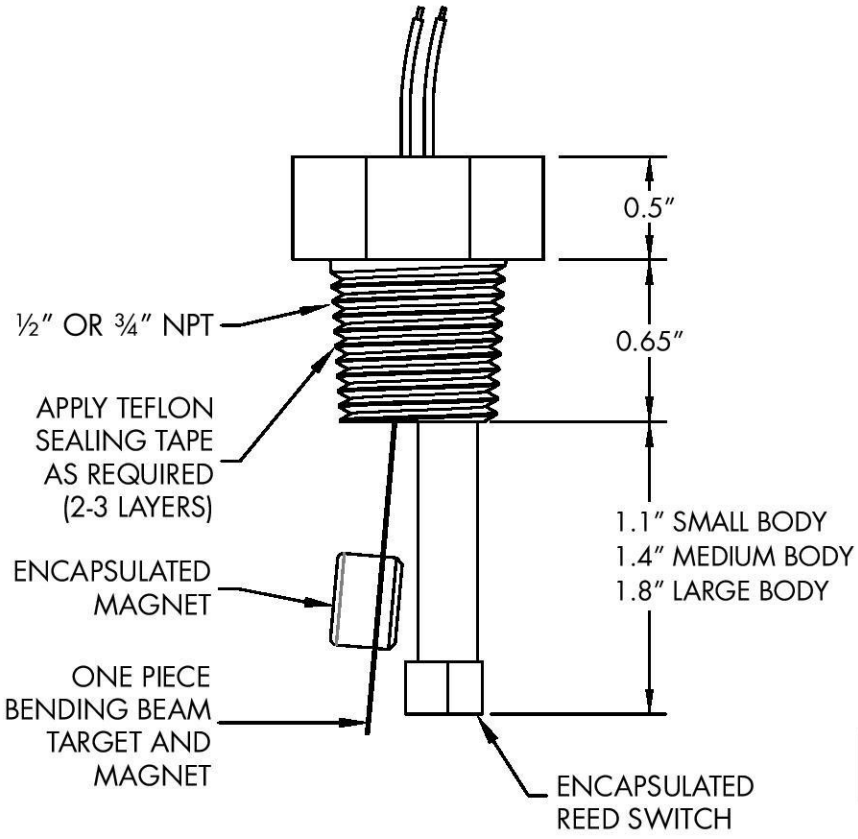
Chemtrol®
Leader in Chemical Automation Since 1976

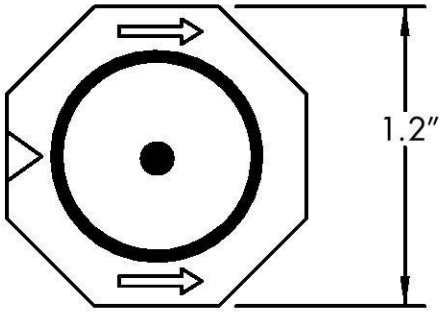
FLUID FLOW SWITCH

ULTRA RELIABLE SINCE 1956

SIDE VIEW



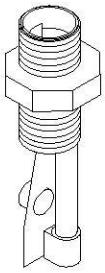
TOP VIEW



- Pressure drop typically less than 1.0 psi at rated flow.
- Mount in any position.

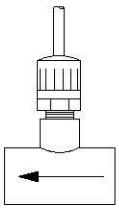
OPTION 3 GROMMET SELECTION CHART

Grommet Size	Cable OD	Grommet Size	Cable OD
A	0.25″	B	0.375″
AA	0.33″	C	0.50″



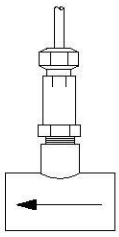
OPTION 1

BASIC UNIT SUPPLIED WITH TWO 0.187 x 0.020 MALE SPADE TERMINALS RECESSED IN ½″ NPT NIPPLE SECTION.



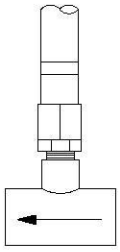
OPTION 2

BASIC UNIT WITH TWO-CONDUCTOR INSTRUMENT CABLE POTTED IN PLACE. PVC TEE OPTIONAL.



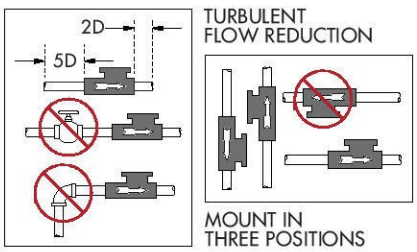
OPTION 3

BASIC UNIT W/ DMP TAPERED RUBBER GROMMET ATTACHMENT FOR WATERTIGHT SEAL & STRAIN RELIEF. PVC TEE OPTIONAL.



OPTION 4

BASIC UNIT WITH ½″ FLEXIBLE SPIRADUCT PLASTIC CONDUIT & FITTINGS. ELECTRICAL CABLE NOT SUPPLIED. PVC TEE OPTIONAL.



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INSTALLATION AND OPERATING INSTRUCTIONS

Flow switch should be mounted at least 5 pipe diameters downstream and 2 pipe diameters upstream of any source of turbulence, such as valves, elbows, reducers, etc.

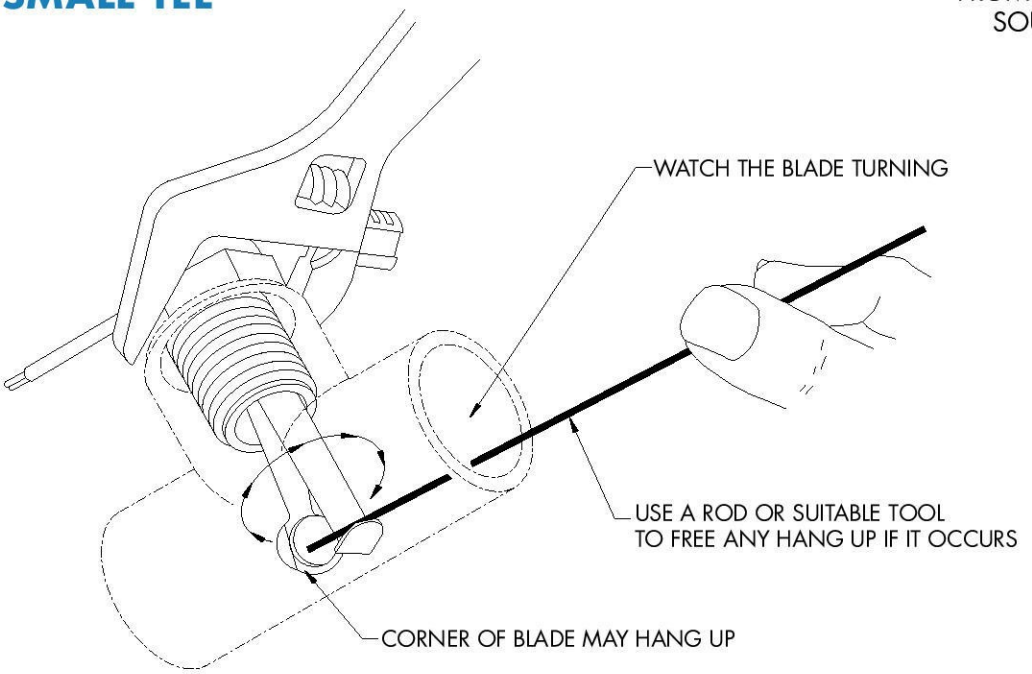
1. Remove unit from shipping box and inspect it for possible damage (i.e., cracks, damaged threads, deformed bending beam, etc.)
2. Check model number on label with that shown on **packing list vs. configuration actually received (return to** supplier if discrepancy is found).
3. Place a multimeter or equivalent test meter across the two wire leads coming from the unit and check for proper switch operation by gently moving bending beam and magnetic assembly toward switch support tube. Switch should activate when separation is in the range 1/8" to 3/16".
4. If no discrepancy is found, thread unit into appropriate tee.
5. Care must be exercised during threading operation to insure threads are not crossed and the bending beam target assembly does not touch the inside surface of the tee.

NOTE: It may be necessary to test fit the unit in a tee identical to the tee mounted in the flow line to ensure adequate clearance during rotational insertion sequence. For black iron and galvanized tees, check for possible hang up of bending beam due to attraction of magnet to interior metal wall.

6. **Tighten unit in tee until fluid leaks are eliminated, flow** target is approximately centered along axis of pipe **and flow direction arrows located on unit are aligned parallel with flow in pipe. When threading into PVC fittings 2-3 layers of Teflon sealing tape is recommended. Tighten 2-3 turns beyond finger tight.**
7. Complete wiring to signal processor, light, relay, etc. per local code.

CAUTION

INSTALLATION OR REMOVAL OF FLOW SWITCH FROM SMALL TEE



WIRING DIAGRAM