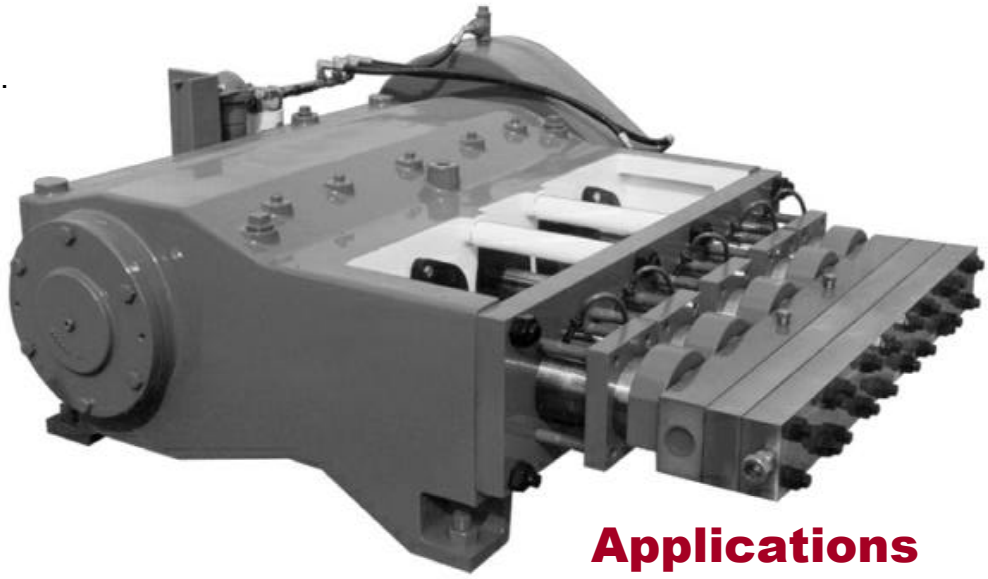
Partek QF-450HB

Pressures to 20,000 PSI
Flows to 72.3 GPM • Power to 500 HP

Features

- Quintuplex (five plungers).
- Inline fluid end design.
- Pressure range to 20,000 PSI.
- Flow rates to 72.3 GPM.
- Maximum frame load of 25,000 Lbs. / 11340 Kg for multi-speed, and 18,000 Lbs. / 8165 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
- Surface Preparation
- Process Water Disposal

Performance Specifications

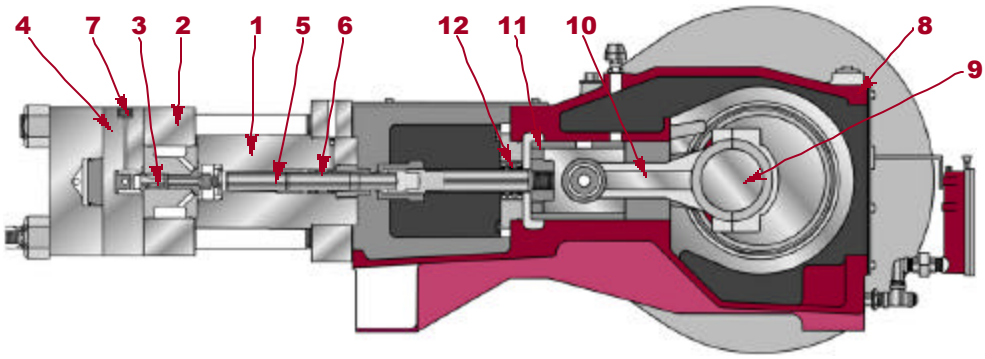
		MAX. PRESSURE		FLOW					
				200 RPM		300 RPM		500 RPM	
	PLUNGER DIA.	PSI	BAR	GPM	LPM	GPM	LPM	GPM	LPM
QF-450HB	1.062” - 27mm	20K	1379	17.3	65.4	34.6	130.8	43.2	163.5
	1.187” - 30mm	15K	1034	21.6	81.7	43.1	163.4	53.9	204.2
	1.250” - 32mm	13K	890	23.9	90.5	47.9	181.0	59.8	226.2
	1.375” - 35mm	10K	735	28.9	109.5	57.8	219.0	72.3	273.7

Note: Pump is available with reduction gear upon request.
Note: 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.

Stroke: 4.5” / 114 mm • **Max. Speed:** 510 RPM • **Weight*:** 5,600 Lbs. / 2540 Kg (*with gear box)

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

QF-450HB PUMP



Fluid End

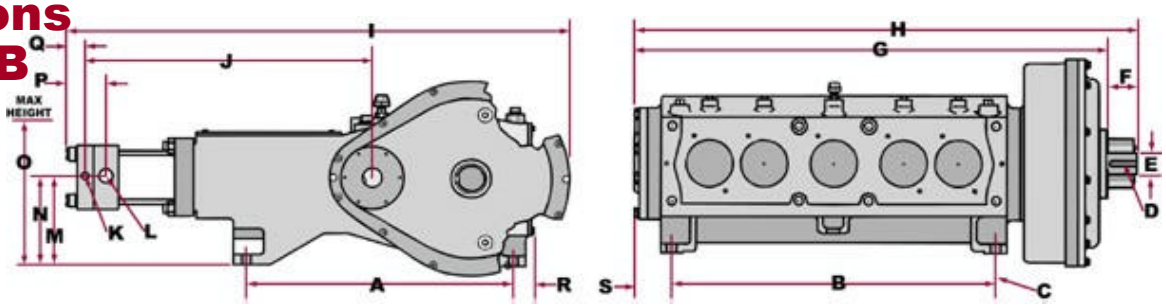
1. **Stuffing Box:** Five cylinders machined from hardened stainless steel, autofrettaged for extended life.
2. **Suction Manifold:** Hard, anodized aluminum. Also available in stainless for salt water applications.
3. **Valve Assembly:** Hardened stainless steel, autofrettaged for extended life. Valves 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:** Collet style, made of solid tungsten carbide.
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 with 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.

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.*

Dimensions QF-450HB



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
in.	37 1/4	43	1 3/16	3/4	2 7/8	4	63 3/4	66 7/8	59 5/8	32	1MP	1.5NPT	12	12	29 3/8	5 3/8	2 3/8	2 3/8	4 7/8
mm	946	1092	33	19	73	102	1619	1699	1514	813			305	305	746	137	60	60	124

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

GARDNER DENVER WATER JETTING SYSTEMS, INC.
12300 North Houston-Rosslyn Road
Houston, TX 77086 USA

Your local distributor/representative is: