TF-450SB
Pressures to 10,000 PSI
Flows to 119 GPM ♦ Power to 330 HP

Fast & Affordable Convertibility

Features:
♦ Pressure/flow convertibility from well of pump. Does not require unbolting and retorquing.
♦ No valve change required.
♦ Sectionalized "L" fluid end design.
♦ Maximum pressure of 10,000 PSI.
♦ Flow rates from 10 GPM to 119 GPM.
♦ Maximum frame load of 20,750 Lbs. / 9420 Kg. for multi-speed, and 18,000 Lbs. / 8165 Kg for single speed.
♦ Field proven design.
♦ Easy field maintenance.
♦ Stainless steel fluid end construction.
♦ High volumetric efficiency for maximum horsepower utilization.
♦ Rigorously subjected to full load testing.
♦ Manufactured on state-of-the-art machinery.

Applications:
♦ Water Blasting
♦ Concrete Demolition
♦ Hydrostatic Testing
♦ Water Disposal
♦ Industrial Process

Performance Specifications:

<table>
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<tr>
<th>PLUNGER DIA.</th>
<th>PSI</th>
<th>Bar</th>
<th>GPM</th>
<th>LPM</th>
<th>GPM</th>
<th>LPM</th>
<th>GPM</th>
<th>LPM</th>
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<tbody>
<tr>
<td>1.4375&quot; - 33mm</td>
<td>10K</td>
<td>690</td>
<td>19.0</td>
<td>71.9</td>
<td>38.0</td>
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<td>20.6</td>
<td>77.9</td>
<td>41.2</td>
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<td>106.4</td>
<td>56.2</td>
<td>212.7</td>
<td>70.3</td>
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<td>32.3</td>
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<td>36.7</td>
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<td>73.4</td>
<td>277.8</td>
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<td>41.6</td>
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<td>83.2</td>
<td>314.9</td>
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<td>92.8</td>
<td>351.2</td>
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</table>

Note: All flows are based on 100% volumetric efficiency.

| Stroke: 4.5" / 114 mm ♦ Max. Speed: 515 RPM ♦ Weight: 2,600 lbs. / 1179 Kg

GARDNER DENVER WATER JETTING SYSTEMS, INC.
Partek ♦ Liqua-Blaster ♦ CRS Power Flow ♦ Jetting Systems ♦ American Water Blaster
1-800-231-3628 ♦ 281-448-5800 ♦ Fax: 281-448-7500
www.waterjetting.com ♦ E-mail: mktg.wjs@gardnerdenver.com
**Fluid End**

1. **Stuffing Boxes**: Three boxes machined from hardened stainless steel for extended life.
2. **Suction Manifold**: Hard, anodized aluminum. Also available in stainless for salt water applications.
3. **Valve Assembly**: Hardened stainless steel, autofrettaged for extended life. Valves are spring-loaded for positive closing with a common seat used for both suction and discharge valves.
4. **Discharge Manifold**: Manufactured from precipitation hardened stainless steel.
5. **Plungers**: Made of stainless steel with colmonoy coating.
6. **Plunger Packing**: Carbon filled Teflon™ and polyethylene base, spring-loaded, self-adjusting and easily replaceable from the rear of the stuffing box. Force-fed water provides lubrication and cooling.
7. **Fluid Cylinder Body**: Three cylinders machined from hardened stainless steel for extended life.
8. **Pressure Relief**: Pressure safety head assembly (two rupture discs), mounted to the discharge manifold.

**Power End**

9. **Power Frame**: Manufactured from a single piece casting of high strength gray cast iron.
10. **Crankshaft**: Single extended steel with tapered roller bearings to minimize side thrust load.
11. **Connecting Rods**: Ductile iron with automotive type split insert bearings.
12. **Crossheads**: Large, piston type constructed of gray iron.
13. **Diaphragm Seals**: Installed with o-rings or gaskets and neoprene oil seals.

**Dimensions:**

<table>
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<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
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GARDNER DENVER WATER JETTING SYSTEMS, INC.
12300 North Houston Rosslyn Road
Houston, TX 77086

Your local distributor/reprsentative is: