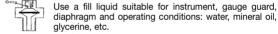
INSTALLATION INSTRUCTIONS SERIES GGME MINIATURE GAUGE GUARDS

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).



- 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 upand-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 Oring seal, indicated by increased resistance.

If the instrument displays excessive zero offset, back off one turn. Insert eraser end of pencil or 3 /s" 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)			
Tempe	erature	Liquids	Gases
70 -	100°F	160	100
100 -	185°F	160	30

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