

INSTALLATION INSTRUCTIONS



ROTARY FLOW METER

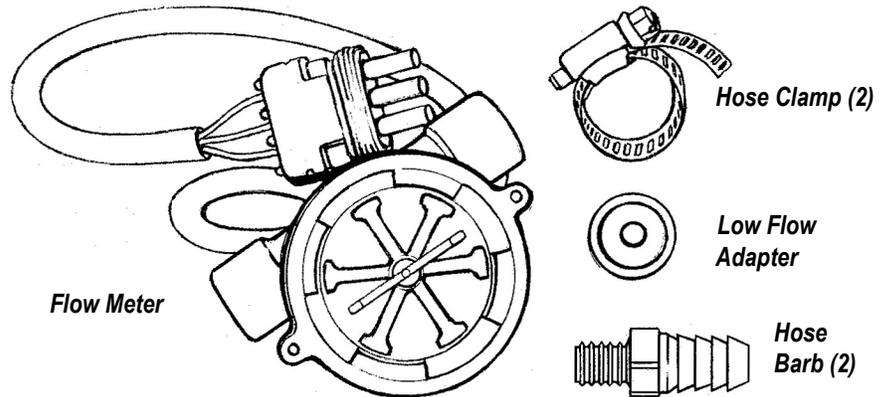
The DICKEY-john Rotary Flow Meter (Figure 1) measures two flow ranges:

- 0.5 to 5.0 gallons per minute
- 0.2 to 2.0 gallons per minute (if a low flow adapter is installed)

Included with the flow meter are hose barsbs and clamps for connection to 1/2" tubing.

Figure 1

Flow Meter Parts

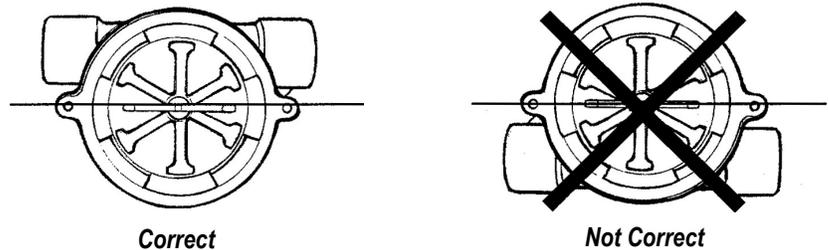


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- Either port of the meter can be used as the inlet.
- The unit has 1/4" NPT female threads on both ports.
- Use pipe thread compound or tape on all threaded connections.
- Mount the meter with the inlet/outlet ports above the rotor center as much as possible (Figure 2).
- If used, the low flow adapter should be placed into the inlet side of the meter (Figure 3).
- A catch test should be performed to accurately calibrate the flow meter.
 - Inspect all plumbing connections for leaks during catch test.

Figure 2

Mount with Ports Above Center



NOTE: It is advantageous to place the meter with the lens visible during normal operation to view and verify flow.

1. Determine the mounting location. The unit is mounted with the inlet/outlet ports above the rotor center as much as possible to prevent air being trapped in the unit. Either side of the meter can be used as the inlet.
2. If using the upper flow range (0.5 - 5 GPM), proceed to step 3. The low flow adapter (nylon orifice washer) must be inserted into the inlet side of the meter

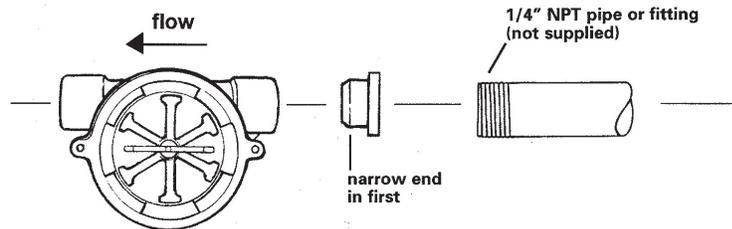
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(Figure 3). The narrow end of the adapter goes into the meter first. The adapter is held in place by a 1/4" male NPT pipe or fitting.

Figure 3

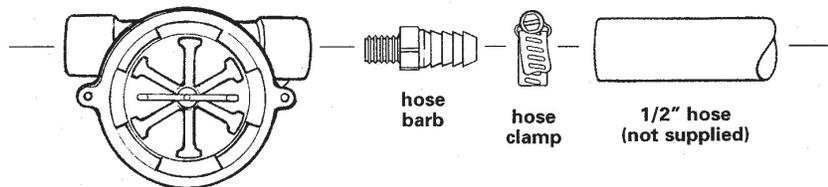
Low Flow Adapter into the Inlet Side of the Meter



3. The unit is plumbed into place using 1/4" NPT pipe. If desired, the supplied hose barbs and clamps connect the unit to 1/2" hose.
 - Tighten the hose clamps securely.

Figure 4

Hose Barbs and Clamps Allow Connection 1/2" to 1/2" Hose



4. Connect the electrical connector to the flow meter line of the wiring harness.
5. Perform a catch test to accurately determine the flow meter K Factor. Reference the operator's manual on how to perform a catch test.

Nominal values for the K factor are:

- 2000 pulses per gallon without the low flow adapter (0.5 to 5.0 GPM)
- 5300 pulses per gallon with the low flow adapter (0.2 to 2.0 GPM)

The constants determined during catch testing may differ from the above nominal values.

Contact DICKEY-john Technical Support at 1-800-637-3302 for assistance.

Specifications subject to change without notice.