

# Hockey Puck

## Small Volume Flow Metering

### MARKET

Energy Infrastructure

### AVAILABLE

Worldwide

Chemtec "Hockey Puck" flow meters 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.

### DESIGN FEATURES

- **Oval gear design with low pressure drop**
- **Compact, stainless steel design**  
High quality, reliable, and accurate to 0.25-0.50% of flow rate
- **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**



Chemtec 538 Meter



Meter with Cover Removed

### 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 1200 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 1200 PSIG
- Maximum Differential Pressure 145 PSIG
- Accuracy 0.25-0.50% of flow
- Nominal resolution 2,600 PPG

## DATASHEET

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### Chemtec Energy Services Hockey Puck Meters

#### 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: **518**

Type of Sensor: **0 - UL**

Model Number: **538**

Type of Sensor: **1 - ATEX**