

PUMPS



QF-450SB WATERJETTING PUMP

STANDARD FEATURES

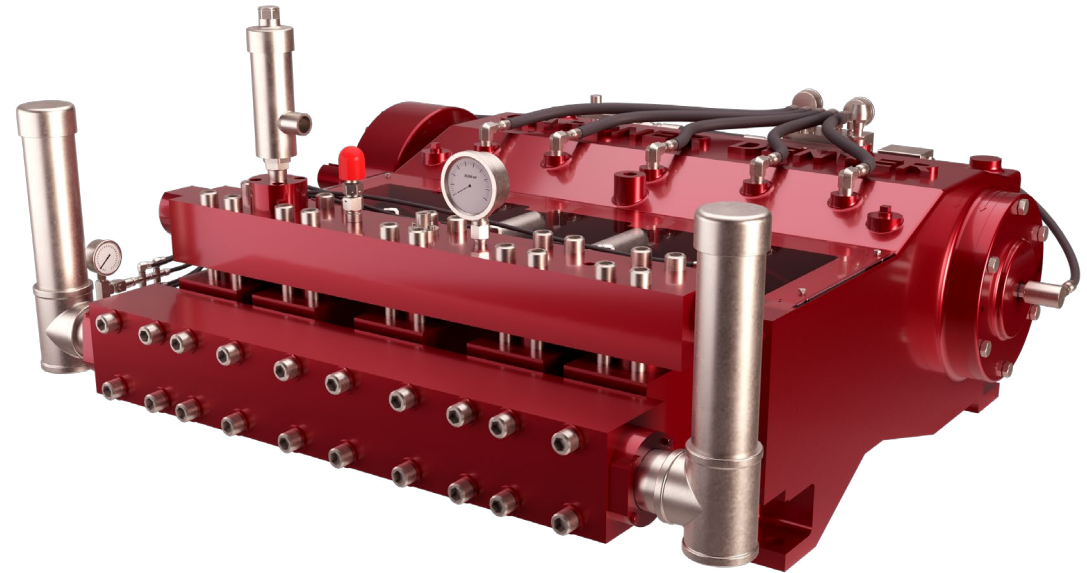
- Quintuplex (five plungers)
- Sectionalized “L” fluid end design
- Pressure range from 5,000 PSI to 10,000 PSI
- Flow rates to 200 GPM
- Maximum frame load of 25,000 Lbs / 11,340 Kg for multi-speed and 20,750 Lbs / 9,412 Kg for single speed
- Field proven design
- Extremely reliable - thousands in service
- 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

SPECIFICATIONS

| | |
|---------------|--------------------|
| Weight | 5600 lbs / 2540 Kg |
| Maximum RPM | 515 RPM |
| Stroke Length | 4.5 in / 114 mm |

APPLICATIONS

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



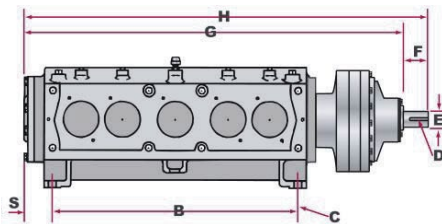
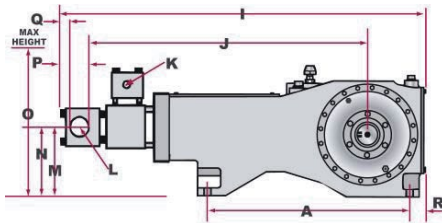
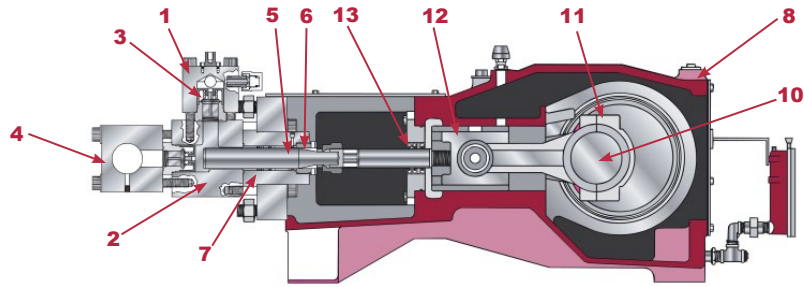
| PLUNGER DIAMATER | | MAX PRESSURE | | FLOW | | | | | |
|------------------|-----|--------------|-----|---------|-------|---------|-------|---------|-------|
| | | | | 200 RPM | | 400 RPM | | 500 RPM | |
| in. | mm. | PSI | bar | GPM | LPM | GPM | LPM | GPM | LPM |
| 1.563 | 40 | 10000 | 690 | 37.4 | 141.6 | 74.7 | 282.7 | 93.4 | 353.5 |
| 1.625 | 41 | 9000 | 621 | 40.4 | 152.9 | 80.8 | 305.8 | 101.0 | 382.3 |
| 1.750 | 44 | 5000 | 552 | 46.8 | 177.1 | 93.6 | 354.3 | 117.1 | 443.2 |
| 1.875 | 48 | 7000 | 483 | 53.8 | 203.6 | 107.6 | 407.3 | 134.5 | 509.0 |
| 2.000 | 51 | 6000 | 414 | 61.2 | 231.6 | 122.4 | 463.3 | 153.0 | 579.1 |
| 2.125 | 54 | 5000 | 345 | 69.0 | 261.1 | 138.1 | 522.7 | 172.7 | 653.7 |
| 2.250 | 57 | 4500 | 310 | 77.4 | 292.2 | 1554.8 | 585.9 | 193.6 | 732.8 |

Note: Pump is available with reduction gear.

QF-450SB

WATERJETTING PUMP

SPECIFICATIONS



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 bull and pinion gears for strength and durability. Ratios available - 3.50:1, 4.200:1, 4.636:1, 5.210:1

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