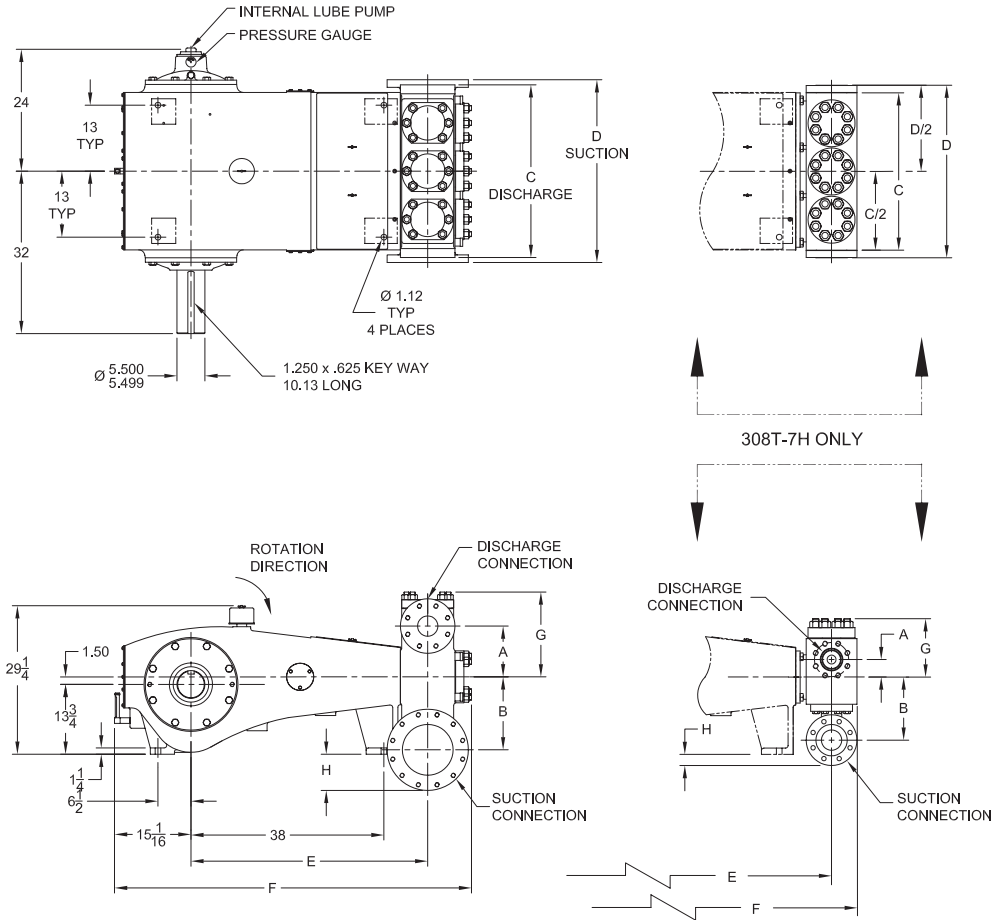


308T-7 Triplex Plunger Pump



Specifications

- Pump Size:**
maximum plunger size x stroke length, in.(mm)
5.750 x 7.125 (146.05 x 180.98)
- Rated BPH (kW) at 265 RPM:** 308 (230)
- Rated plunger load, pounds (kg):** 19400(8800)
- Maximum discharge pressure:** psi (kPa)
"XL" model: 1220 (8410)
"L" model: 2169 (14952)
"M" model: 3600 (24821)
"H" model: 6170 (42542)
- Crankshaft extension:**
Diameter, in.(mm): 5.500 (139.7)
Length, in.(mm): 12.125 (308.0)
Keyway width x depth, in.(mm):
1-1/4 x 5/8 (31.8 x 15.9)
Maximum recommended sheave diameter,
in.(mm): 71 (1803.4)
For larger sizes: **Contact Factory**
- Accessory gear reduction unit:** N/A
- Oil Capacity, gallons (L)**
Crankcase: 19 (71.92)
- Weight, pump only on**
wood shipping skids, pounds (kg): 6013 (2727)
Weight varies with pump model
- Standard Materials for Fluid Ends:**
"XL" model
Cast Duplex Stainless Steel
Cast Carbon Steel
"L" model
Cast Duplex Stainless Steel
Cast Nickel-Aluminum-Bronze
Billet/Forged Carbon Steel
"M" model
Cast Duplex Stainless Steel
Cast Nickel-Aluminum-Bronze
Forged/Plate Carbon Steel
"H" model
Forged Stainless Steel

Pump Model	Flange Connections		Dimensions (Inches)							
	Discharge Connection Sizes	Suction Connection Sizes	A	B	C	D	E	F	G	H
308T-7XL	4 (101.6)-ANSI 600 FF	10 (254.0)-ANSI 150 FF	10	14 3/8	34	36	46 5/8	70 5/16	16 11/16	7 1/8
308T-7L	4 (101.6)-ANSI 900 FF	6 (152.4)-ANSI 150 FF	8 1/4	11 1/8	33	33	46 3/4	71 1/8	15 3/16	1 3/8
308T-7M	2.5 (63.5)-ANSI 1500 FF	4 (101.6)-ANSI 300 FF	6 7/8	8 3/4	33	33	46 3/4	71 1/2	13 9/16	-1 1/2
308T-7H	2 (50.8)-ANSI 2500 RTJ	4 (101.6)-ANSI 300 RF	3 7/16	12 7/16	31	34	48 5/16	68 3/8	11 7/16	2 3/16

308T-7 Triplex Plunger Pump

Performance Data

PUMP	English Units						100 * RPM		133 RPM		166 RPM		199 RPM		232 RPM		265 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
308T-7XL (HP360XL)	5.750	25.9672	82.3820	2.4028	747		8239	240.3	10957	319.6	13676	398.9	16395	478.2	19113	557.5	21832	636.7
	5.500	23.7583	75.3741	2.1984	817		7538	219.8	10025	292.4	12513	364.9	15000	437.5	17487	510.0	19975	582.6
	5.250	21.6475	68.6776	2.0031	896		6868	200.3	9135	266.4	11401	332.5	13667	398.6	15934	464.7	18200	530.8
	5.000	19.6349	62.2926	1.8169	988		6230	181.7	8285	241.6	10341	301.6	12397	361.6	14452	421.5	16508	481.5
	4.750	17.7205	56.2191	1.6397	1095		5622	164.0	7478	218.1	9333	272.2	11188	326.3	13043	380.4	14899	434.5
308T-7L (HP360AL)	4.500	15.9043	50.4570	1.4717	1220		5046	147.2	6711	195.7	8376	244.3	10041	292.9	11707	341.4	13372	390.0
	4.250	14.1862	45.0064	1.3127	1368		4501	131.3	5986	174.6	7472	217.9	8957	261.2	10442	304.5	11927	347.9
	4.125	13.3640	42.3979	1.2366	1452		4240	123.7	5639	164.5	7039	205.3	8438	246.1	9837	286.9	11236	327.7
	4.000	12.5664	39.8673	1.1628	1544		3987	116.3	5303	154.7	6618	193.0	7934	231.4	9250	269.8	10565	308.1
	3.875	11.7932	37.4145	1.0913	1645		3742	109.1	4977	145.1	6211	181.1	7446	217.2	8681	253.2	9915	289.2
308T-7M (HP360AM)	3.750	11.0447	35.0396	1.0220	1757		3504	102.2	4661	135.9	5817	169.7	6973	203.4	8130	237.1	9286	270.8
	3.625	10.3206	32.7426	0.9550	1880		3275	95.5	4355	127.0	5436	158.5	6516	190.0	7597	221.6	8677	253.1
	3.500	9.6211	30.5234	0.8903	2016		3053	89.0	4060	118.4	5067	147.8	6075	177.2	7082	206.5	8089	235.9
	3.375	8.9462	28.3821	0.8278	2169		2839	82.8	3775	110.1	4712	137.4	5649	164.7	6585	192.1	7522	219.4
	3.250	8.2958	26.3186	0.7676	2339		2632	76.8	3501	102.1	4369	127.4	5238	152.8	6106	178.1	6975	203.4
308T-7H (HP360H)	3.125	7.6699	24.3331	0.7097	2529		2434	71.0	3237	94.4	4040	117.8	4843	141.2	5646	164.7	6449	188.1
	3.000	7.0686	22.4253	0.6541	2745		2243	65.4	2983	87.0	3723	108.6	4463	130.2	5203	151.7	5943	173.3
	2.875	6.4918	20.5955	0.6007	2988		2060	60.1	2740	79.9	3419	99.7	4099	119.5	4779	139.4	5458	159.2
	2.750	5.9396	18.8435	0.5496	3266		1885	55.0	2507	73.1	3129	91.2	3750	109.4	4372	127.5	4994	145.6
	2.500	4.9087	15.5732	0.4542	3600		1558	45.4	2072	60.4	2586	75.4	3100	90.4	3613	105.4	4127	120.4
308T-7H (HP360H)	2.250	3.9761	12.6143	0.3679	3600		1262	36.8	1678	48.9	2094	61.1	2511	73.2	2927	85.4	3343	97.5
	2.125	3.5466	11.2516	0.3282	5470		1126	32.8	1497	43.6	1868	54.5	2240	65.3	2611	76.1	2982	87.0
	2.000	3.1416	9.9668	0.2907	6170		997	29.1	1326	38.7	1655	48.3	1984	57.8	2313	67.4	2642	77.0
	1.875	2.7612	8.7599	0.2555	6170		876	25.5	1166	34.0	1455	42.4	1744	50.8	2033	59.3	2322	67.7
	1.750	2.4053	7.6308	0.2226	6170		764	22.3	1065	29.6	1267	36.9	1519	44.3	1771	51.6	2023	59.0
Brake Horsepower Required							117		155		194		232		270		308	

PUMP	Metric Units						100 * RPM		133 RPM		166 RPM		199 RPM		232 RPM		265 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.
308T-7XL (HP360XL)	146	167.530	0.5457	0.1516	5151		54.6	15.2	72.6	20.2	90.6	25.2	108.6	30.2	126.6	35.2	144.6	40.2
	140	153.279	0.4993	0.1387	5630		49.9	13.9	66.4	18.4	82.9	23.0	99.4	27.6	115.8	32.2	132.3	36.8
	133	139.661	0.4549	0.1264	6179		45.5	12.6	60.5	16.8	75.5	21.0	90.5	25.1	105.5	29.3	120.5	33.5
	127	126.677	0.4126	0.1146	6812		41.3	11.5	54.9	15.2	68.5	19.0	82.1	22.8	95.7	26.6	109.3	30.4
	121	114.326	0.3724	0.1035	7548		37.2	10.3	49.5	13.8	61.8	17.2	74.1	20.6	86.4	24.0	98.7	27.4
308T-7L (HP360AL)	114	102.608	0.3342	0.0928	8410		33.4	9.3	44.5	12.3	55.5	15.4	66.5	18.5	77.5	21.5	88.6	24.6
	108	91.524	0.2981	0.0828	9429		29.8	8.3	39.6	11.0	49.5	13.7	59.3	16.5	69.2	19.2	79.0	21.9
	105	86.219	0.2808	0.0780	10009		28.1	7.8	37.4	10.4	46.6	13.0	55.9	15.5	65.2	18.1	74.4	20.7
	102	81.073	0.2641	0.0734	10644		26.4	7.3	35.1	9.8	43.8	12.2	52.6	14.6	61.3	17.0	70.0	19.4
	98	76.085	0.2478	0.0688	11342		24.8	6.9	33.0	9.2	41.1	11.4	49.3	13.7	57.5	16.0	65.7	18.2
308T-7M (HP360AM)	95	71.256	0.2321	0.0645	12111		23.2	6.4	30.9	8.6	38.5	10.7	46.2	12.8	53.8	15.0	61.5	17.1
	92	66.584	0.2169	0.0603	12960		21.7	6.0	28.8	8.0	36.0	10.0	43.2	12.0	50.3	14.0	57.5	16.0
	89	62.072	0.2022	0.0562	13903		20.2	5.6	26.9	7.5	33.6	9.3	40.2	11.2	46.9	13.0	53.6	14.9
	86	57.717	0.1880	0.0522	14952		18.8	5.2	25.0	6.9	31.2	8.7	37.4	10.4	43.6	12.1	49.8	13.8
	83	53.521	0.1743	0.0484	16124		17.4	4.8	23.2	6.4	28.9	8.0	34.7	9.6	40.4	11.2	46.2	12.8
308T-7H (HP360H)	79	49.483	0.1612	0.0448	17439		16.1	4.5	21.4	6.0	26.8	7.4	32.1	8.9	37.4	10.4	42.7	11.9
	76	45.604	0.1485	0.0413	18923		14.9	4.1	19.8	5.5	24.7	6.9	29.6	8.2	34.5	9.6	39.4	10.9
	73	41.883	0.1364	0.0379	20604		13.6	3.8	18.1	5.0	22.6	6.3	27.1	7.5	31.6	8.8	36.2	10.0
	70	38.320	0.1248	0.0347	22520		12.5	3.5	16.6	4.6	20.7	5.8	24.8	6.9	29.0	8.0	33.1	9.2
	64	31.669	0.1032	0.0287	24821		10.3	2.9	13.7	3.8	17.1	4.8	20.5	5.7	23.9	6.6	27.3	7.6
308T-7H (HP360H)	57	25.652	0.0836	0.0232	24821		8.4	2.3	11.1	3.1	13.9	3.9	16.6	4.6	19.4	5.4	22.1	6.2
	54	22.881	0.0745	0.0207	37715		7.5	2.1	9.9	2.8	12.4	3.4	14.8	4.1	17.3	4.8	19.7	5.5
	51	20.268	0.0660	0.0183	42542		6.6	1.8	8.8	2.4	11.0	3.0	13.1	3.6	15.3	4.3	17.5	4.9
	48	17.814	0.0580	0.0161	42542		5.8	1.6	7.7	2.1	9.6	2.7	11.5	3.2	13.5	3.7	15.4	4.3
	44	15.518	0.0505	0.0140	42542		5.1	1.4	6.7	1.9	8.4	2.3	10.1	2.8	11.7	3.3	13.4	3.7
Kilowatts Required							87		116		145		173		201		230	

Volumetric Rate is based on 100% Volumetric Efficiency. Brake Horsepower/Kilowatts Required is based on 90% Mechanical Efficiency. *Operation below 150 RPM requires an "optional" externally-mounted auxiliary lubrication system.

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