

Q375 Quintuplex Pump

Pump Specifications

Rated (HP, kW)	415	309
Stroke length (in., mm)	5	127
Maximum discharge pressure (PSI, Bar)		
Q375H	5,000	345
Q375M	3,020	208
Q375L	1,660	114
Rated rod load (lb, kg)	14,838	6,730
API-674 speed, RPM	310	
Maximum speed, RPM	400	
Minimum speed, RPM	100	
Crankshaft dimensions (in., mm)		
Diameter	4.875	124
Length (long)	11.69	297
Length (short)	5.62	143
Keyway, width x depth (in., mm)	1.25 x .62	32 x 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		
Q375H	7,010	3,186
Q375M	7,060	3,209
Q375L	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)
Q375H	2 (50.8) ANSI 2500 RJ	6 (152.4) NSD 600 RJ*
Q375M	3 (76.2) NSD 5000 RJ*	6 (152.4) NSD 600 RJ*
Q375L	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
- Power end lube system

Optional Accessories

- Yalong 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
Q375H	1.875	0.2988	5,000	29.9	1025	44.8	1537	59.8	2049	92.6	3176	104.6	3586	119.5	4098
	2.000	0.3400	4,720	34.0	1166	51.0	1749	68.0	2331	105.4	3614	119.0	4080	136.0	4663
	2.125	0.3838	4,180	38.4	1316	57.6	1974	76.8	2632	119.0	4080	134.3	4606	153.5	5264
	2.250	0.4303	3,730	43.0	1475	64.5	2213	86.1	2951	133.4	4574	150.6	5164	172.1	5901
Q375M	2.500	0.5312	3,020	53.1	1821	79.7	2732	106.2	3643	164.7	5646	185.9	6375	212.5	7286
	2.750	0.6428	2,500	64.3	2204	96.4	3306	128.6	4408	199.3	6832	225.0	7714	257.1	8816
	3.000	0.7650	2,100	76.5	2623	114.7	3934	153.0	5246	237.1	8131	267.7	9180	306.0	10491
	3.250	0.8978	1,790	89.8	3078	134.7	4617	179.6	6156	278.3	9542	314.2	10774	359.1	12313
Q375L	3.375	0.9682	1,660	96.8	3320	145.2	4979	193.6	6639	300.1	10291	338.9	11618	387.3	13278
	3.500	1.0412	1,540	104.1	3570	156.2	5355	208.2	7140	322.8	11067	364.4	12495	416.5	14280
	3.750	1.1953	1,340	119.5	4098	179.3	6147	239.1	8196	370.5	12704	418.4	14344	478.1	16393
	4.000	1.3600	1,180	136.0	4663	204.0	6994	272.0	9326	421.6	14455	476.0	16320	544.0	18651
	4.250	1.5353	1,050	153.5	5264	230.3	7896	307.1	10528	475.9	16318	537.4	18424	614.1	21056
	4.500	1.7212	930	172.1	5901	258.2	8852	344.2	11803	533.6	18294	602.4	20655	688.5	23606

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 /h	LPM	M ³ /h	LPM	M ³ /hr	LPM	M ³ /hr	LPM	M ³ /h	LPM	M ³ /hr
Q375H	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
Q375M	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	1013.4	60.8	1158.2	69.5
	3.250	3.3982	123	339.8	20.4	509.7	30.6	679.6	40.8	1053.6	63.2	1189.4	71.4	1359.3	81.6
Q375L	3.375	3.6646	114	366.5	22.0	549.7	33.0	732.9	44.0	1136.6	68.2	1282.6	77.0	1465.9	88.0
	3.500	3.9411	106	394.1	23.6	591.2	35.5	788.2	47.3	1221.1	73.3	1379.4	82.8	1576.4	94.6
	3.750	4.5242	93	452.4	27.1	678.6	40.7	904.8	54.3	1402.1	84.2	1583.5	95.0	1809.7	108.6
	4.000	5.1476	81	514.8	30.9	772.1	46.3	1029.5	61.8	1595.1	95.7	1801.7	108.1	2059.0	123.5
	4.250	5.8111	72	581.1	34.9	871.7	52.3	1162.2	69.7	1801.1	108.1	2033.9	122.0	2324.5	139.5
	4.500	6.5149	64	651.5	39.1	977.2	58.6	1303.0	78.2	2019.1	121.2	2280.2	136.8	2606.0	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 Yalong for details and exceptions to these standards.
- Standard plunger sizes are shown, however other sizes are available upon request.