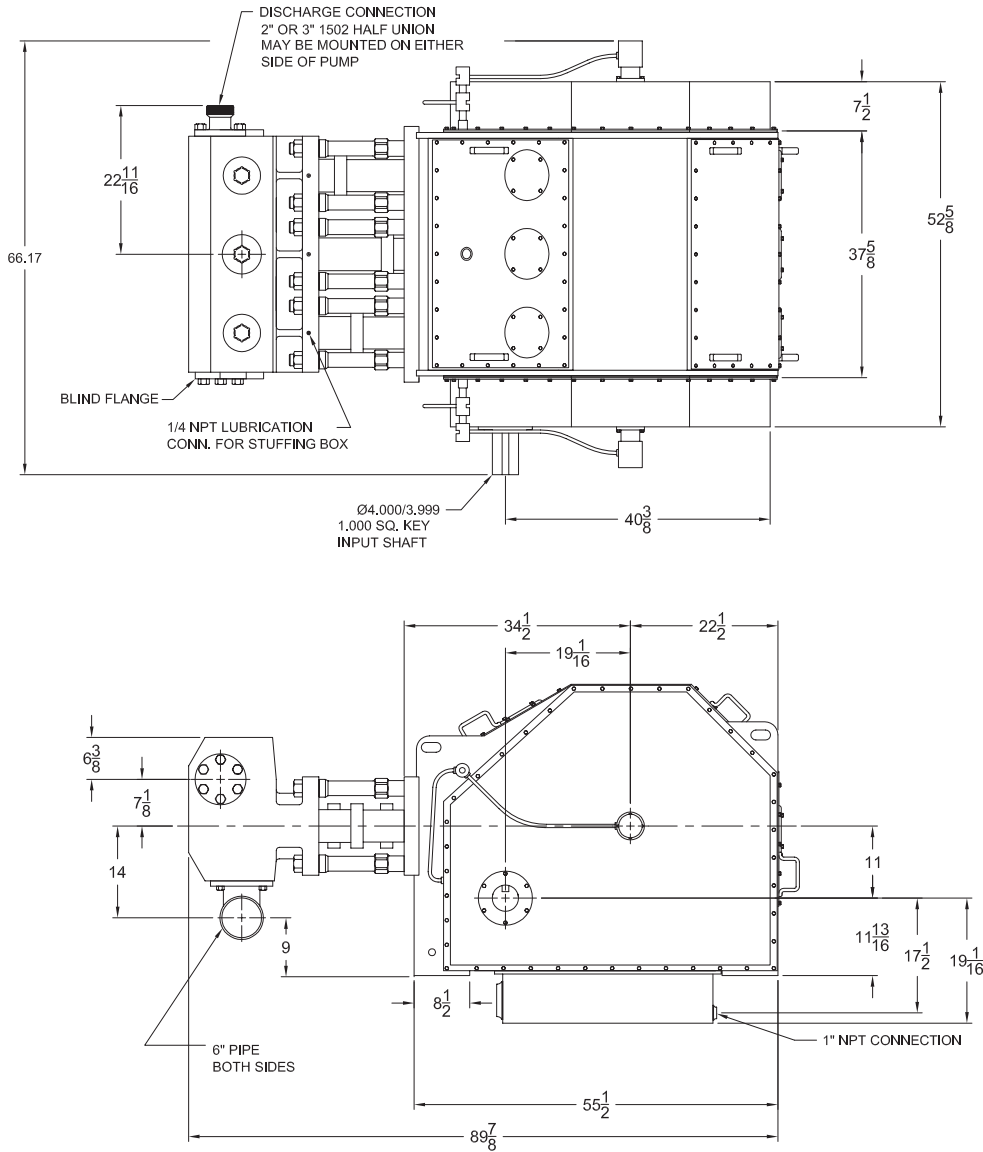


W-1300 Triplex Plunger Pump



Specifications

- Pump Type:**
Horizontal Reciprocating Power Pump Positive Displacement with Single-Acting Plungers
- Maximum Input Horsepower:**
1,300 Intermittent, 650 Continuous
- Stroke Length:** 8 inches
- Maximum Rod Load:** 200,000 lbs.
- Approximate Weight:** 11,000 lbs.
- Pump Power End:** Fabricated of High Strength Steel
- Gears:** Double Helical
- Gear Ratio:** 7.0:1 or 7.5:1
- Rod Bearings:** Shell Type Replaceable
- Main Bearings:** Straight Roller
- Pinion Bearings:** Spherical Roller
- Crankshaft:** One Piece Forged Alloy Steel
- Connecting Rod:** One Piece Forged Steel with Knuckle Joint
- Crosshead Guide:** Bronze Replaceable
- Fluid End:**
Plunger Type Monoblock Design. Machined From High Strength Alloy Steel, Heat Treated and Ultrasonic Tested
Autofrettaged*
- Plunger Diameter:** 3.75 to 7.5 inches
- Discharge Outlet:** 2-inch 1502 Half Union Forged Steel Connection - Either Side
- Suction Inlet:** 6-inch Pipe
- Valves and Seats:** Hardened Steel, Replaceable Insert
- Power End Lubrication:**
35 GPM Required, Optional Hydraulic Lubrication System w/ Removable Bolt on Sump
- Packing Lubrication:** Optional Air Driven Air/Oil or Mechanical Oil Drip System Available

Pump Model	Flange Connections	
	Discharge Connection Sizes	Suction Connection Sizes
W-1300	2 (50.8) 1502 Half Union 3 (76.2) 1502 (Optional)	6 (152.4) Grooved Pipe

Dimensions (Inches)							
FE Size	A	B	C	D	E	F	G
4	24 3/4	8 1/8	3 1/4	11 9/64	7 1/8	14 1/16	8 3/4
4 1/2	24 3/4	8 1/8	3 1/2	11 9/64	7 1/8	14 1/16	8 3/4
5	24 3/4	8 1/8	3 1/2	11 9/64	7 1/8	14 1/16	8 3/4
5 1/2	24 3/4	7 1/8	3	11 1/2	7 5/8	15 3/16	7 5/8
5 3/4	24 3/4	7 1/8	3	11 1/2	7 5/8	15 3/16	7 5/8
6 1/2	25	7 7/8	4	11 1/2	8 1/2	15 11/16	7 1/8
6 3/4	25	7 7/8	4	11 1/2	8 1/2	15 11/16	7 1/8

W-1300 Triplex Plunger Pump

Performance Data

Plunger Diameter	Displacement Factors* @ 100% V. E. U.S. Gal. per Rev.	Pump Speed in Crankshaft Revolutions Per Minute (RPM)									
		100		150		200		250		330	
		Flow @ 100% V. E.	Max Press.	Flow @ 100% V. E.	Max Press.	Flow @ 100% V. E.	Max Press.	Flow @ 100% V. E.	Max Press.	Flow @ 100% V. E.	Max Press.
		U.S. Gal. per Min.	@ Flow	U.S. Gal. per Min.	@ Flow	U.S. Gal. per Min.	@ Flow	U.S. Gal. per Min.	@ Flow	U.S. Gal. per Min.	@ Flow
Inches	GPR	GPM	PSIG	GPM	PSIG	GPM	PSIG	GPM	PSIG	GPM	PSIG
7.50	4.590	459	4126	689	2715	918	2063	1148	1651	1515	1250
7.00	3.999	400	4736	600	3157	800	2368	1000	1849	1320	1435
6.75	3.713	371	5101	557	3401	743	2550	928	2040	1225	1546
6.50	3.448	345	5493	517	3662	690	2746	862	2197	1138	1665
6.00	2.938	294	6446	441	4298	588	3223	735	2579	970	1953
5.75	2.698	270	7020	405	4680	540	3510	675	2808	890	2127
5.50	2.468	247	7670	370	5120	494	3830	617	3070	814	2330
5.00	2.040	204	9284	306	6189	408	4642	510	3714	673	2813
4.50	1.652	165	11465	248	7643	330	5732	413	4586	545	3474
4.00	1.306	131	14502	196	9668	261	7251	327	5801	431	4395
3.75	1.147	115	16512 ***	172	11008	229	8256	287	6605	379	5004
Input Power	Brake** Horsepower	1300		1300		1300		1300		1300	
Pinion RPM @ 7.50:1 Gear Ratio		750		1125		1500		1875		2475	
Pinion RPM @ 7.00:1 Gear Ratio		700		1050		1400		1750		2310	

* V.E. = VOLUMETRIC EFFICIENCY, **BHP (Brake Horsepower) is based on 85% Mechanical Efficiency *** Applications at pressures above 15,000 PSIG must be approved by National Oilwell Engineering Department

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.

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