

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

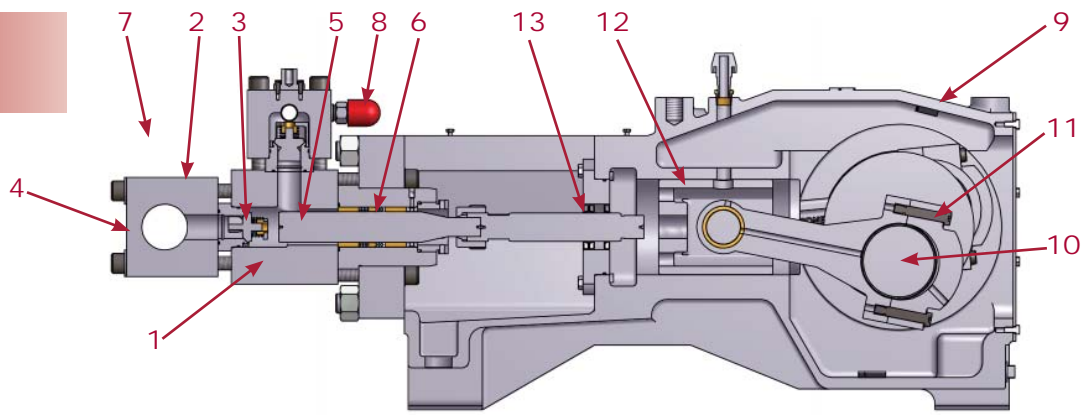
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Fluid End

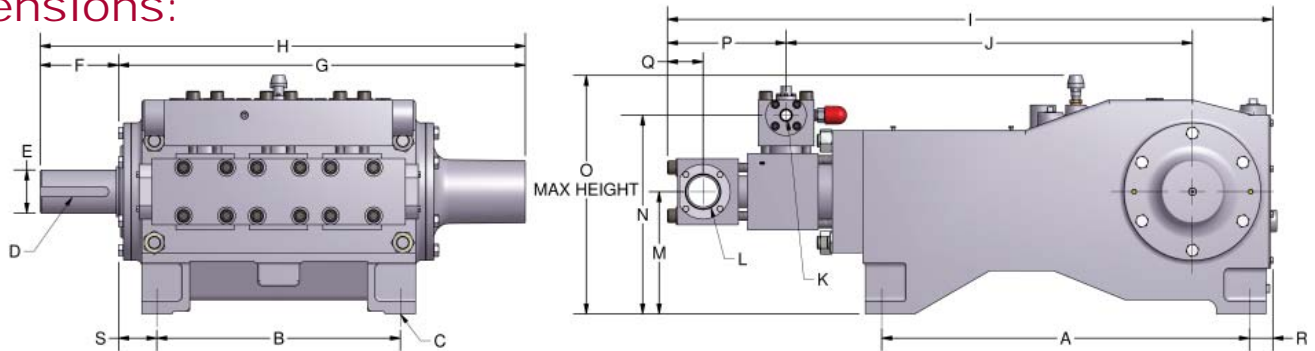
1. Stuffing Boxes: Three boxes machined from hardened stainless steel for extended life.
2. Suction Manifold: Hard, anodized aluminum. Also available in stainless for salt water applications.
3. Valve Assembly: Hardened stainless steel, autofrettaged for extended life. Valves are spring-loaded for positive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

GARDNER DENVER WATER
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