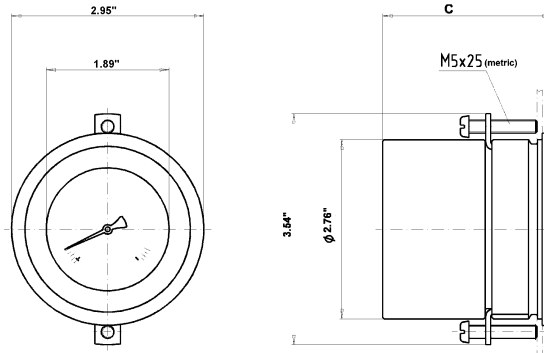
Back mount



Side mount



U-clamp mount



Type	716.01	716.02	716.03	716.04
C (in.)	2.6	3.58	3.9	2.6
Weight (lb.)	2.64	4.18	4.62	2.42

Panel cutout diameter = 2.84" (72mm)

Order Options

- Other pressure connection
- Front flange
- Rear flange
- Male threaded connection
- Stainless steel version (**Type 736.02 and 736.03**)

Operating Principle

Type 716.01

Case machined of solid aluminum contains Bourdon tube pressure element.
 High pressure ⊕ applied to Bourdon tube
 Low pressure ⊖ applied to inside of gauge case

Type 716.02

Liquid filled case machined of solid aluminum features Bourdon tube pressure element and an isolating diaphragm for pressure applied to the inside of the case
 High pressure ⊕ applied to Bourdon tube
 Low pressure ⊖ applied to isolating diaphragm

Type 716.03

Liquid filled case machined of solid aluminum. The inside of the case and the Bourdon tube are protected by an isolating diaphragm.
 High pressure ⊕ and low pressure ⊖ are applied to isolating diaphragms.

Type 716.04

Case machined of solid aluminum contains capsule element.
 High pressure ⊕ applied to inside of gauge case
 Low pressure ⊖ applied to capsule element

**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



WIKAI Instrument Corporation

1000 Wiegand Boulevard
 Lawrenceville, Georgia 30043-5868
 Tel: 770-513-8200 Fax: 770-338-5118
<http://www.wika.com> e-mail: info@wika.com