The DSTRP series water meters are used to totalise the volume of water used.

**Application**
These DSTRP series water meters are installed in numerous applications where the accurate and economic measurement of hot and cold water usage is needed. These meters are suitable for fitting in homes, agricultural and horticultural premises as well as industrial and commercial properties.

**Principle of Operation**
The DSTRP series is a mechanical inferential meter using the multi-jet principle. It is fitted with an integral direct reading sealed counter to totalise the volume passed. There is an optional pulsed reed switch output for remote instrumentation.

**Construction**
The body and head are made of brass with the body epoxy painted. The internal mechanism is made from wear resistant, antimagnetic and antiscaling plastic materials. The lid is made of shock resistant plastic. An internal filter is fitted to the inlet.

**Totaliser**
The five digit counter and three dial counters provide a direct reading of the total to a resolution of 0.001 m³ (i.e. 1 litre). The counter mechanism is sealed from the line water in a special antifogging liquid and will not be affected by scaling or contaminated water.

**Calibration**
All DSTRP water meters are individually calibrated. Hydraulic tests are carried out at 5 flowrates (Q1, Q2, Q3) on test rigs complying with standards ISO 4064/3 and ISO 4185, and are approved by a European notified body. A security tamper evident seal is fitted.

**Installation**
The DSTRP water meters are suitable for installation in horizontal pipelines and should be fitted such that the arrow marked on the body corresponds with the direction of water flow. The upstream pipework should rise so that the outlet is higher than the meter inlet ensuring that the meter is kept full of water. The water meters should be easily accessible to enable a clear reading from the counter.

**Approvals**
DSTRP water meters are MID approved to metrological class MID R (Q3/Q1) ≤200H-≤50V. Meeting the requirements of Directive 2004/22/EC and European standard EN 14154.
**Specifications**

Capacity of 5 digit registers: 99,999 m³
Smallest reading of 4 dials: 0.001 m³ (1 litre)
Maximum temperature: 50°C
Maximum pressure: 16 bar
Connections: BSP couplings
Accuracy:
- +/- 2% \( Q_{\text{max}} - Q_t \)
- +/- 5% \( Q_t - Q_{\text{min}} \)
Pulsed output (1 pulse): 1, 10 or 100 litres

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>( Q_{\text{min}} )</th>
<th>( Q_t )</th>
<th>( Q_n )</th>
<th>( Q_{\text{max}} )</th>
<th>Length without couplings</th>
<th>Length with couplings</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSTRP15</td>
<td>( \frac{1}{2}'' )</td>
<td>0.015</td>
<td>0.0225</td>
<td>1.5</td>
<td>3</td>
<td>145</td>
<td>225</td>
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<tr>
<td>DSTRP20</td>
<td>( \frac{3}{4}'' )</td>
<td>0.025</td>
<td>0.0375</td>
<td>2.5</td>
<td>5</td>
<td>190</td>
<td>288</td>
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<tr>
<td>DSTRP25</td>
<td>1''</td>
<td>0.035</td>
<td>0.0525</td>
<td>3.5</td>
<td>7</td>
<td>260</td>
<td>378</td>
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<tr>
<td>DSTRP32</td>
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<td>0.075</td>
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<td>378</td>
</tr>
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<td>DSTRP40</td>
<td>( \frac{1}{2}'' )</td>
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<td>20</td>
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<td>3</td>
<td>15</td>
<td>30</td>
<td>300</td>
<td>461</td>
</tr>
</tbody>
</table>

**Dimensions**

Contact our flow measurement specialists for advice on your application

Tel: 01922 645647  Fax: 01922 640326

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