MODEL LP04-D FLANGED TUBE METERS are designed for irrigation or other low pressure service up to 150 PSI working pressure. The meter assembly features a strap-on saddle that attaches to the tube by means of u-bolts or u-straps furnished with the meter. Flanged ends are 150 lb. AWWA class “D” flat face steel flanges. Fabricated steel meter tubes have straightening vanes and are protected internally and externally with 12-15 mils of fusion epoxy resin.

INSTALLATION is made similar to placing a short length of flanged end pipe in the line. The meter can be installed horizontally, or inclined on suction or discharge lines. The meter must have 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 five pipe diameters upstream and one pipe diameter downstream from the meter. An optional remote mounting kit with up to 100 feet of cable is available to locate the indicator-totizer at remote locations.

PROPELLER is magnetically coupled with the electronic sensor through the sealed gearbox. This completely eliminates water entering the meter assembly, and eliminates all moving parts except for the propeller. 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 propeller is a water lubricated ceramic sleeve bearing that rides on a ceramic coated stainless steel spindle. Dual ceramic thrust bearings, standard on all meters, handle flows in both forward and reverse directions. The bearing design promotes extended periods of maintenance free propeller operation.

DIGITAL INDICATOR-TOTALIZER has a non-volatile EEPROM memory to store totalizer count (updated hourly while running). It provides a large two line display. Five digit top line indicates flow rate, and eight digit bottom line provides volumetric flow data. Indicator is available with many different units, including GPM, CF, MGD. Totalizer is available in many different units, including Gallons, AF, CF. Units of measurement are user-selectable. Battery life is 6 - 10 years. Housing is NEMA 4X rated.

Available with optional 4-20mA and/or pulse output.

DESCRIPTION
ACCURACY
Plus or minus 2% of actual flow within the range specified for each meter size.
PRESSURE RANGE
Up to 150 PSI maximum working pressure.
TEMPERATURE RANGE
140° F Maximum. Consult factory for special construction for higher temperatures.
MINIMUM FLOWS
As shown for each meter size and construction are required for accurate registration. See flow chart.
NOTE: Minimum flow will be higher when auxiliary equipment is added.

MAXIMUM FLOWS
As shown for each meter size and construction are rated for continuous operation. See flow chart.
INTERMITTENT FLOWS
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
VERTICAL SHAFT BEARING - shielded stainless steel
PROPELLER BEARING - ceramic sleeve type
PROPELLER SPINDLE - ceramic coated stainless steel
PROPELLER - injection molded thermoplastic
GEARBOX - cast bronze
SEPARATOR - stainless steel
SHAFTS AND BOLTS - stainless steel
SADDLE - fusion epoxy coated ductile iron (4") - stainless steel (6" - 16")
LUG STRIPS - stainless steel (6" - 16")
U-BOLTS - (4") electro-galvanized dichromate sealed
101 B steel
U-STRAPS - stainless steel (6" - 16")
METER TUBE - fabricated steel with straightening vanes and coated inside and out with 12-15 mils of fusion epoxy by the fluidized bed method.

OPTIONAL EQUIPMENT
Includes a remote mounting kit, with up to 100 feet of cable, totalizer extensions, digital transmitter and a wide range of controls and instruments for indicating, totaling, and recording flow data for each meter.

ORDERING INFO
Must be specified by the customer and includes:
minimum and maximum flow ranges, temperature of meter environment, indicator scale & units, totalizer dial units, type of materials and construction, and optional equipment desired.
### Model LP04-D

150 psi Flanged Tube Meter
SOLID STATE ELECTRONIC PROPELLER METER
STRAP-ON SADDLE
DIGITAL INDICATOR-TOTALIZER
SIZES 4” thru 16”

#### Flow Ranges, GPM

<table>
<thead>
<tr>
<th>Meter &amp; Pipe Size</th>
<th>Min.</th>
<th>Max.</th>
<th>Int.</th>
<th>Dim.</th>
<th>Shipping Weight Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>80</td>
<td>500</td>
<td>700</td>
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<tr>
<td>6</td>
<td>200</td>
<td>1200</td>
<td>1500</td>
<td>22</td>
<td>11</td>
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<td>1500</td>
<td>2000</td>
<td>24</td>
<td>13½</td>
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<td>3000</td>
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<tr>
<td>16</td>
<td>500</td>
<td>5000</td>
<td>6000</td>
<td>48</td>
<td>23½</td>
</tr>
</tbody>
</table>

#### Dimensions

- A: Bolt Circle
- B: Number of Bolts
- C: Size of Bolts

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