HV Series High Viscosity

Walchem and Iwaki have created a unique partnership with over 100 years combined pump experience in an array of different markets. The HV series is specifically designed to accurately feed high viscosity chemicals.

Equipped with rugged, machined PVC or molded GFRPP liquid ends and spring loaded stainless steel valve balls, the HV series is designed for superior valve action and performance. Rated to 20,000 cps*, the HV series is available in feed ranges from 2.3 GPH to 8 GPH and pressures up to 73 PSI.

Sophisticated design and backed with the industry’s only full 2-year warranty, the EH-HV series is the perfect solution for high viscosity feed applications.

*Tested with 20,000 cps polymer verified with a Brookfield viscometer, Model LVF at 25°C, #4 spindle at 12rpm.

Summary of Key Benefits

▶ High Speed Operation
Up to 240 strokes per minute results in high resolution chemical feed, reduced pulsation and improved mixing.

▶ Spring Loaded Valve Action
Stainless Steel or Hastelloy C276 springs help quickly close the valve balls against the PCTFE seats, increasing the valve action with high viscosity polymers.

▶ Adaptable Modular Design
Liquid end, drive and electronics are modular, enabling economical repair or replacement of parts. The control module can easily be mounted in a remote location.

▶ Long Lasting Diaphragm
PTFE laminate over EPDM is molded onto a solid core. A retainer plate is provided to minimize flow rate changes as pressure varies.
PUMP SERIES
EH/EWN = Electronic metering pump with external control and manual speed control

CAPACITY/PRESSURE RATING
See chart on this page

CONTROL MODULE
R = For use on all EWN-C models: On/Off with 0-240 digital speed control, external start/stop, programmable 4:20 and digital pulse input with multiplier/divider control; turndown ratio of 1200:1.
E = For use on all EHE models: On/Off with 0-240 digital speed control, external start/stop, programmable 4:20 and digital pulse input with multiplier/divider control; turndown ratio of 1200:1.

VOLTAGE
EHE
1 = 115VAC, 50/60 Hz 1.8A Maximum, 48W Avg.
2 = 230VAC, 50/60 Hz 0.8A Maximum, 48W Avg.
EWN-C
U = 115VAC, 50/60 Hz 1.2A Maximum, 24W Avg.
2 = 230VAC, 50/60 Hz 1.2A Maximum, 24W Avg.

LIQUID END MATERIALS
See chart on this page

OPTIONS
Blank = No accessories included, only tubing
V = EHE models including a threaded back pressure/anti-syphon valve.
T = EWN-C and EHE models including ½” NPT fittings on suction/discharge of pump
P = EHE models including ½” NPT fittings on suction/discharge of pump & threaded back pressure/anti-syphon valve
S = Changes valve balls to 316SS in EWN-C-PC models

Capacity/Pressure Rating

<table>
<thead>
<tr>
<th>Size</th>
<th>Max Output Capacity*</th>
<th>Max Output per stroke</th>
<th>Max Pressure</th>
<th>Connection Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPH</td>
<td>ml/min</td>
<td>ml</td>
<td>PSI</td>
<td>MPa</td>
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<tr>
<td>C31</td>
<td>2.3</td>
<td>150</td>
<td>0.625</td>
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<tr>
<td>E36</td>
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<td>73</td>
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<td>E46</td>
<td>8.0</td>
<td>505</td>
<td>2.10</td>
<td>60</td>
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</tbody>
</table>

*Output rated w/20,000cps polymer. Output increases with lower viscous fluids up to 25% with water.

Liquid End Materials

<table>
<thead>
<tr>
<th>Parts</th>
<th>Material</th>
<th>EHE-HV</th>
<th>EWN-C P6</th>
<th>EWN-C PC(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump head &amp; fittings</td>
<td>GFRPP</td>
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<tr>
<td>Diaphragm</td>
<td>PTFE</td>
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<tr>
<td>Valve balls</td>
<td>SS</td>
<td>CE (SS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valve seats</td>
<td>PCTFE</td>
<td></td>
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<tr>
<td>Valve seals</td>
<td>FKM</td>
<td>EPDM</td>
<td>FKM</td>
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<tr>
<td>Valve spring</td>
<td>HC</td>
<td>SS</td>
<td>HC</td>
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<tr>
<td>Gasket</td>
<td>PTFE</td>
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</table>

Safety Performance
The HV Series metering pumps are tested by Intertek to UL and CSA standards.

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