

# INSTALLATION INSTRUCTIONS

## SERIES GGME MINIATURE GAUGE GUARDS

**MATERIALS OF CONSTRUCTION:** Housing is natural polypro on media side, glass-filled on the gauge side. Diaphragm is FKM or Buna-N. Be sure your application is chemically compatible. If in doubt, consult factory.

**FILLING:** For filling large quantities of gauges, a vacuum fill system is recommended for the gauge. For manual filling, the method described here works well with 2" bourdon-tube gauges, ranges 60 PSIG and up. For other ranges, sizes or types of instruments, consult factory.

Bottom face of 1/4" NPT male instrument fitting must be flat and smooth with a 1/4" maximum hole diameter to seal against GGME port O-ring (see sketch).



Use a fill liquid suitable for instrument, gauge guard, diaphragm and operating conditions: water, mineral oil, glycerine, etc.

- 1) Fill the GGME 1/4" female port just above the O-ring, tilting body in all directions to eliminate air.
- 2) Fill hole in the inverted gauge with liquids. With thumb sealing hole and *gauge facing palm (in right hand), or away from palm (in left hand)*, shake vigorously up-and-down a dozen times. Add liquid, repeat shaking and filling two more times, finally topping gauge with liquid. **Note:** DO NOT use thread sealant on gauge threads. Seal only against the O-ring to avoid trapping air and excess liquid.



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- 3) Invert instrument and screw into 1/4" GGME port. It is normal for air and excess fill liquid to be forced past threads during tightening. **HAND TIGHTEN ONLY.** Continue until the instrument bottoms against the O-ring seal, indicated by increased resistance.

If the instrument displays excessive zero offset, back off one turn. Insert eraser end of pencil or 3/8" diameter smooth-end rod through the hole on the 1/2" NPT male port. Press upward slightly while retightening the instrument to expel a small amount of liquid past threads. Repeat until offset is corrected; remove the pencil or rod. Poor accuracy will result if too much liquid is expelled.

**NOTE:** After manual gauge filling, test assembled unit against a reference gauge. If out of tolerance, disassemble and refill.



- 4) Installation onto system: Apply PTFE tape or other suitable sealant to the 1/2" NPT male thread. **TIGHTEN BY HAND**, holding large diameter of the Mini Gauge Guard. **DO NOT** tighten by turning the instrument. **CAUTION:** Over tightening may damage the plastic thread or housing.

#### Maximum Pressure Ratings (PSIG)

Temperature	Liquids	Gases
70 - 100°F	160	100
100 - 185°F	160	30

Max. Temperature is 185°F      Min. Temperature is 40°F