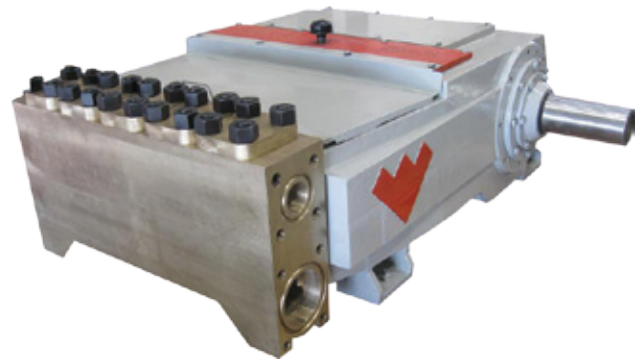




W300 Quintuplex Power Pump

Weatherford's W300 triplex power pumps are offered with fluid cylinders of nickel-aluminum bronze, forged carbon steel or duplex stainless steel. 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	300 HP
Stroke length (in./mm)	5.0 127.0
API-674 speed	310 rpm
Maximum speed	400 rpm
Minimum speed	100 rpm
Rated rod load (lb/kg)	10,700 4,853
Weight (lb/kg)	H: 6840 (3,103) M: 6750 (3,062) L: 7000 (3,175)
Oil capacity (gal/L)	12.0 46.0
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)					
				100 rpm	200 rpm	250 rpm	310 rpm (API-674)	350 rpm	400 rpm
1.500	0.1912	5,000	H	19.1	38.2	47.8	59.3	66.9	76.5
		34.5		656	1,311	1,639	2,033	2,295	2,623
1.625	0.2245	5,000		22.4	44.9	56.1	69.6	78.6	89.8
		34.5		770	1,539	1,924	2,386	2,693	3,078
1.750	0.2603	4,450		26.0	52.1	65.1	80.7	91.1	104.1
		30.7		892	1,785	2,231	2,767	3,124	3,570
1.875	0.2988	3,880		29.9	59.8	74.7	92.6	104.6	119.5
		26.8		1,025	2,049	2,561	3,176	3,586	4,098
2.000	0.3400	3,410		34.0	68.0	85.0	105.4	119.0	136.0
		23.5		1,166	2,331	2,914	3,614	4,080	4,663
2.000	0.3400	3,000		34.0	68.0	85.0	105.4	119.0	136.0
		20.7		1,166	2,331	2,914	3,614	4,080	4,663
2.125	0.3838	3,000	38.4	76.8	96.0	119.0	134.3	153.5	
		20.7	1,316	2,632	3,290	4,080	4,606	5,264	
2.250	0.4303	2,690	43.0	86.1	107.6	133.4	150.6	172.1	
		18.5	1,475	2,951	3,688	4,574	5,164	5,901	
2.375	0.4795	2,420	47.9	95.9	119.9	148.6	167.8	191.8	
		16.7	1,644	3,288	4,110	5,096	5,753	6,575	
2.500	0.5312	2,180	53.1	106.2	132.8	164.7	185.9	212.5	
		15.0	1,821	3,643	4,554	5,646	6,375	7,286	
2.750	0.6428	1,800	64.3	128.6	160.7	199.3	225.0	257.1	
		12.4	2,204	4,408	5,510	6,832	7,714	8,816	
2.750	0.6428	1,800	64.3	128.6	160.7	199.3	225.0	257.1	
		12.4	2,204	4,408	5,510	6,832	7,714	8,816	
3.000	0.7650	1,510	76.5	153.0	191.2	237.1	267.7	306.0	
		10.4	2,623	5,246	6,557	8,131	9,180	10,491	
3.250	0.8978	1,290	89.8	179.6	224.5	278.3	314.2	359.1	
		8.9	3,078	6,156	7,696	9,542	10,774	12,313	
3.500	1.0412	1,110	104.1	208.2	260.3	322.8	364.4	416.5	
		7.7	3,570	7,140	8,925	11,067	12,495	14,280	
3.750	1.1953	970	119.5	239.1	298.8	370.5	418.4	478.1	
		6.7	4,098	8,196	10,246	12,704	14,344	16,393	
4.000	1.3600	850	136.0	272.0	340.0	421.6	476.0	544.0	
		5.9	4,663	9,326	11,657	14,455	16,320	18,651	

General Notes

- Capacities shown are based on 100% volumetric efficiency. Actual capacities are lower, based on discharge pressure and fluid compressibility.
- Operating power required by the pump is calculated by the formula: $HP = (\text{psi} \times \text{gal/min}) / 1,543$, where psi is the actual operating pressure in psi units, and gal/min is the actual pumping capacity.
- API-674 and NACE-compliant designs are available upon request. Contact a Weatherford representative for specific details and exceptions to these standards.
- Standard plunger sizes are shown, however, other sizes are available upon request. Contact a Weatherford representative for performance and pressure ratings.
- 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.
- For operation below 200 rpm, an auxiliary power end lubrication system is required.

Technical support

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