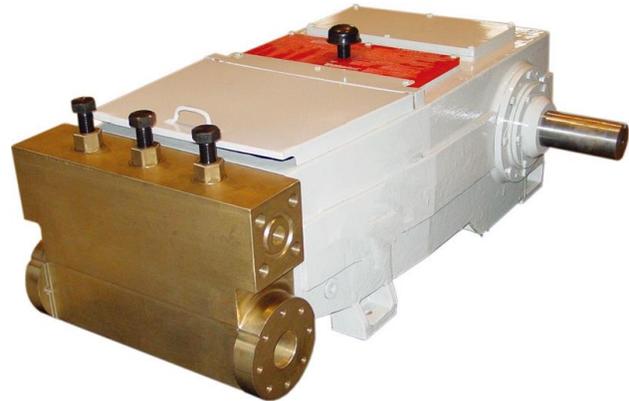


T100 Triplex Power Pump

Yalong T100 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%



T100 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

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