

PUMPS



QF-450HC WATERJETTING PUMP

STANDARD FEATURES

- Quintuplex (five plungers)
- Inline fluid end design
- Pressure range to 20,000 PSI
- Flow rates to 88 GPM
- Maximum frame load of 25,000 Lbs / 11340 Kg. for multi-speed and 20,750 Lbs / 9412 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

SPECIFICATIONS

Weight	5600 lbs / 2530 Kg
Maximum RPM	515 RPM
Stroke Length	4.5 in / 114 mm

APPLICATIONS

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



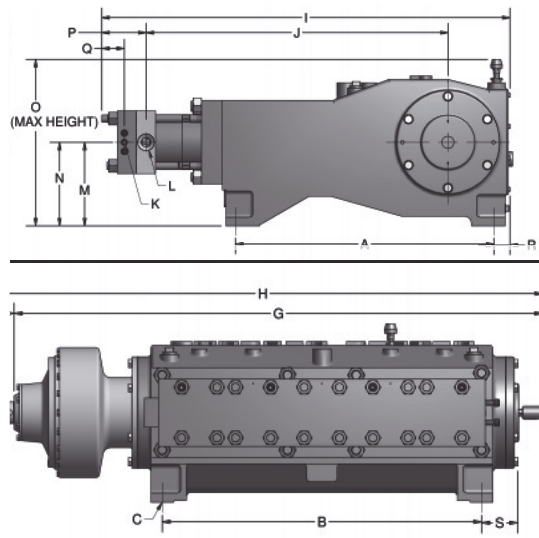
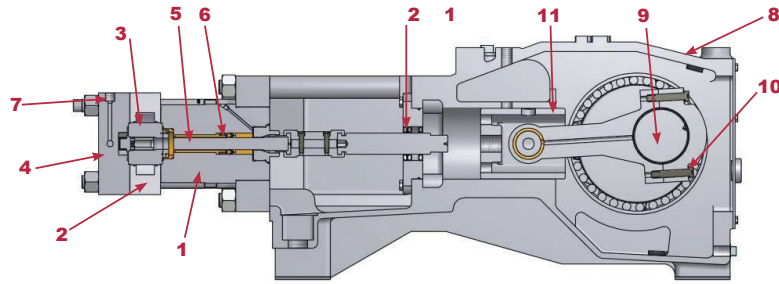
PLUNGER DIAMETER		MAX PRESSURE		FLOW					
				200 RPM		400 RPM		500 RPM	
in.	mm.	PSI	bar	GPM	LPM	GPM	LPM	GPM	LPM
1.0625	27	20000	1379	17	64.3	34	128.7	43	162.8
1.250	32	15500	1069	24	90.8	48	181.7	60	227.1
1.375	35	13000	896	29	109.8	57	215.7	72	272.0
1.500	38	11000	758	35	132.5	69	261.1	86	325.5

Note: Pump is available with reduction gear upon request. All flows are based on 100% volumetric efficiency. Pressures shown are based on single-speed performance. See unit specification sheets for pressure ratings on multi-speed units.

QF-450HC

WATERJETTING PUMP

SPECIFICATIONS



FLUID END

- 1. Stuffing Boxes:** Five boxes machined from hardened stainless steel, autofrettagged for extended life.
- 2. Suction Manifold:** Hard, anodized aluminum. Also available in stainless for salt water applications.
- 3. Valve Assembly:** Hardened stainless steel, autofrettagged 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 alloy steel four sets of main roller bearings. Crankshaft is drilled for forced oil lubrication. Bearings and crossheads are oil lubricated via a forced-oil lubrication system with filter.
 - 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.
 - 13. Pressurized Oil Lubrication System.**
- Reduction Gear:** Constructed of top quality AGMA class 12 steel. Hardened and ground bull and pinion gears for strength and durability. Ratio available - 4.200:1

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
in.	37 1/4	43	15/16	3/4	2 7/8	4 1/4	71 1/8	75 13/16	58 13/16	43 1/2	1" MP	2" NPT	12	12	23 7/8	63/8	3 1/4	2 5/16	4 7/8
mm.	947	1093	34	19	72	108	1807	1915	1494	1105			305	305	607	162	83	59	124