The Neptune® Fire Hydrant water meter is designed for mobile use in metering flows from fire hydrants. The meter measures a wide flow range to maximize revenue. It meets or exceeds the latest performance requirements of AWWA. Maximum flow rates may be exceeded by 25% for intermittent flows.

The Fire Hydrant water meter consists of a lightweight, aluminum maincase fitted with a 2” gate valve, a turbine measuring element, and a roll-sealed register.

Construction
The aluminum maincase is Xylan® coated for corrosion resistance and is lightweight, compact, and easy to handle. This meter features a unique “balanced handle” which makes carrying and installing it easier than any other fire hydrant meter on the market. A 2” gate valve enables the user to regulate the water flow without opening and closing the fire hydrant.

The unitized measuring element (UME) allows for quick and easy interchangeability.

Exclusive dual graphite bearings provide equalized rotor loading for accuracy over a broad flow range. The thrust-compensated rotor configuration relieves pressure on the thrust bearings, which minimizes wear and provides sustained accuracy over an extended operating life. A tamper-resistant stainless steel calibration vane allows recalibration of the UME to lengthen service life and to ensure accurate registration.

The roll-sealed register eliminates leaking and fogging. A magnetic drive couples the register with the measuring element.

Warranty
Neptune provides a limited warranty for performance, materials, and workmanship. See warranty statement for details.
Specifications

Application
- Cold water measurement of flow in one direction

Maximum operating pressure
- 150 psi

Normal operation range
- 5-450 gpm (at accuracy of 100 +/- 1.5%)

Register type
- Direct reading, center sweep, roll-sealed magnetic drive with low-flow indicator
- Bronze box with locking cover

Strainer
- Plastic

Registration
- Per sweep hand revolution: 100 gallons, 10 cubic feet, 1 cubic metre

Options

Size
- 2½” outlet (with 2½” gate valve)

Strainer
- Stainless steel (internal)

Orifice plate
- Size for application

Units of measure
- U.S. gallons, cubic feet, cubic metres

Connections
- Less Coupling: 3” x 2” NPT
- With Coupling: 2½” NH

Operating Characteristics

<table>
<thead>
<tr>
<th>Meter Size</th>
<th>Normal Operating Range @ 100% Accuracy (+/- 1.5%)</th>
<th>Maximum Intermittent Flow</th>
<th>AWWA Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>3”</td>
<td>5 to 450 US gpm 1.14 to 102.2 m³/h</td>
<td>560 US gpm 127.2 m³/h</td>
<td>8 to 435 US gpm 1.8 to 98.8 m³/h</td>
</tr>
</tbody>
</table>

Dimensions

<table>
<thead>
<tr>
<th>3” Fire Hydrant</th>
<th>A inches</th>
<th>B inches</th>
<th>C inches</th>
<th>D inches</th>
<th>E inches</th>
<th>Weight lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less Coupling</td>
<td>15 ½</td>
<td>7 ½</td>
<td>11 ½</td>
<td>2 ¾</td>
<td>7 ½</td>
<td>23</td>
</tr>
<tr>
<td>With Coupling</td>
<td>19 ¼</td>
<td>10</td>
<td>11 ½</td>
<td>2 ¾</td>
<td>7 ½</td>
<td>29</td>
</tr>
</tbody>
</table>

ACCURACY CHART

RATE OF FLOW IN GALLONS PER MINUTE

PRESSURE LOSS CHART

RATE OF FLOW IN GALLONS PER MINUTE

These charts show typical meter performance. Individual results may vary.