## BRONZE OR ALUMINUM
### CLOSE COUPLED HELICAL ROTOR PUMP

**MODEL 111 111B**

**PIECE SIZE 3/4**

**FEATURES**
- All Bronze or Corrosion Resistant Aluminum Construction
- Carbon Face Mechanical Seal
- Quiet Running Pump
- Can Handle Contaminated Liquids
- Buna Stator and Stainless Steel Rotor
- Easily Mounted in Field to Standard Briggs & Stratton or Tecumseh Engines

**CHARACTERISTICS**

The turning of the helical shaped rotor within the stationary stator creates a progressing cavity similar to a moving piston. Liquid is thus displaced generating a pumping action.

Unlike piston pumping, extremely high pressure cannot be created because the stator is made of Buna N and is flexible. Because of this flexibility contaminated liquids can be handled.

Close fit of the rotor within the stator permits lifting of liquid on the suction side as high as 20 ft. High starting torque motors are recommended in order to overcome the high starting friction of the stator. The pump is relatively quiet.

**ROTATION**

This helical rotor design demands a single rotation - clockwise when facing the pump drive shaft. Pump rotation and “in” and “out” ports are indicated on the dimension diagrams on reverse side.

**MATERIALS OF CONSTRUCTION**

These pump housings and mounting brackets are made from cast aluminum or bronze alloy. The rotor is made from stainless steel with a hard chrome plate for improved wear properties. The stator is made from molded Buna N. The mechanical seal is a carbon and ceramic rotary face type for positive sealing.

**LIQUIDS**

The corrosion resistant alloys used are compatible with common liquids including water, water solutions, oils and many commercial chemicals. Severe solvents are not compatible with the Buna and should not be pumped.

### GASOLINE ENGINE MOUNTING

This pump is supplied close coupled to gasoline engine or as a pump alone complete with attaching parts and instructions for mounting. Any 2 or 4 cycle gasoline engine having a standard S.A.E. 4 bolt mounting flange and 5/8 inch shaft diameter with keyslot can be used. An engine rating of at least 2.2 horsepower at 3600 R.P.M. is necessary as only about one-half of rated power is available at the recommended pump speed of 2100 R.P.M. Larger horsepower engines (3 H.P. at 3600 R.P.M.) with 5/8 inch shaft diameter and suitable flange mounting provide extra power to compensate for power losses due to carbon deposits and gumming.

**CAPACITY - WATER 60°F**

**AVG. ENGINE SPEED 2100 R.P.M.**

<table>
<thead>
<tr>
<th>Pressure P.S.I.</th>
<th>0</th>
<th>10</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>60</th>
<th>70</th>
<th>80</th>
<th>90</th>
<th>100</th>
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<tbody>
<tr>
<td>Flow G.P.M. (Water)</td>
<td>10</td>
<td>9 1/2</td>
<td>9</td>
<td>8 1/2</td>
<td>8</td>
<td>7 1/2</td>
<td>7</td>
<td>6</td>
<td>5</td>
<td>4 1/2</td>
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**PICTURE**

- **Pump No.**
  - 111 UGY: 3 H.P. Briggs & Stratton No. 80232 - Type 0400-01, Aluminum
  - 111B UGY: 3 H.P. Briggs & Stratton No. 80232 - Type 0400-01, Bronze
  - 111: None (Pump Only), Aluminum
  - 111B: None (Pump Only), Bronze
PARTS LIST - GASOLINE ENGINE MOUNTING

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<th>2</th>
<th>3</th>
<th>4*</th>
<th>5*</th>
<th>6</th>
<th>7</th>
<th>10*</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16*</th>
<th>17*</th>
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<tbody>
<tr>
<td>Adapter Bracket</td>
<td>Body</td>
<td>Cover</td>
<td>Rotor</td>
<td>Stator</td>
<td>Drive Shaft</td>
<td>Universal Joint</td>
<td>Seal Assem.</td>
<td>Ball Bearing</td>
<td>Foot</td>
<td>Collar</td>
<td>Retaining Ring</td>
<td>Ret. Ring</td>
<td>Gasket</td>
<td>Pin</td>
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<td>5874</td>
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* Repair Kit No. 10737 include these parts and compression plate tool for seal removal

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<td>Screw</td>
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DIMENSIONS

Specifications are subject to change without notice.

www.oberdorfer-pumps.com PHONE 800-448-1668; (315) 437-0361 FAX (315) 463-9561

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