RCH-Series, Hollow Plunger Cylinders

Shown from left to right: RCH306, RCH120, RCH1003

- Hollow plunger design allows for both pull and push forces
- Single-acting spring-return
- Nickel-plated, floating center tube on models over 20 tons increases product life
- Baked enamel finish for increased corrosion resistance
- Collar threads for easy fixturing
- RCH120 includes AR630 coupler and has 1/4 NPTF port
- RCH121 and RCH1211 have FZ1630 reducer and AR630 coupler, all other models feature CR400 coupler

Versatility in Testing, Maintenance and Tensioning Applications

Pump and Cylinder Sets
All cylinders marked with an * are available as sets (cylinder, gauge, couplers, hose and pump) for your ordering convenience.

Lightweight Aluminum Hollow Plunger Cylinders
If you need a higher cylinder capacity-to-weight ratio the lightweight RACH-Series Aluminum Hollow Plunger Cylinders are the perfect choice.

Saddles
Most RCH-Series cylinders are equipped with smooth saddles. See table on next page for optional threaded saddles and all dimensional information.

Hollow plunger cylinder RCH1003 used in an application for intermediate boom suspension on a dragline.

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Hollow plunger cylinder RCH1003 used in an application for intermediate boom suspension on a dragline.

<table>
<thead>
<tr>
<th>Cylinder Capacity (tons)</th>
<th>Stroke (in)</th>
<th>Model Number</th>
<th>Cyl. Effect. Area (in²)</th>
<th>Oil Cap. (in³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 (13.8)</td>
<td>0.31</td>
<td>RCH120</td>
<td>2.76</td>
<td>0.86</td>
</tr>
<tr>
<td></td>
<td>1.63</td>
<td>RCH121*</td>
<td>2.76</td>
<td>4.49</td>
</tr>
<tr>
<td></td>
<td>1.63</td>
<td>RCH1211</td>
<td>2.76</td>
<td>4.49</td>
</tr>
<tr>
<td></td>
<td>3.00</td>
<td>RCH123</td>
<td>2.76</td>
<td>8.29</td>
</tr>
<tr>
<td>20 (23.6)</td>
<td>2.00</td>
<td>RCH202*</td>
<td>4.72</td>
<td>9.46</td>
</tr>
<tr>
<td></td>
<td>6.10</td>
<td>RCH206</td>
<td>4.72</td>
<td>28.67</td>
</tr>
<tr>
<td>30 (36.1)</td>
<td>2.50</td>
<td>RCH302*</td>
<td>7.22</td>
<td>18.05</td>
</tr>
<tr>
<td></td>
<td>6.13</td>
<td>RCH306</td>
<td>7.22</td>
<td>44.23</td>
</tr>
<tr>
<td>60 (63.6)</td>
<td>3.00</td>
<td>RCH603*</td>
<td>12.73</td>
<td>38.20</td>
</tr>
<tr>
<td></td>
<td>6.00</td>
<td>RCH606</td>
<td>12.73</td>
<td>76.41</td>
</tr>
<tr>
<td>100 (103.1)</td>
<td>3.00</td>
<td>RCH1003*</td>
<td>20.63</td>
<td>61.88</td>
</tr>
</tbody>
</table>

* Available as a set. See note on this page.
Optional Threaded Hollow Saddles

<table>
<thead>
<tr>
<th>Saddle Type</th>
<th>Cylinder Model No.</th>
<th>Saddle Model No.</th>
<th>Saddle Dimensions (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threaded Hollow</td>
<td>RCH202, 206</td>
<td>HP2015</td>
<td>2.11 1&quot;-8 0.38</td>
</tr>
<tr>
<td></td>
<td>RCH302, 306</td>
<td>HP3015</td>
<td>2.49 1½&quot;-7 0.38</td>
</tr>
<tr>
<td></td>
<td>RCH603, 606</td>
<td>HP6015</td>
<td>3.61 1½&quot;-5½&quot; 0.50</td>
</tr>
<tr>
<td></td>
<td>RCH1003</td>
<td>HP10016</td>
<td>4.97 2½&quot;-8 0.51</td>
</tr>
</tbody>
</table>

Smooth hollow saddles are standard on all RCH models (12-ton models are not equipped with saddles).

RCH121 and RCH1211 have a 1.88" diameter boss that protrudes 0.25" from base.

RCH120* to RCH123 models

RCH202 to RCH1003 models

* 1/4" NPT for RCH120 only

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**Base Mounting Hole Dimensions (in)**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Bolt Circle U</th>
<th>Thread V</th>
<th>Thread Depth Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCH202*</td>
<td>2.00 9/16&quot;-13 UNC 0.35</td>
<td>2½&quot;-16 1.19 0.77 3.2</td>
<td></td>
</tr>
<tr>
<td>RCH211</td>
<td>2.00 9/16&quot;-13 UNC 0.35</td>
<td>2½&quot;-16 1.19 0.77 6.2</td>
<td></td>
</tr>
<tr>
<td>RCH123</td>
<td>2.00 9/16&quot;-13 UNC 0.35</td>
<td>2½&quot;-16 1.19 0.77 6.2</td>
<td></td>
</tr>
<tr>
<td>RCH302*</td>
<td>2.00 9/16&quot;-13 UNC 0.35</td>
<td>2½&quot;-16 1.19 0.77 6.2</td>
<td></td>
</tr>
<tr>
<td>RCH306</td>
<td>2.00 9/16&quot;-13 UNC 0.35</td>
<td>2½&quot;-16 1.19 0.77 6.2</td>
<td></td>
</tr>
<tr>
<td>RCH603*</td>
<td>5.13 9/16&quot;-13 UNC 0.35</td>
<td>2½&quot;-16 1.19 0.77 6.2</td>
<td></td>
</tr>
<tr>
<td>RCH606</td>
<td>5.13 9/16&quot;-13 UNC 0.35</td>
<td>2½&quot;-16 1.19 0.77 6.2</td>
<td></td>
</tr>
<tr>
<td>RCH1003*</td>
<td>7.00 9/16&quot;-13 UNC 0.35</td>
<td>2½&quot;-16 1.19 0.77 6.2</td>
<td></td>
</tr>
</tbody>
</table>

---

RCH Series

**Capacity:** 12 - 100 tons

**Stroke:** 0.31 - 6.13 inches

**Center Hole Diameter:** 0.77 - 3.11 inches

**Maximum Operating Pressure:** 10,000 psi

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**Hoses**

Enerpac offers a complete line of high quality hydraulic hoses. To ensure the integrity of your system, specify only Enerpac hydraulic hoses.

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**Series**

- **Model Number:**
  - RCH120
  - RCH121
  - RCH1211
  - RCH123
  - RCH202
  - RCH206
  - RCH302
  - RCH306
  - RCH603
  - RCH606
  - RCH1003

---

**Model Number:**

- **RCH120**
  - 2.00 9/16"-13 UNC 0.35
  - 2½"-16 1.19 0.77 3.2
- **RCH202**
  - 2.00 9/16"-13 UNC 0.35
  - 2½"-16 1.19 0.77 6.2
- **RCH302**
  - 2.00 9/16"-13 UNC 0.35
  - 2½"-16 1.19 0.77 6.2
- **RCH603**
  - 5.13 9/16"-13 UNC 0.35
  - 2½"-16 1.19 0.77 6.2
- **RCH1003**
  - 7.00 9/16"-13 UNC 0.35
  - 2½"-16 1.19 0.77 6.2

---

**Dimensions:**

- **Height:**
  - A
  - B
  - C
- **Diameter:**
  - E
  - F
  - G
  - H
- **Weight:**
  - I
  - J
  - K
  - L
  - M
  - N
  - O
  - P
  - Q
  - R
  - S
  - T
  - U
  - V
  - W
  - X
  - Y

---

**Thread Collar:**

- **U**
- **V**
- **W**
- **X**
- **Y**
- **Z**

---

**Series:**

- **RCH**
- **HP**
- **RCH1003**
- **RCH603**