Fast Flow Pumps

Submersible Pumps • Hydraulic Power Systems

4” TWIN MOTOR TWIN AGITATOR PUMP

Features

- Designed for Severe Service
- Pumps Heavy Solids
- Very High Flow Rates
- High Vertical Head Pressure
- Self Priming
- Indefinite Run Dry Technology
- Variable Speed & Flow
- Durable Steel Pump Parts
- Twin Agitators
- NO Internal Friction
- NO Mechanical Seals

Model FF-4D-TM-TA

The Fast Flow 4” Severe Service Pump is made to be a survivor. All the pump’s critical components are upgraded: including a heat-treated ductile iron impeller and volute, hardened 17-4 drive shaft, and stainless couplings. The two efficient hydraulic gear motors are self lubricated by the hydraulic fluid powering the pump. There are absolutely no wear plates, no pump bearings and no mechanical seals to replace in the pump.

Competitive Advantages

- Drill rig well cellar pumping
- Handles abrasive solids pumping applications
- Pump 20lb(9kg) per gallon(3L) oilfield slurries
- Anti-clog twin motor, double suction technology
- Lightweight dredge at 230lbs (104kg)
- Durable steel pump parts for long life
- Aluminum or stainless steel frame
- Cost effective compared to other pumps
- Field service in under an hour
- Features top lifting ring and debris cage
- Optional high strength twin agitators available
- Twin hydraulic motors self lubricate

Fast Facts

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>230lb (104kg)</td>
</tr>
<tr>
<td>Max Water Flow</td>
<td>1325 GPM (301m³/h)</td>
</tr>
<tr>
<td>Max Vertical Head</td>
<td>230 Feet (70m)</td>
</tr>
<tr>
<td>Operating PSI</td>
<td>2300-3500 PSI (158-241 Bar)</td>
</tr>
<tr>
<td>Hydraulic Flow</td>
<td>4-30 GPM (15-113lpm)</td>
</tr>
<tr>
<td>Power Source</td>
<td>Hydraulic Driven</td>
</tr>
<tr>
<td>Material</td>
<td>Hardened Ductile</td>
</tr>
<tr>
<td>Discharge</td>
<td>4” Male Cam Lock</td>
</tr>
<tr>
<td>Dimensions</td>
<td>36”x16”x22” (91cm x 40cm x 55cm)</td>
</tr>
<tr>
<td>Hydraulic Oil</td>
<td>AW-32 or AW-46</td>
</tr>
</tbody>
</table>

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### Fast Flow Applications

**4” Twin Motor Twin Agitator Pump Curve**

<table>
<thead>
<tr>
<th>Vertical Feet (Meters) of Head</th>
<th>GPM (m³/h) Pumping Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>(60m)</td>
<td>200</td>
</tr>
<tr>
<td>(54m)</td>
<td>180</td>
</tr>
<tr>
<td>(48m)</td>
<td>160</td>
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<tr>
<td>(42m)</td>
<td>144</td>
</tr>
<tr>
<td>(36m)</td>
<td>120</td>
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<tr>
<td>(30m)</td>
<td>100</td>
</tr>
<tr>
<td>(24m)</td>
<td>80</td>
</tr>
<tr>
<td>(18m)</td>
<td>60</td>
</tr>
<tr>
<td>(12m)</td>
<td>40</td>
</tr>
<tr>
<td>(6m)</td>
<td>20</td>
</tr>
</tbody>
</table>

- **3000 PSI**
- **206 Bar**

#### Applications

- Refinery coke pit pumping
- Light dredging
- Heavy solids pumping
- Industrial lagoon slurry
- Refinery tank clean out
- Petroleum tank cleaning
- Heavy solids pumping
- Oil spill response
- Barge cleaning operations
- Heavy crude pumping
- Paraffin crude pumping
- Frac tank cleaning
- Oil rig well cellar pumping
- Sewage solids pumping
- Disaster response
- Contaminated waste pumping
- Agriculture pond aeration
- Mud slurry pumping
- Reserve pit pumping
- Oil well blowout cleanup
- Drill mud preparation
- Water pit pumping
- Vacuum truck assist
- Fly ash pumping
- Pit dewatering
- Directional drilling
- Construction dewatering
- Floodwater abatement
- Utility break locations
- Vessel dewatering
- Industrial waste pumping
- Clarifier pumping
- Coal fines pit pumping

### The Light Dredging Alternative

No other pump has the features of a Fast Flow Severe Service pump. There are no pump mechanical seals or wear plates and no internal pump friction, keeping maintenance costs low. A single pump handles heavy solids and viscous fluids better than an arsenal of air diaphragm pumps and is a fraction of the price of other dredge pumps. The twin agitators can move a high concentration of heavy solids like silt, mud and industrial waste making this pump an ideal replacement for larger more costly models.