

## W300 Quintuplex Pump

### Pump Specifications

Rated (HP, kW)	300	224
Stroke length (in., mm)	5	127
Maximum discharge pressure (PSI, Bar)		
W300H	5,000	345
W300M	3,000	207
W300L	1,650	114
Rated rod load (lb, kg)	10,700	4,853
API-674 speed, RPM	310	
Maximum speed, RPM	400	
Minimum speed, RPM	100*	
Crankshaft dimensions (in., mm)		
Diameter	4.875	124
Length (long)	11.62	295
Length (short)	5.62	143
Keyway, width × depth (in., mm)	1.25 × .62	32 × 16
Oil capacity (gal, l)		
Pump	12	46
Reducer (varies with ratio)	3.5 to 6.5	13 to 25
Weight (lb, kg); estimates only		
Pump		
W300H	6,840	3,103
W300M	6,750	3,062
W300L	7,000	3,175
Reducer	1,100	499
Mechanical efficiency	90%	

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

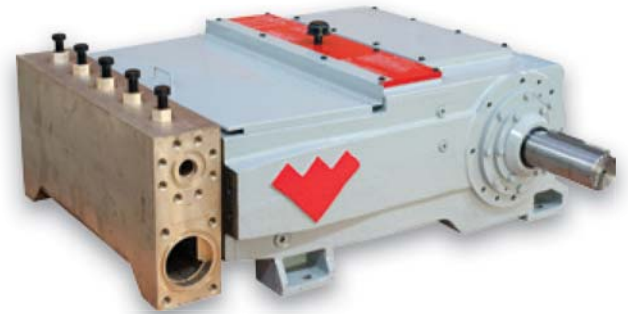
### Flange Connections

Pump Model	Discharge Connection Sizes (in., mm)	Suction Connection Sizes (in., mm)
W300H	2 (50.8) ANSI 2500 RJ	6 (152.4) NSD 600 RJ*
W300M	3 (76.2) NSD 5000 RJ*	6 (152.4) NSD 600 RJ*
W300L	4 (101.6) API 2000 RJ	8 (203.2) ANSI 150 FF

\*One blind and one weld neck flange provided

### 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



### 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
- Packing lubricators
- Customized plunger packing arrangements
- Complete pump packages
- Ported stuffing boxes and leak detection systems offered for H<sub>2</sub>S 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 100 rpm.

## W300 Quintuplex Pump

### Performance Ratings

Model (standard)	Plunger Diameter (in.)	Gallons Per Revolution	Maximum Pressure PSI	100 RPM		150 RPM		200 RPM		310 RPM*(API 674)		350 RPM		400 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
W300H	1.500	0.1912	5,000	19.1	656	28.7	984	38.2	1,311	59.3	2,033	66.9	2,295	76.5	2,623
	1.625	0.2245	5,000	22.4	770	33.7	1,154	44.9	1,539	69.6	2,386	78.6	2,693	89.8	3,078
	1.750	0.2603	4,450	26.0	892	39.0	1,339	52.1	1,785	80.7	2,767	91.1	3,124	104.1	3,570
	1.875	0.2988	3,880	29.9	1,025	44.8	1,537	59.8	2,049	92.6	3,176	104.6	3,586	119.5	4,098
	2.000	0.3400	3,410	34.0	1,166	51.0	1,749	68.0	2,331	105.4	3,614	119.0	4,080	136.0	4,663
W300M	2.000	0.3400	3,000	34.0	1,166	51.0	1,749	68.0	2,331	105.4	3,614	119.0	4,080	136.0	4,663
	2.125	0.3838	3,000	38.4	1,316	57.6	1,974	76.8	2,632	119.0	4,080	134.3	4,606	153.5	5,264
	2.250	0.4303	2,690	43.0	1,475	64.5	2,213	86.1	2,951	133.4	4,574	150.6	5,164	172.1	5,901
	2.375	0.4795	2,420	47.9	1,644	71.9	2,466	95.9	3,288	148.6	5,096	167.8	5,753	191.8	6,575
	2.500	0.5312	2,180	53.1	1,821	79.7	2,732	106.2	3,643	164.7	5,646	185.9	6,375	212.5	7,286
W300L	2.750	0.6428	1,800	64.3	2,204	96.4	3,306	128.6	4,408	199.3	6,832	225.0	7,714	257.1	8,816
	2.750	0.6428	1,650	64.3	2,204	96.4	3,306	128.6	4,408	199.3	6,832	225.0	7,714	257.1	8,816
	3.000	0.7650	1,510	76.5	2,623	114.7	3,934	153.0	5,246	237.1	8,131	267.7	9,180	306.0	10,491
	3.250	0.8978	1,290	89.8	3,078	134.7	4,617	179.6	6,156	278.3	9,542	314.2	10,774	359.1	12,313
	3.500	1.0412	1,110	104.1	3,570	156.2	5,355	208.2	7,140	322.8	11,067	364.4	12,495	416.5	14,280
	3.750	1.1953	970	119.5	4,098	179.3	6,147	239.1	8,196	370.5	12,704	418.4	14,344	478.1	16,393
	4.000	1.3600	850	136.0	4,663	204.0	6,994	272.0	9,326	421.6	14,455	476.0	16,320	544.0	18,651

Model (metric)	Plunger Diameter (in.)	Litres Per Revolution	Maximum Pressure BAR	100 RPM		150 RPM		200 RPM		310 RPM*(API 674)		350 RPM		400 RPM	
				LPM	M <sup>3</sup> /hr	LPM	M <sup>3</sup> /hr	LPM	M <sup>3</sup> /hr	LPM	M <sup>3</sup> /hr	LPM	M <sup>3</sup> /hr	LPM	M <sup>3</sup> /hr
W300H	1.500	0.7239	345	72.4	4.3	108.6	6.5	144.8	8.7	224.4	13.5	253.4	15.2	289.6	17.4
	1.625	0.8495	345	85.0	5.1	127.4	7.6	169.9	10.2	263.3	15.8	297.3	17.8	339.8	20.4
	1.750	0.9853	307	98.5	5.9	147.8	8.9	197.1	11.8	305.4	18.3	344.9	20.7	394.1	23.6
	1.875	1.1310	268	113.1	6.8	169.7	10.2	226.2	13.6	350.6	21.0	395.9	23.8	452.4	27.1
	2.000	1.2869	235	128.7	7.7	193.0	11.6	257.4	15.4	398.9	23.9	450.4	27.0	514.8	30.9
W300M	2.000	1.2869	207	128.7	7.7	193.0	11.6	257.4	15.4	398.9	23.9	450.4	27.0	514.8	30.9
	2.125	1.4527	207	145.3	8.7	217.9	13.1	290.5	17.4	450.3	27.0	508.4	30.5	581.1	34.9
	2.250	1.6287	185	162.9	9.8	244.3	14.7	325.7	19.5	504.9	30.3	570.0	34.2	651.5	39.1
	2.375	1.8147	167	181.5	10.9	272.2	16.3	362.9	21.8	562.6	33.8	635.1	38.1	725.9	43.6
	2.500	2.0108	150	201.1	12.1	301.6	18.1	402.2	24.1	623.3	37.4	703.8	42.2	804.3	48.3
W300L	2.750	2.4330	124	243.3	14.6	365.0	21.9	486.6	29.2	754.2	45.3	851.6	51.1	973.2	58.4
	2.750	2.4330	114	243.3	14.6	365.0	21.9	486.6	29.2	754.2	45.3	851.6	51.1	973.2	58.4
	3.000	2.8955	104	289.6	17.4	434.3	26.1	579.1	34.7	897.6	53.9	1,013.4	60.8	1,153.2	69.5
	3.250	3.3982	89	339.8	20.4	509.7	30.6	679.6	40.8	1,053.4	63.2	1,189.4	71.4	1,359.3	81.6
	3.500	3.9411	77	394.1	23.6	591.2	35.5	788.2	47.3	1,221.7	73.3	1,379.4	82.8	1,576.4	94.6
	3.750	4.5243	67	452.4	27.1	678.6	40.7	904.9	54.3	1,402.5	84.2	1,583.5	95.0	1,809.7	108.6
	4.000	5.1476	59	514.8	30.9	772.1	46.3	1,029.5	61.8	1,595.8	95.7	1,801.7	108.1	2,059.0	123.5

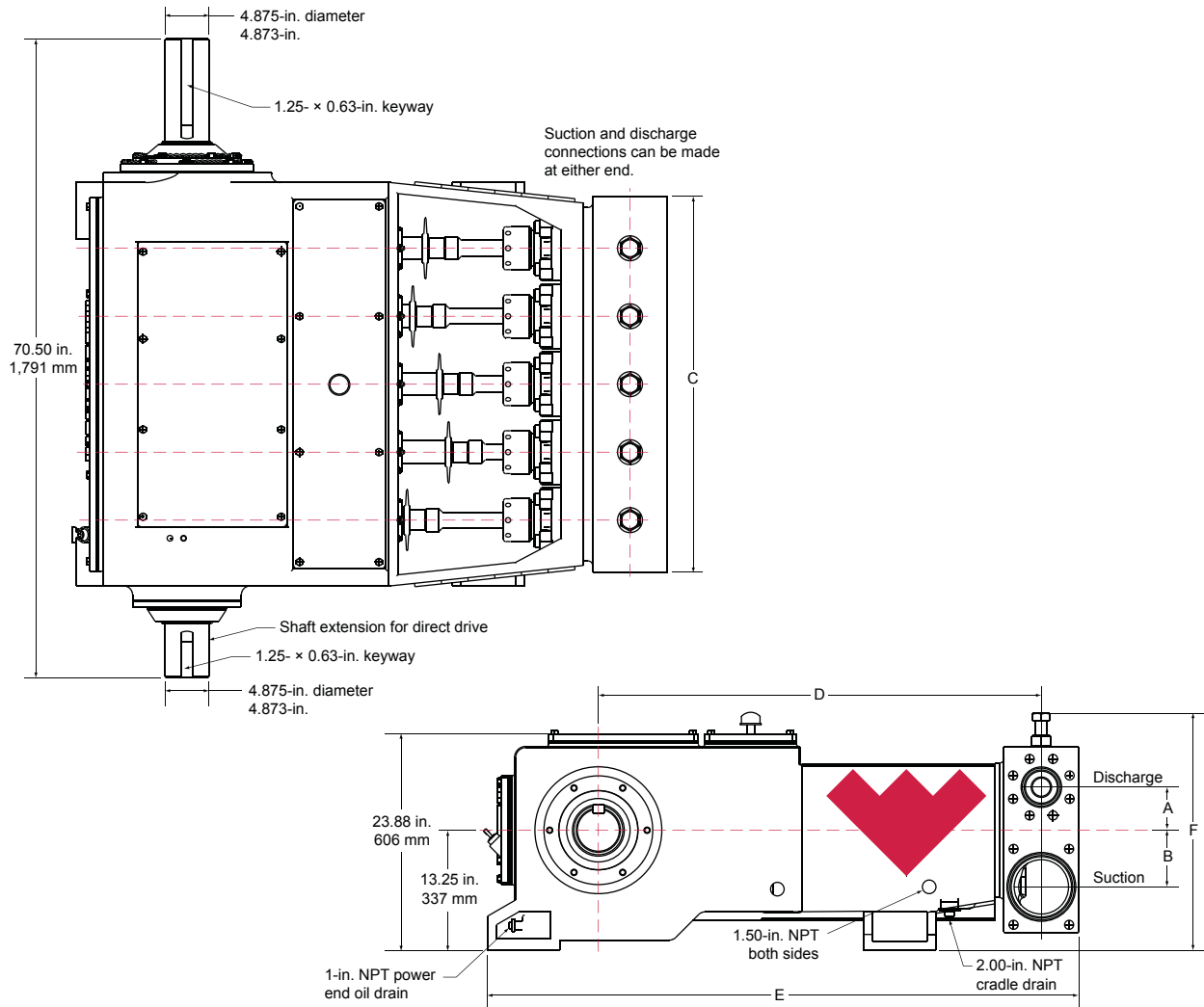
\*API Speed

#### 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 100 RPM, an internal or external auxiliary lubrication system is required.
- Standard plunger sizes are shown, however other sizes are available upon request.
- Spherical valves must be installed when using 4.00 in. plungers.

## W300 Quintuplex Pump

### General Dimensions (sizing dimensions not for construction purposes)



Pump Model	Flange Connections (in./mm)		Dimensions (in./mm)					
	Discharge Connection Sizes	Suction Connection Sizes	A	B	C	D	E	F
W300L	4 (101.6) API-2000 RJ	8 (203.2) ANSI-150 FF	6.25 159	9.12 232	43.25 1,099	49.00 1,245	68.00 1,727	25.12 638
W300M	3 (76.2) NSD-5000 RJ	6 (152.4) NSD-600 RJ	4.50 114	6.50 165	41.50 1,054	48.62 1,235	65.00 1,651	25.44 646
W300H	2 (50.8) ANSI-2500 RJ	6 (152.4) NSD-600 RJ	4.50 114	6.50 165	41.50 1,054	48.62 1,235	65.12 1,654	25.62 651