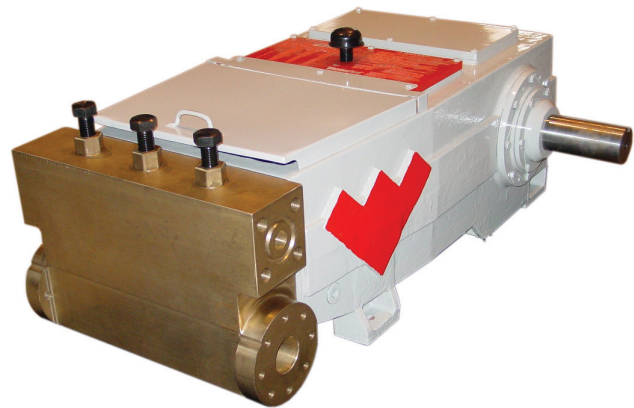




W100 Triplex Power Pump

Weatherford W100 triplex power pumps are offered with nickel-aluminum bronze, forged carbon steel or duplex stainless steel fluid cylinders. A variety of packing and valve arrangements are available to meet the requirements of any application. The critical components of the power end—crankshaft, connecting rods, crossheads and bearings—are comparatively larger than industry-standard components enabling them to withstand continuous-duty service and harsh operating conditions.



Applications

- Amine-gas sweetening
- Chemical injection
- Crude transfer
- Fracturing-fluid recovery
- Glycol-gas dehydration
- Horizontal directional drilling
- Hot-oil truck injection
- Hydrostatic testing
- Light-hydrocarbon transportation
- Methanol injection
- Municipal jetting
- Oil production
- Polymer flood
- Produced-water disposal
- Pulp and paper
- Reverse osmosis
- Secondary recovery
- Steam-boiler feed
- Steel mill descaling
- Water injection

Specifications

Rated power	100 HP
Stroke length (in./mm)	4.0 101.6
API-674 speed	350 rpm
Maximum speed	450 rpm
Minimum speed	200 rpm
Rated rod load (lb/kg)	6,595 2,991
Weight (lb/kg)	2,300 1,043
Oil capacity (gal/L)	5.5 20.8
Mechanical efficiency	90%



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Performance Ratings

Plunger size (in.)	Displacement (gal/rev)	Rated pressure (psi/MPa)	Cylinder rating	Rated capacity (gal/min, b/d)					
				200 rpm	250 rpm	300 rpm	350 rpm (API-674)	400 rpm	450 rpm
1.250	0.0637	5,000 34.5	H	12.7	15.9	19.1	22.3	25.5	28.7
				437	546	656	765	874	984
				15.4	19.3	23.1	27.0	30.9	34.7
				529	661	793	926	1,058	1,190
				18.4	22.9	27.5	32.1	36.7	41.3
1.375	0.0771	4,440 30.6	H	629	787	944	1,102	1,259	1,416
				21.5	26.9	32.3	37.7	43.1	48.5
				739	923	1,108	1,293	1,478	1,662
				25.0	31.2	37.5	43.7	50.0	56.2
				857	1,071	1,285	1,499	1,714	1,928
1.500	0.0918	3,730 25.7	H	21.5	26.9	32.3	37.7	43.1	48.5
				739	923	1,108	1,293	1,478	1,662
				25.0	31.2	37.5	43.7	50.0	56.2
				857	1,071	1,285	1,499	1,714	1,928
				28.7	35.9	43.0	50.2	57.4	64.5
1.625	0.1077	3,180 21.9	M	984	1,229	1,475	1,721	1,967	2,213
				32.6	40.8	49.0	57.1	65.3	73.4
				1,119	1,399	1,679	1,958	2,238	2,518
				36.8	46.1	55.3	64.5	73.7	82.9
				1,263	1,579	1,895	2,211	2,527	2,843
1.750	0.1249	2,740 18.9	M	41.3	51.6	62.0	72.3	82.6	92.9
				1,416	1,770	2,125	2,479	2,833	3,187
				51.0	63.7	76.5	89.2	102.0	114.7
				1,749	2,186	2,623	3,060	3,497	3,934
				61.7	77.1	92.6	108.0	123.4	138.8
1.875	0.1434	2,390 16.5	L	2,116	2,645	3,174	3,703	4,232	4,760
				73.4	91.8	110.2	128.5	146.9	165.2
				2,518	3,147	3,777	4,406	5,036	5,665
				86.2	107.7	129.3	150.8	172.4	193.9
				2,955	3,694	4,433	5,171	5,910	6,649
2.000	0.1632	2,100 14.5	L	92.9	116.2	139.4	162.7	185.9	209.1
				3,187	3,983	4,780	5,577	6,374	7,170
				86.2	107.7	129.3	150.8	172.4	193.9
				2,955	3,694	4,433	5,171	5,910	6,649
				92.9	116.2	139.4	162.7	185.9	209.1
2.125	0.1842	1,860 12.8	L	3,187	3,983	4,780	5,577	6,374	7,170
				86.2	107.7	129.3	150.8	172.4	193.9
				2,955	3,694	4,433	5,171	5,910	6,649
				92.9	116.2	139.4	162.7	185.9	209.1
				3,187	3,983	4,780	5,577	6,374	7,170
2.250	0.2065	1,660 11.4	L	3,187	3,983	4,780	5,577	6,374	7,170
				86.2	107.7	129.3	150.8	172.4	193.9
				2,955	3,694	4,433	5,171	5,910	6,649
				92.9	116.2	139.4	162.7	185.9	209.1
				3,187	3,983	4,780	5,577	6,374	7,170
2.500	0.2550	1,340 9.3	L	3,187	3,983	4,780	5,577	6,374	7,170
				86.2	107.7	129.3	150.8	172.4	193.9
				2,955	3,694	4,433	5,171	5,910	6,649
				92.9	116.2	139.4	162.7	185.9	209.1
				3,187	3,983	4,780	5,577	6,374	7,170
2.750	0.3085	1,110 7.7	L	3,187	3,983	4,780	5,577	6,374	7,170
				86.2	107.7	129.3	150.8	172.4	193.9
				2,955	3,694	4,433	5,171	5,910	6,649
				92.9	116.2	139.4	162.7	185.9	209.1
				3,187	3,983	4,780	5,577	6,374	7,170
3.000	0.3672	930 6.4	L	3,187	3,983	4,780	5,577	6,374	7,170
				86.2	107.7	129.3	150.8	172.4	193.9
				2,955	3,694	4,433	5,171	5,910	6,649
				92.9	116.2	139.4	162.7	185.9	209.1
				3,187	3,983	4,780	5,577	6,374	7,170
3.250	0.4309	790 5.5	L	3,187	3,983	4,780	5,577	6,374	7,170
				86.2	107.7	129.3	150.8	172.4	193.9
				2,955	3,694	4,433	5,171	5,910	6,649
				92.9	116.2	139.4	162.7	185.9	209.1
				3,187	3,983	4,780	5,577	6,374	7,170
3.375	0.4647	740 5.1	L	3,187	3,983	4,780	5,577	6,374	7,170
				86.2	107.7	129.3	150.8	172.4	193.9
				2,955	3,694	4,433	5,171	5,910	6,649
				92.9	116.2	139.4	162.7	185.9	209.1
				3,187	3,983	4,780	5,577	6,374	7,170

1. Capacities shown are based on 100% volumetric efficiency. Actual capacities are lower, based on discharge pressure and fluid compressibility.
2. Operating power required by the pump is calculated by the formula: HP = (psi × gal/min) / 1,543, where psi is the actual operating pressure in psi units, and gal/min is the actual pumping capacity.
3. API-674 and NACE-compliant designs are available upon request. Contact a Weatherford representative for specific details and exceptions to these standards.
4. Standard plunger sizes are shown, however, other sizes are available upon request. Contact a Weatherford representative for performance and pressure ratings.
5. Contact a Weatherford representative for assistance with pump selection on applications where actual operating inlet pressures are greater than 10% of the rated discharge pressure of the selected pump model.
6. For operation below 200 rpm, an auxiliary power end lubrication system is required.

Technical support

pumps@weatherford.com
weatherford.com/pumps
+1-281-252-7867