

T40 Triplex Pump

Specifications

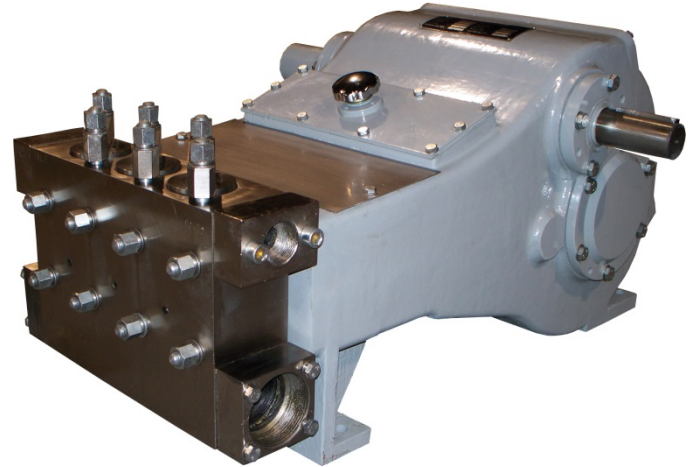
Rated power	
Continuous	40 HP (29.8 kW)
Intermittent	80 HP (59.6 kW)
Maximum discharge pressure	
T40HX	9,800 psi (676 bar)
T40HX	4,480 psi (309 bar)
T40M	3,110 psi (214 bar)
T40L	2,290 psi (158 bar)
Stroke length	2.95 in. (74.9 mm)
Internal gear ratio	3.15:1
Intermittent duty speed, pinion	1,480 RPM
Maximum continuous duty speed, pinion	950 RPM
Minimum speed, pinion	240 RPM
Crankshaft dimensions	
Diameter	2.00 in. (50.8 mm)
Length (both sides)	4.25 in. (108.0 mm)
Keyway, width × depth	500 × 250 in. (12.7 × 6.4 mm)
Oil capacity	5.3 gal (24.1 l)
Weight, estimates only	945 lb (428.5 kg)
Mechanical efficiency	85%

Flange Connections

Pump Model	Discharge Connection Sizes	Suction Connection Sizes
T40XH	3/4 in. Autoclave	2.0 in. (50.8 mm) NPT
T40H	1.0 in. (25.4 mm) NPT	2.0 in. (50.8 mm) NPT
T40M	1.0 in. (25.4 mm) NPT	2.0 in. (50.8 mm) NPT
T40L	1.5 in. (38.1 mm) NPT	3.0 in. (76.2 mm) NPT

Standard Equipment

- Forged duplex stainless steel or forged carbon steel fluid ends
- Duplex stainless steel stuffing boxes
- Disc valve
- Tungsten carbide coated plungers over stainless steel base or solid ceramic plungers
- Double extended crankshaft
- Multiple plunger packing arrangements offered



Optional Accessories

- Packing lubricators
- Customized plunger packing arrangements
- Complete pump packages

Additional Support

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Performance Ratings

Model (standard)	Plunger Diameter (in.)	Gallons Per Revolution	Maximum Pressure (psi)	240 RPM		500 RPM		650 RPM		850 RPM		950 RPM		Intermittent Duty 1,480 RPM	
				GPM	BPD	BPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
T40XH	0.9375	0.0084	9,800	2.0	69	4.2	144	5.5	187	7.1	245	8.0	274	11.9	409
	1.000	0.0096	8,600	2.3	79	4.8	164	6.2	213	8.1	279	9.1	311	13.6	465
T40H	1.000	0.0096	4,480	2.3	79	4.8	164	6.2	213	8.1	279	9.1	311	13.6	465
	1.250	0.0149	4,480	3.6	123	7.5	256	9.7	333	12.7	435	14.2	487	21.2	727
T40M	1.500	0.0215	3,110	5.2	177	10.8	369	14.0	479	18.3	627	20.4	701	30.5	1,047
T40L	1.750	0.0293	2,290	7.0	241	14.6	502	19.0	653	24.9	853	27.8	954	41.6	1,426
	2.000	0.0382	1,750	9.2	315	19.1	656	24.9	852	32.5	1,115	36.3	1,246	54.3	1,862
	2.250	0.0484	1,380	11.6	398	24.2	830	31.5	1,079	41.1	1,411	46.0	1,577	68.7	2,357
	2.500	0.0598	1,120	14.3	492	29.9	1,024	38.8	1,332	50.8	1,742	56.8	1,946	84.9	2,909

Model (metric)	Plunger Diameter (in.)	Liters Per Revolution	Maximum Pressure (bar)	240 RPM		500 RPM		650 RPM		850 RPM		950 RPM		Intermittent Duty 1,480 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
T40XH	0.9375	0.0318	676	7.6	0.46	15.9	0.95	20.7	1.24	27.0	1.62	30.2	1.81	45.2	2.70
	1.000	0.0362	593	8.7	0.52	18.1	1.08	23.5	1.41	30.8	1.84	34.4	2.06	51.4	3.07
T40H	1.000	0.0362	309	8.7	0.5	18.1	1.1	23.5	1.4	30.8	1.8	34.4	2.1	51.4	3.1
	1.250	0.0565	309	13.6	0.8	28.3	1.7	36.8	2.2	48.1	2.9	58.7	3.2	80.3	4.8
T40M	1.500	0.0814	214	19.5	1.2	40.7	2.4	52.9	3.2	69.2	4.2	77.4	4.6	115.6	6.9
T40L	1.750	0.1108	158	26.6	1.6	55.4	3.3	72.0	4.3	94.2	5.7	105.3	6.3	157.4	9.4
	2.000	0.1448	121	34.7	2.1	72.4	4.3	94.1	5.6	123.0	7.4	137.5	8.3	205.6	12.3
	2.250	0.1832	95	44.0	2.6	91.6	5.5	119.1	7.1	155.7	9.3	174.0	10.4	260.2	15.6
	2.500	0.2262	77	54.3	3.3	113.1	6.8	147.0	8.8	192.3	11.5	214.9	12.9	321.2	19.3

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 Weatherford for details and exceptions to these standards.
3. For operation below 240 RPM, an auxiliary lubrication system is required.
4. Standard plunger sizes are shown, however other sizes are available upon request.
5. T40XH pumps are rated for intermittent duty operation only.