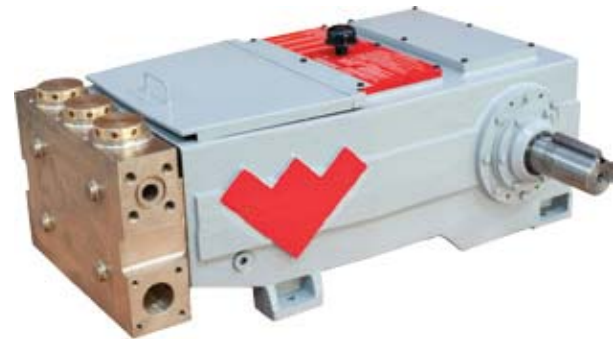


W100 Triplex Pump

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	200*	
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	1,454
W100M	3,100	1,409
W100L	3,150	1,432
Reducer	500	227
Mechanical efficiency	90%	

* can be reduced to 50 rpm with the addition of an auxiliary lube (slow speed) kit



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
 - 3.42:1
 - 4.27:1
 - 3.15:1
 - 3.89:1
 - 5.23:1
- Packing lubricators
- Customized plunger packing arrangements
- Complete pump packages
- Ported stuffing boxes and leak detection systems offered for H₂S or light fluids
- An internal or external auxiliary lube kit (slow speed kit) allows pump to be turned down to 50 rpm and is required for speeds below 200 rpm.

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

Applications

- Amine gas sweetening
- Methanol injection
- Water injection
- Chemical injection
- Glycol gas dehydration
- Light hydrocarbon transportation
- Crude transfer
- Polymer flood
- Produced water disposal
- Steam boiler feed
- Hydrostatic testing
- Ammonia
- Horizontal directional drilling
- Hot-oil truck injection

W100 Triplex Pump

Performance Ratings

Model (standard)	Plunger Diameter (in.)	Gallons Per Revolution	Rated Pressure PSI	200 RPM		250 RPM		300 RPM		350 RPM* API 674		400 RPM		450 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
W100H	1.250	0.0637	5,000	12.8	437	15.9	546	19.1	655	22.3	764	25.5	874	28.7	983
	1.375	0.0771	4,440	15.4	528	19.3	661	23.1	793	27.0	925	30.8	1,057	34.7	1,190
	1.500	0.0918	3,730	18.4	630	23.0	787	27.5	944	32.1	1,102	36.7	1,259	41.3	1,416
	1.625	0.1077	3,180	21.6	738	26.9	923	32.3	1,108	37.7	1,292	43.1	1,477	48.5	1,662
	1.750	0.1249	2,740	25.0	856	31.2	1,071	37.5	1,285	43.7	1,499	50.0	1,713	56.2	1,927
W100M	1.625	0.1077	3,180	21.6	738	26.9	923	32.3	1,108	37.7	1,292	43.1	1,477	48.5	1,662
	1.750	0.1249	2,740	25.0	856	31.2	1,071	37.5	1,285	43.7	1,499	50.0	1,713	56.2	1,927
	1.875	0.1434	2,390	28.7	984	35.9	1,229	43.0	1,475	50.2	1,721	57.4	1,967	64.5	2,212
	2.000	0.1632	2,100	32.6	1,119	40.8	1,399	49.0	1,679	57.1	1,958	65.3	2,238	73.4	2,518
	2.125	0.1842	1,860	36.8	1,263	46.1	1,579	55.3	1,895	64.5	2,210	73.7	2,526	82.9	2,842
W100L	2.250	0.2065	1,660	41.3	1,416	51.6	1,770	62.0	2,124	72.3	2,478	82.6	2,832	92.9	3,186
	2.500	0.2550	1,340	51.0	1,748	63.8	2,186	76.5	2,623	89.3	3,060	102.0	3,497	114.8	3,934
	2.750	0.3085	1,110	61.7	2,116	77.1	2,644	92.6	3,173	108.0	3,702	123.4	4,231	138.8	4,760
	3.000	0.3672	930	73.4	2,518	91.8	3,147	110.2	3,777	128.5	4,406	146.9	5,036	165.2	5,665
	3.250	0.4309	790	86.2	2,954	107.7	3,693	129.3	4,432	150.8	5,171	172.4	5,909	193.9	6,648
	3.375	0.4647	740	93.0	3,186	116.2	3,983	139.4	4,780	162.6	5,576	185.9	6,373	209.1	7,170

Model (metric)	Plunger Diameter (in.)	Litres Per Revolution	Maximum Pressure BAR	200 RPM		250 RPM		300 RPM		350 RPM* API 674		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	48.2	2.9	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	58.4	3.5	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	69.4	4.2	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	81.5	4.9	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	94.5	5.6	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	81.5	4.9	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	94.5	5.6	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	108.6	6.5	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	123.5	7.4	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	139.4	8.4	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	156.3	9.4	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	193.0	11.6	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	233.4	14.0	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	277.9	16.6	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	326.1	19.6	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	351.7	21.1	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 internal or external auxiliary lubrication system is required.
- Standard plunger sizes are shown, however other sizes are available upon request.