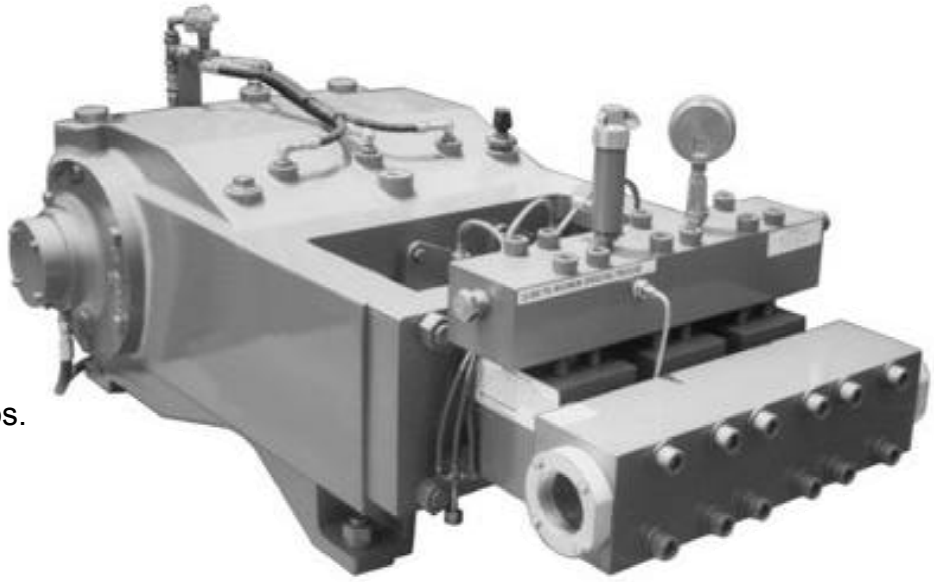
TF-450S

Pressures to 10,000 PSI
Flows to 91.8 GPM • Power to 300 HP

Features

- Sectionalized “L” fluid end design.
- Maximum pressure of 12,000 PSI.
- Maximum flow of 91.8 GPM.
- Maximum frame load of 20,750 Lbs. / 9412 Kg for multi-speed, and 18,000 Lbs. / 7371 Kg for single speed.
- Field proven design.
- Extremely reliable.
- Easy field maintenance.
- Stainless steel fluid end construction.
- High volumetric efficiency for maximum horsepower utilization.
- Manufactured on state-of-the-art machinery.
- Rigorously subjected to full load testing.



Applications

- Water Blasting
- Concrete Demolition
- Chemical Injection
- Hydrostatic Testing
- Process Water Disposal

Performance Specifications

		MAX. PRESSURE		FLOW 500 RPM	
	PLUNGER DIA.	PSI	BAR	GPM	LPM
TF-450S Note: All flows are based on 100% volumetric efficiency.	1.4375” - 33mm	10K	690	47.4	177.9
	1.500” - 38mm	9K	621	51.6	195.3
	1.625” - 41mm	8K	552	60.6	229.4
	1.750” - 44mm	7K	483	70.3	266.1
	1.875” - 48mm	6K	414	80.7	305.4
	2.000” - 51mm	5.1K	359	91.8	347.5

Note: Optional pump attached reduction gear.

Stroke: 4.5” / 114 mm • **Max. Speed:** 520 RPM • **Weight:** 2,600 Lbs. / 1179 Kg

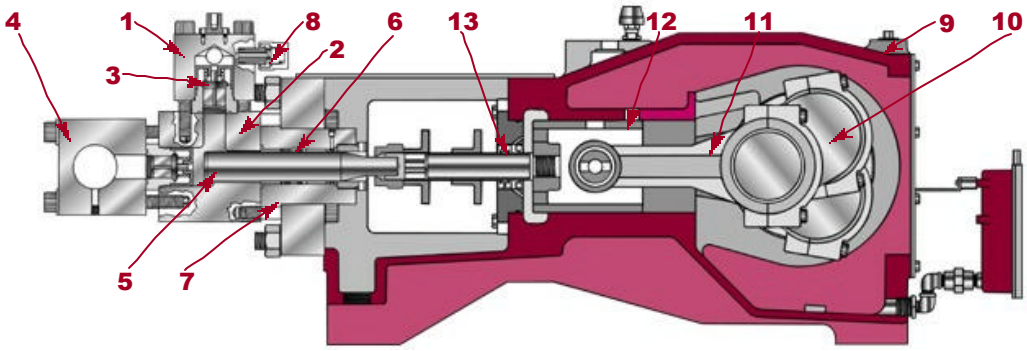
GARDNER DENVER WATER JETTING SYSTEMS, INC.

Partek • Liqua-Blaster • Geoquip • CRS Power Flow • Jetting Systems • American Waterblaster

800-231-3628 • 281-448-5800 • Fax 281-448-7500

www.waterjetting.com • mktg.wjs@gardnerdenver.com

TF-450S PUMP



Fluid End

1. **Discharge Manifold:** Manufactured from precipitation hardened stainless steel.
2. **Fluid Cylinder Body:** Three cylinders machined from hardened stainless steel for extended life.
3. **Valve Assembly:** Hardened stainless steel, for extended life. Valves are spring-loaded for positive closing with a common seat used for both suction and discharge valves.
4. **Suction Manifold:** Hard, anodized aluminum. Also available in stainless for salt water applications.
5. **Plungers:** Collet style, made of stainless steel, with hardened 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. **Stuffing Boxes:** Machined from heat treated stainless steel.
8. **Pressure Relief:** Pressure safety head assembly (one rupture disc and one over-pressure relief valve), mounted to the discharge manifold.

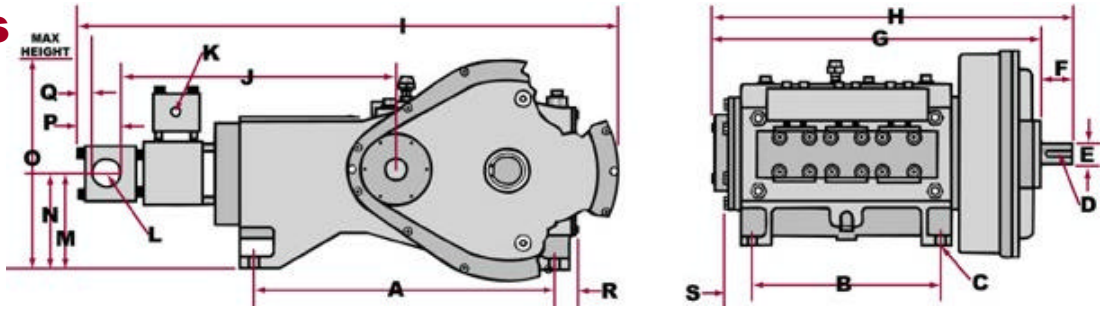
Power End

9. **Power Frame:** Manufactured from a single piece casting of high strength gray cast iron.
10. **Crankshaft:** Double 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.

Reduction Gear: *Constructed of top quality AGMA class 12 steel. Hardened and ground bull and pinion gears for strength and durability. Ratios available - 3.542:1, 4.143:1, 4.737:1.*

Forced Oil Lubrication System: *Unique pump feature that allows oil to be forced through a rifle-drilled crankshaft lubricating each journal, connecting rod bearings and wrist pin bearings.*

Dimensions TF-450S



	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 3/16	3/4	2 7/8	4	44 5/8	52 1/8	63 3/8	36 1/2	1MP	3NPT	12 3/4	12 3/4	31 1/8	6 1/4	2 3/4	2 3/8	3 1/4
mm	921	610	33	19	73	102	1133	1324	1610	927			324	324	791	159	70	86	57

Gardner Denver Water Jetting Systems reserves the right to change specifications without notice.

GARDNER DENVER WATER JETTING SYSTEMS, INC.
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Houston, TX 77086 USA

Your local distributor/representative is: