

ROTATING RIGHT

MODEL W-600-SA SINGLE ACTING WELL SERVICE PUMP



W-600-SA

A 600 horsepower 6" stroke intermittent duty single acting well service plunger pump. Equipped with forged alloy steel mono-block fluid end and rated at pump speeds up to 450 RPM and maximum discharge pressures up to 20,000 psi. Equipped with external gear reduction unit.

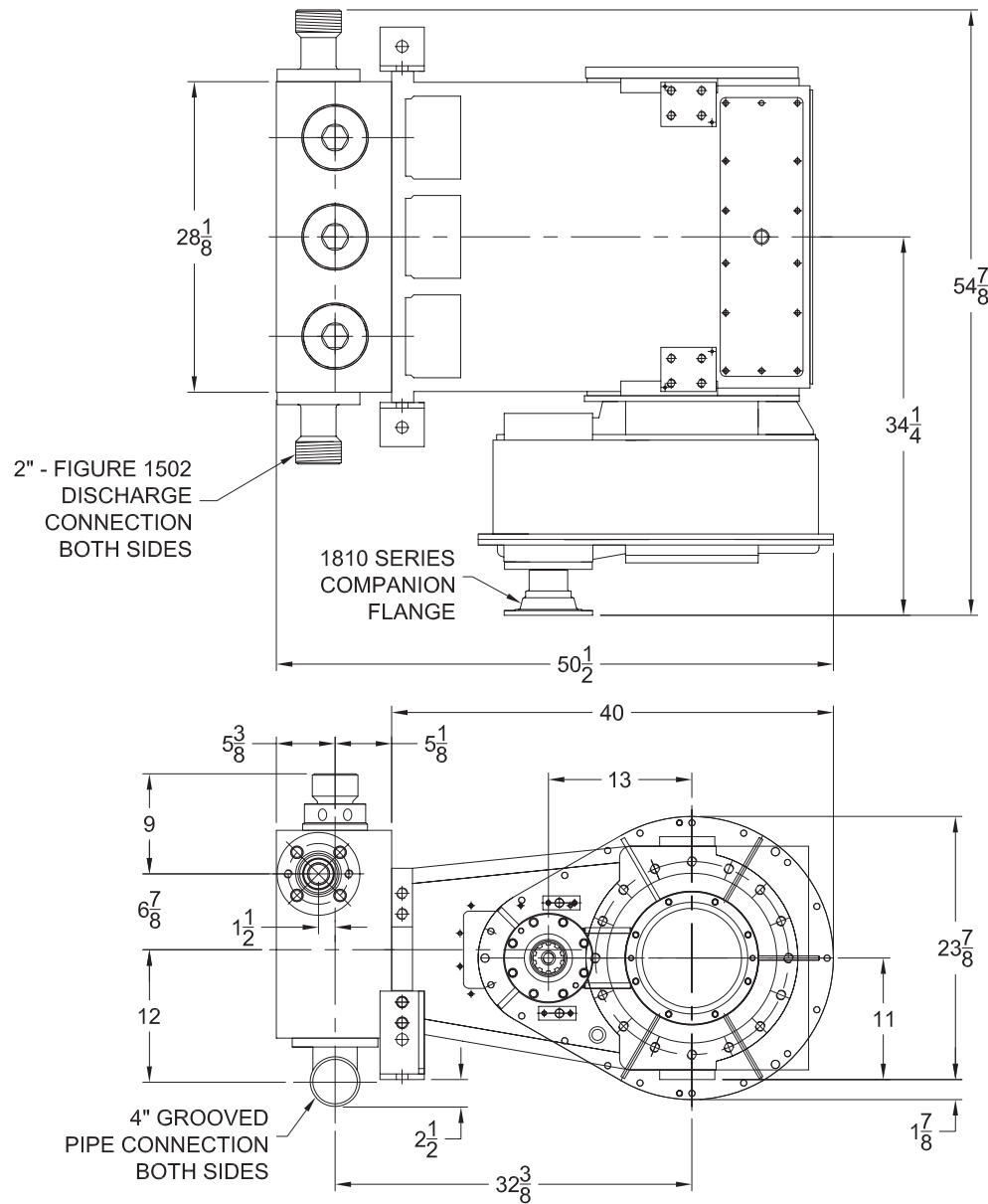
Power End Features

- Alloy steel power frame
- Helical gears
- Roller main bearings
- Taper roll pinion bearings
- Alloy steel crankshaft
- Replaceable crosshead guides

Fluid End Features

- Alloy steel mono-block forging
- Multiple discharge ports
- Mechanical oil drip packing lubricator
- Optional air/hydraulic packing lubricator
- 2" 1502 discharge connection
- Roughneck/service master II valves and seats

W-600S Plunger Pump



Specifications

Pump Type:

Intermittent duty reciprocating pump

Maximum Input Horsepower: 600 Intermittent

Stroke Length: 6 inches

Maximum Rod Load: 100,000 lbs.

Approximate Weight: 4,600 lbs.

Pump Power End:

Fabricated of high strength alloy steel

Gears: Helical

Gear Ratio: 4.6:1

Rod Bearings: Shell type replaceable

Main Bearings: Straight roller

Gearbox Bearings: Tapered roller

Crankshaft: One-piece forged alloy steel nitrided

Connecting Rod: Cast steel

Crosshead: Cast steel

Crosshead Slide:

Shim adjustable, replaceable cast iron

Fluid-End: Plunger type mono-block design

Discharge Connection: 2-inch 1502 Half Union

Forged Steel Connection - Either Side

Suction: Fabricated steel with

4" grooved connections - both ends

Valves and Seats: Service Master™ II

Power End Lubrication: 12-18 GPM Required

Packing Lubrication: Optional Air Driven Air/Oil or Mechanical Oil Drip System Available

Pump Model	Flange Connections	
	Discharge Connection Sizes	Suction Connection Sizes
W600-S	2 (50.8) 1502 Half Union	4 (101.6) Grooved Pipe

W-600S Plunger Pump

Performance Data

Plunger Diameter	Displacement Factors* @ 100% V. E. U.S. Gal. per Rev.	Pump Speed in Crankshaft Revolutions Per Minute (RPM)										
		50			120		200		300		450	
		Flow @ 100% V. E.	Max Press. @ Flow		Flow @ 100% V. E.	Max Press. @ Flow	Flow @ 100% V. E.	Max Press. @ Flow	Flow @ 100% V. E.	Max Press. @ Flow	Flow @ 100% V. E.	Max Press. @ Flow
		U.S. Gal. per Min.	PSIG		U.S. Gal. per Min.	PSIG	U.S. Gal. per Min.	PSIG	U.S. Gal. per Min.	PSIG	U.S. Gal. per Min.	PSIG
Inches	GPR	GPM	PSIG	GPM	PSIG	GPM	PSIG	GPM	PSIG	GPM	PSIG	
2.50	.3825	19.12	20372	45.90	20165	76.50	12099	114.75	8066	172.12	5377	
2.75	.4628	23.14	16836	55.54	16665	92.56	9999	138.85	6666	208.27	4444	
3.00	.5508	27.54	14147	66.10	14003	110.16	8402	165.24	5601	247.86	3734	
3.50	.7497	37.48	10394	89.96	10288	149.94	6173	224.91	4115	337.36	2744	
4.00	.9792	48.96	7958	117.50	7877	195.84	4726	293.76	3151	440.64	2100	
4.50	1.2393	61.96	6288	148.72	6224	247.86	3734	371.79	2489	557.68	1660	
Input Power	Brake** Horsepower	253		600		600		600		600		
	Pinion RPM @4.60:1 Gear Ratio	230		552		920		1380		2070		

*V.E. = Volumetric Efficiency **BHP (Brake Horsepower) is based on 90% Mechanical Efficiency

The information and data on this sheet is accurate to the best of our knowledge and belief, but are intended for general information only. Applications suggested for the materials are described only to help readers make their own evaluations and decisions, and are neither guarantees nor to be construed as express or implied warranties of suitability for these or other applications. National Oilwell makes no warranty either express or implied beyond that stipulated in National Oilwell Standard Terms and Conditions of Sale.

Accessories

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



Expendables



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.

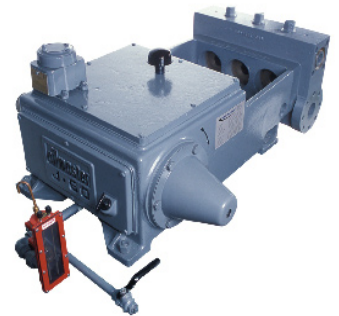


Our expendables inventory includes plungers, packing, brass, valves, bearings, crankshafts, connecting rods and seals.



Repair & Overhauls

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.



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