

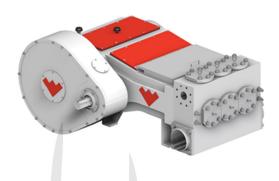
WDD-650 Triplex Piston Pump

Pump S	Specifications
--------	----------------

Rated (HP, kW)	650	485		
Stroke length (in., mm)	7.5	191		
Maximum discharge pressure (psi, bar)	T			
WDD-650	5,120	353		
Rated rod load (lb, kg)	42,500	19,278		
M aximum speed (rpm)	25	50		
Minimum speed (rpm)	5	0		
Input shaft dimensions (in., mm)				
Diameter	4.000	102		
Oil capacity (gal, /)				
Pump	TBD	TBD		
Reducer (varies with ratio)	TBD	TBD		
Estimated weight (lb, kg)				
Pump				
WDD-650	13,000	5,897		
Reducer	3,400	1,542		
M echanical efficiency	90	%		

Flange Connections

Pump	Discharge Connection	Suction Connection
Model	Sizes (in., <i>mm</i>)	Sizes (in., <i>mm</i>)
WDD-650	4-1/16 (103.2) A P I-5K	8 (203.2) CL150 FF



Standard Equipment

- All fluid cylinders are made from forged, alloy steel for increased durability and extended life.
- Pistons are easily removed through the front of the cylinder and do not require removal of the fluid cylinder or liners.
- Chrome iron liners
- Premium oilfield style pistons
- Fully supported crankshaft with double taper main and cylindrical center roller bearings for long life and durability.
- Built-in power end lube system provides proper lubrication even at low speeds and non-level operating locations.
- Premium extension rod oil seal with four seals to keep power end oil clean.
- Abrasion resistant valves.

Optional Accessories

- Complete motor or engine driven pump packages
- Packing lubricators
- Custom, plunger, packing, and valve
 arrangements

Technical Support

pumps@weatherford.com 713-36-4000



WDD-650 Triplex Piston Pump

Performance Ratings

M o del (standard)	Piston Diameter (in.)	Gallons Per Revolution	Maximum Pressure PSI	25 R P M		100 R P M		150 R P M		175 R P M *		225 R P M		250 R P M	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
WDD-650	3.250	0.8080	5,120	20.2	693	80.8	2770	121.2	4155	141.4	4848	181.8	6,233	202	6,926
	3.500	0.9371	4,420	23.4	802	93.7	3213	140.6	4821	164	5623	210.9	7,231	234.3	8,033
	4.000	1.2240	3,380	30.6	1049	122.4	4197	183.6	6295	214.2	7344	275.4	9,442	306	10,491
	4.500	1.5491	2,670	38.7	1327	154.9	5311	232.4	7968	271.1	9295	348.6	11,952	387.3	13,279
	5.000	1.9125	2,160	47.8	1639	191.2	6555	286.9	9837	334.7	11475	430.3	14,753	478.1	16,392
	5.500	2.3141	1,790	57.9	1985	231.4	7934	347.1	11901	405	13886	520.7	17,853	578.5	19,834
	6.000	2.7540	1,500	68.8	2359	275.4	9442	413.1	14163	481.9	16522	619.6	21,243	688.5	23,606

Model (standard)	Piston Diameter (in.)	Liters Per Revolution	Maximum Pressure BAR	25 R P M		100 R P M		150 R P M		175 R P M *		225 R P M		250 R P M	
				LP M	M³/hr	LP M	M³/hr	LP M	M³/hr	LP M	M ³/hr	LPM	M³/hr	LP M	M³/hr
WDD-650	3.250	3.0584	353	76	5	306	18	459	28	535	32	688	41	765	46
	3.500	3.5470	305	89	5	355	21	532	32	621	37	798	48	887	53
	4.000	4.6328	233	116	7	463	28	695	42	811	49	1042	63	1158	69
	4.500	5.8634	184	146	9	586	35	880	53	1026	62	13 19	79	1466	88
	5.000	7.2388	149	181	11	724	43	1086	65	1267	76	1629	98	18 10	109
	5.500	8.7589	123	219	13	876	53	1314	79	1533	92	1971	118	2190	131
	6.000	10.4250	103	260	16	1042	63	1564	94	1824	109	2345	141	2606	156

*Continuous duty speed

General Notes

1. Capacities shown are based on 100 percent volumetric efficiency. Actual capacities are lower, based on discharge pressure and speed, typically 95 percent.

 Operating power required by the pump is calculated by the formula: HP = (psi × gpm)/1,543, where psi is the actual operating pressure in psi units and gpm is the actual pumping capacity in gpm.

1

3. Maximum operating speeds are reduced for increased expendable life in HDD service.

4. Standard piston sizes are shown; however, other sizes may be available on request. Consult Weatherford for performance and pressure ratings.

5. Various power inlet options are available, including hydraulic adaption's, bolt on gear reducer, and planetary gear reducer with SAE flange

weatherford.com

© 2017 Weatherford. All rights reserved. WDD-650PRELIM1

Weatherford products and services are subject to the Company's standard terms and conditions, available on request or at weatherford.com. For more information contact an authorized Weatherford representative. Unless noted otherwise, trademarks and service marks herein are the property of Weatherford and may be registered in the United States and/or other countries. Weatherford products named herein may be protected by one or more U.S. and/or foreign patents. For more information, contact patents@weatherford.com. Specificationsare subject to change without notice. Weatherford sells its products and services in accordance with the terms and conditions set forth in the applicable contract between Weatherford and the client.