SETHCO® SEALLESS, SELF-PRIMING, MAGNETIC DRIVE CENTRIFUGAL PUMPS

For Corrosive Liquids and Chemical Transfer

PVDF Version

Polypropylene Version

MET-PRO Global Pump Solutions
A Met-Pro Fluid Handling Technologies Business
Combining the Resources of Dean Pump, Fybloc, & Sethco
**SETHCO® SEALLESS, SELF-PRIMING MAGNETIC DRIVE CENTRIFUGAL PUMPS**

**FOR CORROSIVE LIQUIDS AND CHEMICAL TRANSFER**
- Flows to 230 GPM (870 LPM)
- Heads to 93 feet (28 M)
- Powers to 10 HP (7.5 kW)
- Temperatures to 210°F (99°C)
- 24 models available
- Materials of construction: Polypropylene and Kynar (PVDF)

**DESIGN FEATURES**
- Self-priming magnetic drive, sealless design
- Close-coupled configuration
- Removable, integral suction basket strainer
- No metal contact with process fluids
- Two-piece impeller and inner magnet assembly
- Stationary, self-aligning, replaceable ceramic shaft
- Bearing materials include ceramic and silicon carbide options
- Zero emissions
- Simple operation and ease of maintenance
- Available with optional FRP baseplate assembly
- Mounts to standard NEMA or IEC frame motors

**APPLICATIONS**
- Acids
- Bleaches
- Caustics
- Chemical Transfer
- Cleaning/Mixing
- Filtration
- Ideal for OEMs
- Processing
- Recirculation
- Reverse Osmosis
- Scrubber
- Seawater
- Solvents
- Wastewater

**TYPICAL PMSP SERIES ASSEMBLY DRAWING**
500 SERIES
FOR FLOWS TO 27 GPM (102 LPM), HEADS TO 36 FT. (11 M)

Composite Curves

Dimensions

Pump Specifications: 6 Models Available

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Max Flow</th>
<th>Max Head</th>
<th>Max Operating Temperature</th>
<th>Motor Characteristics*</th>
<th>Weight (Lbs./Kg.)*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>Ft.</td>
<td>M</td>
<td>HP</td>
</tr>
<tr>
<td>PMSP.510</td>
<td>18</td>
<td>68</td>
<td>28</td>
<td>8.5</td>
<td>1/4</td>
</tr>
<tr>
<td>KMSP.510</td>
<td>20</td>
<td>102</td>
<td>36</td>
<td>11</td>
<td>1/3</td>
</tr>
<tr>
<td>PMSP.525</td>
<td>21</td>
<td>79</td>
<td>30</td>
<td>9</td>
<td>1/2</td>
</tr>
<tr>
<td>KMSP.525</td>
<td>22</td>
<td>110</td>
<td>34</td>
<td>11</td>
<td>1/2</td>
</tr>
<tr>
<td>PMSP.550</td>
<td>25</td>
<td>102</td>
<td>36</td>
<td>11</td>
<td>1/3</td>
</tr>
<tr>
<td>KMSP.550</td>
<td>26</td>
<td>102</td>
<td>36</td>
<td>11</td>
<td>1/3</td>
</tr>
</tbody>
</table>

* Customer supplied overload protection is required on 3 phase motors. Consult Factory for the following options: 50 Hz. motors, explosion proof motors, and alternate motor HPs.
† Add approximately 3 lbs./1.4 kg. for PVDF. † Add approximately 20% extra for shipping weight.

NOTES: Motor dimensions may vary by manufacturer. All dimensions in inches. Dimensions in [ ] are millimeters.
1000 SERIES
FOR FLOWS TO 76 GPM (288 LPM), HEADS TO 66 FT. (20 M)

Composite Curves

FOR MODELS
PMSP/KMSP-1035
PMSP/KMSP-1040N
PMSP/KMSP-1040W
PMSP/KMSP-1040HG
PMSP/KMSP-1500

Dimensions

Pump Specifications: 10 Models Available

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Max Flow</th>
<th>Max Head</th>
<th>Max Operating Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polypropylene</td>
<td>GPM</td>
<td>LPM</td>
<td>Fr.</td>
</tr>
<tr>
<td>PMSP-1035</td>
<td>59</td>
<td>151</td>
<td>31</td>
</tr>
<tr>
<td>PMSP-1040N</td>
<td>49</td>
<td>185</td>
<td>46</td>
</tr>
<tr>
<td>PMSP-1040W</td>
<td>59</td>
<td>223</td>
<td>53</td>
</tr>
<tr>
<td>PMSP-1040HG</td>
<td>60</td>
<td>227</td>
<td>53</td>
</tr>
<tr>
<td>PMSP-1500</td>
<td>76</td>
<td>288</td>
<td>66</td>
</tr>
<tr>
<td>PVDF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PMSP-1040W</td>
<td>115/230</td>
<td>60</td>
<td>1 &amp; 3 PH</td>
</tr>
<tr>
<td>PMSP-1040HG</td>
<td>2</td>
<td>3 PH</td>
<td>210°F / 99°C</td>
</tr>
</tbody>
</table>

Motor Characteristics:
- Polypropylene: 180°F / 82°C
- PVDF: 210°F / 99°C

Weight (Lbs./Kg.):
- Polypropylene: 39 / 17
- PVDF: 41 / 18

NOTES:
- Motor dimensions may vary by manufacturer. All dimensions in inches. Dimensions in [ ] are millimeters.
- Customer supplied overload protection is required on 3 phase motors. Consult Factory for the following options: 50 Hz. motors, explosion proof motors, and alternate motor HPs.
- Add approximately 3 lbs./1.4 kg. for PVDF. Add approximately 20% extra for shipping weight.
2500 SERIES

FOR FLOWS TO 230 GPM (870 LPM), HEADS TO 93 FT. (28 M)

Composite Curves

Dimensions

Pump Specifications: 8 Models Available

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Polypropylene: Polypropylene</th>
<th>Max Flow</th>
<th>Max Head</th>
<th>Max Operating Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMSP-2505</td>
<td>180°F / 82°C</td>
<td>130 GPM</td>
<td>490 LPM</td>
<td>53 ft. 17 m</td>
</tr>
<tr>
<td>PMSP-2510</td>
<td>210°F / 99°C</td>
<td>165 GPM</td>
<td>625 LPM</td>
<td>72 ft. 22 m</td>
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<tr>
<td>PMSP-2525</td>
<td>210°F / 99°C</td>
<td>190 GPM</td>
<td>719 LPM</td>
<td>80 ft. 24 m</td>
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<tr>
<td>PMSP-2550</td>
<td>250°F / 121°C</td>
<td>230 GPM</td>
<td>870 LPM</td>
<td>93 ft. 28 m</td>
</tr>
</tbody>
</table>

Motor Characteristics:
- Polypropylene: 180°F / 82°C
- PVDF: 210°F / 99°C

Weight (Lbs./Kg.):
- 3 HP: 91 lbs. 41.3 kg
- 5 HP: 133 lbs. 60.3 kg
- 7 1/2 HP: 199 lbs. 90.3 kg

* Customer supplied overload protection is required on 3 phase motors. Consult Factory for the following options: 50 Hz. motors, explosion proof motors, and alternate motor HPs.

† Add approximately 3 lbs./1.4 kg. for PVDF. ‡ Add approximately 20% extra for shipping weight.
PRIMING TIME – 500 SERIES SELF-PRIMING MAGNETIC DRIVE PUMPS

For Models
PMSP/KMSP-510
PMSP/KMSP-525
PMSP/KMSP-550

Note: The above priming times are based on water (SG = 1.0) using a 1” inlet hose connected to the pump suction. Consult Factory for priming times with other fluids or different suction tubing.

PRIMING TIME – 1000 SERIES SELF-PRIMING MAGNETIC DRIVE PUMPS

For Models
PMSP/KMSP-1035
PMSP/KMSP-1040N
PMSP/KMSP-1040W
PMSP/KMSP-1040HG
PMSP/KMSP-1500

Note: The above priming times are based on water (SG = 1.0) using a 1-1/4” inlet hose connected to the pump suction for all pumps except the PMSP-1500. The PMSP-1500 has a 1-1/2” inlet hose. Consult Factory for priming times with other fluids or different suction tubing.
PRIMING TIME – 2500 SERIES SELF-PRIMING MAGNETIC DRIVE PUMPS

FOR MODELS
PMSP/KMSP-2505
PMSP/KMSP-2510
PMSP/KMSP-2525
PMSP/KMSP-2550

METHOD OF PRIMING

Priming the pump is easy. Simply fill the priming chamber with liquid through the wide opening at the top. Secure the cover and turn on the pump. When the pump is started, the impeller discharges a mixture of liquid and air into the discharge chamber. The air is separated and vented through the discharge while the liquid is returned to the impeller. This priming liquid continues to draw in more air from the suction line. The cycle continues until all air is evacuated from the suction line and replaced by the liquid to be pumped, at which time the pump is "primed".

NOTE: The above priming times are based on water (SG = 1.0) using a 2" inlet hose connected to the pump suction. Consult Factory for priming times with other fluids or different suction tubing.
ABOUT MET-PRO GLOBAL PUMP SOLUTIONS

Met-Pro Global Pump Solutions, which combines the resources of the Company’s internationally recognized Dean®, Fybroc® and Sethco® brands, is a leading niche-oriented global provider of solutions and products for the pumping of corrosive, abrasive and high temperature liquids. Its broad range of high quality centrifugal pumps provide excellent performance for tough applications including pumping of acids, brines, caustics, bleaches, seawater, high temperature liquids and a wide variety of waste liquids for a broad range of applications including the chemical, petrochemical, metal finishing, wastewater treatment, desalination and aquarium/aquaculture markets.

ABOUT MET-PRO

Met-Pro Corporation is a global provider of solutions and products for product recovery, pollution control and fluid handling applications. The Company’s products include filtration and purification equipment for air, water and harsh, corrosive applications; fluid handling equipment for water, corrosive, abrasive, and high temperature liquids; and proprietary water treatment chemicals. For more information, visit www.met-pro.com.