



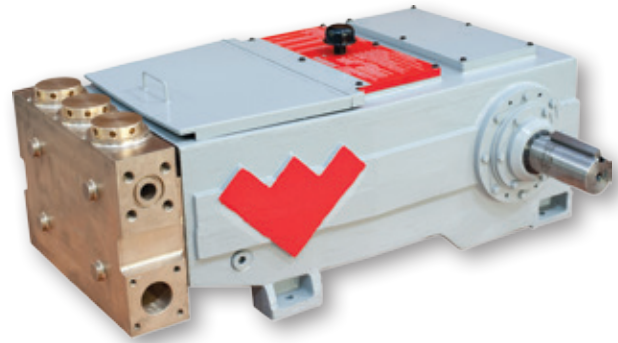
W100 Triplex Pump

Pump Specifications

Rated (HP, kW)	100	75
Stroke length (in., mm)	4	102
Maximum discharge pressure (PSI, Bar)		
W100H	5,000	345
W100M	3,180	219
W100L	1,660	114
Rated rod load (lb, kg)	6,595	2,991
API-674 speed, RPM	350	
Maximum speed, RPM	450	
Minimum speed, RPM	150	
Crankshaft dimensions (in., mm)		
Diameter	3.75	95
Length (both sides)	8.31	211
Keyway, width x depth (in., mm)	.875 x .438	22 x 11
Oil capacity (gal, l)		
Pump	5.5	20.8
Reducer	3.0	11.4
Weight (lb, kg); estimates only		
Pump		
W100H	3,200	1,451
W100M	3,100	1,406
W100L	3,150	1,429
Reducer	500	227
Mechanical efficiency	90%	

Flange Connections

Pump Model	Discharge Connection Sizes (in., mm)	Suction Connection Sizes (in., mm)
W100H	1.5 (38.1) ANSI 2500 RJ	3 (76.2) ANSI 300 FF
W100M	1.5 (38.1) API 5000 RJ	3 (76.2) ANSI 150 FF
W100L	2.5 (63.5) API 2000 RJ	5 (127) 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)
 - 2.61:1
 - 3.15:1
 - 3.42:1
 - 3.89:1
 - 4.27:1
 - 5.23:1
- Packing lubricators
- Customized plunger packing arrangements
- Complete pump packages

Technical Support

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W100 Triplex Pump Performance Ratings

Model (standard)	Plunger Diameter (in.)	Gallons Per Revolution	Maximum Pressure PSI	150 RPM		250 RPM		300 RPM		350 RPM*		400 RPM		450 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
W100H	1.250	0.0637	5000	9.6	328	15.9	546	19.1	655	22.3	764	25.5	874	28.7	983
	1.375	0.0771	4440	11.6	397	19.3	661	23.1	793	27.0	925	30.8	1057	34.7	1190
	1.500	0.0918	3730	13.8	472	23.0	787	27.5	944	32.1	1102	36.7	1259	41.3	1416
	1.625	0.1077	3180	16.2	554	26.9	923	32.3	1108	37.7	1292	43.1	1477	48.5	1662
	1.750	0.1249	2740	18.7	642	31.2	1071	37.5	1285	43.7	1499	50.0	1713	56.2	1927
W100M	1.625	0.1077	3180	16.2	554	26.9	923	32.3	1108	37.7	1292	43.1	1477	48.5	1662
	1.750	0.1249	2740	18.7	642	31.2	1071	37.5	1285	43.7	1499	50.0	1713	56.2	1927
	1.875	0.1434	2390	21.5	737	35.9	1229	43.0	1475	50.2	1721	57.4	1967	64.5	2212
	2.000	0.1632	2100	24.5	839	40.8	1399	49.0	1679	57.1	1958	65.3	2238	73.4	2518
	2.125	0.1842	1860	27.6	947	46.1	1579	55.3	1895	64.5	2210	73.7	2526	82.9	2842
W100L	2.250	0.2065	1660	31.0	1062	51.6	1770	62.0	2124	72.3	2478	82.6	2832	92.9	3186
	2.500	0.2550	1340	38.3	1311	63.8	2186	76.5	2623	89.3	3060	102.0	3497	114.8	3934
	2.750	0.3085	1110	46.3	1587	77.1	2644	92.6	3173	108.0	3702	123.4	4231	138.8	4760
	3.000	0.3672	930	55.1	1888	91.8	3147	110.2	3777	128.5	4406	146.9	5036	165.2	5665
	3.250	0.4309	790	64.6	2216	107.7	3693	129.3	4432	150.8	5171	172.4	5909	193.9	6648
3.375	0.4647	740	69.7	2390	116.2	3983	139.4	4780	162.6	5576	185.9	6373	209.1	7170	

Model (metric)	Plunger Diameter (in.)	Liters Per Revolution	Maximum Pressure BAR	150 RPM		250 RPM		300 RPM		350 RPM*		400 RPM		450 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
W100H	1.250	0.2410	345	36.2	2.2	60.3	3.6	72.3	4.3	84.4	5.1	96.4	5.8	108.5	6.5
	1.375	0.2917	306	43.8	2.6	72.9	4.4	87.5	5.3	102.1	6.1	116.7	7.0	131.3	7.9
	1.500	0.3474	257	52.1	3.1	86.8	5.2	104.2	6.3	121.6	7.3	138.9	8.3	156.3	9.4
	1.625	0.4075	219	61.1	3.7	101.9	6.1	122.3	7.3	142.6	8.6	163.0	9.8	183.4	11.0
	1.750	0.4726	189	70.9	4.3	118.2	7.1	141.8	8.5	165.4	9.9	189.0	11.3	212.7	12.8
W100M	1.625	0.4075	219	61.1	3.7	101.9	6.1	122.3	7.3	142.6	8.6	163.0	9.8	183.4	11.0
	1.750	0.4726	189	70.9	4.3	118.2	7.1	141.8	8.5	165.4	9.9	189.0	11.3	212.7	12.8
	1.875	0.5426	165	81.4	4.9	135.7	8.1	162.8	9.8	189.9	11.4	217.1	13.0	244.2	14.7
	2.000	0.6175	145	92.6	5.6	154.4	9.3	185.3	11.1	216.1	13.0	247.0	14.8	277.9	16.7
	2.125	0.6970	128	104.6	6.3	174.3	10.5	209.1	12.5	244.0	14.6	278.8	16.7	313.7	18.8
W100L	2.250	0.7814	114	117.2	7.0	195.3	11.7	234.4	14.1	273.5	16.4	312.6	18.8	351.6	21.1
	2.500	0.9649	92	144.7	8.7	241.2	14.5	289.5	17.4	337.7	20.3	386.0	23.2	434.2	26.1
	2.750	1.1674	77	175.1	10.5	291.8	17.5	350.2	21.0	408.6	24.5	466.9	28.0	525.3	31.5
	3.000	1.3895	64	208.4	12.5	347.4	20.8	416.8	25.0	486.3	29.2	555.8	33.3	625.3	37.5
	3.250	1.6305	54	244.6	14.7	407.6	24.5	489.2	29.3	570.7	34.2	652.2	39.1	733.7	44.0
3.375	1.7584	51	263.8	15.8	439.6	26.4	527.5	31.7	615.4	36.9	703.4	42.2	791.3	47.5	

*API Speed

General Notes

- Capacities shown are based on 100 percent volumetric efficiency. Actual capacities are lower, based on discharge pressure and fluid compressibility.
- API-674 and NACE-compliant designs are available; consult Weatherford for details and exceptions to these standards.
- For operation below 200 RPM, an auxiliary lubrication system is required.
- Standard plunger sizes are shown, however other sizes are available upon request.