

iPolymer | Gauge Isolator

Gauge Isolator

PTFE Body Gauge Isolator protects a pressure gauge or other pressure sensor from corrosive media and prevents contamination of ultrapure liquids. Gauge Isolators consist of a PTFE body with a close-tolerance machined cavity and a FEP diaphragm. The upper portion of the cavity is filled with a solution, such as glycerin, silicone or DI water.

Media pressure applied to the bottom side of the FEP diaphragm is transmitted through the solution filled cavity to the gauge, providing accurate readings while isolating the gauge from the media. Gauge fluctuation is minimized by the combination of the diaphragm design and the solution filling the upper portion of the Gauge Isolator.

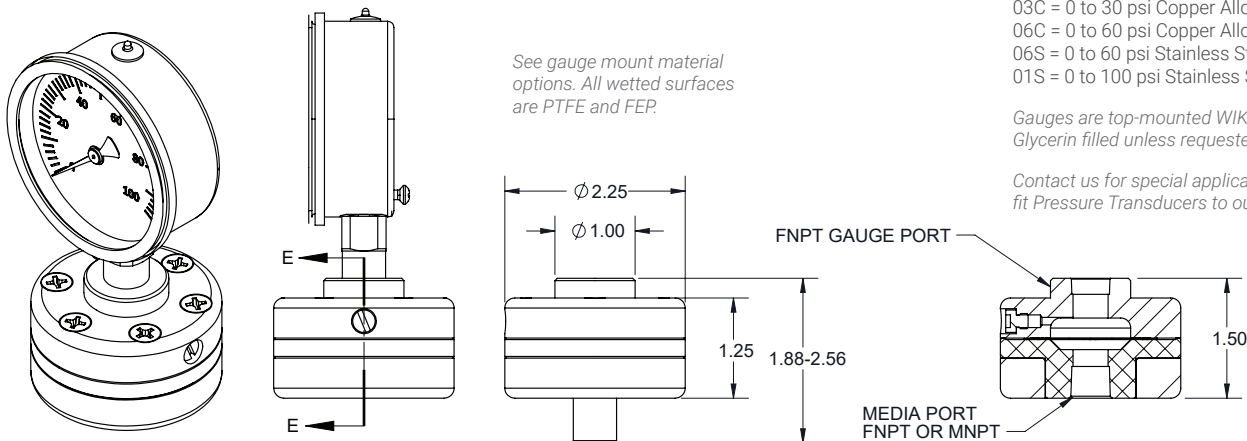
Highlights

- PTFE and FEP wetted parts
- Chemically Inert
- Corrosion-resistant
- Supplied with or without gauge
- Highly sensitive
- User specified upper body material

Specifications

Sensitivity	6.9 kPa	1 psi (2" Hg)
Diaphragm Displacement	0.5 ml	0.02 oz
Internal Fill Volume	4.0 ml	0.14 oz
Ambient Temperature (for Glycerin & DI Water fill)	4°C to 93°C	40°F to 200°F
Ambient Temperature (for Silicon & Glycol)	-10°C to 110°C	15°F to 230°F
Max. Media Temperature	-30°C to 160°C	-22°F to 320°F
Max. Operating Pressure (see installed gauge for rating)	6.9 bar	100 psi

Dimensions



iPolymer Product Notes:

1. Please email Customer Service at info@ipolymer.com
2. Call us for special applications. We can manufacture our Gauge Isolators with special mounting and interface dimensions.
3. Alternate materials are available that may allow for expanding temperature ratings or other performance characteristics.
4. Unauthorized disassembly will void the original factory one-year product warranty. Contact us or your Distributor for details.



Ordering Format

GI - POL - 44 - DI - 100
0 1 2 3 4

0. Gauge Isolator Model

GI = PTFE Body Gauge Isolator

1. Gauge Mounting

(All Wetted surfaces are PTFE and FEP)

POL = Polypropylene

PVDF = Polyvinylidene fluoride

TFM = Dyneon-1600 Enhanced PTFE

2. Gauge Port & Mounting Orifice

44 = 1/4" FNPT Media and Gauge Port

42 = 1/4" FNPT Media Port, 1/8" FNPT Gauge Port

22 = 1/8" FNPT Media and Gauge Port

4M4 = 1/4" MNPT Media Port, 1/4" FNPT Gauge Port

3. Fluid Designator

Only add if ordering gauge.

G = Glycerin

DI = DI Water

4. Gauge Type

Only add if ordering gauge.

03C = 0 to 30 psi Copper Alloy (113.13)

06C = 0 to 60 psi Copper Alloy (612.20)

06S = 0 to 60 psi Stainless Steel (131.11)

01S = 0 to 100 psi Stainless Steel (232.30)

Gauges are top-mounted WIKA brand and Glycerin filled unless requested otherwise.

Contact us for special applications. We custom fit Pressure Transducers to our Gauge Isolator.