50-316-C Draft beer flow meter

PLEASE READ BEFORE USING THE FLOW METER

Description: Analog draft beer flow meter

Signal:

1. A small magnet rotating inside a coil of magnet wire located in the mid section produce an AC pulse train from 0 to 0.6 Volts.

2. The signal generated by the flow meter is amplified and digitized by the Auper metering system to produce a square pulse proportional in frequency to the flow rate of the liquid passing through the flow meter.

Typical flow rate usage: 2 Oz/sec

Typical frequency: 30-36 Hz

Minimum flow rate: 0.5 Oz/sec

Wires: NO polarities

Assembly:

Tubing adapters should be installed at room temperature to keep the neopren washers soft. Tighten by hand holding the lexan nuts with both hands. Faucet wrenchs can be used as well. For John Guest adapters, use two wrenchs to tighten the tubing adapters. DO NOT OVER TIGHTEN.

WARNING: There is a coil of magnet wire in the mid section. Never hold the flow meter by its mid section when tightening the tubing adapters.

Installation:

Untap the keg and open the beertap to depressurize the beer tubing before installing the flow meter.

When done, reconnect the keg coupler and serve beer to evacuate the air pocket created by the installation of the flow meter.

Check for leaks.

Auper Electronic Controls Inc
1-222 Poirier, St-Eustache, Québec, J7R 6B1

email: info@auper.com
Ph : 1-450-663-1993

50-316-C Draft beer flow meter

Wiring:

Touching or inverting wires will not cause any damage. Shorted wires will simply cancel the flow meter pulses.

Mounting:

The flow meter should be held in place using cable ties or plastic clamps at both ends. **DO NOT SECURE THE FLOW METER BY ITS MID SECTION to avoid damaging the coil.**

Flow direction

The flow meter will only produce pulses when mounted in one direction. Install the flow meter with the arrow pointing toward the beer tap. An inverted flow meter will not generate pulses. A flow meter generates approximately 16-18 pulses per ounce (30 ml).

Magnetic sources:

The coil inside the flow meter is sensitive and will pick-up AC interferences if installed too close to **AC MOTORS, AC SOLENOIDS or TRANSFORMERS.** A typical 50/60 HZ frequency will generate 50/60 pulses per second at the flow meter if pick-up by the coil. **Mount the flow meter 30 cm or more from these.**

Rubber coating option:

The rubber coating option is recommended for very humid regions, ocean shores or areas with high levels of condensation. The rubber coating is not designed to submerge the flow meter for extended periods. The cable should be restricted from movement and secured in its natural position to reduce the stress on the rubber where the cable goes in the flow meter.

Check valves:

If the flow meters are mounted after a tee in the beer tubing, a check valve may be required to prevent unwanted movement of the flow meter propeller caused by pressure drops in the tubing when the other faucet(s) are opened.

Cleaning:

Flow meters in draft beer are cleaned using beer line cleaning chemicals following the same schedule as the beer dispensing system. Flow meters should not be left in empty beer tubing for long periods as the propellers may eventually jam in dried beer.

Auper Electronic Controls Inc
1-222 Poirier, St-Eustache, Québec, J7R 6B1
email: info@auper.com
Ph : 1-450-663-1993