

# QF-450HC



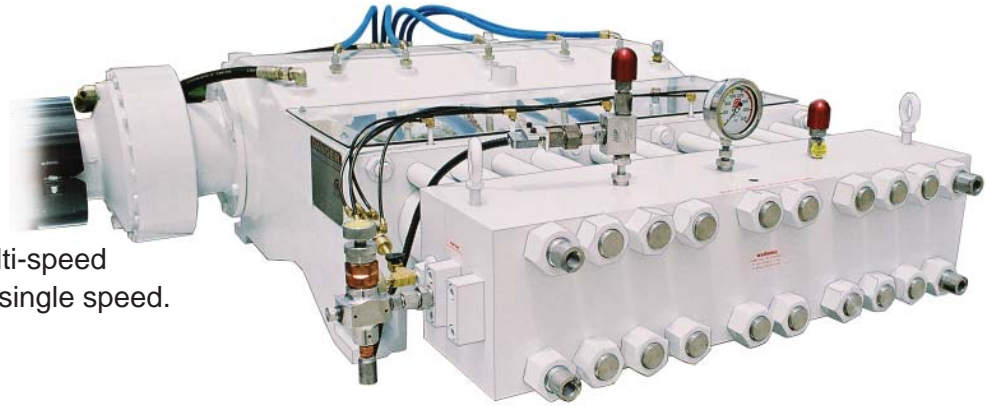
**GARDNER DENVER**  
WATER JETTING  
SYSTEMS, INC.

Pressures to 20,000 PSI  
Flows to 88 GPM ♦ Power to 600 HP

## Affordable Convertibility

### 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.



### Applications:

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

### Performance Specifications:

	PLUNGER DIA.	MAX. PRESSURE		FLOW					
		PSI	Bar	200 RPM		400 RPM		500 RPM	
				GPM	LPM	GPM	LPM	GPM	LPM
QF-450HC	1.0625" - 27mm	20K	1379	17	64.3	34	128.7	43	162.8
	1.250" - 32mm	15.5K	1069	24	90.8	48	181.7	60	227.1
	1.375" - 35mm	13K	896	29	109.8	57	215.7	72	272.0
	1.500" - 38mm	11K	758	35	132.5	69	261.1	86	325.5

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: 515 RPM • Weight: 5,600 lbs. / 2530 Kg**

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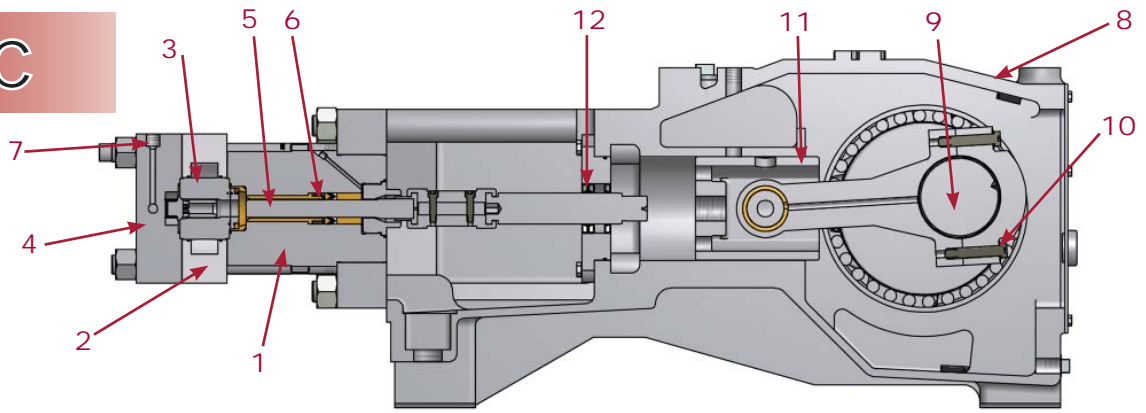
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## Fluid End

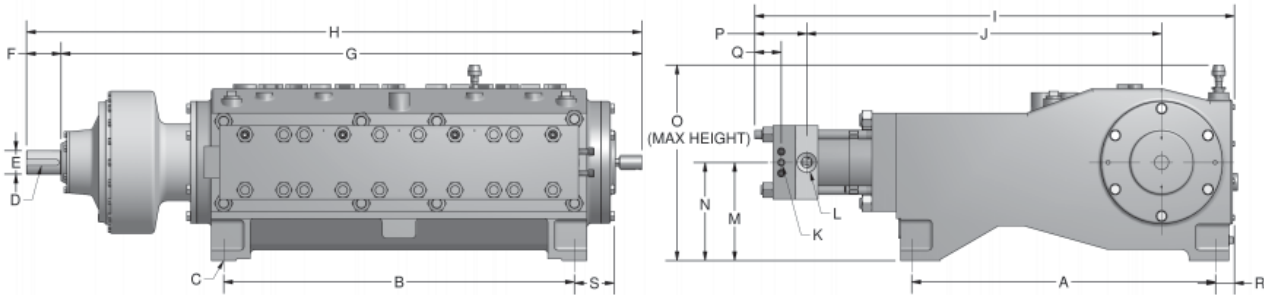
1. Stuffing Boxes: Five boxes machined from hardened stainless steel, autofrettaged for extended life.
2. Suction Manifold: Hard, anodized aluminum. Also available in stainless for salt water applications.
3. Valve Assembly: Hardened stainless steel, autofrettaged for extended life. Valves are spring-loaded 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: 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. Ratios available - 3.50:1, 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.	37 <sup>1</sup> / <sub>4</sub>	43	1 <sup>5</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>4</sub>	2 <sup>7</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>4</sub>	71 <sup>1</sup> / <sub>8</sub>	75 <sup>13</sup> / <sub>16</sub>	58 <sup>13</sup> / <sub>16</sub>	43 <sup>1</sup> / <sub>2</sub>	1" MP	2" NPT	12	12	23 <sup>7</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>4</sub>	2 <sup>5</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>8</sub>
mm	947	1093	34	19	73	108	1807	1915	1494	1105			305	305	607	162	83	59	124

GARDNER DENVER WATER  
JETTING SYSTEMS, INC.  
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