500 Series Motor

- High Pressure Viton Shaft Seal
- Heavy Duty Drive Link
- Valve-In-Rotor Design
- Pressure-Compensated Balance Plate
- High Temperature Seals are Standard
Our People Make the Difference

Our promise at FluiDyne is to provide the fluid power industry with high quality, fully tested and technically supported hydraulic pumps, motors and valves. We understand and value the local service and support provided by repair shops, resellers and distributors to the OEM's and users of fluid power applications. We do not compete with our customers, but rather we partner with them. FluiDyne supports the channels of distribution that contribute to our partners' success.

Our strength is our people. We focus on personal development and a long term commitment to our staff. We recognize knowledgeable people are a valuable part of the service a business organization provides. We stress a commitment to learning and customer support at every level of the FluiDyne organization. Accounting, Customer Service, Engineering, Inventory, Marketing, Management, Manufacturing, Quality and Shipping all work together to serve our customer. We believe in treating everyone inside and outside the company with professionalism and respect.

Application and technical support for our products is easily accessible, and we pride ourselves in not having a switchboard or phone tree. The person, who picks up the phone, helps the customer. We like it simple, we like it direct. Our inventory is extensive and our people are skilled at assembly, modifications and testing. Our product leaves the factory fast (often the same day) and it leaves correct, tested and documented.

Call, email or visit our website to learn more about FluiDyne. Our products and people make us special.

- 18 month warranty
- Blind drop shipments
- Custom proprietary software allows immediate and accurate technical support, quoting, order entry and bill of material information
- Extensive Michigan inventory
- ISO Certified 9001:2015
- New FluiDyne and remanufactured products
- Outstanding customer service
- Performance you have come to expect
- Same day shipments
- Standard and modified products
- Multiple test stands which allow for quick 100% testing of all units shipped

Visit our Website to learn more about what makes us so great!

Visit our Website

www.FluiDyneFP.com
Features and Benefits:

**High Pressure Shaft Seal** offers superior seal life and performance. Eliminates need for case drain.

**Heavy Duty Drive Link** is very robust, receiving full flow lubrication during operation, providing long life.

**Valve-In-Rotor Design** provides cost effective, efficient distribution of oil and reduces overall motor length.

**Pressure-Compensated Balance Plate** improves the volumetric efficiency at low flows and high pressures.

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Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>125</th>
<th>160</th>
<th>200</th>
<th>230</th>
<th>250</th>
<th>300</th>
<th>350</th>
<th>375</th>
<th>475</th>
<th>540</th>
<th>750</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displacement&lt;br&gt;cm³/rev (in³/rev)</td>
<td>118 (7.20)</td>
<td>156 (9.52)</td>
<td>196 (11.96)</td>
<td>228 (13.91)</td>
<td>257 (15.68)</td>
<td>296 (18.08)</td>
<td>345 (21.05)</td>
<td>371 (22.63)</td>
<td>462 (28.18)</td>
<td>540 (32.94)</td>
<td>745 (45.45)</td>
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<tr>
<td>Max Speed&lt;br.rpm</td>
<td>Cont 360</td>
<td>375</td>
<td>330</td>
<td>290</td>
<td>290</td>
<td>250</td>
<td>220</td>
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<td>100</td>
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<td></td>
<td>Int 490</td>
<td>470</td>
<td>425</td>
<td>365</td>
<td>350</td>
<td>315</td>
<td>270</td>
<td>240</td>
<td>195</td>
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<td>3983</td>
<td>4691</td>
<td>5531</td>
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<td>7169</td>
<td>8009</td>
<td>8762</td>
<td>9602</td>
<td>8673</td>
<td>9293</td>
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<td>4646</td>
<td>5310</td>
<td>6284</td>
<td>6992</td>
<td>8231</td>
<td>9160</td>
<td>10089</td>
<td>10443</td>
<td>10974</td>
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<td>Max Differential&lt;br&gt;psi</td>
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<td>2973</td>
<td>2973</td>
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<td>2973</td>
<td>2973</td>
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<td>2538</td>
<td>2030</td>
<td>1523</td>
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<td>Int 3481</td>
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<td></td>
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<td>32</td>
<td>32</td>
<td>33</td>
<td>35</td>
<td>38</td>
</tr>
</tbody>
</table>

Continuous (Cont.) = maximum of continuous operation. Intermittent (Int.) = maximum operating range for 6 seconds per minute
The FP500/501 motors are bi-directional. For applications requiring the motor to rotate in only one direction, shaft seal life may be prolonged by pressurizing the A-Port.

**Model Code Breakdown**

**Series**
- **500** - Standard Rotation, CCW (Viewed from shaft end)
- **501** - Rotation, CW (Viewed from shaft end)

**Displacement**
- 125 - 118 cm³/rev (7.2 in³/rev)
- 160 - 156 cm³/rev (9.5 in³/rev)
- 200 - 196 cm³/rev (11.9 in³/rev)
- 230 - 228 cm³/rev (13.9 in³/rev)
- 300 - 296 cm³/rev (18.1 in³/rev)
- 350 - 345 cm³/rev (21.1 in³/rev)
- 375 - 371 cm³/rev (22.6 in³/rev)
- 475 - 462 cm³/rev (28.2 in³/rev)
- 540 - 540 cm³/rev (32.9 in³/rev)
- 750 - 748 cm³/rev (45.6 in³/rev)

**Mount & Port Option**
- **A51** - 6-Hole, SAE-A/Magneto Mount, Aligned Ports, 7/8-14 UNF
- **W31** - 4-Hole, Wheel Mount, Aligned Ports, 7/8-14 UNF

**Shaft Options**
- **02** - 1” 6B Spline
- **10** - 1” Straight
- **20** - 1-1/4” Straight
- **22** - 1-1/4” Tapered
- **23** - 14 Tooth Spline

**Paint**
- **A** - Black
- **B** - Black, Unpainted Mounting Surface
- **Z** - No Paint

**Valve Cavity / Cartridge Option**
- **A** - None

**Add-On Option**
- **A** - Featuring Rotor

**Miscellaneous Option**
- **AA** - None
- **AC** - Featuring Rotor available! Contact our customer service team for more information.

**500/501 - 500 Series**
Medium Duty Hydraulic Motor

<table>
<thead>
<tr>
<th>Shaft Code</th>
<th>Description</th>
<th>Torque (Nm)</th>
<th>Torque (lb-in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>1” 6B Spline</td>
<td>678</td>
<td>6000</td>
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<tr>
<td>10</td>
<td>1” Straight</td>
<td>655</td>
<td>5800</td>
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<tr>
<td>20</td>
<td>1-1/4” Straight</td>
<td>1200</td>
<td>10600</td>
</tr>
<tr>
<td>22</td>
<td>1-1/4” Tapered</td>
<td>1200</td>
<td>10600</td>
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</table>

**From Mounting Flange to Shaft End**

<table>
<thead>
<tr>
<th>Shaft Code</th>
<th>Magneto Mount mm (in)</th>
<th>Wheel Mount mm (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>50 (1.97)</td>
<td>91 (3.58)</td>
</tr>
<tr>
<td>10</td>
<td>50 (1.97)</td>
<td>91 (3.58)</td>
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<td>20</td>
<td>61 (2.40)</td>
<td>103 (4.06)</td>
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<td>22</td>
<td>65 (2.56)</td>
<td>107 (4.21)</td>
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<tr>
<td>23</td>
<td>61 (2.40)</td>
<td>103 (4.06)</td>
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</table>
## 500/501 - 500 Series
Medium Duty Hydraulic Motor

### A51 - SAE A and Magneto Mount
Port A, B Ports 7/8-14UNF

<table>
<thead>
<tr>
<th>Model Size</th>
<th>125</th>
<th>160</th>
<th>200</th>
<th>230</th>
<th>250</th>
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<tbody>
<tr>
<td>Displacement cm³/rev (in³/rev)</td>
<td>118</td>
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<td>296</td>
<td>345</td>
<td>371</td>
<td>462</td>
<td>540</td>
<td>745</td>
</tr>
<tr>
<td>Lₘ (mm), Magneto Lₘ (inches)</td>
<td>157</td>
<td>160</td>
<td>163.5</td>
<td>166</td>
<td>168.5</td>
<td>172</td>
<td>176</td>
<td>178.5</td>
<td>186</td>
<td>194</td>
<td>210</td>
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<tr>
<td>L₁ (mm)</td>
<td>10.2</td>
<td>13.5</td>
<td>17</td>
<td>19.5</td>
<td>22</td>
<td>25.4</td>
<td>29.5</td>
<td>31.8</td>
<td>39.4</td>
<td>47.3</td>
<td>63.5</td>
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<tr>
<td>L₁ (inches)</td>
<td>0.40&quot;</td>
<td>0.53&quot;</td>
<td>0.67&quot;</td>
<td>0.77&quot;</td>
<td>0.87&quot;</td>
<td>1.00&quot;</td>
<td>1.16&quot;</td>
<td>1.25&quot;</td>
<td>1.55&quot;</td>
<td>1.86&quot;</td>
<td>2.50&quot;</td>
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<tr>
<td>Weight (lbs)</td>
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<td>24</td>
<td>25</td>
<td>25</td>
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<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>33</td>
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### W31 - Wheel Mount
Port A, B Ports 7/8-14UNF

<table>
<thead>
<tr>
<th>Model Size</th>
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<th>230</th>
<th>250</th>
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</thead>
<tbody>
<tr>
<td>Displacement cm³/rev (in³/rev)</td>
<td>119</td>
<td>122</td>
<td>125.5</td>
<td>128</td>
<td>130.5</td>
<td>134.5</td>
<td>138</td>
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<td>176</td>
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<td>Lₜ (mm), Wheel Lₜ (inches)</td>
<td>4.68&quot;</td>
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<td>5.14&quot;</td>
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<td>5.53&quot;</td>
<td>5.83&quot;</td>
<td>6.14&quot;</td>
<td>6.93&quot;</td>
</tr>
<tr>
<td>L₁ (mm)</td>
<td>10.2</td>
<td>13.5</td>
<td>17</td>
<td>19.5</td>
<td>22</td>
<td>25.4</td>
<td>29.5</td>
<td>31.8</td>
<td>39.4</td>
<td>47.3</td>
<td>63.5</td>
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<tr>
<td>L₁ (inches)</td>
<td>0.40&quot;</td>
<td>0.53&quot;</td>
<td>0.67&quot;</td>
<td>0.77&quot;</td>
<td>0.87&quot;</td>
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<td>1.25&quot;</td>
<td>1.55&quot;</td>
<td>1.86&quot;</td>
<td>2.50&quot;</td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>27</td>
<td>27</td>
<td>27</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td>32</td>
<td>35</td>
</tr>
</tbody>
</table>

Sales@FluidyneFP.com • (586) 296-7200
FluiDyne supports the distributors providing local knowledge and assistance to fluid power customers.

Our people provide extensive support:

- Engineering Expertise
- Component failure analysis
- Decoding special part number
- 18 month warranty
- Identification of parts within units
- New application component selection
- Advice on component repair and assembly
- Same day shipment

Reman Units & Parts Available for Racine, Oilgear, Bosch, Continental and More!

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Email: sales@FluiDyneFP.com

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