

# Quick Start Guide



## Filling the GI Series Isolator

The fitting must be filled  
The compressed air supply must be available

1. Fill the upper chamber(item #2) with suitable transmitter fluid. Ensure there are no air bubbles trapped inside chamber

NOTICE

### **Damage to the Process Diaphragm due to lack of transmitter fluid!**

Before commissioning, make sure that the GI Series isolator is sufficiently filled with transmitter fluid.

### **Damage to the Process Diaphragm Using Compressed Air!**

Apply compressed air to the fitting only for very short periods of time. When doing so, do not exceed the permissible pressure of the pressure gauge that is used.

1. Screw the pressure gauge (1) clockwise into the upper part (2) .
  2. Rotate the fitting until the pressure gauge (1) is facing vertically downwards.
  3. Connect the compressed air supply to the bottom section (6).
  4. Switch on the compressed air supply and apply compressed air to the fitting for short periods of time. The transmitter fluid is pushed into the pressure gauge.
  5. Switch off the compressed air supply and carefully detach it from the fitting.
  6. Rotate the fitting until the pressure gauge (1) is in the upright position.
  7. Unscrew the pressure gauge (1) from the upper part (2).
  8. Check the fill level in the upper part (2) and depending on the situation proceed as follows:
    - If the Fill Level is Sufficient: continue with process.
- OR –
- If the Fill Level is too low: Top up the transmitter fluid (4) in the upper part (2). Repeat process steps 1 to 8 until there is sufficient transmitter fluid in the pressure gauge.
9. Check the thread seal, and depending on the type of thread proceed as follows:
    - G-Type Upper Chamber - Ensure O-Ring is in Place
    - NPT Type- If Required sealing tape around the thread of the pressure gauge (1).
  10. Screw the pressure gauge clockwise into the upper part (2)
  11. Ensure the pressure gauge is zeroed. The fitting is now ready to be installed

## Installing Isolator

- ✓ The Pressure Gauge **Must Be Mounted** on the Isolator
- ✓ The Isolator **Must be Filled** with the Transmitter Fluid.
- ✓ The Pressure Gauge Bourdon Tube **Must Be Filled** with the Transmitter Fluid.  
(Follow Instructions Below)

## Layout and Function

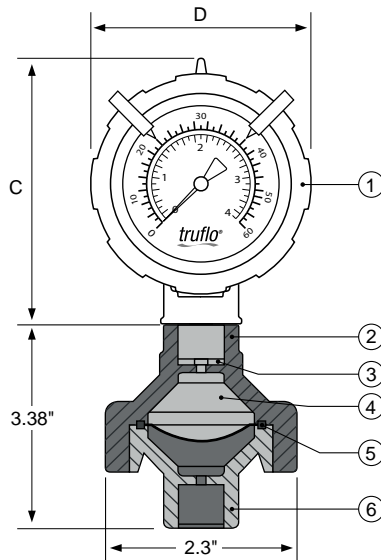
Transmitter Fluid
Glycol (ethylene glycol) Glycerin   Silicone
Antifreeze (such as Glystantine or Aral Antifreeze)
De-mineralized water* \ Halo Carbon

## Tightening Torques

Description	Torque
Pressure gauge	Hand-Tight,
Upper Chamber	22 ft-lbs
Process Connection	Hand-Tight



1. Pressure Gauge Connection - 1/4" NPT
2. Upper Bonnet
3. Process Diaphragm
4. Lower Process Connection - 1/2"



## PARTS

No.	Part	Materials
1	Pressure Gauge	PP   316 SS
2	Bonnet	PPG   PVDF
3	O-Ring	FPM*
4	Liquid Fill	Glycerin   Silicone
5	Diaphragm	PTFE Bonded EPDM
6	Lower Chamber	PVC   PPG   PVDF

\* G Thread Gauge Only

## OPTIONAL GAUGES

TruFlo offers the gauges listed below mounted to isolator and pre-filled with glycerin, silicone or special fluid for chlorine applications. TruFlo gauges have a PP plastic housing and the cases are normally filled with either glycerin or silicone for corrosion resistance and dampening.

TruFlo GI Series gauge isolators are not recommended for vacuum applications.

## DIMENSIONS (INCHES)

Gauge Diameter	Item No.	Gauge Connection	Housing	Bourdon Tube	Window	Accuracy	Dimensions	
							C	D(max.)
2-1/2"	OBS-xx	1/4"	PP	316 SS	Polycarbonate	±0.75% of span	3.6	3.1
2-1/2" Double-Sided	OBS-DGOxx-	1/4"	PP	316 SS	Polycarbonate	±0.75% of span	3.6	3.1
2-1/2" Back Mount	OBS--xx-	1/4"	PP	316 SS	Polycarbonate	±0.75% of span	3.6	3.1
4-1/2"	OBS4--xx-	1/4"	PP	316 SS	Polycarbonate	±0.5% of span	6.0	6..0

xx denotes the maximum gauge pressure i.e., 30 / 60 / 100 / 160 psi. See data page for recommended working pressures. Other Ranges are available

## WORKING PRESSURES (psi) \*(Non-Shock)

## WEIGHTS

Material	10 – 20°C 50 – 68°F	30°C 86°F	40°C 104°F	50°C 122°F	60°C 140°F	70°C 158°F	80°C 176°F	90°C 194°F	100°C 212°F	120°C 248°F	Net Weights Pounds <sup>3</sup>
PVC	150	100	80	45	15	-	-	-	-	-	1.0
PP	150	125	100	80	65	45	-	-	-	-	0.7
PVDF	150	150	150	125	105	85	70	60	45	30	1.3