



Chemtec "Hockey Puck" Flow Meters

General Description

Chemtec "Hockey Puck" flowmeters provide an accurate, low cost approach for small volume metering. These meters, constructed of a stainless steel body and gears, may be used to inject a wide variety of fuel additives or dyes. The oval gear design offers high accuracy and low pressure drop. Meters include sensor for non-factored pulse output. Sensors are either UL / CUL or ATEX listed and are approved for use in hazardous area locations.



Meter with Cover Removed



Chemtec 538 Meter

Design Features

- Compact, stainless steel design
High quality, reliable, and accurate to 0.25-0.50% of flow rate
- Oval gear design with low pressure drop
- Sensors are 5-30 VDC Hall-effect or Reed switch type. Sensors are either UL/CUL or ATEX listed and are approved for use in hazardous areas

Model 518

For dye, marker, ethyl mercaptan and other low dosage fuel additives

Flow rate 0.03 - 0.3 GPM (0.12 - 1.2 LPM) @ 1cSt

Maximum operating pressure 300 PSIG

Maximum Differential Pressure 145 PSIG

Accuracy 0.25-0.50% of flow

Nominal resolution 6,000 PPG

Model 538

For most gasoline & diesel additives

Flow rate 0.3 - 3.0 GPM (1.2 - 12 LPM) @ 1cSt

Maximum operating pressure 300 PSIG

Maximum Differential Pressure 145 PSIG

Accuracy 0.25-0.50% of flow

Nominal resolution 2,600 PPG

Technical Data

Electrical

Sensor Hall-Effect type, non-intrusive, 3-wire, 5-30 VDC, or Reed Switch, non-intrusive, 2-wire, 5-30 VDC. Both sensors ATEX approved for use in Zone 1 hazardous locations.

Important Notes Related To Wiring The Hall-Effect Sensor

1. POWER = RED, NEUTRAL = BLACK, and PULSE = BLUE, CLEAR, OR WHITE

2. Depending on the master controller used, a "pull-up" resistor may*** be required in order for the controller to count additive meter pulses properly. A "pull-up" resistor is normally NOT required.

*** If a pull-up resistor is required, use a 5.6K ohm resistor for 12VDC powered systems and a 10K ohm resistor for 24VDC powered systems. Mount the resistor across the BLUE (pulse) and the RED (power) sensor wires. Use of a resistor that is not properly sized may damage the sensor.

3. In order to prevent damage to the DC powered sensor, terminate the Black Neutral wire first, then terminate the Pulse wire second, then terminate the RED Power wire LAST.

Mechanical

Elastomers Teflon o-ring for meter cover

Meter Gears Oval gear design, 300 series stainless steel (standard)

Connections 3/8" FNPT Inlet and Outlet

Product Ordering

Model Number	Type of Sensor
518	0 - UL
538	1 - ATEX

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