

## SERIES MTG Mini TUFF GUARD ISOLATORS

### Materials of Construction:

**Body:** PVC, CPVC, PP and PVDF

**Diaphragm:** PTFE/FKM Composite, Media side, PTFE- Instrument side, FKM

### Filling the Mini TUFF Guard upper chamber:

The upper chamber, above the diaphragm, must be filled with a liquid compatible with the instrument, isolator, diaphragm and operating conditions. Aqueous glycerine, mineral oil, silicone oil, water or other compatible liquids may be used. Fill the upper chamber through the orifice at the bottom of the instrument thread, making sure not to bridge the orifice, trapping air in the upper chamber. Fill level should be just above the o-ring, instrument seal.

### Filling the instrument:

The bottom face of the 1/4" NPT instrument thread should be flat and smooth with a 1/4" maximum hole diameter. Fill the instrument by inverting and adding the same fill liquid through the instrument hole or orifice. Additional air may be vented from gauges by covering the orifice with your thumb and the gauge face facing the palm. Shake vigorously up and down. Add additional liquid. Repeat as necessary.

**Note:** Never use thread sealant of any type on the instrument thread! The instrument will seal on the o-ring provided at the bottom of the female instrument thread. This is a venting thread which allows pressure to escape during assembly.

### Assembling the instrument to the isolator:

Invert the instrument and screw into the 1/4" NPT female venting thread. Continue until the instrument bottoms against the o-ring and an increased resistance is felt. Hand tighten only.

### System Installation

Using high density PTFE thread sealant tape, apply 3 to 4 wraps to the male thread of the isolator or male thread of the system connection. Join the instrument/isolator assembly by screwing together. Tighten using the larger diameter of the upper chamber of the isolator or the wrench flats provided on the lower chamber. Do not tighten using the instrument. When removing the assembly from the system, use only the wrench flats provided on the lower chamber.



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For Technical Assistance, Call Us Toll Free: 866-452-2349