

MODEL Q-12

Q-12N, Q-12CR, Q-12DS (TEMPERATURE: QT-12)

HARWIL CORPORATION

541 KINETIC DRIVE, OXNARD, CA 93030
TEL: (805) 988-6800

INSTALLATION INSTRUCTIONS

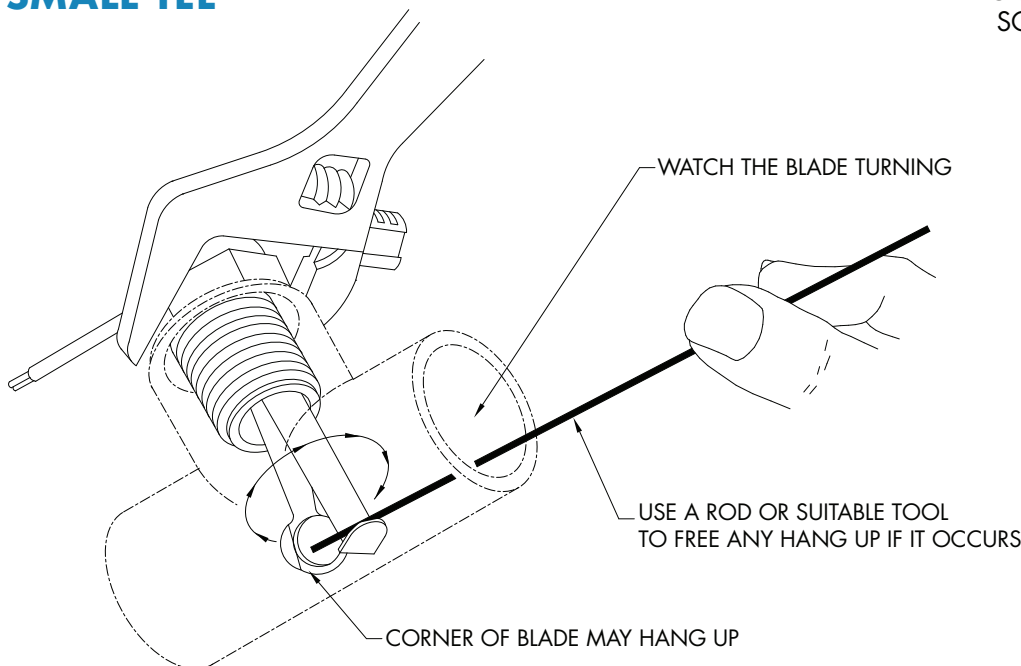
Flow switch should be mounted at least 5 pipe diameters downstream and 2 pipe diameters upstream of any source of turbulence, such as valves, elbows, reducers, etc.

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 $\frac{1}{8}$ " to $\frac{3}{16}$ ".
4. If no discrepancy is found, thread unit into appropriate tee.
5. Care must be exercised during threading operation to

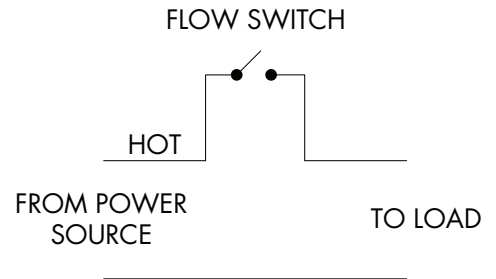
insure threads are not crossed and the bending beam target assembly does not touch the inside surface of the tee.

- 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



Temperature QT-12

A temperature sensor is included on the QT models. The wiring is Black-Red for the switch and Green-White for the temperature sensor.

