

INJECTION PUMP

UNIT: PUM017

PERFORMANCE

Maximum Operating Pressure	3,110 psi (21.4 MPa)
Maximum Flow Rate	103 m ³ /day

INJECTION DRIVE

Model	4.3L GM Vortec V6
Horse Power	52 HP
Maximum RPM	1800 RPM
Fuel Type	Natural Gas

PUMP

Make	Weatherford
Model	T-40
Type	Triplex
Plungers	3
Installed Plunger Diameter	1.5" (38.1 mm)
Maximum Input	40 HP (30 kW)
Maximum RPM	880 RPM
Stroke Length	2.95" (75 mm)



SUCTION PIPING

Maximum Allowable Working Pressure	675 psi (4,654 kPa)
Size	3" (88.9 mm)
Connection	CL300 RF

DISCHARGE PIPING

Maximum Allowable Working Pressure	5,000 psi (34.5 MPa)
Size	2" (60.3 mm)
Connection	CL1500 RF

FUEL CONSUMPTION

Fuel (Heat Value Ratings)	Fuel Consumption
Vaporized Propane (2,300 BTU/ft ³)	57.6 scf/hr
Ethane Gas (1,700 BTU/ft ³)	77.9 scf/hr
Methane Gas (962 BTU/ft ³)	137.6 scf/hr

Approximate: Will vary based on site conditions



SOUND RATING

Distance	@50%	@100%
In Building	Field Verify dB(A)	Field Verify dB(A)
1.2 m (4 ft)	Field Verify dB(A)	Field Verify dB(A)
7.5 m (25 ft)	Field Verify dB(A)	Field Verify dB(A)
15.2 m (50 ft)	Field Verify dB(A)	Field Verify dB(A)

Sound ratings will be field verified

SHIPPING DIMENSIONS

Width	10' 4" (3.15 m)
Length	21' (6.4 m)
Height	11' (3.35 m)
Weight Estimate	16,000 lb (7,258 kg)

POWER REQUIREMENTS

Building Total	1 kW
Main Disconnect	None On Skid
Voltage Input	120 V
Phase	1Ø

CERTIFICATION

Area Classification	General Purpose
Piping	ASME B31.3

FEATURES

Building Equipped With Heater and Lights
Suitable For Sour Service
Pulsation Dampener
12V Battery System
Suction Strainer On Inlet Piping
Built In Tool Box
Removable Catch Tank
Insulated Stainless Steel Rib Panels
Discharge Piping Complete With MC-III Flow Meter
Baird Adjustable Pressure Relief Valve





OPERATIONS SOLUTIONS EQUIPMENT SPECIFICATION SHEET

SHUTDOWNS

High/Low Discharge Pressure
High/Low Suction Pressure
Manual ESD
Vibration Switch
Low Power End Oil



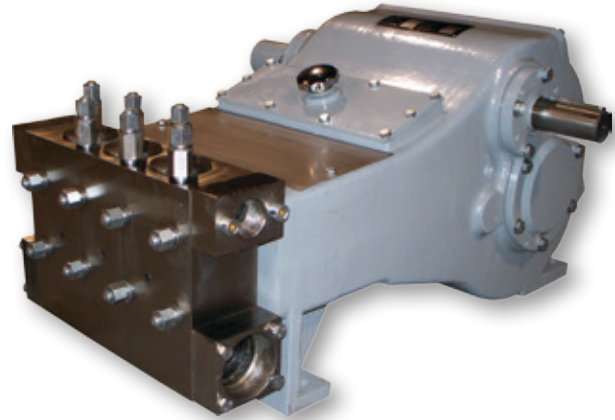
T40 Triplex Pump

Pump Specifications

Rated (HP, kW)	40	29.8
Stroke length (in., mm)	2.95	74.9
Maximum discharge pressure (PSI, Bar)		
T40H	4,480	309
T40M	3,110	214
T40L	2,290	158
Rated rod load (lb, kg)	5,500	2,495
Internal gear ratio	3.15:1	
Intermittent duty speed, pinion RPM	1,420	
Maximum continuous duty speed, pinion RPM	950	
Minimum speed, pinion RPM	240	
Crankshaft dimensions (in., mm)		
Diameter	2.00	50.8
Length (both sides)	4.25	108.0
Keyway, width x depth (in., mm)	.500 x .250	12.7 x 6.4
Oil capacity (gal, l)	5.3	24.1
Weight (lb, kg); estimates only	945	428.6
Mechanical efficiency	85%	

Flange Connections

Pump Model	Discharge Connection Sizes (in., mm)	Suction Connection Sizes (in., mm)
T40H	1.0 (25.4) NPT	2.0 (50.8) NPT
T40M	1.0 (25.4) NPT	2.0 (50.8) NPT
T40L	1.5 (38.1) NPT	3.0 (76.2) 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

Technical Support

pumps@weatherford.com
1-281-252-7867



T40 Triplex Pump

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 1,420 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
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 1,420 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
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	53.7	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.