

TF-450SB



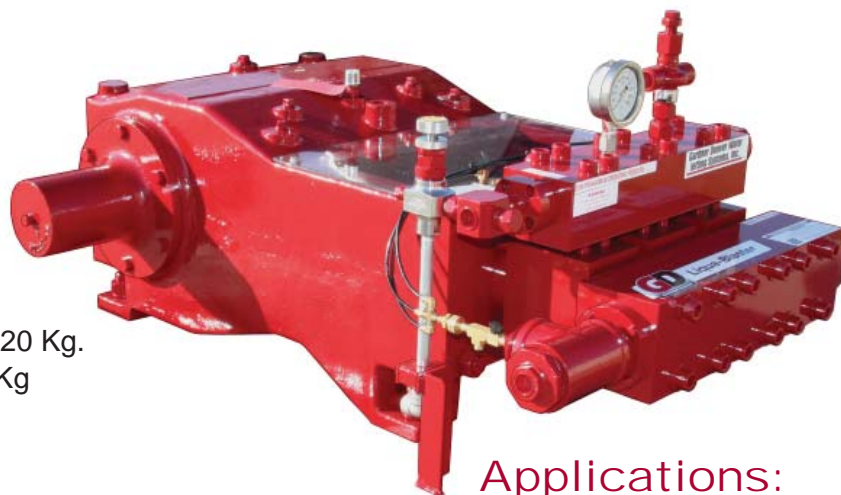
GARDNER DENVER
WATER JETTING
SYSTEMS, INC.

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:

| | PLUNGER DIA. | MAX. PRESSURE | | FLOW | | | | | |
|---|----------------|---------------|-----|---------|-------|---------|-------|---------|-------|
| | | PSI | Bar | 200 RPM | | 400 RPM | | 500 RPM | |
| | | | | GPM | LPM | GPM | LPM | GPM | LPM |
| TF-450SB Note: All flows are based on 100% volumetric efficiency. | 1.4375" - 33mm | 10K | 690 | 19.0 | 71.9 | 38.0 | 143.8 | 47.4 | 177.9 |
| | 1.500" - 38mm | 10K | 690 | 20.6 | 77.9 | 41.2 | 155.9 | 51.6 | 195.3 |
| | 1.625" - 41mm | 8.5K | 586 | 24.2 | 91.6 | 48.4 | 183.2 | 60.6 | 229.4 |
| | 1.750" - 44mm | 7.5K | 517 | 28.1 | 106.4 | 56.2 | 212.7 | 70.3 | 266.1 |
| | 1.875" - 48mm | 6.5K | 448 | 32.3 | 122.2 | 64.6 | 244.5 | 80.7 | 305.4 |
| | 2.000" - 51mm | 5.7K | 393 | 36.7 | 138.9 | 73.4 | 277.8 | 91.8 | 347.5 |
| | 2.125" - 54mm | 5.0K | 350 | 41.6 | 157.4 | 83.2 | 314.9 | 104.0 | 393.6 |
| | 2.250" - 57mm | 4.5K | 310 | 46.4 | 175.6 | 92.8 | 351.2 | 116.0 | 439.0 |

Note: Optional pump attached reduction gear. Plunger selection and performance will vary with transmission applications.

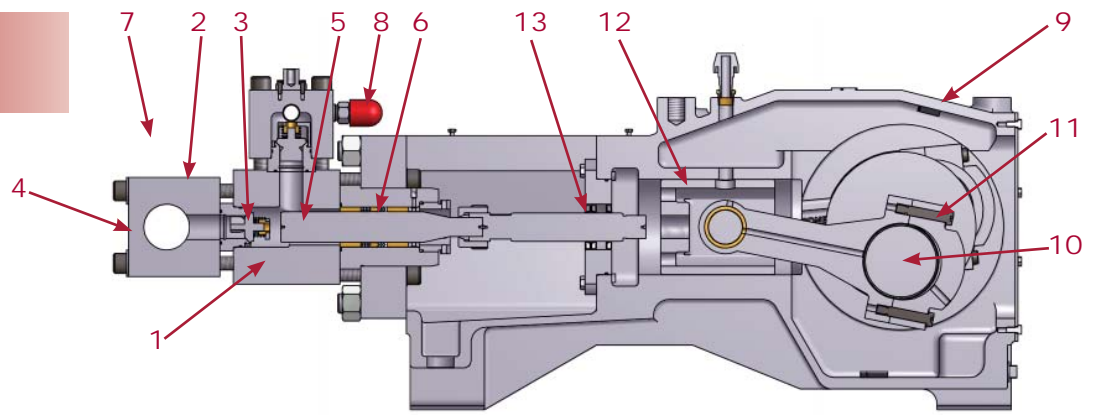
Stroke: 4.5" / 114 mm • Max. Speed: 515 RPM • Weight: 2,600 lbs. / 1179 Kg

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Partek • Liqua-Blaster • CRS Power Flow • Jetting Systems • American Water Blaster



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Fluid End

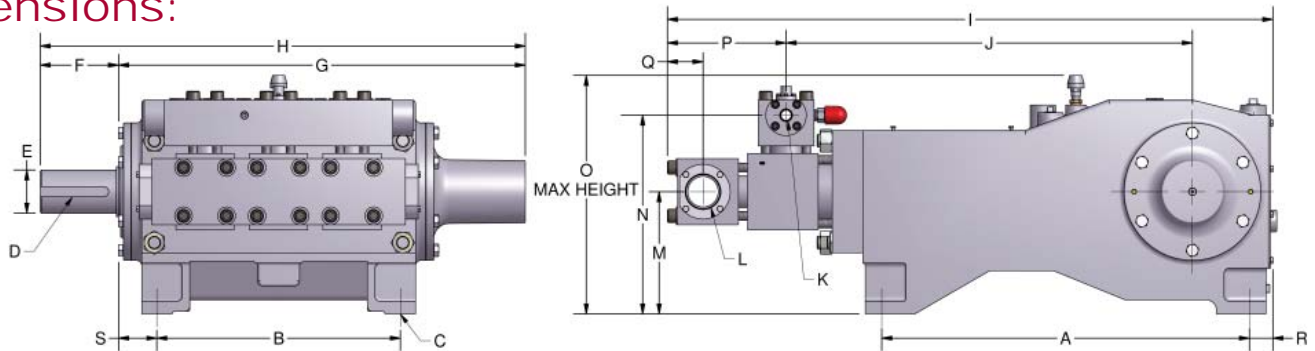
1. Stuffing Boxes: Three boxes machined from hardened stainless steel for extended life.
2. Suction Manifold: Hard, anodized aluminum. Also available in stainless for salt water applications.
3. Valve Assembly: Hardened stainless steel, autofrettaged for extended life. Valves are spring-loaded for positive 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:



| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S |
|-----|--------------------------------|-----|--------------------------------|----|-------------------------------|-------------------------------|--------------------------------|----------------------------------|----------------------------------|---------------------------------|--------|--------|-----|--------------------------------|---------------------------------|----------------------------------|-------------------------------|-------------------------------|---------------------------------|
| In. | 36 ¹ / ₄ | 24 | 1 ⁵ / ₁₆ | 1 | 4 ¹ / ₄ | 7 ³ / ₄ | 40 ¹ / ₈ | 47 ¹³ / ₁₆ | 59 ¹¹ / ₁₆ | 40 ¹ / ₁₆ | 1" NPT | 3" NPT | 12 | 19 ¹ / ₂ | 23 ⁷ / ₁₆ | 11 ¹¹ / ₁₆ | 3 ¹ / ₂ | 2 ¹ / ₄ | 3 ¹³ / ₁₆ |
| mm | 921 | 610 | 33 | 25 | 108 | 197 | 1019 | 1215 | 1516 | 1018 | | | 305 | 495 | 596 | 297 | 89 | 57 | 97 |

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