

ROTATING RIGHT

MODEL 125T-4 SINGLE ACTING TRIPLEX PUMP



125T-4

A 125 horsepower 4" stroke horizontal triplex single acting plunger pump. Available in nickel-aluminum-bronze fluid end material at pump speeds up to 450 RPM and four accessory gear reduction unit ratios.

Power End Features:

- Cast iron power frame
- Ductile Iron connecting rods
- Alloy steel crosshead pins
- Bronze bearing crosshead pin bushings
- Alloy steel crankshaft with ground journals and polished throws
- Heavy-duty, tapered roller crankshaft bearings
- Precision type, aluminum alloy crankpin bearings
- Cast iron crossheads with upper/lower oil grooves
- Replaceable Stainless Steel intermediate rods
- Flooded sump, splash distribution lubrication
- Rated rod load is 8250 lbs.

Fluid End Features:

- Threaded Valve Covers
- 17-4 Stainless Steel or Nickel Aluminum Bronze Steel stuffing boxes (Includes nuts)
- General Service, Molded Lip or Aramid Fiber plunger packing
- Plungers-Solid Ceramic or Tungsten Carbide coated
- Spherical suction and discharge valves
- Valve Seat & Valve Body: Nitronic 50
- Spring: Inconel
- Cage: 316L Stainless Steel
- Severe duty valves with inserts available

125T-4 Triplex Plunger Pump

Performance Data

PUMP	English Units					150 RPM		250 RPM		300 RPM		350 RPM		400 RPM		450 RPM	
	Plunger Dia. In.	Plunger Area Sq. In.	BPD per RPM	GPM per RPM	Max. Press. PSI	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM
125T-4L	4.000	12.5664	22.3816	0.6528	657	3358	97.9	5596	163.2	6715	195.8	7834	228.5	8953	261.1	10072	293.8
	3.750	11.0447	19.6714	0.5737	747	2951	86.1	4918	143.4	5902	172.1	6885	200.8	7869	229.5	8853	258.2
	3.500	9.6211	17.1359	0.4998	857	2571	75.0	4284	124.9	5141	149.9	5998	174.9	6855	199.9	7712	224.9
	3.000	7.0686	12.5897	0.3672	1167	1889	55.1	3148	91.8	3777	110.2	4407	128.5	5036	146.9	5666	165.2
	2.750	5.9396	10.5788	0.3085	1389	1587	46.3	2645	77.1	3174	92.6	3703	108.0	4232	123.4	4761	138.8
	2.500	4.9087	8.7428	0.2550	1500	1312	38.2	2186	63.7	2623	76.5	3060	89.2	3498	102.0	3935	114.7
125T-4M	2.375	4.4301	7.8904	0.2301	1500	1184	34.5	1973	57.5	2368	69.0	2762	80.5	3157	92.1	3551	103.6
	3.000	7.0686	12.5897	0.3672	1167	1889	55.1	3148	91.8	3777	110.2	4407	128.5	5036	146.9	5666	165.2
	2.750	5.9396	10.5788	0.3085	1389	1587	46.3	2645	77.1	3174	92.6	3703	108.0	4232	123.4	4761	138.8
	2.500	4.9087	8.7428	0.2550	1681	1312	38.2	2186	63.7	2623	76.5	3060	89.2	3498	102.0	3935	114.7
	2.250	3.9761	7.0817	0.2065	2075	1063	31.0	1771	51.6	2125	62.0	2479	72.3	2833	82.6	3187	92.9
	2.000	3.1416	5.5954	0.1632	2626	840	24.5	1399	40.8	1679	49.0	1959	57.1	2239	65.3	2518	73.4
125T-4H	1.875	2.7612	4.9178	0.1434	2988	738	21.5	1230	35.9	1476	43.0	1722	50.2	1968	57.4	2214	64.5
	1.750	2.4053	4.2840	0.1249	3180	643	18.7	1071	31.2	1286	37.5	1500	43.7	1714	50.0	1928	56.2
	1.625	2.0739	3.6938	0.1077	3978	555	16.2	924	26.9	1109	32.3	1293	37.7	1478	43.1	1663	48.5
	2.250	3.9761	7.0817	0.2065	2075	1063	31.0	1771	51.6	2125	62.0	2479	72.3	2833	82.6	3187	92.9
	2.000	3.1416	5.5954	0.1632	2626	840	24.5	1399	40.8	1679	49.0	1959	57.1	2239	65.3	2518	73.4
	1.875	2.7612	4.9178	0.1434	2988	738	21.5	1230	35.9	1476	43.0	1722	50.2	1968	57.4	2214	64.5
Brake Horsepower Required						42	70	84	97	111	125						

PUMP	Metric Units					150 RPM		250 RPM		300 RPM		350 RPM		400 RPM		450 RPM	
	Plunger Dia. mm	Plunger Area cm ²	M ³ /Hr per RPM	L/Sec. per RPM	Max. Press. kPa	M ³ /Hr	L/Sec.	M ³ /Hr	L/Sec.	M ³ /Hr	L/Sec.	M ³ /Hr	L/Sec.	M ³ /Hr	L/Sec.	M ³ /Hr	L/Sec.
125T-4L	102	81.073	0.1483	0.0412	4527	22.2	6.2	37.1	10.3	44.5	12.4	51.9	14.4	59.3	16.5	66.7	18.5
	95	71.256	0.1303	0.0362	5150	19.5	5.4	32.6	9.0	39.1	10.9	45.6	12.7	52.1	14.5	58.6	16.3
	89	62.072	0.1135	0.0315	5912	17.0	4.7	28.4	7.9	34.1	9.5	39.7	11.0	45.4	12.6	51.1	14.2
	76	45.604	0.0834	0.0232	8047	12.5	3.5	20.8	5.8	25.0	6.9	29.2	8.1	33.4	9.3	37.5	10.4
	70	38.320	0.0701	0.0195	9577	10.5	2.9	17.5	4.9	21.0	5.8	24.5	6.8	28.0	7.8	31.5	8.8
	64	31.669	0.0579	0.0161	10342	8.7	2.4	14.5	4.0	17.4	4.8	20.3	5.6	23.2	6.4	26.1	7.2
125T-4M	60	28.581	0.0523	0.0145	10342	7.8	2.2	13.1	3.6	15.7	4.4	18.3	5.1	20.9	5.8	23.5	6.5
	76	45.604	0.0834	0.0232	8047	12.5	3.5	20.8	5.8	25.0	6.9	29.2	8.1	33.4	9.3	37.5	10.4
	70	38.320	0.0701	0.0195	9577	10.5	2.9	17.5	4.9	21.0	5.8	24.5	6.8	28.0	7.8	31.5	8.8
	64	31.669	0.0579	0.0161	11588	8.7	2.4	14.5	4.0	17.4	4.8	20.3	5.6	23.2	6.4	26.1	7.2
	57	25.652	0.0469	0.0130	14306	7.0	2.0	11.7	3.3	14.1	3.9	16.4	4.6	18.8	5.2	21.1	5.9
	51	20.268	0.0371	0.0103	18106	5.6	1.5	9.3	2.6	11.1	3.1	13.0	3.6	14.8	4.1	16.7	4.6
125T-4H	48	17.814	0.0326	0.0090	20601	4.9	1.4	8.1	2.3	9.8	2.7	11.4	3.2	13.0	3.6	14.7	4.1
	44	15.518	0.0284	0.0079	21925	4.3	1.2	7.1	2.0	8.5	2.4	9.9	2.8	11.4	3.2	12.8	3.5
	41	13.380	0.0245	0.0068	21925	3.7	1.0	6.1	1.7	7.3	2.0	8.6	2.4	9.8	2.7	12.8	3.1
	57	25.652	0.0469	0.0130	14306	7.0	2.0	11.7	3.3	14.1	3.9	16.4	4.6	18.8	5.2	21.1	5.9
	51	20.268	0.0371	0.0103	18106	5.6	1.5	9.3	2.6	11.1	3.1	13.0	3.6	14.8	4.1	16.7	4.6
	48	17.814	0.0326	0.0090	20601	4.9	1.4	8.1	2.3	9.8	2.7	11.4	3.2	13.0	3.6	14.7	4.1
Kilowatts Required						31	52	63	73	83	93						

For operation below 50 RPM, an auxiliary lubrication system is required.

Volumetric Rate is based on 100% Volumetric Efficiency. Brake Horsepower/Kilowatts Required is based on 90% Mechanical Efficiency. Not all plunger sizes are shown. Contact National-Oilwell for additional information.

The information and data on this sheet is accurate to the best of our knowledge and belief, but are intended for general information only. Applications suggested for the materials are described only to help readers make their own evaluations and decisions, and are neither guarantees nor to be construed as express or implied warranties of suitability for these or other applications. National Oilwell makes no warranty either express or implied beyond that stipulated in National Oilwell Standard Terms and Conditions of Sale.

Accessories

Rotating Right offers a full line of accessories to ensure long trouble free and safe operation of your multiplex pumps.

Accessories Include:

- Pulsation Dampeners - Suction & Discharge
- Vibration Shock Switches
- Liquid Level Gauges & Switches
- Pressure Safety Valves
- Plunger Lubricators
- Fire Safety Valves
- High Discharge Pressure Switch
- Condensate Drain
- N.A.C.E. Valving
- Lubricator Level Controller
- API Valves
- Drive Options



Expendables



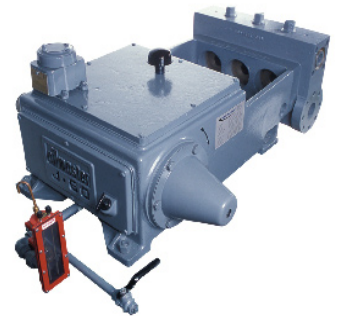
With our worldwide buying power Rotating Right is well equipped to provide a wide range of replacement parts & expendables for virtually all multiplex plunger pumps regardless of make or model.

Our expendables inventory includes plungers, packing, brass, valves, bearings, crankshafts, connecting rods and seals.



Repair & Overhauls

Rotating Right service technicians follow strict quality control procedures for every pump repair and overhaul. The use of consistent and reliable re-manufacturing techniques ensure your equipment is returned to you in "Like New" condition.



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