



## GAUGE ISOLATOR

- Low cost Isolator provides protection against freezing and plugging.
- Available in Viton® or EPDM
- Replaces a Diaphragm Seal in many applications

A sleeve type Viton® or EPDM isolator that will protect against freezing, corrosive and plugging media (such as crude oil, slurries, etc.) is an option available on Perma-Cal gauges.

The isolator is inserted into the 316 stainless steel fitting (See the illustration) and the internals are filled with a noncompressible fluid<sup>1</sup> which transmits the pressure to the elastic element. The internals are thereby protected from harmful media or freezing.

The model 400 Viton® isolator can be used to measure full pressure with temperatures from -40°F (-40°C) to +400°F (+240°C) with out the loss of gauge accuracy.<sup>2</sup>

Isolators are not recommended for use in any pneumatic system because pressurized gasses may pass through the semi-permeable membrane of the elastomer.

### Notes:

1. Fill fluids may include Silicone Oil, food grade Mineral Oil or Ethylene Glycol. Other fills are available on request.
2. Isolators are not recommended on ¼% F.S. gauges of 100 psi or less, all compound ranges, and ½% F.S. gauges of 60 psi or less. There may be some loss of accuracy at very low pressures in any range.

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