

# QF-450SB



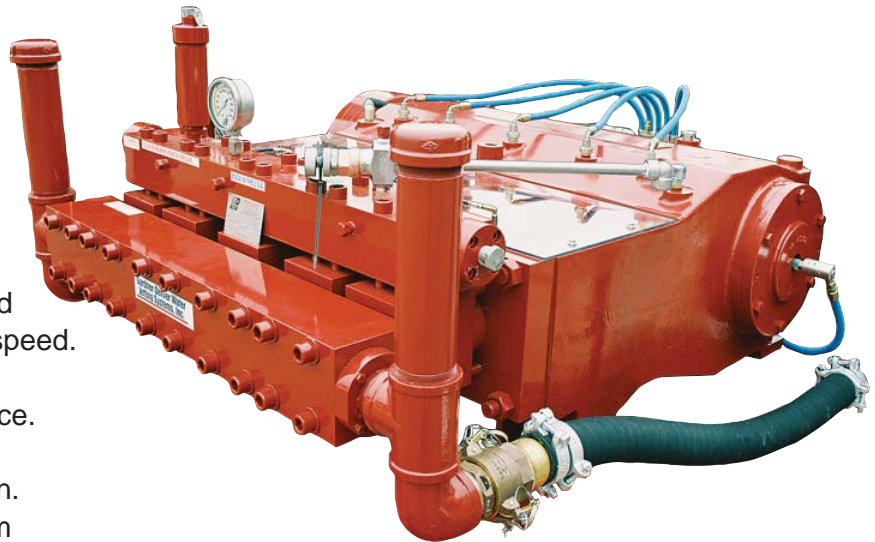
**GARDNER DENVER**  
WATER JETTING  
SYSTEMS, INC.

Pressures to 10,000 PSI  
Flows to 200 GPM ♦ Power to 600 HP

## Affordable Convertibility

### Features:

- ♦ Quintuplex (five plungers).
- ♦ Sectionalized "L" fluid end design.
- ♦ Pressure range from 5,000 PSI to 10,000 PSI.
- ♦ Flow rates to 200 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 - thousands in service.
- ♦ Easy field maintenance.
- ♦ All 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
- ♦ Hydrostatic Testing
- ♦ Water Disposal
- ♦ Concrete Demolition
- ♦ Surface Preparation

Note: Pump is available with reduction gear.

### Performance Specifications:

	PLUNGER DIA.	MAX. PRESSURE		FLOW					
		PSI	Bar	200 RPM		400 RPM		500 RPM	
				GPM	LPM	GPM	LPM	GPM	LPM
QF-450SB  Note: All flows are based on 100% volumetric efficiency.	1.563" - 40mm	10K	690	37.4	141.6	74.7	282.7	93.4	353.5
	1.625" - 41mm	9K	621	40.4	152.9	80.8	305.8	101.0	382.3
	1.750" - 44mm	8K	552	46.8	177.1	93.6	354.3	117.1	443.2
	1.875" - 48mm	7K	483	53.8	203.6	107.6	407.3	134.5	509.0
	2.000" - 51mm	6K	414	61.2	231.6	122.4	463.3	153.0	579.1
	2.125" - 54mm	5K	345	69.0	261.1	138.1	522.7	172.7	653.7
	2.250" - 57mm	4.5K	310	77.4	292.9	154.8	585.9	193.6	732.8

Stroke: 4.5" / 114 mm • Max. Speed: 515 RPM • Weight: 5,600 lbs. / 2540 Kg

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Partek • Liqua-Blaster • CRS Power Flow • Jetting Systems • American Water Blaster

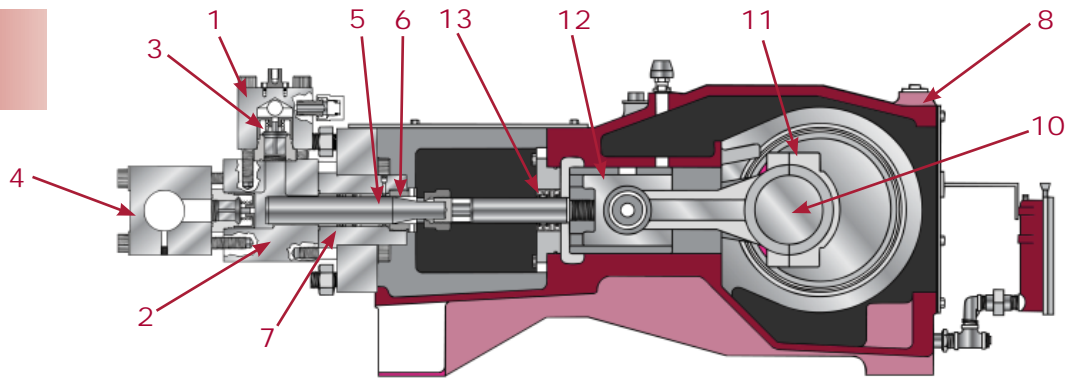
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**GARDNER DENVER**

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## Fluid End

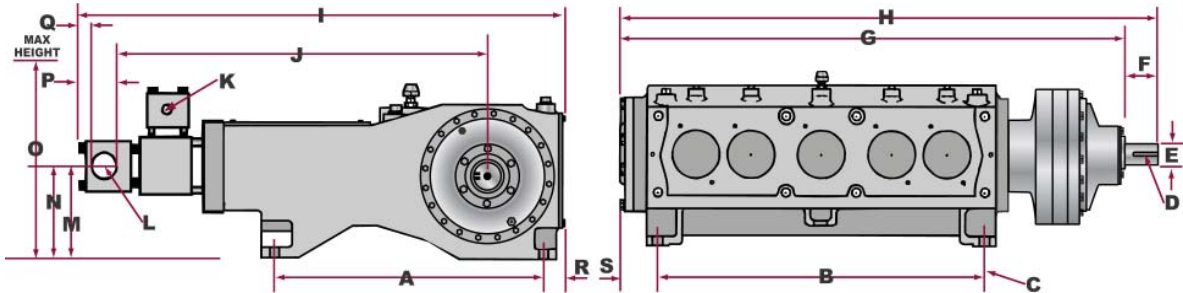
1. Discharge Manifold: Manufactured from precipitation hardened stainless steel.
2. Fluid Cylinder Body: Five cylinders machined from hardened stainless steel and autofrettaged for extended life.
3. Valves: Hardened stainless steel, autofrettaged for extended life. Valves are spring-loaded for positive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

## Power End

9. Power Frame: Manufactured from a single piece casting of high strength gray cast iron.
10. Crankshaft: Single extended forged alloy steel with two centered support roller bearings in addition to the 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.
14. Pressurized Oil Lubrication System.

Reduction Gear: Constructed of top quality AGMA Class 12 steel. Hardened and ground gears for strength and durability. Ratios available - 3.350:1, 4.200:1, 4.636:1, 5.210:1.

## Dimensions:



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
In.	36	43	1 <sup>5</sup> / <sub>16</sub>	<sup>3</sup> / <sub>4</sub>	2 <sup>7</sup> / <sub>8</sub>	4	63	75	60	46 <sup>7</sup> / <sub>16</sub>	1.5"	3	11 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>4</sub>	21	5 <sup>3</sup> / <sub>8</sub>	2	2 <sup>1</sup> / <sub>2</sub>	5
mm	914	1092	33	19	73	102	1600	1905	1524	1179		76	286	286	533	137	51	64	127

GARDNER DENVER WATER  
JETTING SYSTEMS, INC.  
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Your local distributor/representative is:



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