



W375 Quintuplex Pump

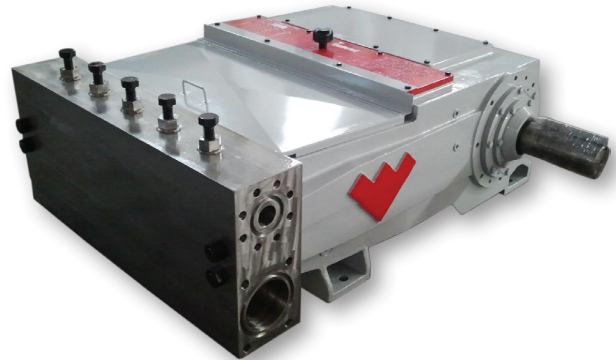
Pump Specifications

Rated (HP, kW)	415	309
Stroke length (in., mm)	5	127
Maximum discharge pressure (psi, bar)		
W375H	5,000	345
W375M	3,020	208
W375L	1,660	114
Rated rod load (lb, kg)	14,838	6,730
API-674 speed (rpm)	310	
Maximum speed (rpm)	400	
Minimum speed (rpm)	50	
Crankshaft dimensions (in., mm)		
Diameter	4.875	124
Length (long)	11.69	297
Length (short)	5.62	143
Keyway, width × depth (in., mm)	1.25 × .62	32 × 16
Oil capacity (gal, l)		
Pump	14	53
Reducer (varies with ratio)	3.5 to 6.5	13 to 25
Estimated weight (lb, kg)		
Pump		
W375H	7,010	3,186
W375M	7,060	3,209
W375L	7,150	3,250
Reducer	1,100	499
Mechanical efficiency	90%	

Flange Connections

Pump Model	Discharge Connection Sizes (in., mm)	Suction Connection Sizes (in., mm)
W375H	2 (50.8) ANSI 2500 RJ	6 (152.4) NSD 600 RJ*
W375M	3 (76.2) NSD 5000 RJ*	6 (152.4) NSD 600 RJ*
W375L	4 (101.6) API 2000 RJ	8 (203.2) ANSI 150 FF

*One blind and one weld neck flange provided



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)
 - 2.27:1 – 3.36:1 – 4.84:1
 - 2.89:1 – 3.69:1 – 5.56:1
 - 3.25:1 – 4.38:1
- Packing lubricators
- Customized plunger packing arrangements
- Complete pump packages

Technical Support

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Performance Ratings

Model (standard)	Plunger Diameter (in.)	Gallons Per Revolution	Maximum Pressure PSI	100 RPM		150 RPM		200 RPM		310 RPM*		350 RPM		400 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
W375H	1.875	0.2988	5,000	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	4,720	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	4,180	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	3,730	43.0	1,475	64.5	2,213	86.1	2,951	133.4	4,574	150.6	5,164	172.1	5,901
W375M	2.500	0.5312	3,020	53.1	1,821	79.7	2,732	106.2	3,643	164.7	5,646	185.9	6,375	212.5	7,286
	2.750	0.6428	2,500	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	2,100	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	1,790	89.8	3,078	134.7	4,617	179.6	6,156	278.3	9,542	314.2	10,774	359.1	12,313
W375L	3.375	0.9682	1,660	96.8	3,320	145.2	4,979	193.6	6,639	300.1	10,291	338.9	11,618	387.3	13,278
	3.500	1.0412	1,540	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	1,340	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	1,180	136.0	4,663	204.0	6,994	272.0	9,326	421.6	14,455	476.0	16,320	544.0	18,651
	4.250	1.5353	1,050	153.5	5,264	230.3	7,896	307.1	1,0528	475.9	16,318	537.4	18,424	614.1	21,056
	4.500	1.7212	930	172.1	5,901	258.2	8,852	344.2	1,1803	533.6	18,294	602.4	20,655	688.5	23,606

Model (metric)	Plunger Diameter (in.)	Liters Per Revolution	Maximum Pressure BAR	100 RPM		150 RPM		200 RPM		310 RPM*		350 RPM		400 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
W375H	1.875	1.1311	370	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	325	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	1.4528	288	145.3	8.7	217.9	13.1	290.6	17.4	450.4	27.0	508.5	30.5	581.1	34.9
	2.250	1.6287	257	162.9	9.8	244.3	14.7	325.7	19.5	504.9	30.3	570.1	34.2	651.5	39.1
W375M	2.500	2.0108	208	201.1	12.1	301.6	18.1	402.2	24.1	623.3	37.4	703.8	42.2	804.3	48.3
	2.750	2.4330	172	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	145	289.6	17.4	434.3	26.1	579.1	34.7	897.6	53.9	1,013.4	60.8	1,158.2	69.5
	3.250	3.3982	123	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
W375L	3.375	3.6646	114	366.5	22.0	549.7	33.0	732.9	44.0	1,136.0	68.2	1,282.6	77.0	1,465.9	88.0
	3.500	3.9411	106	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	4.5242	93	452.4	27.1	678.6	40.7	904.8	54.3	1,402.5	84.2	1,583.5	95.0	1,809.7	108.6
	4.000	5.1476	81	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
	4.250	5.8111	72	581.1	34.9	871.7	52.3	1,162.2	69.7	1,801.5	108.1	2,033.9	122.0	2,324.5	139.5
	4.500	6.5149	64	651.5	39.1	977.2	58.6	1,303.0	78.2	2,019.6	121.2	2,280.2	136.8	2,606.0	156.4

*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.
- Standard plunger sizes are shown, however, other sizes are available upon request.
- A 4-GPM filtered power end lube system is required. The internal plumbing is included with the pump. Weatherford offers two optional systems, external electric driven and internal change driven.