Haldex Hydraulics G.C. Series Hydraulic Pumps are compact, external gear models for use in pumping fluids with lubricating qualities. Suitable for use in a wide variety of material handling, agricultural, and construction equipment in addition to machine tools, robotics, and other types of machinery.

Designed to provide reliable, long-life service under rugged conditions, G.C. Series pumps are built with cast iron bodies and hardened steel gears. Among their other standard, extra-value features are:

- Speeds to 4000 RPM
- Pressures to 4000 PSI
- Superior volumetric efficiency
- Needle bearing construction
- High mechanical efficiency
- Temperature ratings to 250°F (120°C)*
- Wide variety of options

* Higher temperatures, consult factory.

See the chart on this page for basic sizes. Dimensional and option information is listed on pages 3-5 and performance curves are shown on pages 6 & 7. See page 8 for complete ordering information.

<table>
<thead>
<tr>
<th>Order Code (Gear)</th>
<th>Displacement Revolution (cu. in. cc)</th>
<th>Flow at 1800 RPM (GPM L/Min)</th>
<th>Flow at 3600 RPM (GPM L/Min)</th>
<th>Pressure Rating Continuous (PSI BAR)</th>
<th>Pressure Rating Intermittent (PSI BAR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04</td>
<td>0.065 1.07</td>
<td>0.50 1.93</td>
<td>3.86 3000</td>
<td>207 4000</td>
<td>275</td>
</tr>
<tr>
<td>06</td>
<td>0.097 1.59</td>
<td>0.75 2.86</td>
<td>5.72 3000</td>
<td>207 4000</td>
<td>275</td>
</tr>
<tr>
<td>08</td>
<td>0.129 2.11</td>
<td>1.00 3.80</td>
<td>7.60 3000</td>
<td>207 4000</td>
<td>275</td>
</tr>
<tr>
<td>▲10</td>
<td>0.161 2.64</td>
<td>1.25 4.75</td>
<td>9.50 3000</td>
<td>207 4000</td>
<td>275</td>
</tr>
<tr>
<td>12</td>
<td>0.194 3.18</td>
<td>1.50 5.72</td>
<td>11.44 3000</td>
<td>207 4000</td>
<td>275</td>
</tr>
<tr>
<td>▲14</td>
<td>0.226 3.70</td>
<td>1.75 6.66</td>
<td>13.32 2600</td>
<td>179 4000</td>
<td>275</td>
</tr>
<tr>
<td>16</td>
<td>0.258 4.23</td>
<td>2.00 7.61</td>
<td>15.22 2300</td>
<td>159 4000</td>
<td>275</td>
</tr>
<tr>
<td>▲18</td>
<td>0.291 4.77</td>
<td>2.25 8.59</td>
<td>17.18 2100</td>
<td>145 3500</td>
<td>241</td>
</tr>
<tr>
<td>20</td>
<td>0.323 5.29</td>
<td>2.50 9.52</td>
<td>19.04 1900</td>
<td>131 3000</td>
<td>207</td>
</tr>
<tr>
<td>24</td>
<td>0.388 6.36</td>
<td>3.00 11.45</td>
<td>22.90 1600</td>
<td>110 2500</td>
<td>172</td>
</tr>
<tr>
<td>28</td>
<td>0.453 7.42</td>
<td>3.50 13.36</td>
<td>26.72 1300</td>
<td>90 2250</td>
<td>155</td>
</tr>
<tr>
<td>32</td>
<td>0.517 8.47</td>
<td>4.00 15.25</td>
<td>30.50 1200</td>
<td>83 2000</td>
<td>138</td>
</tr>
<tr>
<td>‡36</td>
<td>0.581 9.52</td>
<td>4.50 17.17</td>
<td>34.34 2250</td>
<td>155 2475</td>
<td>171</td>
</tr>
<tr>
<td>‡40</td>
<td>0.647 10.59</td>
<td>5.00 19.07</td>
<td>38.15 2000</td>
<td>138 2200</td>
<td>152</td>
</tr>
<tr>
<td>‡44</td>
<td>0.711 11.65</td>
<td>5.50 20.98</td>
<td>41.97 1800</td>
<td>124 2000</td>
<td>138</td>
</tr>
</tbody>
</table>

Flow listed in U.S. gallons. 200 SSU oil.

▲ Available, but not standard (100-piece minimum order).

‡ For speed above 2400 RPM, 1-in. dia. inlet tube must be used.
Shaft Options

Five shaft options are standard: 0.171-inch Tang, 1/2-inch diameter x 1 1/2-inch Extension, Flexible Coupling, Threaded End, and SAE Spline. Consult factory for other shaft options.

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Mounting Flange Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.171&quot; Tang</td>
</tr>
<tr>
<td>2</td>
<td>0.50” Diameter x 1.50” Extension, 1/8” Square Key</td>
</tr>
<tr>
<td>▲ 3</td>
<td>Flexible Coupling</td>
</tr>
<tr>
<td>▲ 4</td>
<td>Threaded End (Specify Thread)</td>
</tr>
<tr>
<td>* 5</td>
<td>SAE Spline (Specify)</td>
</tr>
</tbody>
</table>

▲ 100-piece minimum order

* 9T, 20/40 DP standard with flange option 1, 2 & 3; 9T, 16/32 DP standard with flange option 4. Selected sizes available from stock. Consult factory.

Dimensional Information

Pumps use one of two basic castings: One size for gear faces 04 through 16 and a slightly larger size for gear faces 20 to 32. See the drawings for details.

Flange Options

Standard options include three basic flanges: 4-Bolt with 1.78-inch Pilot, 2-Bolt SAE “AA” with 2-inch or 1.78-inch Pilot, and 2-Bolt SAE “A” with 3.25-inch Pilot. Consult factory for other flange requirements.

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Mounting Flange Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4-Bolt w/1.78” Pilot</td>
</tr>
<tr>
<td>2</td>
<td>2-Bolt SAE “AA” w/2.0” Pilot</td>
</tr>
<tr>
<td>▲ 3</td>
<td>2-Bolt SAE “AA” w/1.78” Pilot</td>
</tr>
<tr>
<td>4</td>
<td>2-Bolt SAE “A” w/3.25” Pilot</td>
</tr>
</tbody>
</table>

▲ 100-piece minimum order

Order Code | Flange Options
-----------|----------------
3          | Flexible Coupling

All dimensions shown are inches.
VALVE OPTIONS
A variety of integral valves and valve combinations are available as standard. Options include: Relief, Check, and Check/Relief combination. A Check, Relief & Solenoid Release valve combination provides the lift-hold-lower function for power up and gravity down applications. Another unique option, for lift-hold-lower applications, incorporates an adjustable needle valve in the pump for controlling the lowering speed of the load.

Order Code Valve Options
A  No Valves
B  Relief Valve
C  Direction Checks (Not Shown)
* D  Check Valve
* E  Check & Relief Valves (Not Shown)
* F  Check, Relief & Normally Closed Solenoid
* G  Check, Relief & Normally Open Solenoid
* H  Check, Relief & Solenoid Cavity Plugged

Pressure compensated flow control spools are available with options F and G.

* Available ONLY for gear sizes 04 through 36

Minimum full bypass relief valve settings: 200 psi for gear sizes 04-16 at 1725 rpm, 300 psi for gear sizes 18-44 at 1725 rpm. At speeds above 1725 rpm, the minimum relief valve settings increase. Contact factory for specific information.

SEAL & BEARING OPTIONS
Five basic seal & bearing configurations are available as shown here. Oil seals are either Buna-N or Viton. Outboard ball bearings are available for “radial load” (bolt or gear drives and thrust loads). High-pressure seals are rated up to 25 PSI at 3000 RPM. Viton seals are rated at 350°F (176°C). Consult factory for other types of sealing materials and mechanical seals. Higher pressure seals available, consult factory.

Order Code Seals & Bearings Options
1  Single Lip Buna-N Low Pressure Seal
2  Viton Seal
*3  Viton High-Pressure Seal w/Outboard Ball Bearing
▲*4  Double Seal w/Overboard Drain
*5  Buna-N Seal w/Overboard Ball Bearing

▲  100-piece minimum order.
* Not available with shaft option 3.

Outboard ball bearing settings:
Maximum overhang load: 150 lbs.
Maximum inward thrust: 75 lbs.
Maximum outward thrust: 50 lbs.
PORT LOCATION OPTIONS
Standard porting is SAE Straight Thread O’Ring Ports. Depending on gear size, porting size varies as shown in the chart below. NPTF and Inlet Tube Ports are not standard, but can be supplied. The second chart shows the Order Code for port type and location.

<table>
<thead>
<tr>
<th>Gear Size</th>
<th>SAE Port Size</th>
<th>Unirotational (Birotational)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Low Pressure Port</td>
<td>High Pressure Port</td>
</tr>
<tr>
<td>Order Code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>04 &amp; 06</td>
<td>9/16-18</td>
<td>9/16-18</td>
</tr>
<tr>
<td></td>
<td>(9/16-18)</td>
<td>(9/16-18)</td>
</tr>
<tr>
<td>08, 12</td>
<td>3/4-16</td>
<td>9/16-18</td>
</tr>
<tr>
<td>&amp; 16</td>
<td>(3/4-16)</td>
<td>(3/4-16)</td>
</tr>
<tr>
<td>20, 24</td>
<td>7/8-14</td>
<td>3/4-16</td>
</tr>
<tr>
<td>28 &amp; 32</td>
<td>(7/8-14)</td>
<td>(3/4-16)</td>
</tr>
<tr>
<td>36, 40 &amp;44</td>
<td>(7/8-14)</td>
<td>(7/8-14)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Port Location Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>SAE Side Ports</td>
</tr>
<tr>
<td>▲ B</td>
<td>SAE Rear Ports</td>
</tr>
<tr>
<td>▲ C</td>
<td>NPTF Side Ports</td>
</tr>
<tr>
<td>▲ D</td>
<td>NPTF Rear Ports</td>
</tr>
<tr>
<td>▲* E</td>
<td>Inlet Tube, 1.0” w/SAE Side Outlet Port</td>
</tr>
</tbody>
</table>

* NOTE: If ordering NPTF Ports, specify size (1/4, 3/8 or 1/2 in.)

100-piece minimum order.

For gear order codes 36, 40 and 44, 1 in. diameter Inlet Tube must be used for speeds above 2400 RPM.

ROTATION OPTIONS
Rotation options are Clockwise or Counterclockwise as viewed from the shaft end or Birotational. All Birotational pumps include directional check valves. For high-pressure applications, Birotational pumps are supplied with a steel-plugged overboard 7/16-20 SAE drain, an outboard ball bearing, and a high-pressure Viton oil seal.

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Rotation Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Clockwise</td>
</tr>
<tr>
<td>2</td>
<td>Counterclockwise</td>
</tr>
<tr>
<td>* 3</td>
<td>Birotational</td>
</tr>
</tbody>
</table>

* Available only with valve option “C”, order section 6.
* PERFORMANCE

* Based on 200 SSU oil.
How To Order G.C. Series Pumps

ORDERING INFORMATION
Each option has been assigned an order code -- listed in the tables below -- for placement in the sequence shown to the right.

2
Order Code Mounting Flange Options
1  4-Bolt w/1.78” Pilot
2  2-Bolt SAE “AA” w/2.0” Pilot
3  2-Bolt SAE “AA” w/1.78” Pilot
4  2-Bolt SAE “A” w/3.25” Pilot

▲ 100-piece minimum order

3
Order Code Shaft Options
1  0.171” Tang w/ Short Coupling (.5” long) (For DC Motors)
2  0.50” Diameter x 1.50” Extension, 1/8” Square Key
3  Flexible Coupling
4  Threaded End (Specify Thread)
5  SAE Spline (9 tooth, 20/40DP standard with flange options 1, 2 and 3; 9 tooth, 16/32 DP standard for flange option 4.)
6  0.171” Tang w/Long Coupling (.8” long) (For AC Motors)

▲ 100-piece minimum order

4 & 5
Order Code Gear Size Width, Inches Cu. In./Rev. (cc)
04  0.125  0.065 (1.07)
06  0.188  0.097 (1.59)
08  0.250  0.129 (2.11)
10  0.312  0.161 (2.64)
12  0.375  0.194 (3.18)
14  0.437  0.226 (3.70)
16  0.500  0.258 (4.23)
18  0.562  0.291 (4.77)
20  0.625  0.323 (5.29)
24  0.750  0.388 (6.36)
28  0.875  0.453 (7.42)
32  1.000  0.517 (8.47)
36  1.125  0.581 (9.52)
40  1.250  0.647 (10.60)
44  1.375  0.711 (11.65)

▲ 100-piece minimum order

NOTE: Duplex and triple pumps available in minimum 100-piece order.

6
Order Code Valve Options
A  No Valves
B  Relief Valve
C  Direction Checks (Not Shown)
D  Check Valve
E  Check & Relief Valves (Not Shown)
F  Check, Relief & Normally Closed Solenoid
G  Check, Relief & Normally Open Solenoid
H  Check, Relief & Solenoid Cavity Plugged

▲ Available only with option “3” of section 9
* Available ONLY for gear sizes 04 through 36

7
Order Code Seals & Bearings Options
1  Single Lip Buna-N Low Pressure Seal
2  Viton Seal
3  Viton High-Pressure Seal w/Outboard Ball Bearing
4  Double Seal w/Overboard Drain
5  Buna-N Seal w/Outboard Ball Bearing

▲ 100-piece minimum order.
* Not available with shaft option 3.

8
Order Code Port Location Options
A  SAE Side Ports
B  SAE Rear Ports
C  NPTF Side Ports
D  NPTF Rear Ports
E  Inlet Tube, 1.0” w/SAE Side Outlet Port

▲ 100-piece minimum order.

NOTE: If ordering NPTF Ports, specify size: 1/4, 3/8 or 1/2 in.

For gear order codes 36, 40 & 44, 1-in. Diameter Inlet Tube must be used for speeds above 2400 RPM.

9
Order Code Rotation Options
1  Clockwise
2  Counterclockwise
* 3  Birotational

* Must specify option “C” in section 6

10 & 11
Order Code Relief Valve Setting
02-40  Full bypass pressure in hundreds of PSI. (Example: 00 = No Relief; 09 = 900 PSI (Full Bypass Pressure); 40 = 4000 PSI (Full Bypass Pressure.)

NOTE: The maximum relief valve full bypass setting for each gear size as listed on page 2, “intermittent rating” pressure chart.

Minimum full bypass relief valve settings: 200 psi for gear sizes 04-16 at 1725 rpm, 300 psi for gear sizes 18-44 at 1725 rpm. At speeds above 1725 rpm, the minimum relief valve settings increase. Contact factory for specific information.

12
Order Code Solenoid Valve Location
R  Rear Mounted Solenoid Valve
S  Side Mounted Solenoid Valve
N  No Solenoid Valve

13 & 14
Order Code Solenoid Valve Voltage
12  12 Volts DC
24  24 Volts DC
15  115 Volts AC
*PG  Solenoid Valve Cavity Plugged
00  No Solenoid Valve Cavity

* Must specify option “H” in section 6
## PUMPS & MOTORS

### Cast Iron Pumps

**GC Series Pumps**
- Displacements
  - 0.065 to 0.711 cu. In. (1.06 to 11.65 cc)

**GC Series High/Low Pumps**
- High Pressure Displacements
  - 0.065 to 0.258 cu. In. (1.06 to 4.22 cc)
- Low Pressure Displacements
  - 0.258 to 0.776 cu. In. (4.22 to 12.71 cc)
- Maximum Pressure
  - 4,000 psi (276 bar)
- Maximum Speed
  - 4,000 rpm

**F12 & F15 Ferra Series Pumps**
- F12 Displacements
  - 0.976 to 2.502 cu. In. (16 – 41 cc)
- F15 Displacements
  - 1.159 to 3.051 cu. In. (19 to 50 cc)
- Maximum Pressure
  - 4,000 psi (276 bar)
- Maximum Speed
  - 3,600 rpm

**F20/F30 Pumps & F20-LS/F30-LS Load Sense Ferra Series Pumps**
- Displacements
  - 1.41 to 9.82 cu. In. (23 to 161 cc)
- Maximum Pressure
  - 4,000 psi (276 bar)
- Maximum Speed
  - 3,600 rpm

**D Series Pumps**
- Displacements
  - 0.232 to 1.395 cu. In. (3.80 to 22.85 cc)

**D Series High/Low Pumps**
- High Pressure Displacements
  - 0.465 cu. In. (7.62 cc)
- Low Pressure Displacements
  - 0.930 to 1.395 cu. In. (15.24 to 22.86 cc)
- Maximum Pressure
  - 3,000–4,000 psi (207–276 bar)
- Maximum Speed
  - 3,600–4,000 rpm

### Aluminum Pumps

**W-Series Pumps**
- Displacements
  - 0.031 to 0.122 cu. In. (0.50 to 2.00 cc)
- 0.049 to 0.347 cu. In. (0.80 to 5.70 cc)
- 0.244 to 0.732 cu. In. (4.22 to 12.71 cc)
- 0.305 to 1.891 cu. In. (5 to 31 cc)
- Maximum Pressure
  - 4,000 psi (276 bar)
- Maximum Speed
  - 500 to 4,000 rpm

**WQ900 Pumps**
- Displacements
  - 0.305 to 1.648 cu. In. (5 to 27 cc)
- Maximum Pressure
  - 3,336 psi (230 bar)
- Maximum Speed
  - 4,000 rpm

**WQ900 Pumps**
- Displacements
  - 1.526 to 2.014 cu. In. (25 to 33 cc)
- 1.159 to 3.051 cu. In. (19 to 50 cc)
- Maximum Pressure
  - 4,000 psi (276 bar)
- Maximum Speed
  - 3,600 rpm

**D Series High/Low Pumps**
- High Pressure Displacements
  - 0.065 to 0.258 cu. In. (1.06 to 4.22 cc)
- Low Pressure Displacements
  - 0.258 to 0.776 cu. In. (4.22 to 12.71 cc)
- Maximum Pressure
  - 4,000 psi (276 bar)
- Maximum Speed
  - 4,000 rpm

### Fluid Motors

**Cast Iron**
- Displacements
  - 0.065 to 9.82 cu. In. (1.06 to 161 cc)
- Maximum Pressure
  - 4,500 psi (310 bar)
- Maximum Input Flow Per Section
  - 14 gpm (53 lpm)

**Aluminum**
- Displacements
  - 0.244 to 3.050 cu. In. (4 to 50 cc)

### Flow Dividers

**GC & D Series**
- GC Displacements
  - 0.097 to 0.517 cu. In. (1.58 to 8.47 cc)
- D Displacements
  - 0.232 to 0.813 cu. in. (3.8 to 13.32 cc)
- Maximum Pressure
  - 4,000 psi (276 bar)

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E-mail us: info.hydraulics.us@haldex.com
Only Haldex offers this extensive range of products worldwide.

**POWER PACKS**

<table>
<thead>
<tr>
<th><strong>PUMP/MOTORS (DC/AC)</strong></th>
<th><strong>HE &quot;BOX&quot; POWER PACKS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Voltage Range</td>
<td>Voltage Range</td>
</tr>
<tr>
<td>12 to 72 VDC</td>
<td>12 to 24 VDC</td>
</tr>
<tr>
<td>AC Horsepower Range</td>
<td>Pump Displacements</td>
</tr>
<tr>
<td>1/2 to 3 HP</td>
<td>0.049 to 0.388 cu. In. (0.80 to 6.36 cc)</td>
</tr>
<tr>
<td>Pump Displacements</td>
<td>Maximum Pressure</td>
</tr>
<tr>
<td>0.04 – 1.71 cu. In. (0.65 to 28 cc)</td>
<td>3,336 psi (230 bar)</td>
</tr>
<tr>
<td>Maximum Pressure</td>
<td>Reservoirs</td>
</tr>
<tr>
<td>4,000 psi (276 bar)</td>
<td>3 qt. to 5.0 gal. (2.84 to 19 ltr.) steel</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>HB8000 POWER PACKS</strong></th>
<th><strong>HE-Q (QUIET) POWER PACKS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage Range</td>
<td>Voltage Range</td>
</tr>
<tr>
<td>12 to 24 VDC</td>
<td>24 VDC</td>
</tr>
<tr>
<td>Pump Displacements</td>
<td>WQ300 Pump Displacements</td>
</tr>
<tr>
<td>0.037 to 0.092 cu. In. (0.60 to 1.5 cc)</td>
<td>0.073 to 0.347 cu. In. (1.2 to 5.7 cc)</td>
</tr>
<tr>
<td>Reservoirs</td>
<td>Noise</td>
</tr>
<tr>
<td>0.13 to 1 gal. (.5 to 3.8 ltr.) plastic</td>
<td>42dB(A)</td>
</tr>
<tr>
<td>Maximum Pressure</td>
<td></td>
</tr>
<tr>
<td>2,610 psi (180 bar)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>HE1000 SERIES POWER PACKS</strong></th>
<th><strong>BIROTATIONAL POWER PACKS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage Range</td>
<td>Voltage Range</td>
</tr>
<tr>
<td>12 to 24 VDC</td>
<td>12 to 24 VDC, 115 to 230 VAC</td>
</tr>
<tr>
<td>Pump Displacements</td>
<td>Pump Displacements</td>
</tr>
<tr>
<td>0.015 to 0.122 cu. In. (0.24 to 2 cc)</td>
<td>0.049 to 0.129 cu. In. (0.80 to 2.11 cc)</td>
</tr>
<tr>
<td>Maximum Pressure</td>
<td>Maximum Pressure</td>
</tr>
<tr>
<td>3,336 psi (230 bar)</td>
<td>2 to 2.96 qt. (1.9 to 2.8 ltr.) plastic,</td>
</tr>
<tr>
<td>Reservoirs</td>
<td>1 to 2 gal. (3.8 to 7.6 ltr.) steel</td>
</tr>
<tr>
<td>0.13 to 1.0 gal. (0.5 to 3.8 ltr.) plastic</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>HE2000 SERIES POWER PACKS</strong></th>
<th><strong>AC POWER PACKS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage Range</td>
<td><strong>GC-9500 SERIES</strong></td>
</tr>
<tr>
<td>12 to 24 VDC, 115 to 230 VAC</td>
<td>Displacements</td>
</tr>
<tr>
<td>Pump Displacements</td>
<td>0.065 to 1.394 cu. In. (1.06 to 22.85 cc)</td>
</tr>
<tr>
<td>Maximum Pressure</td>
<td>Maximum Pressure</td>
</tr>
<tr>
<td>3,336 psi (230 bar)</td>
<td>3,000 psi (207 bar)</td>
</tr>
<tr>
<td>Reservoirs</td>
<td>Maximum Speed</td>
</tr>
<tr>
<td>0.95 qt. to 3.96 gal. (0.9 to 15 ltr.) steel,</td>
<td>3,600 rpm</td>
</tr>
<tr>
<td>0.8 to 1.7 qt. (0.76 to 1.6 ltr.) plastic</td>
<td>Reservoirs</td>
</tr>
<tr>
<td></td>
<td>5 to 20 gal. (19 to 76 ltr.) steel</td>
</tr>
</tbody>
</table>

**Call us for more information**
For application assistance or detailed literature on any Haldex product line, call us toll-free: **1-800-572-7867**.
Visit our web site: [http://www.haldex.com/hbus](http://www.haldex.com/hbus)
E-mail us: info.hydraulics.us@haldex.com
Haldex provides innovative custom solutions to the vehicle industry on a global basis

We focus on the areas where we can create customer value. Our applications expertise enables us to take on customers most unique application challenges. The foundation for this expertise is an expert knowledge of hydraulic systems. The value we bring to our customers is our unique capability to integrate a variety of system components and controls, to provide multiple functions in one custom package.

Our applications specialists seek to understand the overall goals for the vehicle, the vehicle subsystems and then the hydraulics system. This understanding enables them to respond with customized value engineered solutions. Haldex Hydraulics was the first to offer many of the solutions shown here.
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**PRODUCT RANGE**

**HE Powerpacks**
12/24/48 VDC 0.3 – 4.5 kW and 0.75 – 3 kW AC modular power packs

**HE Box Powerpacks**
12/24/48 VDC modular power packs in weatherproof boxes

**Pressure Switches**
5 - 350 bar, connecting/disconnecting

**W100 Hydraulic pumps**
0,5 – 2,0 cc 227 bar

**W300 Hydraulic pumps**
0,8 – 5,7 cc 230 bar

**W600 Hydraulic pumps / motors**
3 – 12 cc 276 bar

**W900 Hydraulic pumps / motors**
5 – 31 cc/section 276 bar

**Calma The new quiet pumps**
6,2 – 23,7 cc/section 250 bar

**WQ900 The quiet pumps**
5 – 23 cc/section 230 bar

**WP900X Hydraulic pumps**
16 – 31 cc/section 276 bar

**W1500 Hydraulic pumps / motors**
19 – 50 cc/section 276 bar

**F12 FERRA Heavy duty pumps**
16 – 41 cc/section 276 bar

**F15 FERRA Heavy duty pumps**
19 – 50 cc/section 276 bar

**F20/F30 (LS) Hydraulic pumps / motors**
23 – 161 cc/section 276 bar

**GC Hydraulic pumps / motors**
1,06 – 11,65 cc/section 276 bar

**D Hydraulic pumps**
3,8 – 22,9 cc/section 207 bar

**H Hydraulic pumps**
9,8 – 39,4 cc/section 207 bar

**II-Stage Hydraulic pumps**
4,2 – 22,8 cc/section 276 bar

**Rotary Flow Dividers**
3,8 – 13,3 cc/section 300 bar

**Transmission pumps**

Haldex (www.haldex.com), headquartered in Stockholm, Sweden, is a provider of proprietary and innovative solutions to the global vehicle industry, with focus on products in vehicles that enhance safety, environment and vehicle dynamics. Haldex is listed on the Nasdaq OMX Stockholm Stock Exchange.