WK-102
2 line system

High Performance hydraulic systems

Gear Pump With Integrated Tipping Valve
- Multiple pump options with air shift, cable shift or hydraulic tipping valve
- 35-50 gallon hydraulic oil reservoir with mounting brackets
- Pneumatic or manual hoist control
- 27 GPM with up to 3000 psi hydraulic system
- For operation of dump trucks and dump trailers
**High Performance C102 Pump Replacements**

- Compact design
- Light weight (49 lbs.)
- High grade cast iron pump body
- Two piece design
- High performance 97% efficiency rating
- Optional dual pressure relief
- Left and right hand rotation
- SAE “B” 4 bolt flange mounting
- High pressures up to 3000 psi
- Air and manual shift
- 2 line or 3 line system installation
- High pressure front seal

### C102
- 69 lbs.
- 2-1/2” Longer
- 3/8” Wider

### PVB
- 49 lbs.
- 2-1/2” Shorter
- 3/8” Thinner

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**Direct Mount Bushing Dump Pump**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>SHAFT</th>
<th>GEAR</th>
<th>INLET</th>
<th>PRESSURE &amp; RETURN PORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHPVB102-LMS-25</td>
<td>Manual Shift – Left Hand Rotation</td>
<td>7/8” 13 Tooth</td>
<td>2.5” (6.2 cu in)</td>
<td>1-1/4” NPT</td>
<td>1” NPT</td>
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<td>CHPVB102-RMS-25</td>
<td>Manual Shift – Right Hand Rotation</td>
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<tr>
<td>CHPVB102-LAS-25</td>
<td>Air Shift – Left Hand Rotation</td>
<td>7/8” 13 Tooth</td>
<td>2.5” (6.2 cu in)</td>
<td>1-1/4” NPT</td>
<td>1” NPT</td>
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<tr>
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**Flow - Speed**

**Volumetric Efficiency**

**Power - Pressure - GPM**
Hydraulic Pump
PV series

Economical C102 Pump Replacements
- Cast iron pump body
- Heavy duty roller bearings
- Left and right hand rotation
- SAE “B” 4 bolt flange mounting
- High pressures up to 2250 psi
- Air and manual shift
- Adjustable relief valve
- High pressure front seal
- Chrome steel valve spool
- 2 line or 3 line system installation

Direct Mount Dump Pump

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</table>

FLOW - SPEED

VOLUMETRIC EFFICIENCY

POWER - PRESSURE - GPM
Steel or aluminum construction with diamond plate top section
- Steel finish: black powder coated
- Aluminum finish: bright polished
- Fully baffled with two heavy duty NPT bottom ports
- Features filtered mushroom vent for increased air exchange
- Filler/breather assembly – including 40 micron filter/breather cap (chain mounted) with nylon strainer basket and bayonet closure
- Dual mounting rails (2" × 2") welded to tank assembly
- Sight/temperature gauge standard

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>CYLINDER OIL EXTENDED CAPACITY</th>
<th>THREE BOTTOM PORTS</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRA-1-50-UMS</td>
<td>50 Gallon Upright Mount</td>
<td>Steel</td>
<td>40 gallon</td>
<td>2&quot; NPT</td>
<td>150 lbs.</td>
</tr>
<tr>
<td>HRA-1-50-UMS-ST</td>
<td>50 Gallon Upright Mount w/ Temp Gauge</td>
<td>Steel</td>
<td>40 gallon</td>
<td>2&quot; NPT</td>
<td>150 lbs.</td>
</tr>
<tr>
<td>HRA-1-50-UMA</td>
<td>50 Gallon Upright Mount</td>
<td>Aluminum</td>
<td>40 gallon</td>
<td>2&quot; NPT</td>
<td>77 lbs.</td>
</tr>
<tr>
<td>HRA-1-50-UMA-ST</td>
<td>50 Gallon Upright Mount w/ Temp Gauge</td>
<td>Aluminum</td>
<td>40 gallon</td>
<td>2&quot; NPT</td>
<td>77 lbs.</td>
</tr>
<tr>
<td>HRA-1-70-UMS</td>
<td>70 Gallon Upright Mount</td>
<td>Steel</td>
<td>56 gallon</td>
<td>2&quot; NPT</td>
<td>200 lbs.</td>
</tr>
<tr>
<td>HRA-1-70-UMS-ST</td>
<td>70 Gallon Upright Mount w/ Temp Gauge</td>
<td>Steel</td>
<td>56 gallon</td>
<td>2&quot; NPT</td>
<td>200 lbs.</td>
</tr>
<tr>
<td>HRA-1-50-UMA</td>
<td>70 Gallon Upright Mount</td>
<td>Aluminum</td>
<td>56 gallon</td>
<td>2&quot; NPT</td>
<td>130 lbs.</td>
</tr>
<tr>
<td>HRA-1-70-UMA-ST</td>
<td>70 Gallon Upright Mount w/ Temp Gauge</td>
<td>Aluminum</td>
<td>56 gallon</td>
<td>2&quot; NPT</td>
<td>130 lbs.</td>
</tr>
</tbody>
</table>

Hydraulic Reservoir
Assembly (upright mount)
Steel or aluminum construction
Steel finish: black powder coated
Aluminum finish: bright polished
Three heavy duty NPT bottom ports with built in diffusers
Features filtered mushroom vent for increased air exchange
Filler/breather assembly—including 40 micron filter/breather cap (chain mounted) with nylon strainer basket and bayonet closure
Includes mounting kit with J-brackets and stainless steel straps
Sight/temperature gauge standard

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1-1/2&quot; Hose Adapter</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>1-1/2&quot; Ball Valve</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>1-1/2&quot; Elbow</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>2&quot; × 1-1/2&quot; Reducer</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Oil Level Indicator</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Breather Cap</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Vent</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Hose Bag 2-00 NPT</td>
<td>4</td>
</tr>
<tr>
<td>9</td>
<td>Caps</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>Gasket</td>
<td>4</td>
</tr>
<tr>
<td>11</td>
<td>Bolt, 1/2-13 UNC X 2-1/2 LG.</td>
<td>4</td>
</tr>
<tr>
<td>12</td>
<td>Flatwasher, Ø 1/2</td>
<td>8</td>
</tr>
<tr>
<td>13</td>
<td>Lock Nut, 1/2-13</td>
<td>4</td>
</tr>
</tbody>
</table>

**Hydraulic Reservoir Assembly (Round Saddle Mount)**

- **HRA-1-35-RSMS**
  - 35 Gallon Round Saddle Mount w/ Carbon Straps
  - Steel
  - Extended Capacity: 28 gallon
  - Three Bottom Ports: 2" NPT
  - Weight: 106 lbs.

- **HRA-1-35-RSMA**
  - 35 Gallon Round Saddle Mount w/ Carbon Straps
  - Aluminum
  - Extended Capacity: 28 gallon
  - Three Bottom Ports: 2" NPT
  - Weight: 76 lbs.

- **HRA-1-35-RSMA-SS**
  - 35 Gallon Round Saddle Mount w/ Stainless Straps
  - Aluminum
  - Extended Capacity: 28 gallon
  - Three Bottom Ports: 2" NPT
  - Weight: 76 lbs.

- **HRA-1-50-RSMS**
  - 50 Gallon Round Saddle Mount w/ Carbon Straps
  - Steel
  - Extended Capacity: 50 gallon
  - Three Bottom Ports: 2" NPT
  - Weight: 124 lbs.

- **HRA-1-50-RSMA**
  - 50 Gallon Round Saddle Mount w/ Carbon Straps
  - Aluminum
  - Extended Capacity: 50 gallon
  - Three Bottom Ports: 2" NPT
  - Weight: 84 lbs.

- **HRA-1-50-RSMA-SS**
  - 50 Gallon Round Saddle Mount w/ Stainless Straps
  - Aluminum
  - Extended Capacity: 50 gallon
  - Three Bottom Ports: 2" NPT
  - Weight: 84 lbs.
- Steel or aluminum construction
- Steel finish: black powder coated
- Aluminum finish: bright polished
- 1-1/2" BSP suction port
- 1" BSP return port (plugged)
- Filler/breather assembly – including 40 micron filter/breather cap with strainer basket
- Includes mounting kit with J-brackets and stainless steel straps
- Oil level sight gauge standard

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>CYLINDER OIL EXTEND CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRA-1-35-SMA-SS</td>
<td>35 Gallon Side Mount w/ Stainless Straps</td>
<td>Aluminum</td>
<td>28 gallon</td>
</tr>
<tr>
<td>HRA-1-35-SMS-SS</td>
<td>35 Gallon Side Mount w/ Stainless Straps</td>
<td>Steel</td>
<td>28 gallon</td>
</tr>
</tbody>
</table>
Hoist Control
Pneumatic

- Controlled lowering
- Automatic disengagement of PTO in lower position (PTO Kickout)
- Safety latch on PTO switch to prevent accidental engagement
- Brighter PTO LED light
- Push to connect fittings

**WARNING!**
This piping circuit is for PRESSURE-PROTECTED air systems ONLY. If the air system is not pressure-protected, a pressure protection valve must be fitted into the auxiliary line recommended by the chassis manufacturer.

**PTO OPERATION**
Engage PTO ONLY when pump/valve lever is in HOLD
Depress clutch for 4 seconds before engaging PTO
PTO automatically disengages when pump/valve lever is in LOWER
Put pump/valve lever in HOLD when body is down

**PART NUMBER**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>PTO KICKOUT</th>
<th>DEAD MAN HANDLE (Spring to Neutral)</th>
<th>CONTROL TOWER</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCP-1-295</td>
<td>Metering Hoist Control</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>HCP-1-295M</td>
<td>Metering Hoist Control</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>HCP-1-295DMH</td>
<td>Metering Hoist Control</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>HT-8</td>
<td>Hoist Control Tower</td>
<td>No</td>
<td>No</td>
<td>8&quot;</td>
</tr>
<tr>
<td>HT-13</td>
<td>Hoist Control Tower</td>
<td>No</td>
<td>No</td>
<td>13&quot;</td>
</tr>
</tbody>
</table>
Custom Hoists produces the widest range of telescoping and rod cylinders in the industry designed to work in tune with our wet kits and pumps. We offer European and traditional head nut designs in a wide range of sizes and mounting configurations to fit your needs. Contact us today to learn how we can provide full system hydraulic solutions for all your lifting needs.