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## **AMCO 4 & ABB 8 OIL METERS – 1/8" & 1/4"**

### ***INSTALLATION/START- UP INSTRUCTIONS***

#### **INTRODUCTION**

The meters are a volumetric type operating on the oscillating piston principle. This utilizes a piston which the oil rotates in a measuring chamber, each piston revolution being equivalent to a known volume of oil. The piston movement is transferred by a magnetic drive to appropriate reduction gearing and direct reading register calibrated in U.S. gallons or Cubic meters (m<sup>3</sup>/ liters). All sizes are capable of a wide range of viscosity; please refer to the appropriate specification sheet for details. We suggest a strainer be installed ahead of the meter to protect the meter.

All materials in the meter have been selected for their ability to withstand wear and corrosion and to have a long working life with a minimum of maintenance.

#### **INSTALLATION**

The meter must be installed in a clean pipeline, free from any foreign materials.

The meter must be inserted with the flow in the direction of the arrow molded, or cast, into the meter body. Meter may be installed horizontally, vertically or on any plane in between.

The connections are 1/8" FNPT and 1/4" FNPT on the bottom of the meter. If you wish to install the meter in a horizontal plane, we suggest you purchase two 90° street elbows of the appropriate size and install them with the open ends facing in opposite directions. This will allow you to connect to the horizontal piping.

#### **MAINTENANCE/LUBRICATION**

There are no maintenance or lubrication requirements, however you can set up an appropriate inspection schedule, for your application, to check these meters.

## START-UP PROCEDURE

The meter piston can be damaged if the meter is subjected to full flow conditions prior to expelling all the air from the piping. Accordingly, turn on the flow gradually.

## W/REED SWITCH PULSER

AMCO 4: The ABB 4 has only one output frequency, 10 pulses per U.S. gallon and 10, 100 or 800 pulses per liter.

AMCO 8: The ABB 8 meter is available with both high and low speed outputs, 10 pulses per U. S. gallon (low) or 1216 pulses per U.S. gallon (high) and 1, 10 or 312 pulses per liter.

Max. Voltage: 48 VAC/DC

Max. Current: 50 mA

Max. Switch Power: 3W

Max. Resistor (47 Ohm) Power: 0.5W

On Time: 50  $\pm$  20%

No cable supplied.