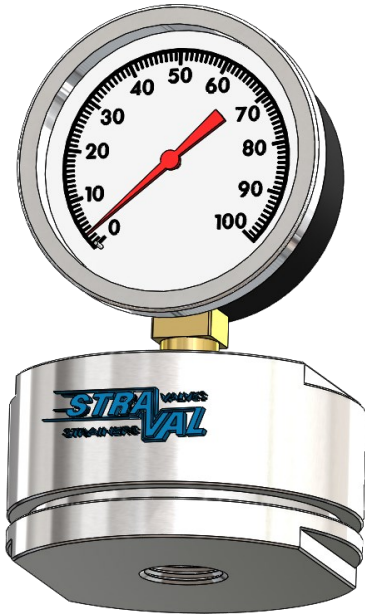


OPERATING INSTRUCTIONS

MODEL GIS-20 THD

ISOLATOR / GUARD



APPLICATIONS:

Isolator / guard is designed to protect delicate instruments from process fluids. It can be utilized with pressure gauges (up to 3.5" diameter Max), sensors, switches or any other instrument you would like to protect under pressure from the process fluid. (Instruments used should not require more than .2 cubic inches of displacement to operate properly through their entire range!)

With a variety of construction material options we can cater to most applications, while not contaminating the process fluid, and protecting the monitoring instruments.

PRINCIPLE OF OPERATION

The isolator must be filled with a temperature stable transfer fluid in the cavity between the diaphragm and instrument you are trying to protect. (Glycerin or mineral oil are typically used for most applications)

The process fluid acts on the diaphragm's and the transfer fluid will trigger the instrument installed on the opposite side for proper monitoring.

Note: The isolator instrument side must be properly filled with transfer fluid and free of air pockets. (See instructions sheet for additional details.)

INSTALLATION AND FILLING

Confirm the O-ring is in the isolator groove. Verify that NO thread sealer is placed on the instrument.

Fill instrument side of the isolator with a clean temperature stable transfer fluid. (Glycerin, mineral oil, or other.) Using a syringe or similar device fill the cavity through the 1/4" npt port. USE CAUTION NOT TO PIERCE THE DIAPHRAGM!!! Fill cavity past the O-ring seal in the housing. Be sure to move isolator side to side while filling to eliminate the possibility of air pockets which will impact accuracy of readings.

Prepare instrument for filling by cleaning threads and filling it with the same fluid and the isolator. Utilize a similar method as above and fill solid. Be sure NOT to use any PTFE or other thread sealer when installing the instrument on to the isolator.

Slowly thread the instrument on to the isolator allowing for any excess fluid to bleed towards the threads during assembly.

Assembly is complete when the instrument bottoms out on the O-ring inside of the isolator.

SPECIFICATION

Volumetric Displacement: .22 Cubic Inches

Maximum Pressure: 300 Psig

Maximum Temp: 350 Deg. F when specified with a Viton Diaphragm, and 200 Deg. F. if specified with Buna Diaphragm.

Accuracy: 1% of full scale

Process connection: 1/2" Female NPT

Instrument connection: 1/4" Female NPT

Dimensions: 3 1/4" Diameter X 1 3/4" height

B.O.M. Details see chart below:

Isolator / Guard Specifications			
Item #	Description	Material	Qty
1	Housing	303, 316, HastC276, Monel 400, or Titanium as specified	1
2	Seal	Viton	1
3	Diaphragm	Viton or BUNA as Specified	1
4	Body	303, 316, HastC276, Monel 400, or Titanium as specified	1

