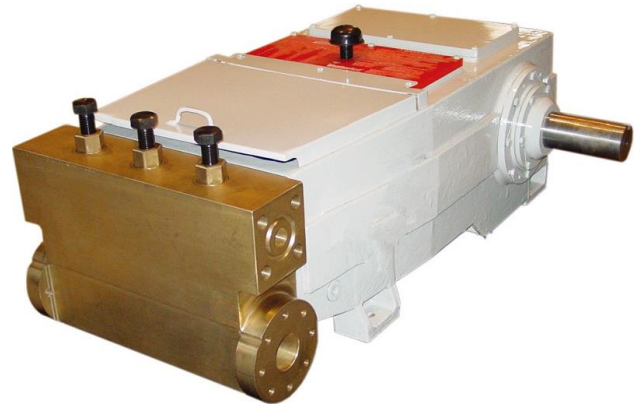


# 100T Triplex Power Pump

Yalong 100T 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%



# 100T Triplex Power Pump

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

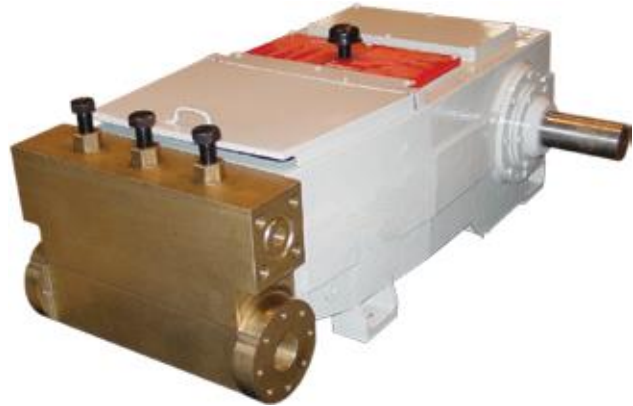
1. Capacities shown are based on 100% volumetric efficiency. Actual capacities are lower, based on discharge pressure and fluid compressibility.
2. Operating power required by the pump is calculated by the formula:  $HP = (\text{psi} \times \text{gal/min}) / 1,543$ , where psi is the actual operating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

Sales@jspump.com  
pumps-api674.com  
+86-13951858681

# 130T Triplex Power Pump

Yalong's 130T 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	130 HP
Stroke length (in./mm)	4.0 101.6
API-674 speed	350 rpm
Maximum speed	450 rpm
Minimum speed	150 rpm
Rated rod load (lb/kg)	8,590 3,896
Weight (lb/kg)	2,360 1,070
Oil capacity (gal/L)	5.5 20.8
Mechanical efficiency	90%



# 130T Triplex Power Pump

## Performance Ratings

Plunger Size (in.)	Displacement (gal/rev)	Rated Pressure (psi/mPa)	Cylinder Rating	Rated Capacity (gal/min, b/d)					
				150 rpm	250 rpm	300 rpm	350 rpm (API-674)	400 rpm	450 rpm
1.375	0.0771	5,000	H	11.6	19.3	23.1	27.0	30.9	34.7
		34.5		397	661	793	926	1,058	1,190
1.500	0.0918	4,860		13.8	22.9	27.5	32.1	36.7	41.3
		33.5		472	787	944	1,102	1,259	1,416
1.625	0.1077	4,140		16.2	26.9	32.3	37.7	43.1	48.5
		28.5		554	923	1,108	1,293	1,478	1,662
1.750	0.1249	3,570	18.7	31.2	37.5	43.7	50.0	56.2	
		24.6	643	1,071	1,285	1,499	1,714	1,928	
1.875	0.1434	3,110	21.5	35.9	43.0	50.2	57.4	64.5	
		21.4	738	1,229	1,475	1,721	1,967	2,213	
2.000	0.1632	2,730	24.5	40.8	49.0	57.1	65.3	73.4	
		18.8	839	1,399	1,679	1,958	2,238	2,518	
2.125	0.1842	2,420	27.6	46.1	55.3	64.5	73.7	82.9	
		16.7	948	1,579	1,895	2,211	2,527	2,843	
2.250	0.2065	2,160	31.0	51.6	62.0	72.3	82.6	92.9	
		14.9	1,062	1,770	2,125	2,479	2,833	3,187	
2.375	0.2301	1,940	34.5	57.5	69.0	80.5	92.1	103.6	
		13.4	1,184	1,973	2,367	2,762	3,156	3,551	
2.500	0.2550	1,750	38.2	63.7	76.5	89.2	102.0	114.7	
		12.1	1,311	2,186	2,623	3,060	3,497	3,934	
2.625	0.2811	1,590	42.2	70.3	84.3	98.4	112.5	126.5	
		11.0	1,446	2,410	2,892	3,374	3,856	4,338	
2.750	0.3085	1,450	46.3	77.1	92.6	108.0	123.4	138.8	
		10.0	1,587	2,645	3,174	3,703	4,232	4,760	
3.000	0.3672	1,220	55.1	91.8	110.2	128.5	146.9	165.2	
		8.4	1,888	3,147	3,777	4,406	5,036	5,665	
3.250	0.4309	1,040	64.6	107.7	129.3	150.8	172.4	193.9	
		7.2	2,216	3,694	4,433	5,171	5,910	6,649	
3.500	0.4998	890	75.0	124.9	149.9	174.9	199.9	224.9	
		6.1	2,570	4,284	5,141	5,998	6,854	7,711	
3.625	0.5361	830	80.4	134.0	160.8	187.6	214.5	241.3	
		5.7	2,757	4,595	5,515	6,434	7,353	8,272	

### General Notes

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:  $HP = (\text{psi} \times \text{gal/min}) / 1,543$ , where psi is the actual operating pressure in psi units, and gal/min is the actual pumping capacity.
3. API-674 and NACE-compliant designs are available upon request. Contact a Yalong representative for specific details and exceptions to these standards.
4. Standard plunger sizes are shown, however, other sizes are available upon request. Contact a Yalong representative for performance and pressure ratings.
5. Contact a Yalong 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

Sales@jspump.com  
 pumps-api674.com  
 +86-13951858681

# 165T Triplex Power Pump

YALONG's 165T 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	165 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)	9,800 4,445
Weight (lb/kg)	4,000 1,814
Oil capacity (gal/L)	8.0 30.3
Mechanical efficiency	90%



# 165T Triplex Power Pump

## 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	0.1147	5,000	H	11.5	22.9	28.7	35.6	40.2	45.9
		34.5		393	787	984	1,220	1,377	1,574
1.625	0.1347	4,730		13.5	26.9	33.7	41.7	47.1	53.9
		32.6		462	923	1,154	1,431	1,616	1,847
1.750	0.1562	4,070		15.6	31.2	39.0	48.4	54.7	62.5
		28.1		535	1,071	1,339	1,660	1,874	2,142
1.875	0.1793	3,550		17.9	35.9	44.8	55.6	62.8	71.7
		24.5		615	1,229	1,537	1,906	2,152	2,459
2.000	0.2040	3,120		20.4	40.8	51.0	63.2	71.4	81.6
		21.5		699	1,399	1,749	2,168	2,448	2,798
2.000	0.2040	3,120		20.4	40.8	51.0	63.2	71.4	81.6
		21.5		699	1,399	1,749	2,168	2,448	2,798
2.125	0.2303	2,760	23.0	46.1	57.6	71.4	80.6	92.1	
		19.0	790	1,579	1,974	2,448	2,764	3,158	
2.250	0.2582	2,460	25.8	51.6	64.5	80.0	90.4	103.3	
		17.0	885	1,770	2,213	2,744	3,098	3,541	
2.375	0.2877	2,210	28.8	57.5	71.9	89.2	100.7	115.1	
		15.2	986	1,973	2,466	3,058	3,452	3,945	
2.500	0.3187	2,000	31.9	63.7	79.7	98.8	111.6	127.5	
		13.8	1,093	2,186	2,732	3,388	3,825	4,371	
2.625	0.3514	1,810	35.1	70.3	87.9	108.9	123.0	140.6	
		12.5	1,205	2,410	3,012	3,735	4,217	4,819	
2.750	0.3857	1,650	38.6	77.1	96.4	119.6	135.0	154.3	
		11.4	1,322	2,645	3,306	4,099	4,628	5,289	
2.750	0.3857	1,650	38.6	77.1	96.4	119.6	135.0	154.3	
		11.4	1,322	2,645	3,306	4,099	4,628	5,289	
3.000	0.4590	1,390	45.9	91.8	114.7	142.3	160.6	183.6	
		9.6	1,574	3,147	3,934	4,879	5,508	6,295	
3.250	0.5387	1,180	53.9	107.7	134.7	167.0	188.5	215.5	
		8.1	1,847	3,694	4,617	5,725	6,464	7,388	
3.500	0.6247	1,020	62.5	124.9	156.2	193.7	218.7	249.9	
		7.0	2,142	4,284	5,355	6,640	7,497	8,568	
3.750	0.7172	890	71.7	143.4	179.3	222.3	251.0	286.9	
		6.1	2,459	4,918	6,147	7,623	8,606	9,836	
4.000	0.8160	780	81.6	163.2	204.0	253.0	285.6	326.4	
		5.4	2,798	5,595	6,994	8,673	9,792	11,191	

### General Notes

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:  $HP = (psi \times gal/min) / 1,543$ , 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 Yalong representative for specific details and exceptions to these standards.
4. Standard plunger sizes are shown, however, other sizes are available upon request. Contact a Yalong representative for performance and pressure ratings.
5. Contact a Yalong 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

Sales@jspump.com  
 pumps-api674.com  
 +86-13951858681

# 200T Triplex Power Pump

Yalong's T200 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	200 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)	11,870 5,384
Weight (lb/kg)	4,486 2,035
Oil capacity (gal/L)	8.0 30.3
Mechanical efficiency	90%



# 200T Triplex Power Pump

## 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
1.250	0.0797	5,000 34.5	H	8.0	15.9	19.9	24.7	27.9	31.9
				273	546	683	847	956	1,093
1.375	0.0964	5,000 34.5		9.6	19.3	24.1	29.9	33.7	38.6
				331	661	826	1,025	1,157	1,322
1.500	0.1147	5,000 34.5		11.5	22.9	28.7	35.6	40.2	45.9
				393	787	984	1,220	1,377	1,574
1.625	0.1347	5,000 34.5		13.5	26.9	33.7	41.7	47.1	53.9
				462	923	1,154	1,431	1,616	1,847
1.750	0.1562	4,930 34.0		15.6	31.2	39.0	48.4	54.7	62.5
				535	1,071	1,339	1,660	1,874	2,142
1.875	0.1793	4,300 29.6	17.9	35.9	44.8	55.6	62.8	71.7	
			615	1,229	1,537	1,906	2,152	2,459	
2.000	0.2040	3,780 26.1	20.4	40.8	51.0	63.2	71.4	81.6	
			699	1,399	1,749	2,168	2,448	2,798	
2.000	0.2040	3,780 26.1	20.4	40.8	51.0	63.2	71.4	81.6	
			699	1,399	1,749	2,168	2,448	2,798	
2.125	0.2303	3,350 23.1	23.0	46.1	57.6	71.4	80.6	92.1	
			790	1,579	1,974	2,448	2,764	3,158	
2.250	0.2582	2,990 20.6	25.8	51.6	64.5	80.0	90.4	103.3	
			885	1,770	2,213	2,744	3,098	3,541	
2.375	0.2877	2,680 18.5	28.8	57.5	71.9	89.2	100.7	115.1	
			986	1,973	2,466	3,058	3,452	3,945	
2.500	0.3187	2,420 16.7	31.9	63.7	79.7	98.8	111.6	127.5	
			1,093	2,186	2,732	3,388	3,825	4,371	
2.625	0.3514	2,190 15.1	35.1	70.3	87.9	108.9	123.0	140.6	
			1,205	2,410	3,012	3,735	4,217	4,819	
2.750	0.3857	2,000 13.8	38.6	77.1	96.4	119.6	135.0	154.3	
			1,322	2,645	3,306	4,099	4,628	5,289	
2.750	0.3857	2,000 13.8	38.6	77.1	96.4	119.6	135.0	154.3	
			1,322	2,645	3,306	4,099	4,628	5,289	
3.000	0.4590	1,680 11.6	45.9	91.8	114.7	142.3	160.6	183.6	
			1,574	3,147	3,934	4,879	5,508	6,295	
3.250	0.5387	1,430 9.9	53.9	107.7	134.7	167.0	188.5	215.5	
			1,847	3,694	4,617	5,725	6,464	7,388	
3.500	0.6247	1,230 8.5	62.5	124.9	156.2	193.7	218.7	249.9	
			2,142	4,284	5,355	6,640	7,497	8,568	
3.750	0.7172	1,070 7.4	71.7	143.4	179.3	222.3	251.0	286.9	
			2,459	4,918	6,147	7,623	8,606	9,836	
4.000	0.8160	940 6.5	81.6	163.2	204.0	253.0	285.6	326.4	
			2,798	5,595	6,994	8,673	9,792	11,191	

### 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 Yalong representative for specific details and exceptions to these standards.
- Standard plunger sizes are shown, however, other sizes are available upon request. Contact a Yalong representative for performance and pressure ratings.
- Contact a Yalong 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 100 rpm, an auxiliary power end lubrication system is required.
- Spherical valves are required for plungers above 3.75 in.

### Technical Support

Sales@jspump.com  
 pumps-api674.com  
 +86-13951858681

# 250T Triplex Pump

## Pump Specifications

Rated (HP, kW)	250	187
Stroke length (in., mm)	5	127
Maximum discharge pressure (PSI, Bar)		
T250H	5,000	345
T250M	3,030	209
T250L	1,540	106
Rated rod load (lb, kg)	14,885	6,738
API-674 speed, RPM	310	
Maximum speed, RPM	400	
Minimum speed, RPM	100	
Crankshaft dimensions (in., mm)		
Diameter	4.875	124
Length (long)	11.85	301
Length (short)	5.62	143
Keyway, width x depth (in., mm)	1.25 x .62	32 x 16
Oil capacity (gal, l)		
Pump	6.5	24.6
Reducer (varies with ratio)	3.5 to 6.5	13 to 25
Weight (lb, kg); estimates only		
Pump		
T250H	4,932	2,237
T250M	4,958	2,249
T250L	4,588	2,081
Reducer	1,100	499
Mechanical efficiency	90%	

## Flange Connections

Pump Model	Discharge Connection Sizes (in., mm)	Suction Connection Sizes (in., mm)
T250H	2 (50.8) ANSI 2500 RJ	3 (76.2) API 2000 RJ
T250M	2 (50.8) API 5000 RJ	4 (101.6) ANSI 150 FF
T250L	3 (76.2) API 2000 RJ	6 (152.4) ANSI 150 FF



## 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

- 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

Sales@jspump.cn

+86-13951858681



# 250T Triplex Pump

## 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
T250H	1.875	0.1793	5000	17.9	615	26.9	922	35.9	1229	55.6	1906	62.8	2152	71.7	2459
	2.000	0.2040	4730	20.4	699	30.6	1049	40.8	1399	63.2	2168	71.4	2448	81.6	2798
	2.125	0.2303	4190	23.0	790	34.5	1184	46.1	1579	71.4	2448	80.6	2764	92.1	3158
	2.250	0.2582	3740	25.8	885	38.7	1328	51.6	1770	80.0	2744	90.4	3098	103.3	3541
T250M	2.500	0.3187	3030	31.9	1093	47.8	1639	63.7	2186	98.8	3388	111.6	3825	127.5	4371
	2.750	0.3857	2500	38.6	1322	57.9	1984	77.1	2645	119.6	4099	135.0	4628	154.3	5289
	3.000	0.4590	2100	45.9	1574	68.8	2361	91.8	3147	142.3	4879	160.6	5508	183.6	6295
	3.250	0.5387	1790	53.9	1847	80.8	2770	107.7	3694	167.0	5725	188.5	6464	215.5	7388
T250L	3.500	0.6247	1540	62.5	2142	93.7	3213	124.9	4284	193.7	6640	218.7	7497	249.9	8568
	3.750	0.7172	1340	71.7	2459	107.6	3688	143.4	4918	222.3	7623	251.0	8606	286.9	9836
	4.000	0.8160	1180	81.6	2798	122.4	4197	163.2	5595	253.0	8673	285.6	9792	326.4	11191
	4.250	0.9212	1050	92.1	3158	138.2	4738	184.2	6317	285.6	9791	322.4	11054	368.5	12633
	4.500	1.0327	930	103.3	3541	154.9	5311	206.5	7082	320.2	10977	361.5	12393	413.1	14163

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 <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
T250H	1.875	0.6786	371	67.9	4.1	101.8	6.1	135.7	8.1	210.4	12.6	237.5	14.3	271.5	16.3
	2.000	0.7721	326	77.2	4.6	115.8	6.9	154.4	9.3	239.4	14.4	270.2	16.2	308.9	18.5
	2.125	0.8717	289	87.2	5.2	130.8	7.8	174.3	10.5	270.2	16.2	305.1	18.3	348.7	20.9
	2.250	0.9772	257	97.7	5.9	146.6	8.8	195.4	11.7	302.9	18.2	342.0	20.5	390.9	23.5
T250M	2.500	1.2065	209	120.6	7.2	181.0	10.9	241.3	14.5	374.0	22.4	422.3	25.3	482.6	29.0
	2.750	1.4598	172	146.0	8.8	219.0	13.1	292.0	17.5	452.5	27.2	510.9	30.7	583.9	35.0
	3.000	1.7373	145	173.7	10.4	260.6	15.6	347.5	20.8	538.6	32.3	608.1	36.5	694.9	41.7
	3.250	2.0389	123	203.9	12.2	305.8	18.4	407.8	24.5	632.1	37.9	713.6	42.8	815.6	48.9
T250L	3.500	2.3647	106	236.5	14.2	354.7	21.3	472.9	28.4	733.0	44.0	827.6	49.7	945.9	56.8
	3.750	2.7145	93	271.5	16.3	407.2	24.4	542.9	32.6	841.5	50.5	950.1	57.0	1,85.8	65.1
	4.000	3.0886	81	308.9	18.5	463.3	27.8	617.7	37.1	957.5	57.4	1081.0	64.9	1235.4	74.1
	4.250	3.4867	72	348.7	20.9	523.0	31.4	697.3	41.8	1080.9	64.9	1220.3	73.2	1394.7	83.7
	4.500	3.9089	64	390.9	23.5	586.3	35.2	781.8	46.9	1211.8	72.7	1368.1	82.1	1563.6	93.8

\*API Speed

### General Notes

1. Capacities shown are based on 100 percent volumetric efficiency. Actual capacities are lower, based on discharge pressure and fluid compressibility.
2. API-674 and NACE-compliant designs are available; consult Yalong for details and exceptions to these standards.
3. For operation below 200 RPM, an auxiliary lubrication system is required.
4. Standard plunger sizes are shown, however other sizes are available upon request.
5. Spherical valves must be installed when using 4.00 in. plungers.

# 300Q Quintuplex Power Pump

Q300 Quintuplex 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%



# 300Q Quintuplex Power Pump

## 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 34.5	H	19.1	38.2	47.8	59.3	66.9	76.5
				656	1,311	1,639	2,033	2,295	2,623
1.625	0.2245	5,000 34.5		22.4	44.9	56.1	69.6	78.6	89.8
				770	1,539	1,924	2,386	2,693	3,078
1.750	0.2603	4,450 30.7		26.0	52.1	65.1	80.7	91.1	104.1
				892	1,785	2,231	2,767	3,124	3,570
1.875	0.2988	3,880 26.8		29.9	59.8	74.7	92.6	104.6	119.5
				1,025	2,049	2,561	3,176	3,586	4,098
2.000	0.3400	3,410 23.5		34.0	68.0	85.0	105.4	119.0	136.0
				1,166	2,331	2,914	3,614	4,080	4,663
2.000	0.3400	3,000 20.7	34.0	68.0	85.0	105.4	119.0	136.0	
			1,166	2,331	2,914	3,614	4,080	4,663	
2.125	0.3838	3,000 20.7	38.4	76.8	96.0	119.0	134.3	153.5	
			1,316	2,632	3,290	4,080	4,606	5,264	
2.250	0.4303	2,690 18.5	43.0	86.1	107.6	133.4	150.6	172.1	
			1,475	2,951	3,688	4,574	5,164	5,901	
2.375	0.4795	2,420 16.7	47.9	95.9	119.9	148.6	167.8	191.8	
			1,644	3,288	4,110	5,096	5,753	6,575	
2.500	0.5312	2,180 15.0	53.1	106.2	132.8	164.7	185.9	212.5	
			1,821	3,643	4,554	5,646	6,375	7,286	
2.750	0.6428	1,800 12.4	64.3	128.6	160.7	199.3	225.0	257.1	
			2,204	4,408	5,510	6,832	7,714	8,816	
2.750	0.6428	1,800 12.4	64.3	128.6	160.7	199.3	225.0	257.1	
			2,204	4,408	5,510	6,832	7,714	8,816	
3.000	0.7650	1,510 10.4	76.5	153.0	191.2	237.1	267.7	306.0	
			2,623	5,246	6,557	8,131	9,180	10,491	
3.250	0.8978	1,290 8.9	89.8	179.6	224.5	278.3	314.2	359.1	
			3,078	6,156	7,696	9,542	10,774	12,313	
3.500	1.0412	1,110 7.7	104.1	208.2	260.3	322.8	364.4	416.5	
			3,570	7,140	8,925	11,067	12,495	14,280	
3.750	1.1953	970 6.7	119.5	239.1	298.8	370.5	418.4	478.1	
			4,098	8,196	10,246	12,704	14,344	16,393	
4.000	1.3600	850 5.9	136.0	272.0	340.0	421.6	476.0	544.0	
			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 Yalong representative for specific details and exceptions to these standards.
- Standard plunger sizes are shown, however, other sizes are available upon request. Contact a Yalong representative for performance and pressure ratings.
- Contact a Yalong 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

Sales@jspump.com  
 pumps-api674.com  
 +86-13951858681

# 415Q Quintuplex Pump

## Pump Specifications

Rated (HP, kW)	415	309
Stroke length (in., mm)	5	127
Maximum discharge pressure (PSI, Bar)		
Q415H	5,000	345
Q415M	3,020	208
Q415L	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		
Q415H	7,010	3,186
Q415M	7,060	3,209
Q415L	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)
Q415H	2 (50.8) ANSI 2500 RJ	6 (152.4) NSD 600 RJ*
Q415M	3 (76.2) NSD 5000 RJ*	6 (152.4) NSD 600 RJ*
Q415L	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

Salea@jspump.cn

+86-13951858681



# 415Q Quintuplex Pump

## 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
Q415H	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
Q415M	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
Q415L	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 <sup>3</sup> /h	LPM	M <sup>3</sup> /h	LPM	M <sup>3</sup> /hr	LPM	M <sup>3</sup> /hr	LPM	M <sup>3</sup> /hr	LPM	M <sup>3</sup> /hr
Q415H	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
Q415M	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	1053.3	63.2	1189.4	71.4	1359.3	81.6
Q415L	3.375	3.6646	114	366.5	22.0	549.7	33.0	732.9	44.0	1136.3	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.