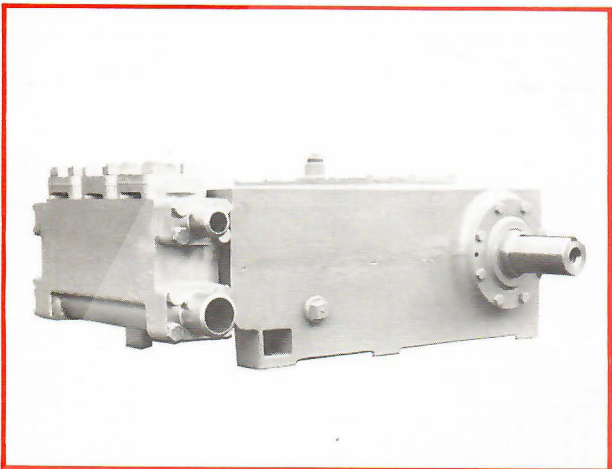


# A-324 Triplex



## Specifications

	English		Metric	
Pump Size (Max. Plunger Dia. x Stroke)	inches	2¼ x 4	mm	57 x 102
Standard Plunger Sizes	inches	1¼, 1½, 1¾, 2, 2½, and 2¾	mm	32, 35, 38, 41, 44, 48, 51, 54, and 57
Rated bhp at 450 rpm	hp	100	kW	75
Maximum Working Pressure:				
Discharge	psi	5000	kPa	34474
Suction	psi	275	kPa	1896
Two Suction Connections: Pipe Size	inches	3	mm	76
Classification		Sch. 80		Sch. 80
Prepared For Welding		V-Bevel		V-Bevel
Two Discharge Connections: Pipe Size	inches	2	mm	51
Classification		Sch. 160		Sch. 160
Prepared For Welding		V-Bevel		V-Bevel
Crankshaft Extension: Diameter	inches	3.750	mm	95
Length	inches	7½	mm	191
Keyway (Width x Depth)	inches	¾ x 7/16	mm	22 x 11
Pinion Shaft Extension (If Gear Unit Supplied):				
Diameter	inches	2.875	mm	73
Length	inches	6¾	mm	171
Keyway (Width x Depth)	inches	¾ x ¼	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	37
Gear Unit (Capacity Varies with Gear Ratio)	gallons	—	litres	—
Weight: Pump Only				
(On Wood Shipping Skids) (Est.)	pounds	1700	kg	771
Gear Unit (Weight Varies with Gear Unit) (Est.)	pounds	575	kg	261

Plunger Diameter			Stuffing Box Bore		
Inches	mm		Inches	mm	
1¼ - 1½	32 - 38		2¼	57	
1½ - 1¾	41 - 48		2½	67	
2 - 2¼	51 - 57		3	76	

## Performance Data

(Volumes Indicated are Displacement of Noncompressible Fluid)

Plgr. Dia. In.	Plgr. Area (Sq. In.)	Displacement Gal. Per Rev.	Max. Pressure psi	ENGLISH UNITS																	
				*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		
1¼	1.2272	.0637	5000	219	6.37	328	9.56	437	12.75	546	15.94	656	19.12	765	22.31	874	25.50	984	28.69		
1½	1.4849	.0771	4445	265	7.71	397	11.57	529	15.43	661	19.28	793	23.14	926	27.00	1058	30.85	1190	34.71		
1¾	1.7671	.0918	3735	315	9.18	472	13.77	629	18.36	787	22.95	944	27.54	1102	32.13	1259	36.72	1416	41.31		
1	2.0739	.1077	3182	370	10.77	554	16.16	739	21.55	923	26.93	1108	32.32	1293	37.71	1478	43.09	1662	48.48		
1¼	2.4053	.1249	2744	429	12.49	643	18.74	857	24.99	1071	31.24	1285	37.48	1499	43.73	1714	49.98	1928	56.23		
1½	2.7612	.1434	2390	492	14.34	736	21.52	984	28.69	1229	35.86	1475	43.03	1721	50.20	1967	57.37	2213	64.55		
2	3.1416	.1632	2101	560	16.32	839	24.48	1119	32.64	1399	40.80	1679	48.96	1958	57.12	2238	65.28	2518	73.44		
2½	3.5466	.1842	1861	632	18.42	948	27.64	1263	36.85	1579	46.06	1895	55.27	2211	64.48	2527	73.69	2843	82.91		
2¾	3.9761	.2065	1660	708	20.65	1062	30.98	1416	41.31	1770	51.64	2125	61.96	2479	72.29	2833	82.62	3187	92.95		
Brake Horsepower Required				22		33		44		56		67		78		89		100			

Plgr. Dia. mm	Plgr. Area cm²	Displacement L/rev.	Max. Pressure kPa	METRIC UNITS																	
				*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		
32	7.9173	2413	34474	35	.40	52	.60	69	.80	87	1.01	104	1.21	122	1.41	139	1.61	156	1.81		
35	9.5799	2920	30647	42	.49	63	.73	84	.97	105	1.22	126	1.46	147	1.70	168	1.95	189	2.19		
38	11.4009	3475	25751	50	.58	75	.87	100	1.16	125	1.45	150	1.74	175	2.03	200	2.32	225	2.61		
41	13.3802	4078	21942	59	.68	88	1.02	117	1.36	147	1.70	176	2.04	206	2.38	235	2.72	264	3.06		
44	15.5179	4730	18919	68	.79	102	1.18	136	1.58	170	1.97	204	2.36	238	2.76	272	3.15	306	3.55		
48	17.8139	5430	16481	78	.90	117	1.36	156	1.81	195	2.26	235	2.71	274	3.17	313	3.62	352	4.07		
51	20.2683	6178	14485	89	1.03	133	1.54	178	2.06	222	2.57	267	3.09	311	3.60	356	4.12	400	4.63		
54	22.8810	6974	12831	100	1.16	151	1.74	201	2.32	251	2.91	301	3.49	351	4.07	402	4.65	452	5.23		
57	25.6521	.7819	11445	113	1.30	169	1.95	225	2.61	281	3.26	338	3.91	394	4.56	450	5.21	507	5.86		
Kilowatt Required				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	396	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.