DESCRIPTION

MODEL OF11 OPEN FLOW METERS are designed for accurate metering of ditch turnouts, reservoir outlets, closed conduits or other similar installations. The rigid, light weight construction and simple installation allow easy removal for winter storage or transfer to other locations. The upper mounting plate is equipped with a padlock hasp. The lower bracket has suitable guides for easy installation. An optional revolving mounting bracket, with padlock hasp, is also available. The revolving mounting bracket allows the meter assembly to be raised approximately 2 inches permitting the column to be rotated 180 degrees and easily withdrawn. The revolving mounting bracket is ideal when high velocity flow conditions exist.

INSTALLATION can be made to any wall or vertical structure which will center the propeller in the flow measuring area. The meter location must have a controlled flow measuring area and a full flow of liquid for proper accuracy. Fully opened gate valves, fittings or other obstructions that tend to set up flow disturbances should be a minimum of ten pipe diameters upstream from the meter. Installations with less than ten pipe diameters of straight pipe required straightening vanes. Meters with straightening vanes require at least five pipe diameters upstream and one pipe diameter downstream of the meter.

PROPELLER is magnetically coupled with the drive mechanism through the sealed oil filled gearbox. This completely eliminates water entering the meter assembly, as well as the need for any packing gland. The propeller is a conical shaped three bladed propeller, injection molded of thermoplastic material resistant to normal water corrosion and deformity due to high flow velocities.

BEARING in 10" thru 48" propellers is a water lubricated ceramic sleeve and spindle bearing system with a ceramic/stainless steel spindle. Dual ceramic thrust bearings, standard on all 10"-48" meters and 54"-72" high velocity meters, handle flows in both forward and reverse directions. The low velocity 54"-72" propeller bearings are sealed stainless steel ball bearings that ride on a stainless steel spindle. The bearing design promotes extended periods of maintenance free propeller operation. Bearings within the sealed meter mechanism are shielded precision stainless steel bearings and are factory lubricated for the meter's life.

TOTALIZER is O-ring sealed and magnetically coupled with the driving mechanism, and features a six digit totalizer with a full 3" diameter, 100 division, center sweep dial that permits extremely accurate readings for timing purposes in determining flow rates. The totalizer dial can be furnished in any standard liquid measuring units. The bonnet, with padlock hasp, can be positioned in any direction for easy reading.

CHANGE GEARS may be easily exchanged in the field when changing the dial, or when recalibrating for different pipe sizes. It is not necessary to remove the meter from the line for these changes.

O-RING SEALS are used at all points where seals are required, making the meter mechanism completely immune to any of the corrosive effects of atmospheric moisture or the liquids measured by the meter assembly.

CALIBRATED TOTALIZERS are available and interchangeable with the totalizer mounted on the meter, each totalizer is enclosed in its own plastic case. These totalizers are calibrated for additional pipe I.D. sizes as specified by the customer to allow use of one meter on more than one installation. The totalizer dials can be furnished in any standard liquid measuring units. The calibrated pipe size is clearly indicated on the totalizer dial face.

EQUIPMENT

- MOUNTING BRACKETS - cast bronze
- METER HEAD - cast bronze
- DROP PIPE - bronze
- SEPARATOR - stainless steel
- SHAFTS AND BOLTS - stainless steel
- GEARBOX - cast bronze
- PROPELLER - injection molded thermoplastic
- INTERIOR BEARINGS - shielded stainless steel
- PROPELLER BEARING - ceramic sleeve type (10"-48" STD. & 54"-72" H.V.) or sealed stainless steel ball type (54"-72" L.V.)
- PROPELLER SPINDLE - ceramic sleeve on stainless steel (10"-48" STD & 54"-72" H.V.) or stainless steel (54"-72" L.V.)
- MAGNETS - permanent ceramic type
- SELECTED METAL - stainless steel (10"-48" STD. & 54"-72" H.V.) or sealed stainless steel ball type (54"-72" L.V.)
- MINIMUM & MAXIMUM FLOWS
- As shown for each meter size and construction are rated for continuous operation. See flow chart.
- As shown for each meter size are rated for 10% to 15% of the total time the meter is operating. Consult factory for High Velocity construction when intermittent flows are higher than shown on flow chart and/or when longer operating periods are required.

MATERIALS

- Used in construction are chosen to minimize the corrosive effects of the liquids measured by the meter assembly.
- MAGNETS - permanent ceramic type
- SELECTED METAL - stainless steel (10"-48" STD. & 54"-72" H.V.) or sealed stainless steel ball type (54"-72" L.V.)
- INTERMITTENT FLOWS
- As shown for each meter size and construction are rated for continuous operation. See flow chart.
- As shown for each meter size are rated for 10% to 15% of the total time the meter is operating. Consult factory for High Velocity construction when intermittent flows are higher than shown on flow chart and/or when longer operating periods are required.

ORDERING INFO

Must be specified by the customer and includes:
- "A" dimension (see back of data sheet)
- Pipe I.D.
- Minimum & maximum flow ranges
- L.O.P. - Oil or liquid, temperature of meter environment
- Totalizer dial units
- Type of materials and construction
- Optional equipment desired
### Model OF11

**Open Flow Meter**  
Sealed Meter Mechanism - Magnetic Drive  
Sealed Totalizer  
Sizes 10" thru 72"

#### Meter & Pipe Size

<table>
<thead>
<tr>
<th>Meter &amp; Pipe Size</th>
<th>Flow Ranges, GPM</th>
<th>Dimensions</th>
<th>Shipping Weight Pounds**</th>
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</table>

*NOTE: Model OF-11 meters are equipped with a 6 foot "A" dim. unless otherwise specified. Minimum flows will be higher on meters with drop pipe lengths over 6' long.

**NOTE: Shipping weights are approximate. Actual weight depends upon "A" dim.