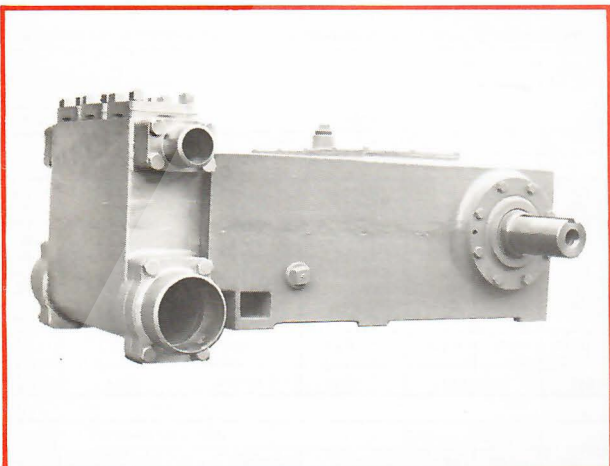


A-344 Triplex



Specifications

	English		Metric	
Pump Size (Max. Plunger Dia. x Stroke)	inches	4 x 4	mm	102 x 102
Standard Plunger Sizes	inches	2 3/4, 2 1/2, 2 1/4, 2 1/8, 2 1/16, 3/4, 3/8, 3/16 and 4	mm	60, 64, 67, 70, 73, 76, 83, 89, 95 and 102
Rated bhp at 450 rpm	hp	100	kW	75
Maximum Working Pressure:				
Discharge	psi	1500	kPa	10342
Suction	psi	275	kPa	1896
Two Suction Connections: Pipe Size	inches	6	mm	152
Classification		Sch. 40		Sch. 40
Prepared For Welding		V-Bevel		V-Bevel
Two Discharge Connections: Pipe Size	inches	3	mm	76
Classification		Sch. 160		Sch. 160
Prepared For Welding		V-Bevel		V-Bevel
Crankshaft Extension: Diameter	inches	3.750	mm	95
Length	inches	7 1/2	mm	191
Keyway (Width x Depth)	inches	7/8 x 7/16	mm	28 x 11
Pinion Shaft Extension (If Gear Unit Supplied):				
Diameter	inches	2.875	mm	73
Length	inches	6 3/4	mm	171
Keyway (Width x Depth)	inches	3/4 x 1/4	mm	19 x 6
Accessory Gear Units Reduction Ratios				
2.596:1				2.596:1
3.109:1				3.109:1
3.947:1				3.947:1
6.192:1				6.192:1
Rated Plunger Load	pounds	6600	N	29358
Oil Capacity: Crankcase	gallons	10	litres	38
Gear Unit (Capacity Varies with Gear Ratio)	gallons	—	litres	—
Weight: Pump Only	pounds	1705	kg	773
(On Wood Shipping Skids) (Est.)	pounds	575	kg	261

Plunger Diameter			Stuffing Box Bore		
Inches	mm		Inches	mm	
2 3/4 - 2 3/8	60 - 67		3 3/8	86	
2 3/4 - 3	70 - 76		3 3/4	95	
3 1/4 - 3 1/2	83 - 89		4 1/4	108	
3 3/4 - 4	95 - 102		4 3/4	121	

Performance Data

(Volumes Indicated are Displacement of Noncompressible Fluid)
ENGLISH UNITS

Plgr. Dia. In.	Plgr. Area (Sq. In.)	Displacement Gal. Per Rev.	Max. Pressure psi	*100 rpm		150 rpm		200 rpm		250 rpm		300 rpm		350 rpm		400 rpm		450 rpm	
				bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm
2 3/8	4.4301	.2301	1500	789	23.01	1184	34.52	1579	46.03	1973	57.53	2368	69.04	2763	80.55	3157	92.05	3552	103.56
2 1/2	4.9087	.2550	1340	875	25.50	1312	38.25	1749	51.00	2187	63.75	2624	76.50	3061	89.25	3499	102.00	3936	114.75
2 3/4	5.4119	.2811	1215	964	28.11	1446	42.17	1929	56.23	2411	70.28	2893	84.34	3375	98.40	3857	112.45	4339	126.51
2 3/8	5.9396	.3085	1110	1058	30.85	1587	46.28	2117	61.71	2646	77.14	3175	92.56	3704	107.99	4233	123.42	4762	138.85
2 1/2	6.4918	.3372	1015	1157	33.72	1735	50.59	2313	67.45	2892	84.31	3470	101.17	4049	118.03	4627	134.89	5205	151.76
3	7.0686	.3672	930	1259	36.72	1889	55.08	2519	73.44	3149	91.80	3778	110.16	4408	128.52	5038	146.88	5668	165.24
3 1/4	8.2958	.4309	795	1478	43.09	2217	64.64	2956	86.19	3695	107.74	4434	129.28	5174	150.83	5913	172.38	6652	193.93
3 1/2	9.6211	.4998	685	1714	49.98	2571	74.97	3429	99.96	4286	124.95	5143	149.94	6000	174.93	6857	199.92	7714	224.91
3 3/4	11.045	.5737	595	1968	57.37	2952	86.06	3936	114.75	4920	143.44	5904	172.12	6888	200.81	7872	229.50	8856	258.19
4	12.566	.6528	525	2239	65.28	3359	97.92	4478	130.56	5598	163.20	6717	195.84	7837	228.48	8956	261.12	10076	293.76
Brake Horsepower Required				22		33		44		56		67		78		89		100	

METRIC UNITS

Plgr. Dia. mm	Plgr. Area cm²	Displacement L/rev.	Max. Pressure kPa	*100 r/min.		150 r/min.		200 r/min.		250 r/min.		300 r/min.		350 r/min.		400 r/min.		450 r/min.	
				m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s
60	28.581	.8712	10342	125	1.45	188	2.18	251	2.90	314	3.63	376	4.36	439	5.08	502	5.81	565	6.53
64	31.669	.9653	9239	139	1.61	208	2.41	278	3.22	347	4.02	417	4.83	486	5.63	556	6.44	625	7.24
68	34.915	1.0642	8377	153	1.77	230	2.66	306	3.55	383	4.43	460	5.32	536	6.21	613	7.09	690	7.98
70	38.320	1.1680	7653	168	1.95	252	2.92	336	3.89	420	4.87	505	5.84	589	6.81	673	7.79	757	8.76
73	41.882	1.2766	6998	184	2.13	276	3.19	368	4.26	460	5.32	551	6.38	643	7.45	735	8.51	827	9.57
76	45.604	1.3900	6412	200	2.32	300	3.48	400	4.63	500	5.79	600	6.95	701	8.11	801	9.27	901	10.43
82	53.521	1.6313	5481	235	2.72	352	4.08	470	5.44	587	6.80	705	8.16	822	9.52	940	10.86	1057	12.24
90	62.071	1.8919	4723	272	3.15	409	4.73	545	6.31	681	7.88	817	9.46	954	11.04	1090	12.61	1226	14.19
95	71.258	2.1719	4102	313	3.62	469	5.43	625	7.24	782	9.05	938	10.86	1095	12.67	1251	14.48	1407	16.19
102	81.071	2.4711	3620	356	4.12	534	6.18	712	8.24	890	10.30	1068	12.36	1245	14.41	1423	16.47	1601	18.53
Kilowatt-Input				17		25		33		41		50		58		66		75	

ENGLISH AND METRIC

Gear Unit Pinion	2.596:1	260	389	519	649	779	909	1038	1168
Shaft r/min. at	3.109:1	311	466	622	777	933	1088	1244	1399
Gear Ratios of:	3.947:1	395	592	789	987	1184	1381	1579	1776
	6.192:1	619	929	1238	1548	1858	2167	2477	2786

*For operations below 100 rpm and for reverse rotation, consult manufacturer for lubrication recommendations.