



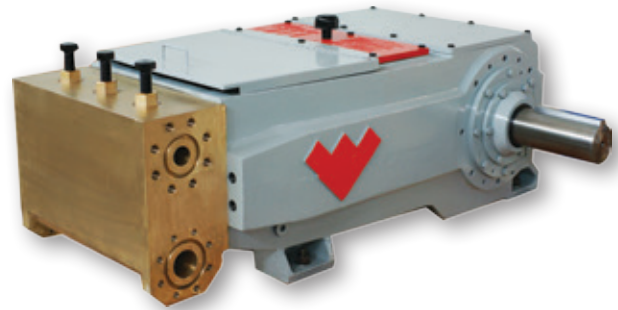
W250 Triplex Pump

Pump Specifications

Rated (HP, kW)	250	187
Stroke length (in., mm)	5	127
Maximum discharge pressure (PSI, Bar)		
W250H	5,000	345
W250M	3,030	209
W250L	1,540	106
Rated rod load (lb, kg)	14,885	6,738
API-674 speed, RPM	310	
Maximum speed, RPM	400	
Minimum speed, RPM	100	
Crankshaft dimensions (in., mm)		
Diameter	4.875	124
Length (long)	11.85	301
Length (short)	5.62	143
Keyway, width × depth (in., mm)	1.25 × .62	32 × 16
Oil capacity (gal, l)		
Pump	6.5	24.6
Reducer (varies with ratio)	3.5 to 6.5	13 to 25
Weight (lb, kg); estimates only		
Pump		
W250H	4,932	2,237
W250M	4,958	2,249
W250L	4,588	2,081
Reducer	1,100	499
Mechanical efficiency	90%	

Flange Connections

Pump Model	Discharge Connection Sizes (in., mm)	Suction Connection Sizes (in., mm)
W250H	2 (50.8) ANSI 2500 RJ	3 (76.2) API 2000 RJ
W250M	2 (50.8) API 5000 RJ	4 (101.6) ANSI 150 FF
W250L	3 (76.2) API 2000 RJ	6 (152.4) ANSI 150 FF



Standard Equipment

- Cast aluminum-bronze, forged duplex stainless steel, or forged carbon steel fluid ends
- Aluminum-bronze or duplex stainless steel stuffing boxes
- Various valve designs offered per fluid end style
- Tungsten carbide coated plungers over stainless steel base or solid ceramic plungers
- Double extended crankshaft
- Multiple plunger packing arrangements offered

Optional Accessories

- Weatherford bolt on gear reducers (ratios)
 - 2.27:1
 - 2.89:1
 - 3.25:1
 - 3.36:1
 - 3.69:1
 - 4.38:1
 - 4.84:1
 - 5.63:1
- Packing lubricators
- Customized plunger packing arrangements
- Complete pump packages

Technical Support

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W250 Triplex Pump Performance Ratings

Model (standard)	Plunger Diameter (in.)	GPM Per RPM	Maximum Pressure PSI	100 RPM		150 RPM		200 RPM		310 RPM*		350 RPM		400 RPM	
				GPM	BPD	BPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
W250H	1.875	0.1793	5000	17.9	615	26.9	922	35.9	1229	55.6	1906	62.8	2152	71.7	2459
	2.000	0.2040	4730	20.4	699	30.6	1049	40.8	1399	63.2	2168	71.4	2448	81.6	2798
	2.125	0.2303	4190	23.0	790	34.5	1184	46.1	1579	71.4	2448	80.6	2764	92.1	3158
	2.250	0.2582	3740	25.8	885	38.7	1328	51.6	1770	80.0	2744	90.4	3098	103.3	3541
W250M	2.500	0.3187	3030	31.9	1093	47.8	1639	63.7	2186	98.8	3388	111.6	3825	127.5	4371
	2.750	0.3857	2500	38.6	1322	57.9	1984	77.1	2645	119.6	4099	135.0	4628	154.3	5289
	3.000	0.4590	2100	45.9	1574	68.8	2361	91.8	3147	142.3	4879	160.6	5508	183.6	6295
	3.250	0.5387	1790	53.9	1847	80.8	2770	107.7	3694	167.0	5725	188.5	6464	215.5	7388
W250L	3.500	0.6247	1540	62.5	2142	93.7	3213	124.9	4284	193.7	6640	218.7	7497	249.9	8568
	3.750	0.7172	1340	71.7	2459	107.6	3688	143.4	4918	222.3	7623	251.0	8606	286.9	9836
	4.000	0.8160	1180	81.6	2798	122.4	4197	163.2	5595	253.0	8673	285.6	9792	326.4	11191
	4.250	0.9212	1050	92.1	3158	138.2	4738	184.2	6317	285.6	9791	322.4	11054	368.5	12633
	4.500	1.0327	930	103.3	3541	154.9	5311	206.5	7082	320.2	10977	361.5	12393	413.1	14163

Model (metric)	Plunger Diameter (in.)	LPM Per RPM	Maximum Pressure BAR	100 RPM		150 RPM		200 RPM		310 RPM*		350 RPM		400 RPM	
				LPM	M ³ /hr	LPM	M ³ /hr	LPM	M ³ /hr	LPM	M ³ /hr	LPM	M ³ /hr	LPM	M ³ /hr
W250H	1.875	0.6786	371	67.9	4.1	101.8	6.1	135.7	8.1	210.4	12.6	237.5	14.3	271.5	16.3
	2.000	0.7721	326	77.2	4.6	115.8	6.9	154.4	9.3	239.4	14.4	270.2	16.2	308.9	18.5
	2.125	0.8717	289	87.2	5.2	130.8	7.8	174.3	10.5	270.2	16.2	305.1	18.3	348.7	20.9
	2.250	0.9772	257	97.7	5.9	146.6	8.8	195.4	11.7	302.9	18.2	342.0	20.5	390.9	23.5
W250M	2.500	1.2065	209	120.6	7.2	181.0	10.9	241.3	14.5	374.0	22.4	422.3	25.3	482.6	29.0
	2.750	1.4598	172	146.0	8.8	219.0	13.1	292.0	17.5	452.5	27.2	510.9	30.7	583.9	35.0
	3.000	1.7373	145	173.7	10.4	260.6	15.6	347.5	20.8	538.6	32.3	608.1	36.5	694.9	41.7
	3.250	2.0389	123	203.9	12.2	305.8	18.4	407.8	24.5	632.1	37.9	713.6	42.8	815.6	48.9
W250L	3.500	2.3647	106	236.5	14.2	354.7	21.3	472.9	28.4	733.0	44.0	827.6	49.7	945.9	56.8
	3.750	2.7145	93	271.5	16.3	407.2	24.4	542.9	32.6	841.5	50.5	950.1	57.0	1,185.8	65.1
	4.000	3.0886	81	308.9	18.5	463.3	27.8	617.7	37.1	957.5	57.4	1081.0	64.9	1235.4	74.1
	4.250	3.4867	72	348.7	20.9	523.0	31.4	697.3	41.8	1080.9	64.9	1220.3	73.2	1394.7	83.7
	4.500	3.9089	64	390.9	23.5	586.3	35.2	781.8	46.9	1211.8	72.7	1368.1	82.1	1563.6	93.8

*API Speed

General Notes

1. Capacities shown are based on 100 percent volumetric efficiency. Actual capacities are lower, based on discharge pressure and fluid compressibility.
2. API-674 and NACE-compliant designs are available; consult Weatherford for details and exceptions to these standards.
3. For operation below 200 RPM, an auxiliary lubrication system is required.
4. Standard plunger sizes are shown, however other sizes are available upon request.
5. Spherical valves must be installed when using 4.00 in. plungers.