Introduction

The Rannie 315 homogenizer, a positive-displacement triplex, reciprocating plunger pump, is fitted with an application-specific homogenizing valve assembly: single-stage with hydraulic actuation.

The Rannie 315 homogenizer incorporates a durable slow-speed power end that reduces vibration and noise. Easy access to the hydraulic actuation system, lubrication oil and other auxiliary systems simplifies maintenance saving time and money. The Rannie 315 features a three-piece valve housing (ball and poppet style).

Designed to simplify routine maintenance. Materials for plungers, packings, pump valves, valve seats and seals are custom-selected for your application. APV engineers will work with you to optimize the configuration for your specific application.

STANDARD OPTIONS

- Two-stage hydraulic valve actuation (HVA)
- Single-stage automatic hydraulic system (AHS)
- Two-stage automatic hydraulic system (AHS)
- Pulsation dampener(s) on inlet and outlet
- Aseptic cylinder design
- Electronic pressure transmitter (excl. display)
- High-pressure outlet
- Inlet pressure gauge
- Plunger lubrication control package
- Micro-Gap homogenizing valve
- Tungsten carbide homogenizing valve
- Square plunger seals and ceramic plungers
- External cooling fan/main motor
- Motor starter
- Control cabinet, stainless steel
- Thermostat/oil temperature

SPECIAL OPTIONS

- Ceramic plungers with U- or V-rings
- Explosion-proof design
- Electropolished wettables
- High-temperature design
- Flow switch - power end cooling
- UFO - Unit for Filtration of Oil
## Rannie/Three-Piece Valve Housing Poppet and Ball Type Valves

<table>
<thead>
<tr>
<th>TYPE</th>
<th>US MAX. CAP./MAX. PRESS.</th>
<th>METRIC MAX. CAP./MAX. PRESS.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPH</td>
<td>PSI</td>
</tr>
<tr>
<td>90.175</td>
<td>9245</td>
<td>3625</td>
</tr>
<tr>
<td>70.175</td>
<td>5550</td>
<td>5800</td>
</tr>
<tr>
<td>58.175</td>
<td>3750</td>
<td>8700</td>
</tr>
<tr>
<td>50.175</td>
<td>2775</td>
<td>11600</td>
</tr>
<tr>
<td>45.175</td>
<td>2115</td>
<td>14500</td>
</tr>
</tbody>
</table>

### Dimensions (Single Stage)

<table>
<thead>
<tr>
<th>LENGTH IN (MM)</th>
<th>WIDTH IN (MM)</th>
<th>HEIGHT IN (MM)</th>
<th>DIMENSIONS PACKED IN A CRATE LXWXH (IN)</th>
<th>DIMENSIONS PACKED IN A CRATE LXWXH (CM)</th>
<th>CUBIC MEASURE M³</th>
</tr>
</thead>
<tbody>
<tr>
<td>149.2 (3810)</td>
<td>83 (2120)</td>
<td>74.6 (1905)</td>
<td>168 X 95.2 X 92</td>
<td>420 X 238 X 230</td>
<td>23.0</td>
</tr>
</tbody>
</table>

Gross weight in a crate, incl. motor: 21,605 lb (9,800kg)

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Based in Charlotte, North Carolina, SPX FLOW, Inc. (NYSE: FLOW) is a multi-industry manufacturing leader. For more information, please visit www.spxflow.com

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