

DIAPHRAGM PRESSURE SEALS TO ENSURE PROTECTION AND MEDIA COMPATIBILITY

Seals
Start at
\$280



Diaphragm seals, shown with PGH-45L-200, process gauge, start at \$356.



- ✓ Protects Pressure Instrumentation from Corrosive or Viscous Fluids, Clogging, and In-Line Freezing of the Process Media
- ✓ Glycerine Fill Fluid is Standard, with Optional Fill Fluids Available
- ✓ Displacement of the Liquid Fill in the Pressure Seal Through Movement of the Diaphragm Transmits Process Pressure Directly to the Pressure Instrumentation

OMEGA® diaphragm pressure seals protect sensitive pressure instrumentation from the damaging effects of corrosives, slurries, or viscous fluids. A variety of designs and styles is available to suit individual application requirements.

100 Series

Distinguished by its 3-part design, the 100 Series includes a PTFE coated diaphragm capsule that threads into the top housing, ensuring positive sealing at all surfaces and minimizing fluid leakage. The diaphragm capsule can be replaced without replacing the top housing. Continuous duty is assured; should the sensor be removed from the diaphragm seal, the process fluid is prevented from escaping. Easy cleaning and inspection of the diaphragm can be done during shutdown by detaching the top and bottom housings.

This design eliminates the need to refill the seal or recalibrate the instrument when the top and bottom housings are separated. A FKM O-ring, compatible with all standard fill fluids, and a PTFE backup ring, make a seal between the diaphragm capsule and the top housing. The diaphragm is PTFE coated to provide an integral gasket, thus ensuring a leakproof connection between the diaphragm and bottom housing. The 100 Series consists of a diaphragm capsule with a corrugated, metallic diaphragm edge welded to a sturdy backup plate that threads into the top housing. Once secured, the top housing can be bolted to the bottom housing. The bottom housing has a standard ½ NPT fitting that easily threads to the process piping.

102 Series

Virtually identical to the 100 Series in both performance and design, the 102 Series includes a standard #150 raised face flange in place of a threaded female NPT process fitting. For more rugged applications, an optional #300 raised face flange is also available.

202 Series

The 202 Series diaphragm seal features a bonded PTFE diaphragm and a PTFE #150 raised face flange. This all-PTFE wetted construction provides ruggedness and maximum corrosion resistance to acids, caustics, alkalis, ketones, hydrocarbons, and alcohols. In the new 202 design, the PTFE diaphragm is bonded to the top housing, allowing the top housing and instrument to be removed without losing the fill fluid.

OMEGA diaphragm pressure seals are available for use with OMEGA pressure instrumentation:

- Pressure Transducers
PX602 (p. B-34), PX603 (p. B-81),
PX605 (p. B-122), PX673 (p. B-97),
PX675 (p. B-146)
- Dial Pressure Gauges
PGH (p. G-61), PGJ (p. G-61),
PGT Series (p. G-63)
- Pressure Switches
PSW-300 (p. H-23), PSW-370 (p. H-25),
PSW-350 (p. H-26), PSW-400 (p. H-41)

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