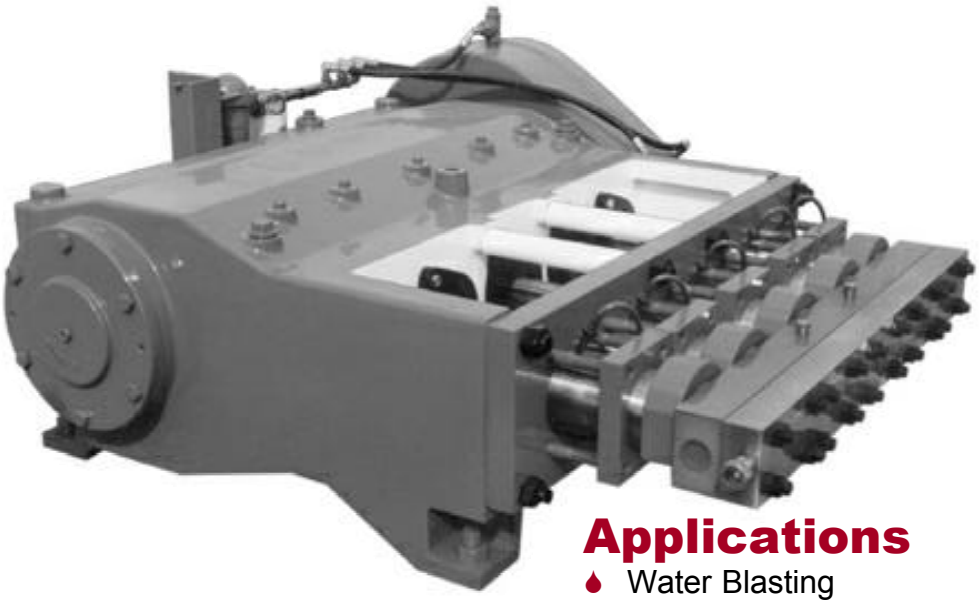
# QF-450H

## Pressures to 20,000 PSI
## Flows to 43.2 GPM • Power to 500 HP

## Features

- Quintuplex (five plungers).
- Inline fluid end design.
- Pressure range to 20,000 PSI.
- Flow rates to 43.2 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

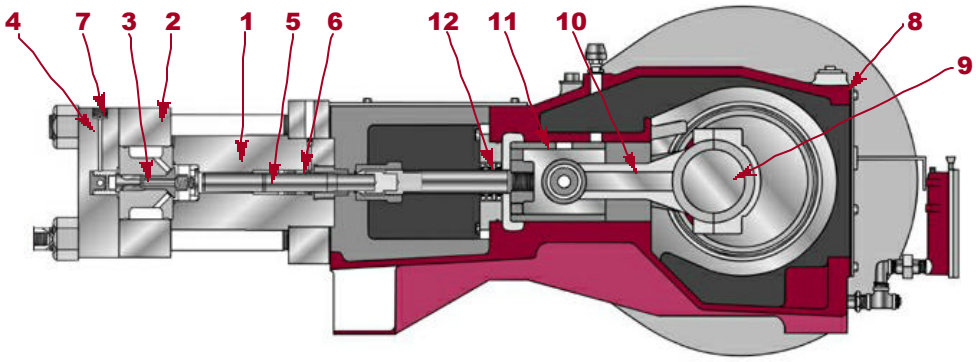
| | | MAX. PRESSURE | | FLOW | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 200 RPM | | 300 RPM | | 500 RPM | |
| | PLUNGER DIA. | PSI | BAR | GPM | LPM | GPM | LPM | GPM | LPM |
| QF-450H | 0.945” - 24mm | 20K | 1379 | 13.9 | 52.6 | 20.9 | 79.1 | 34.8 | 131.7 |
| | 1.062” - 27mm | 20K | 1379 | 17.3 | 65.4 | 34.6 | 130.8 | 43.2 | 163.5 |

**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:** 510 RPM • **Weight*:** 5,600 Lbs. / 2540 Kg (*with gear box)


**GARDNER DENVER WATER JETTING SYSTEMS, INC.**
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# QF-450H PUMP




## Fluid End

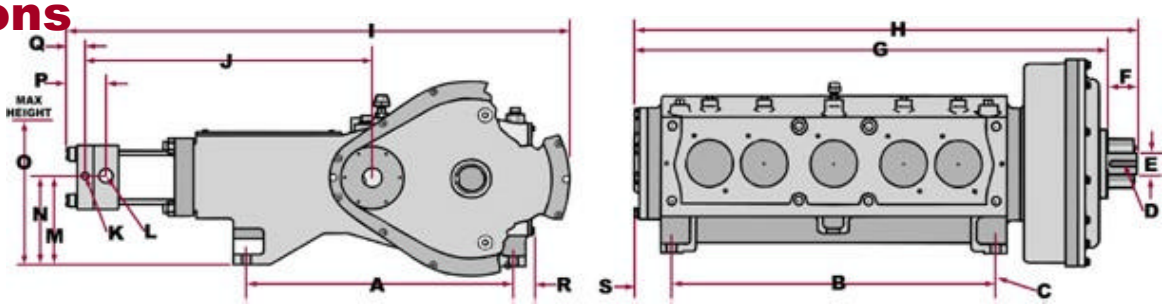
1. **Stuffing Box:** Five cylinders machined from hardened stainless steel, autofrettaged for extended life.
2. **Suction Manifold:** Hard, anodized aluminum. Also available in stainless for salt water applications.
3. **Valve Assembly:** Hardened stainless steel, autofrettaged for extended life. Valves 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-450H




| | 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.***
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*Your local distributor/representative is:*