H Series (101-)

Highlights

Description
Designed for medium duty applications, these motors use industry-proven spool valve technology combined with state-of-the-art gerotors. In addition, a wide variety of mounting flanges, shafts, Ports and valving options provide design flexibility. Direction of shaft rotation and shaft speed can be controlled easily and smoothly throughout the speed range of the motor, and equipment can be driven direct, eliminating costly mechanical components.

Specifications

<table>
<thead>
<tr>
<th>Gerotor Element</th>
<th>13 Displacements</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>76 [20] Intermittent**</td>
</tr>
<tr>
<td>Speed</td>
<td>Up to 1100 RPM</td>
</tr>
<tr>
<td>Pressure bar [PSI]</td>
<td>125 [1800] Cont.***</td>
</tr>
<tr>
<td></td>
<td>165 [2400] Inter.**</td>
</tr>
<tr>
<td>Torque Nm [lb-in]</td>
<td>407 [3604] Cont.***</td>
</tr>
<tr>
<td></td>
<td>520 [4600] Inter.**</td>
</tr>
</tbody>
</table>

*** Continuous— (Cont.) Continuous rating, motor may be run continuously at these ratings.
** Intermittent— (Inter.) Intermittent operation, 10% of every minute.

Features:
- Time-tested Char-Lynn drive set
- Three moving components (gerotor-star, drive, and shaft)
- Optimized drive running angle
- Three-zone pressure design (inlet, return and case)
- Variety of displacements, shafts and mounts
- Special options to meet customer needs

Benefits:
- High efficiency
- Powerful compact package
- Design flexibility
- Extended leak-free performance

Applications:
- Agricultural augers, harvesters, seeders
- Car wash, seeders
- Food processing
- Railroad maintenance equipment
- Machine tools
- Conveyors
- Industrial sweepers and floor polishers
- Saw mill works
- Turf equipment
- Concrete and asphalt equipment
- Skid steer attachments
- Many more

Char-Lynn H Series Hydraulic Motors are available at Northern Hydraulics. Please call 1-800-823-4937 or visit www.northernhydraulics.net
H Series (101-)

Specifications

SPECIFICATION DATA — H MOTORS

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Speed (RPM)</td>
<td>1021</td>
<td>969</td>
<td>953</td>
<td>760</td>
<td>585</td>
<td>469</td>
<td>385</td>
<td>353</td>
<td>304</td>
<td>243</td>
<td>192</td>
<td>152</td>
<td>74</td>
</tr>
</tbody>
</table>

A simultaneous maximum torque and maximum speed NOT recommended.

Note:
To assure best motor life, run motor for approximately one hour at 30% of rated pressure before application to full load. Be sure motor is filled with fluid prior to any load applications.

Note:
Δ pressure is derated for end ported units.

Maximum Inlet Pressure:
172 Bar [2500 PSI] without regard to ∆ Bar [Δ PSI] and/or back pressure ratings or combination thereof. 6B splined or Tapered shafts are recommended whenever operation above 282 NM [2500 lb-in] of torque, especially for those applications subject to frequent reversals.

A Pressure:
The true ∆ bar [Δ PSI] difference between inlet port and outlet port

Continuous Rating:
Motor may be run continuously at these ratings

Intermittent Operation:
10% of every minute

Recommended Fluids:
Recommended Fluids — Premium quality, anti-wear type hydraulic oil. Minimum oil viscosity (at operating temperature) should be the highest of the following: 100 SUS or

\[
\frac{300 \times \text{Bar}}{\text{RPM}} = \text{SUS}
\]

Recommended System Operating Temp.:
-34°C to 82°C [-30°F to 180°F]

Recommended Filtration:
per ISO Cleanliness Code 4406, level 20/18/13
**H Series (101-)**

**Performance Data**

Motors run with high efficiency in all areas designated with a number for torque and speed, however for best motor life select a motor to run with a torque and speed range printed in the light shaded area.

Performance data is typical at 120 SUS. Actual data may vary slightly from unit to unit in production.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>22.7</td>
<td>30.3</td>
<td>40.0</td>
<td>Max.</td>
<td>Max.</td>
<td>Maximat</td>
</tr>
</tbody>
</table>

Char-Lynn H Series Hydraulic Motors are available at Northern Hydraulics. Please call 1-800-823-4937 or visit www.northernhydraulics.net

---

### Performance Data - Continuous

<table>
<thead>
<tr>
<th>Torque [lb-in</th>
<th>Nm]</th>
<th>Speed [RPM]</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>240</td>
<td>83</td>
</tr>
<tr>
<td>1000</td>
<td>800</td>
<td>165</td>
</tr>
</tbody>
</table>

### Performance Data - Intermittent

<table>
<thead>
<tr>
<th>Torque [lb-in</th>
<th>Nm]</th>
<th>Speed [RPM]</th>
</tr>
</thead>
<tbody>
<tr>
<td>90</td>
<td>200</td>
<td>90</td>
</tr>
<tr>
<td>1000</td>
<td>800</td>
<td>165</td>
</tr>
</tbody>
</table>

---

**46 cm³/r [2.8 in³/r]**

<table>
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<tr>
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<tr>
<td></td>
<td>22.7</td>
<td>30.3</td>
<td>40.0</td>
<td>Max.</td>
<td>Max.</td>
<td>Maximat</td>
</tr>
</tbody>
</table>

---

**50 cm³/r [3.1 in³/r]**

<table>
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<tr>
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<td>30.3</td>
<td>40.0</td>
<td>Max.</td>
<td>Max.</td>
<td>Maximat</td>
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</tbody>
</table>

---

**Motor Torque and Speed**

<table>
<thead>
<tr>
<th>Torque [lb-in</th>
<th>Nm]</th>
<th>Speed [RPM]</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>240</td>
<td>83</td>
</tr>
<tr>
<td>1000</td>
<td>800</td>
<td>165</td>
</tr>
</tbody>
</table>

---

**Char-Lynn H Series Hydraulic Motors**

are available at Northern Hydraulics. Please call 1-800-823-4937 or visit www.northernhydraulics.net

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**B-2**
Performance Data

Motors run with high efficiency in all areas designated with a number for torque and speed, however for best motor life select a motor to run with a torque and speed range printed in the light shaded area.

Performance data is typical at 120 SUS. Actual data may vary slightly from unit to unit in production.
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H Series (101-)

Performance Data

Motors run with high efficiency in all areas designated for torque and speed, however for best motor life select a motor to run with a torque and speed range printed in the light shaded area.

Performance data is typical at 120 SUS. Actual data may vary slightly from unit to unit in production.

### 97 cm³/r [5.9 in³/r] Δ Pressure Bar [PSI]

<table>
<thead>
<tr>
<th>Continuous</th>
<th>Max. Continuous</th>
<th>Max. Intermittent</th>
</tr>
</thead>
<tbody>
<tr>
<td>[200] 14</td>
<td>[400] 41</td>
<td>[600] 69</td>
</tr>
<tr>
<td>[600] 41</td>
<td>[800] 55</td>
<td>[1000] 58</td>
</tr>
</tbody>
</table>

### 120 cm³/r [7.3 in³/r] Δ Pressure Bar [PSI]

<table>
<thead>
<tr>
<th>Continuous</th>
<th>Max. Continuous</th>
<th>Max. Intermittent</th>
</tr>
</thead>
<tbody>
<tr>
<td>[200] 14</td>
<td>[400] 41</td>
<td>[600] 69</td>
</tr>
<tr>
<td>[600] 41</td>
<td>[800] 55</td>
<td>[1000] 58</td>
</tr>
</tbody>
</table>

Flow LPM (GPM)

<table>
<thead>
<tr>
<th>Continuous</th>
<th>Max. Continuous</th>
<th>Max. Intermittent</th>
</tr>
</thead>
<tbody>
<tr>
<td>[600] 592</td>
<td>[800] 702</td>
<td>[1000] 812</td>
</tr>
</tbody>
</table>

Torque (lb-in) Nm

Flow Speed RPM

Char-Lynn H Series Hydraulic Motors are available at Northern Hydraulics. Please call 1-800-823-4937 or visit www.northernhydraulics.net
### Performance Data

Motors run with high efficiency in all areas designated with a number for torque and speed, however for best motor life select a motor to run with a torque and speed range printed in the light shaded area.

Performance data is typical at 120 SUS. Actual data may vary slightly from unit to unit in production.

#### 146 cm³/r [8.9 in³/r]

<table>
<thead>
<tr>
<th>Flow LPM</th>
<th>Max. Continuous</th>
<th>Max. Intermittent</th>
</tr>
</thead>
<tbody>
<tr>
<td>[GPM]</td>
<td>[GPM]</td>
<td>[GPM]</td>
</tr>
</tbody>
</table>

#### 159 cm³/r [9.7 in³/r]

<table>
<thead>
<tr>
<th>Flow LPM</th>
<th>Max. Continuous</th>
<th>Max. Intermittent</th>
</tr>
</thead>
<tbody>
<tr>
<td>[GPM]</td>
<td>[GPM]</td>
<td>[GPM]</td>
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</tbody>
</table>

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Char-Lynn H Series Hydraulic Motors are available at Northern Hydraulics. Please call 1-800-823-4937 or visit www.northernhydraulics.net
### Performance Data

Motors run with high efficiency in all areas designated with a number for torque and speed, however for best motor life select a motor to run with a torque and speed range printed in the light shaded area.

Performance data is typical at 120 SUS. Actual data may vary slightly from unit to unit in production.

![Continuous](image)

![Intermittent](image)

#### 185 cm³/r [11.3 in³/r]

<table>
<thead>
<tr>
<th>Pressure Bar [PSI]</th>
<th>Continuous</th>
<th>Max. Continuous</th>
<th>Max. Intermittent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>[200]</td>
<td>[400]</td>
<td>[600]</td>
<td>[800]</td>
</tr>
<tr>
<td>14</td>
<td>28</td>
<td>41</td>
<td>55</td>
</tr>
<tr>
<td>40</td>
<td>63</td>
<td>96</td>
<td>130</td>
</tr>
<tr>
<td>7,6</td>
<td>8</td>
<td>12</td>
<td>16</td>
</tr>
<tr>
<td>[4]</td>
<td>[254]</td>
<td>[286]</td>
<td>[318]</td>
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<tr>
<td>29</td>
<td>62</td>
<td>95</td>
<td>129</td>
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<tr>
<td>15,1</td>
<td>81</td>
<td>81</td>
<td>80</td>
</tr>
<tr>
<td>[6]</td>
<td>[246]</td>
<td>[280]</td>
<td>[314]</td>
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<tr>
<td>22,2</td>
<td>121</td>
<td>120</td>
<td>120</td>
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<td>[8]</td>
<td>[234]</td>
<td>[268]</td>
<td>[302]</td>
</tr>
<tr>
<td>30,3</td>
<td>162</td>
<td>162</td>
<td>161</td>
</tr>
<tr>
<td>[10]</td>
<td>[202]</td>
<td>[236]</td>
<td>[270]</td>
</tr>
<tr>
<td>45,4</td>
<td>202</td>
<td>202</td>
<td>201</td>
</tr>
<tr>
<td>[14]</td>
<td>[140]</td>
<td>[174]</td>
<td>[208]</td>
</tr>
<tr>
<td>53,0</td>
<td>283</td>
<td>283</td>
<td>282</td>
</tr>
<tr>
<td>[15]</td>
<td>[120]</td>
<td>[154]</td>
<td>[188]</td>
</tr>
<tr>
<td>56,6</td>
<td>304</td>
<td>303</td>
<td>302</td>
</tr>
<tr>
<td>[20]</td>
<td>[27]</td>
<td>[31]</td>
<td>[35]</td>
</tr>
<tr>
<td>75,2</td>
<td>405</td>
<td>404</td>
<td>402</td>
</tr>
</tbody>
</table>

#### 231 cm³/r [14.1 in³/r]

<table>
<thead>
<tr>
<th>Pressure Bar [PSI]</th>
<th>Continuous</th>
<th>Max. Continuous</th>
<th>Max. Intermittent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td>[200]</td>
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<td>[600]</td>
<td>[800]</td>
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<tr>
<td>14</td>
<td>28</td>
<td>41</td>
<td>55</td>
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<tr>
<td>40</td>
<td>63</td>
<td>96</td>
<td>130</td>
</tr>
<tr>
<td>7,6</td>
<td>8</td>
<td>12</td>
<td>16</td>
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<tr>
<td>[4]</td>
<td>[254]</td>
<td>[286]</td>
<td>[318]</td>
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<tr>
<td>29</td>
<td>62</td>
<td>95</td>
<td>129</td>
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<tr>
<td>15,1</td>
<td>81</td>
<td>81</td>
<td>80</td>
</tr>
<tr>
<td>[6]</td>
<td>[246]</td>
<td>[280]</td>
<td>[314]</td>
</tr>
<tr>
<td>22,2</td>
<td>121</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>[8]</td>
<td>[234]</td>
<td>[268]</td>
<td>[302]</td>
</tr>
<tr>
<td>30,3</td>
<td>162</td>
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<td>161</td>
</tr>
<tr>
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<td>[202]</td>
<td>[236]</td>
<td>[270]</td>
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<td>202</td>
<td>202</td>
<td>201</td>
</tr>
<tr>
<td>[14]</td>
<td>[140]</td>
<td>[174]</td>
<td>[208]</td>
</tr>
<tr>
<td>53,0</td>
<td>283</td>
<td>283</td>
<td>282</td>
</tr>
<tr>
<td>[15]</td>
<td>[120]</td>
<td>[154]</td>
<td>[188]</td>
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<tr>
<td>56,6</td>
<td>304</td>
<td>303</td>
<td>302</td>
</tr>
<tr>
<td>[20]</td>
<td>[27]</td>
<td>[31]</td>
<td>[35]</td>
</tr>
<tr>
<td>75,2</td>
<td>405</td>
<td>404</td>
<td>402</td>
</tr>
</tbody>
</table>

- Torque [lb-in ]
- Nm
- Speed RPM
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**H Series (101-)**

Performance Data

Motors run with high efficiency in all areas designated with a number for torque and speed, however for best motor life select a motor to run with a torque and speed range printed in the light shaded area.

Performance data is typical at 120 SUS. Actual data may vary slightly from unit to unit in production.

<table>
<thead>
<tr>
<th>Speed RPM</th>
<th>Torque [lb-in]</th>
<th>Nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>75.7</td>
<td>68</td>
<td>61</td>
</tr>
</tbody>
</table>

### 293 cm³/min [17.9 in³/r]

**Pressure Bar [PSI]**

<table>
<thead>
<tr>
<th>Continuous</th>
<th>Max. Continuous</th>
<th>Max. Intermittent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| [327]      | [362]           | [397]            |

| [20]       | [22]            | [24]             |
| [327]      | [362]           | [397]            |

### 370 cm³/min [22.6 in³/r]

**Pressure Bar [PSI]**

<table>
<thead>
<tr>
<th>Continuous</th>
<th>Max. Continuous</th>
<th>Max. Intermittent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| [327]      | [362]           | [397]            |

| [20]       | [22]            | [24]             |
| [327]      | [362]           | [397]            |

### 739 cm³/min [45.1 in³/r]

**Pressure Bar [PSI]**

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<th>Continuous</th>
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<th>Max. Intermittent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| [327]      | [362]           | [397]            |

| [20]       | [22]            | [24]             |
| [327]      | [362]           | [397]            |
H Series (101-)

Dimensions
(Refer to pages B-4-19 thru B-4-22 for shaft and port dimensions.)

2 Bolt Flange

82.55/82.42 [3.250/3.245] Pilot Dia.

133.9 [5.27] Max.

13.62/13.46 [0.550/0.530] Dia. Thru (2) Mounting Holes

98.3 [3.87] Max.

Groove Provided for 82.6 [3.25] I.D. x 2.62 [0.103] Cross Section O-ring (Dash No. 152)

4 Bolt Flange


2 AND 4 BOLT FLANGE

<table>
<thead>
<tr>
<th>Displacement cm³/r [in³/r]</th>
<th>X [mm] [inch]</th>
<th>Y [mm] [inch]</th>
<th>YY [mm] [inch]</th>
</tr>
</thead>
<tbody>
<tr>
<td>59 [3.6]</td>
<td>102 [4.00]</td>
<td>135.9 [5.35]</td>
<td>142.3 [5.60]</td>
</tr>
<tr>
<td>74 [4.5]</td>
<td>102 [4.00]</td>
<td>135.9 [5.35]</td>
<td>142.3 [5.60]</td>
</tr>
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<td>97 [5.9]</td>
<td>132 [.52]</td>
<td>139.0 [5.47]</td>
<td>145.3 [5.72]</td>
</tr>
<tr>
<td>120 [7.3]</td>
<td>165 [6.50]</td>
<td>142.3 [5.60]</td>
<td>148.6 [5.85]</td>
</tr>
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<td>146 [8.9]</td>
<td>201 [7.9]</td>
<td>145.8 [5.74]</td>
<td>152.2 [5.99]</td>
</tr>
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<td>293 [17.9]</td>
<td>404 [1.59]</td>
<td>166.2 [6.54]</td>
<td></td>
</tr>
<tr>
<td>370 [22.6]</td>
<td>508 [2.00]</td>
<td>176.6 [6.95]</td>
<td></td>
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<tr>
<td>739 [45.1]</td>
<td>1016 [4.00]</td>
<td>227.4 [8.95]</td>
<td></td>
</tr>
</tbody>
</table>
### H Series (101-)

#### Product Numbers

**2 Bolt Flange**

<table>
<thead>
<tr>
<th>SHAFT SIZE</th>
<th>PORT SIZE</th>
<th>DISPL. cm³/r [in³/r] / PRODUCT NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 NPTF</td>
<td>101-1704</td>
<td>1025 -1065 -1026 -1027 -1066 -1067 -1028 -1029 -1030 -1031 -1032</td>
</tr>
<tr>
<td>1/2 NPTF</td>
<td>101-1715</td>
<td>1073 -1113 -1074 -1075 -1115 -1116 -1076 -1077 -1078 -1079 -1080</td>
</tr>
</tbody>
</table>

**1 in. Straight w/ .31 Dia. Crosshole**

<table>
<thead>
<tr>
<th>SHAFT SIZE</th>
<th>PORT SIZE</th>
<th>DISPL. cm³/r [in³/r] / PRODUCT NUMBER</th>
</tr>
</thead>
</table>

**1 in. Straight w/ .40 Dia. Crosshole**

<table>
<thead>
<tr>
<th>SHAFT SIZE</th>
<th>PORT SIZE</th>
<th>DISPL. cm³/r [in³/r] / PRODUCT NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/8-14 O-Ring</td>
<td>101-1819</td>
<td>1223 -1263 -1224 -1225 -1267 -1268 -1226 -1227 -1228 -1229 -1230</td>
</tr>
<tr>
<td>1/2 NPTF</td>
<td>101-1823</td>
<td>1232 -1272 -1233 -1234 -1277 -1278 -1235 -1236 -1237 -1238 -1239</td>
</tr>
</tbody>
</table>

**4 Bolt Flange**

<table>
<thead>
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<th>SHAFT SIZE</th>
<th>PORT SIZE</th>
<th>DISPL. cm³/r [in³/r] / PRODUCT NUMBER</th>
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<tbody>
<tr>
<td>7/8-14 O-Ring</td>
<td>101-1749</td>
<td>1009 -1050 -1010 -1011 -1051 -1052 -1012 -1013 -1014 -1015 -1016</td>
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<tr>
<td>Manifold*</td>
<td>101-1757</td>
<td>1017 -1068 -1018 -1019 -1069 -1070 -1020 -1021 -1022 -1023 -1024</td>
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<td>Manifold*</td>
<td>101-1768</td>
<td>1065 -1111 -1066 -1067 -1112 -1113 -1068 -1069 -1070 -1071 -1072</td>
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**4 Bolt Flange with Corrosion Protection**

<table>
<thead>
<tr>
<th>SHAFT SIZE</th>
<th>PORT SIZE</th>
<th>DISPL. cm³/r [in³/r] / PRODUCT NUMBER</th>
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<tbody>
<tr>
<td>Manifold*</td>
<td>-2067</td>
<td>-2068 -2069</td>
</tr>
</tbody>
</table>

*Manifold product numbers shown are for motors with four 5/16-18 port face mounting threads. Manifold, manifold mounting O-Rings and bolts are NOT included.

For H Series Motors with a configuration Not Shown in the charts above: Use the model code system on page B-2-11 to specify the product in detail.
Char-Lynn H Series Hydraulic Motors are available at Northern Hydraulics. Please call 1-800-823-4937 or visit www.northernhydraulics.net

**Model Code**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Code</th>
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<tbody>
<tr>
<td>Product</td>
<td>M</td>
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<tr>
<td>M - Motor</td>
<td>M</td>
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<tr>
<td>Series</td>
<td>H0</td>
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<tr>
<td>H Motor</td>
<td>H</td>
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<tr>
<td>Displacement</td>
<td>4</td>
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<tr>
<td>cm³/r [in³/r]</td>
<td>5</td>
</tr>
<tr>
<td>022 – 36 [2.2]‡</td>
<td>6</td>
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<tr>
<td>028 – 46 [2.8]</td>
<td>7</td>
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<tr>
<td>035 – 58 [3.5]‡</td>
<td>8</td>
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<tr>
<td>045 – 74 [4.5]</td>
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<tr>
<td>059 – 96 [5.9]</td>
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<tr>
<td>073 – 120 [7.3]</td>
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<tr>
<td>089 – 146 [8.9]</td>
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<tr>
<td>113 – 185 [11.3]</td>
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<tr>
<td>141 – 231 [14.1]</td>
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<tr>
<td>179 – 294 [17.9]</td>
<td>16</td>
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<tr>
<td>226 – 370 [22.6]</td>
<td>17</td>
</tr>
<tr>
<td>451 – 739 [45.1]</td>
<td>18</td>
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<tr>
<td>‡The H Series motors with displacement code “022” or “035” must also specify free running gerotor option “AA” in position 11, 12.</td>
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<tr>
<td>Output Shaft</td>
<td>9</td>
</tr>
<tr>
<td>01 – 25.4 [1.00] Dia. Straight, Woodruff Key, .250-20 UNC-2B Hole in Shaft End</td>
<td>10</td>
</tr>
<tr>
<td>02 – 25 [1.00] Dia. SAE 6B Spline, .250-20 UNC-2B Hole in Shaft End</td>
<td>11</td>
</tr>
<tr>
<td>16 – 22.2 [0.875] Dia. SAE 13 Tooth Spline (SAE B)</td>
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<tr>
<td>17 – 22.2 [0.875] Dia. Straight, 6.4 [.25] x 19.6 [.77] Square Key (SAE B)</td>
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</tr>
<tr>
<td>18 – 25.4 [1.00] Dia. Tapered, Woodruff Key and Nut, 34.92 [1.375] Taper Length</td>
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<tr>
<td>24 – 25.00 [.984] Dia. Straight, 8.00 [.315] KEY, M8 x 1.25-6H Hole in Shaft End</td>
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</tr>
<tr>
<td>39 - 25.00 [.984] Dia. Straight, (k6), 8.00 [.315] Key, M8 x 1.25-6H Hole in Shaft End</td>
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<tr>
<td>Ports</td>
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<tr>
<td>AA – .875-14 UNF-2B SAE O-Ring Ports</td>
<td>12</td>
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<tr>
<td>AB – .500-14 NPTF Dry Seal Pipe Thread Ports</td>
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<tr>
<td>AC – Manifold Ports (.3125-18 UNC-2B Mounting Holes)</td>
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<tr>
<td>AD – Manifold Ports (M8 x 1.25-6H Mounting Holes)</td>
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<tr>
<td>AF – G 1/2 BSP Straight Thread Ports</td>
<td>16</td>
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<tr>
<td>EB†† – End Ports: .750-16 UNF-2B SAE O-Ring Ports</td>
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<tr>
<td>EC†† – End Ports: G 1/2 BSP Straight Thread Ports</td>
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<tr>
<td>††Note: End ported motor pressure is derated. Reference page B-2-2 for ratings.</td>
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<tr>
<td>Case Flow Options</td>
<td>19</td>
</tr>
<tr>
<td>0 – None</td>
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<tr>
<td>1 – .4375-20 UNF-2B SAE O-Ring Port (End Cap)</td>
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</tr>
<tr>
<td>2 – G 1/4 BSP Straight THD Port (End Cap)</td>
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<tr>
<td>A – Internal Check Valves</td>
<td>23</td>
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<tr>
<td>Gerotor Options</td>
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<tr>
<td>0 – None</td>
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<tr>
<td>A – Free Running</td>
<td>A – Low Speed Valving</td>
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<td>Shaft Options</td>
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<tr>
<td>0 – None</td>
<td>SS – Stainless Steel Flange Bolts</td>
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<tr>
<td>N – Electroless Nickel Plated</td>
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<tr>
<td>Paint/ Special Packaging</td>
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<tr>
<td>0 – No Paint</td>
<td>A – Low Gloss Black Primer</td>
</tr>
<tr>
<td>D – Environmental Coated Gloss White</td>
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<tr>
<td>F – Environmental Coated Black</td>
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<tr>
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<td>J – Nine (9)</td>
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</table>

† feasieve options for available options.

**Feature in bold are preferred and allow for shorter lead time.**