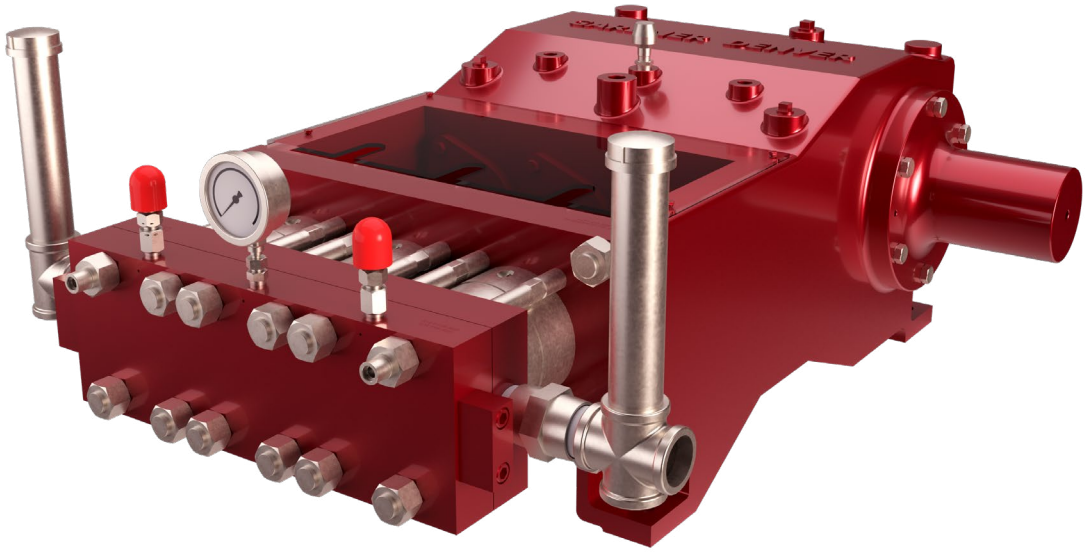
PUMPS

TF-450HC
WATERJETTING PUMP

STANDARD FEATURES

- Pressure/flow convertibility from well of pump. Does not require unbolting and retorquing
- No valve change required
- Inline fluid end design
- Pressure range from 10,000 PSI to 20,000 PSI
- Flow rates from 10 GPM to 54 GPM
- Maximum frame load of 20,750 Lb. / 9,420 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



SPECIFICATIONS

Weight	2,600 lbs. / 1179 Kg
Maximum RPM	515 RPM
Stroke Length	4.5 in / 114 mm

APPLICATIONS

- Water Blasting
- Concrete Demolition
- Hydrostatic Testing
- Surface Preparation
- Water Disposal

PLUNGER DIAMATER		MAX PRESSURE		FLOW					
				200 RPM		400 RPM		500 RPM	
in.	mm.	PSI	bar	GPM	LPM	GPM	LPM	GPM	LPM
1.062	26	20000	1379	10	37.9	21	79.5	26	98.4
1.250	32	15000	1034	14	53.0	29	109.8	36	136.2
1.375	35	12000	827	17	64.3	34	128.7	43	162.8
1.500	38	10000	689	21	79.5	42	159.0	52	196.8

Note: All flows are based on 100% volumetric efficiency. All flows realized will vary dependent upon several factors, such as but not limited to: pump speed, pump pressure, plunger size and pumped fluid. “Typical” actual flow rates will be approximately 95% of values shown above.

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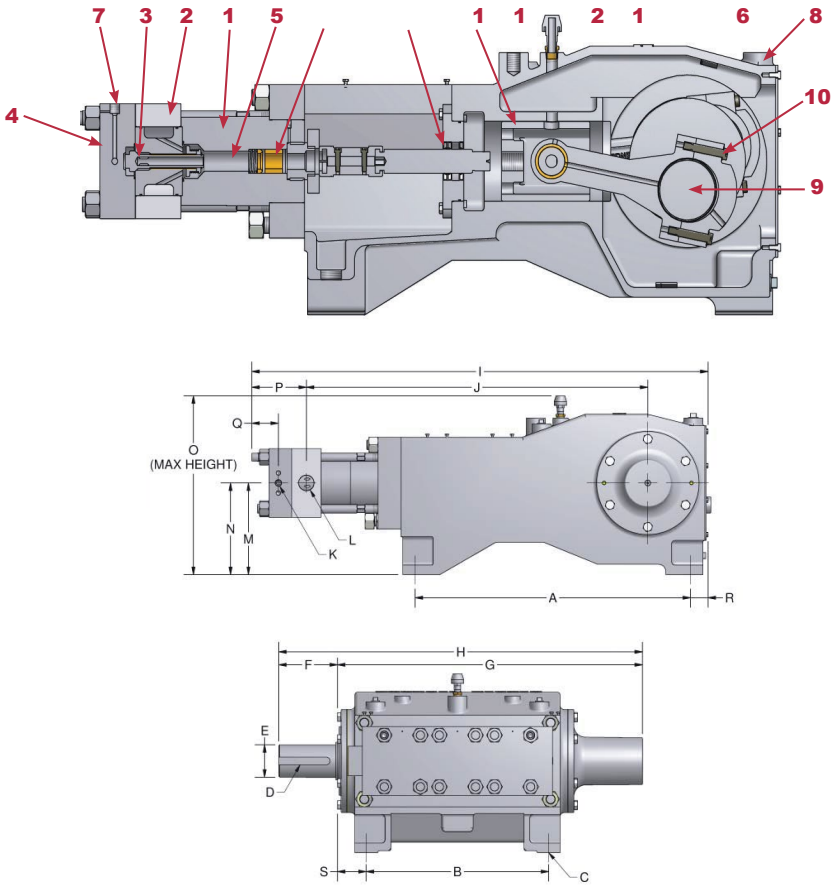

FLUID END

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 solid tungsten carbide or 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. **Pressure Relief:** Pressure safety head assembly (two rupture discs), mounted to the discharge manifold.

POWER END

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

Bearings and crossheads are oil lubricated with a combined splash gravity system that insures adequate circulation at speeds as low as 200 RPM.

Utilizes a belt or poly-chain drive system.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
in.	36 1/4	24	1 5/16	1	4 1/4	7 3/4	40 1/8	47 7/8	60	45	1" MP	2" NPT	12	12	23 3/8	7 1/4	3 1/2	2 1/4
mm.	921	610	33	25	108	197	1019	1216	1524	1143			305	305	594	184	89	57