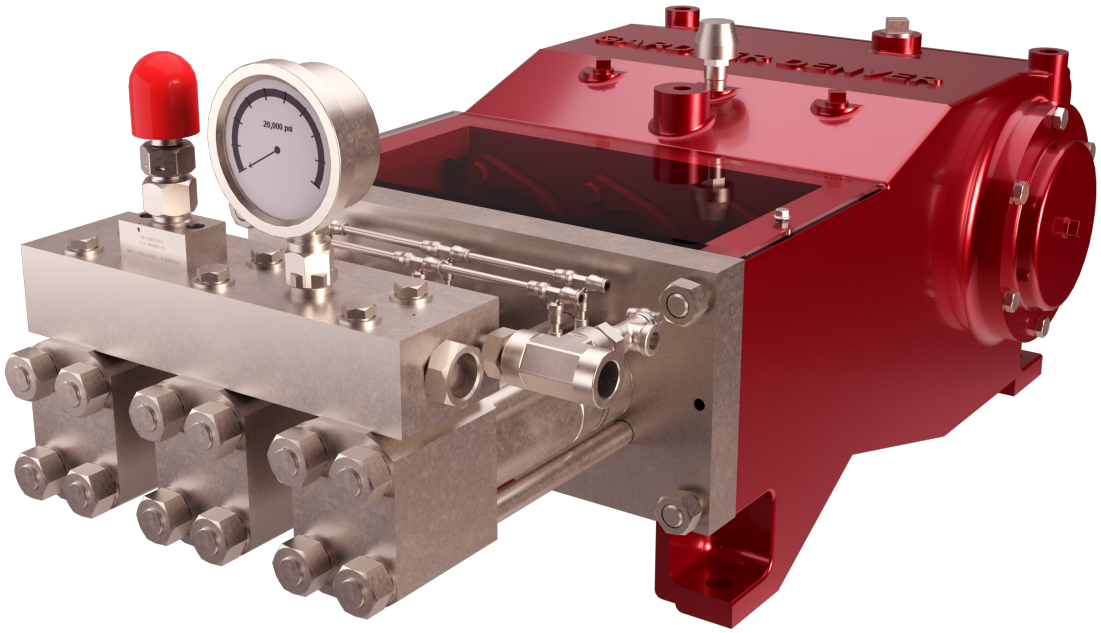
PUMPS

TY-300UH
WATERJETTING PUMP

Pressures to 40,000 PSI
Flows to 4.0 GPM • Power to 100 HP

STANDARD FEATURES

- Inline fluid end design
- Pressure range to 40,000 PSI
- Flow rates from 1.3 GPM to 4.0 GPM
- Maximum frame load of 7,000 Lbs / 3178 Kg
- Field proven design
- Easy field maintenance
- Stainless steel fluid end construction
- High volumetric efficiency formaximum horsepower utilization
- Autofrettaged fluid cylindersand valve assemblies
- Rigorously subjected to full loadtesting
- Manufactured onstate-of-the-art machinery



SPECIFICATIONS

Weight	810 lbs. / 368 Kg
Maximum RPM	600 RPM
Stroke Length	3 in / 76 mm

APPLICATIONS

- Water Blasting
- Hydrostatic Testing
- Surface Preparation

PLUNGER DIAMETER		MAX PRESSURE		FLOW					
				200 RPM		400 RPM		600 RPM	
in.	mm.	PSI	BAR	GPM	LPM	GPM	LPM	GPM	LPM
0.472	12	40000	2758	1.3	4.92	2.7	10.2	4.0	15.1

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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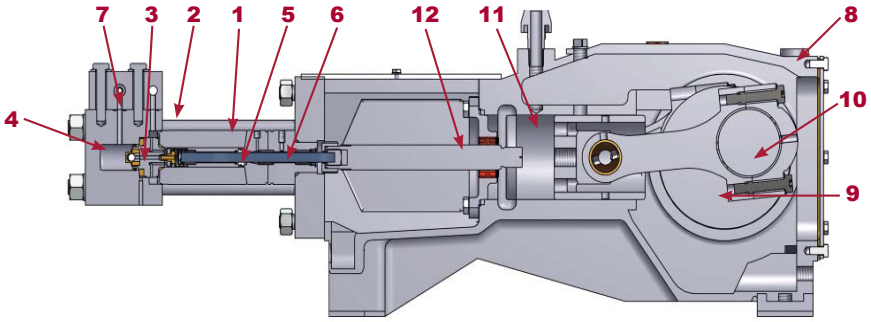

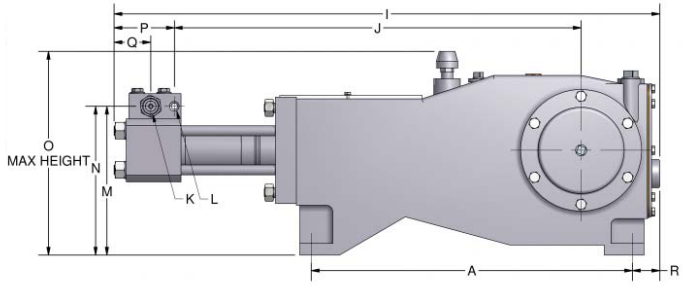

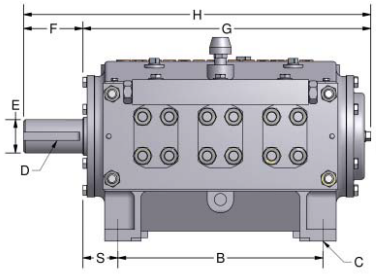

FLUID END

1. **Fluid Cylinder Body:** Three cylinders machined from hardened stainless steel and autofrettaged for extended life.
2. **Suction and Discharge Manifold:** Manufactured from precipitation hardened stainless steel.
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. **End Cap:** Manufactured from precipitation hardened stainless steel.
5. **Plungers:** Collet style and made of tungsten carbide.
6. **Plunger Packing:** UHMWPE with o-ring, self adjusting and easily replaceable from the rear of the stuffing box. Force-fed water provides lubrication and cooling.
7. **Seal Kit:** UHPE and o-ring, contact between the manifold and end cap.

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. **Pony Rod:** Manufactured from precipitation hardened stainless steel.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
IN	24 1/4	15 1/2	13/16	5/8	2 1/2	4 1/2	21 3/4	26 1/4	41 3/16	31 11/16	1" MP	1/2" NPT	11 3/16	11 3/16	15 5/16	4 9/16	2 3/4	2 1/16	2 5/8
MM	616	394	21	16	64	114	553	667	1046	780			284	284	389	116	70	52	67

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

NOTE: Line drawings are available from engineering per application.