**Metering Pumps**

**HRP Series**

- High resolution/Ultra compact 4” x 2.5” x 3.5”
- Internal or external control
- IP65 waterproof and dustproof design
- DC voltage operation
- PVDF pump head with ceramic balls and FKM elastomers
- 4 types of control:
  - pulse  
  - 4-20mA
  - 1-5 VDC
  - start/stop

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow Rate ml/min</th>
<th>Max Discharge Pressure PSI (MPa)</th>
<th>Stroke rate spm</th>
<th>Tube connection</th>
<th>Power Voltage V</th>
<th>Power consumption W</th>
<th>Current A</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRP-54V/H-1</td>
<td>0.055 - 38</td>
<td>29 (0.2)</td>
<td>0-720</td>
<td>1/8” x 1/4” 3mm x 6mm</td>
<td>DC12</td>
<td>5.6</td>
<td>1.5</td>
<td>1.1 (0.5)</td>
</tr>
<tr>
<td>HRP-54V/H-2</td>
<td></td>
<td></td>
<td></td>
<td>3mm x 6mm 4mm x 6mm</td>
<td>DC24</td>
<td></td>
<td>1.0</td>
<td></td>
</tr>
</tbody>
</table>

Liquid & ambient temperature 0 - 40°C  
Allowable voltage deviation ±5% of rated voltage

<table>
<thead>
<tr>
<th>Control type</th>
<th>Max Speed</th>
<th>Operation</th>
<th>Input signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pulse</td>
<td>720 spm</td>
<td>1 stroke per pulse (synchronous operation)</td>
<td>Dry contact or open collector</td>
</tr>
<tr>
<td>4-20mA</td>
<td>720 spm</td>
<td>4-20 mA proportional to 0-720 spm</td>
<td>Analog 4-20 mA DC</td>
</tr>
<tr>
<td>1-5VDC</td>
<td>720 spm</td>
<td>1-5 VDC proportional to 0-720 spm</td>
<td>Voltage 1-5 VDC (Current capacity of 25 mA or more)</td>
</tr>
<tr>
<td>Start/Stop</td>
<td>720 spm</td>
<td>Pump stops during contact input</td>
<td>Dry contact or open collector</td>
</tr>
</tbody>
</table>

**Materials**

- Gasket: PTFE
- Valve: Alumina Ceramic
- O ring: FKM
- Pump head: PVDF
- Diaphragm: PTFE + EPDM
- Valve seat: FKM

Material code
- PVDF: Polyvinylidene difluoride
- FKM: Fluorine-contained rubber
- PTFE: Polytetrafluoroethylene
About Us

Walchem integrates its advanced sensing, instrumentation, fluid pumping and communications technologies to deliver reliable and innovative solutions to the global water treatment market. Our in-house engineering is driven by quality, technology and innovation. For more information on the entire Walchem product line, visit: www.walchem.com