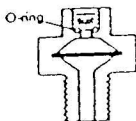


INSTALLATION INSTRUCTIONS SERIES GG GAUGE GUARD

Materials of Construction: Housing is glass-filled Polypropylene and diaphragm is Viton or Buna-N. Be sure your application is chemically compatible.

Filling: For filling large quantities of gauges, a vacuum fill method is recommended. For manual filling, the method described here works well with 2" bourdon-tube gauges, ranges 60 psi and up.

Bottom face of 1/4" NPT male instrument fitting must be flat and smooth with a 1/4" maximum hole diameter to seal against the GG port O-ring (see sketch). Use a fill liquid suitable for the instrument, gauge guard, diaphragm and operating conditions: water, mineral oil, glycerine, etc.



- 1) Fill the GG 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 liquid. 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.



Dwyer.

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- 3) Invert instrument and screw into 1/4" GG 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 in the 1/2" NPT port. Press upward slightly while retightening the instrument to expel a small amount of liquid past the threads. Repeat until offset is corrected; remove the pencil 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) Apply teflon tape or other suitable sealant to the 1/2" NPT male thread. **TIGHTEN BY HAND**, holding large diameter of the gauge guard. **DO NOT** tighten by turning the instrument. **CAUTION:** Over-tightening may damage the plastic thread or housing.



Max Pressure Ratings (psig)		
Temperature	Liquids	Gases
70-100°F	160	100
100-185°F	160	30
Maximum Temperature is 185°F		

BULLETIN A-30-GG

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CAUTION!

Pressure & Vacuum

Gauges Must Be

Hand-Tightened

Only Against The

Inside O-Ring.

Wrenches Can Cause

Breakage.