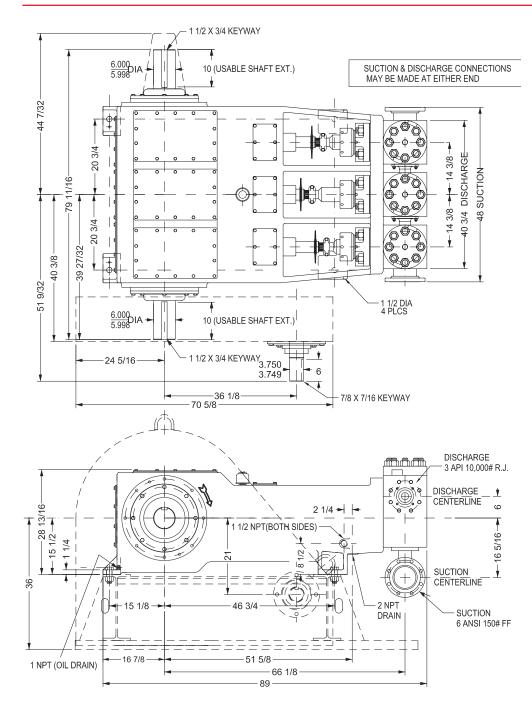
JWS-400 Triplex Well Service Pump



 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

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

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Performance Data

							Pistons Only			Pistons Only			Pistons Only			
Diameter, in.		4"			4 1/2"			5"			5 1/4"			5 1/2"		
gal/min. per RPM		1.142			1.446			1.785			1.968			2.159		
bbl/min. per RPM		.02719			.0344			.0425			.0469			.0514		
	Req'd.		gal/	bbl/		gal/	bbl/		gal/	bbl/		gal/	bbl/		gal/	bbl/
RPM	hp	PSI	min.	min.	PSI	min.	min.	PSI	min.	min.	PSI	min.	min.	PSI	min.	min.
286	400	1900	327	7.78	1500	414	9.85	1217	510	12.1	1102	563	13.4	1004	618	14.7
250	400	2175	286	6.80	1715	361	8.61	1390	446	10.6	1261	492	11.7	1149	540	12.8
200	400	2725	228	5.44	2140	289	6.88	1741	357	8.5	1579	394	9.38	1439	432	10.3
175	400	3100	200	4.76	2435	253	6.02	1979	312	7.43	1795	344	8.19	1635	378	9.0
140	400	3819	160	3.80	3072	202	4.82	2483	250	5.95	2249	276	6.57	2055	302	7.19
100	400	5445	114	2.72	4280	145	3.44	3482	178	4.24	3159	197	4.69	2878	216	5.14
75	400	7250	86	2.04	5747	108	2.58	4636	134	3.19	4205	148	3.52	3831	162	3.86
55	400	10,000	63	1.50	8000	80	1.89	6334	98	2.33	5747	108	2.57	5216	119	2.83
25	187	10,000	29	.68	8000	36	.86	6400	45	1.07	5804	49	1.17	5289	54	1.28

(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.

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.