Auper Flow meters

History and description

 T

he Auper draft beer flow meter was designed in the early 1980's, at a time when Canadian breweries expressed a lot of **concern about flow meters** inserted in their customers beer tubing. The flow meters that had been installed in draft beer tubing until then had been **causing disturbance leading to excessive foaming** at the beer tap. To **compensate**, people tampered with the beer system settings to **reduce the flow,** often to half the normal flow rate to get less disturbance. This was the kind of scrutiny we were under when we started the project in 1983.

After 2 years of R&D, the end result is a unique **low profile propeller** that spins in beer **without agitating the liquid** as other propellers can. The unique design of the assembly **eliminates disturbances and cavitations** which can **agitate the CO2**. It makes a big difference with all carbonated beverages. Since 1985, thousands of these flowmeters have been sold and installed in beer systems around the world and they have never been known to cause additional foam in beer, but have always been known for their **long service life, stability and precision.**

The materials used are not affected by the harsh chemicals used to clean and disinfect the beer tubes. The propeller rotates on a passivated 316 stainless steel shaft with free rotation to reduce friction. The propeller will resist speeding caused by compressed gas. This flow meter will provide many years of reliable service. **Maintenance comes down to the normal cleaning schedule for the draft beer dispensing system.**

Auper analog flow meter

The original Auper flow meter, the analog flow meter is used on all Auper metering systems.

Analog flow meters offer distinct advantages

- Only two wires to connect with no polarities.
- No electronic circuit to feed. It does not require power.
- Will not be damaged if leads are shorted or if it is wired incorrectly.

- Will not be damaged by electrical surges.

An analog flow meter is very resistant. It will last a very long time with little service if any in its life time.

Auper digital flow meter

The digital version of our flow meters is built with a tiny electronic circuit to convert the analog signal into a **square pulse train** ready to connect to third parties electronic digital systems requiring a **5 to 24 volts DC.** The square pulses generated are very long when compared to the very short pulse from Hall effects sensors hitting a small magnet. This characteristic helps reduce the scanning frequency of your electronic system to detect a pulse change.