JWS-400

A 400 horsepower 7” stroke intermittent duty single acting well service piston/plunger pump. Equipped with individual forged alloy steel fluid ends and rated at pump speeds up to 286 RPM and maximum discharge pressures up to 10,000 psi. Equipped with 4.667:1 chain reduction drive.

Power End Features

- One piece, High strength steel power frame
- Heavy-duty, tapered roller crankshaft bearings
- Precision type, aluminum alloy crankpin bearings
- Stainless steel connecting rods, removable from crossheads
- Cast iron crossheads with upper/lower oil grooves
- 4.667:1 chain driven reducer standard
- Stainless steel Intermediate rods, removable from crossheads
- Cast iron crossheads with upper/lower oil grooves
- Replaceable Stainless Steel intermediate rods
- Flooded sump, splash distribution lubrication

Fluid End Features

- Forged steel fluid end
- Forged steel buttress type threaded valve covers
- Two piece piston rods
- Individually removable liners
- Plungers and packing, general service lip type
- Ductile iron stuffing boxes with screw type glands
- Mission Service Master Valves and Seats
JWS-400 Triplex Well Service Pump

**Specifications**

- **Pump size:** (max. liner dia. x stroke) in. (mm):
  - 5 1/2 x 7 (139.7 x 177.8)
- **Pump size:** (max. plunger dia. x stroke) in. (mm):
  - 4 1/2 x 7 (114.3 x 177.8)
- **Rated bhp at 286 rpm (kw):** 400 (298)
- **Maximum working pressure:** psi (kPa):
  - 10,000 (68,950)
- **Stroke length, in. (mm):** 7 (177.8)
- **Max. speed rpm:** 286
- **Max. plunger in. (mm):** 4 1/2 (114.3)
- **Max. piston in. (mm):** 5 1/2 (139.7)
- **Crankshaft extension:** in. (mm)
  - Diameter: 6 (152.4)
  - Length: 10 1/4 (260.4)
  - Keyway (width x depth): 1 1/2 x 3/4 (38.1 x 19.05)
- **Pinion shaft extension,** if chain drive supplied in. (mm)
  - Diameter: 3.75 (95.25)
  - Length: 6 (152.4)
  - Keyway (width x depth): 7/8 x 7/16 (22.2 x 11.1)
- **Accessory gear units:** See accessories for reduction ratios
- **Oil Capacity:** gallons (L)
  - Crankcase: 22 (83.3)
  - Chaincase: 30 (113.5)
- **Weight, pump with reducer pounds (Kg):** 15,000 (6804)

**Standard Equipment:**
- Forged steel fluid end
- Forged steel valve covers
- Piston & liners or plungers & packing
- Slush type valves
- Oil level dipstick
- Crankcase breather
- Stainless steel extension rods
- Double extended crankshaft

**Accessories:**
- Chain reducer (4.667:1)
- Suction stabilizer
- Discharge dampener
- Liner flush system
- Plunger lubricator
- Valve seat puller assembly
- Complete unitization with electric motor or engine drive

**Pump Model | Flange Connections | Discharge Connection Sizes | Suction Connection Sizes**

| JWS-400 | 3 1/16 API 6 BX 10,000 PSI | 6 ANSI-150 RF |
### Performance Data

<table>
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<th>Diameter, in.</th>
<th>4&quot;</th>
<th>4 1/2&quot;</th>
<th>5&quot;</th>
<th>5 1/4&quot;</th>
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<td>gal/min. per RPM</td>
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<th>bbl/ min.</th>
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<th>bbl/ min.</th>
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<th>bbl/ min.</th>
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Volumes indicated are displacement of incompressable fluid. Volumetric rate is based on 100% Volumetric Efficiency. Brake Horsepower/Kilowatts Required is based on 90% Mechanical Efficiency. These ratings are for intermittent service. Pressure up to those shown may be utilized for a period not to exceed a total of 4 hours in 240 hours. Caution: When pump is equipped with pistons and liners, pressures in excess of 5000 psi (352 kg/cm²) should not be exceeded except for emergencies or intermittent duty of short duration. Speed in excess of 175 rpm is recommended for plunger only and not recommended for pumps equipped with pistons for maximum liner and piston life.

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Rotating Right offers a full line of accessories to ensure long trouble free and safe operation of your multiplex pumps.

**Accessories Include:**
- Pulsation Dampeners - Suction & Discharge
- Vibration Shock Switches
- Liquid Level Gauges & Switches
- Pressure Safety Valves
- Plunger Lubricators
- Fire Safety Valves
- High Discharge Pressure Switch
- Condensate Drain
- N.A.C.E. Valving
- Lubricator Level Controller
- API Valves
- Drive Options

With our worldwide buying power Rotating Right is well equipped to provide a wide range of replacement parts & expendables for virtually all multiplex plunger pumps regardless of make or model. Our expendables inventory includes plungers, packing, brass, valves, bearings, crankshafts, connecting rods and seals.

Rotating Right service technicians follow strict quality control procedures for every pump repair and overhaul. The use of consistent and reliable re-manufacturing techniques ensure your equipment is returned to you in “Like New” condition.