

PUMP MODEL

TRIPLEX PLUNGER PUMP RRP 34 T



This four-inch stroke pump is equipped with mono block Forged Steel fluid end, designed to handle various fluid.

Working Pressure

Upto 3,180 psig

Displacement

4,760 bpd (138.85gpm)

at 1111 psig

1662 bpd (48.48gpm)

At 3180 psig

NOTE:-THIS PUMP MODEL CAN ALSO BE USED WITH EXTERNAL LUBRICATION SYSTEM TO INCREASE THE PUMP CAPACITY UPTO 125 HP WITH SAME PLUNGER DIA:-(MODEL RRP 34 TH)

SPECIFICATIONS

	ENGLISH		METRIC		MAINTENANCE FEATURES
Pump size(max .Plunger Dia x Stroke)	Inches	3x 4	mm	76 x 102	
Standard Plunger Sizes	Inches	1-5/8,1-3/4,1-7/8, 2, 2-1/8, 2-1/4, 2-3/8, 2-1/2,2-5/8, 2-3/4, 2-7/8 and 3	mm	41, 44, 48, 51, 54, 57, 60, 64, 67, 70, 73 and 76	• Horizontal design • Large power end access covers and doors • Outside access forbearing adjustment • Separate crosshead-plunger shank construction • Open frame cradles • Removable stuffing boxes
Rated bhp at 450rpm	hp	100	Kw	75	
Hydrostatic Test Pressure: Discharge	psi	4770	kPa	32888	
Suction	psi	412.5	kPa	2844	
Maximum Working Pressure: Discharge	psi	3180	kPa	21925	
Suction	psi	275	kPa	1896	
Two Suction Connection: Pipe Size	Inches	4", Sch-40	mm	102, Sch-40	
Two Discharge Connection: Pipe Size	Inches	3", Sch-160	mm	76, Sch-160	
Crank Shaft Extension: Diameter	Inches	3.750	mm	95	
Length	Inches	7½	mm	191	
Keyway (Width x Depth)	Inches	7/8 x 7/16	mm	22 x 11	
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 Rod Load	Pounds	6600	N	29358	
Oil Capacity (Crank Case)	Gallons	10	Litre	38	
Gear Unit (Capacity Varies with Gear Ratio)	Gallons ----		---		
Weight (On wooden shipping skid)(Est.)	Pounds	1685	Kg	764	
Gear Unit (weight Varies with Gear Ratio) (Est.)	Pounds	575	Kg	261	

PLUNGER DIA (INCH)	PLUNGER DIA (mm)	STUFFING BOX BORE (INCH)	STUFFING BOX BORE (mm)
1 5/8 - 1 7/8	41 - 48	2 5/8	67
2 - 2 1/4	51 - 57	3	76
2 3/8 - 2 5/8	60 - 67	3 3/8	86
2 3/4 - 3	70 - 76	3 3/4	95

PUMP PERFORMANCE DATA

ENGLISH UNIT

Plgr.Dia (inch)	Plunger Area (Sq.inch)	Displacement (Gal.PerRev.)	Maximum Pressure (psi)	100rpm		150rpm		200rpm		250rpm		300rpm		350rpm		400rpm		450rpm	
				bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm
1%	2.0739	0.1077	3180	369	10.76	554	16.16	739	21.55	923	26.92	1108	32.32	1293	37.71	1478	43.11	1662	48.48
1%	2.4053	0.1249	2740	428	12.48	643	18.75	857	25.00	1071	31.24	1285	37.48	1499	43.72	1714	49.99	1928	56.23
1%	2.7612	0.1434	2390	492	14.35	738	21.53	984	28.70	1229	35.85	1475	43.02	1721	50.20	1967	57.37	2213	64.55
2	3.1416	0.1632	2100	560	16.33	839	24.47	1119	32.64	1399	40.80	1679	48.97	1958	57.11	2238	65.28	2518	73.44
2%	3.5466	0.1842	1860	632	18.43	948	27.65	1263	36.84	1579	46.05	1895	55.27	2211	64.49	2527	73.70	2843	82.92
2%	3.9761	0.2065	1660	708	20.65	1062	30.98	1416	41.30	1770	51.63	2125	61.98	2479	72.30	2833	82.63	3187	92.95
2%	4.4301	0.2301	1500	789	23.01	1184	34.53	1578	46.03	1973	57.55	2367	69.04	2762	80.56	3156	92.05	3551	103.57
2%	4.9087	0.2550	1340	874	25.49	1311	38.24	1749	51.01	2186	63.76	2623	76.50	3060	89.25	3497	102.00	3934	114.74
2%	5.4119	0.2811	1215	964	28.12	1446	42.18	1928	56.23	2410	70.29	2892	84.35	3374	98.41	3856	112.47	4338	126.53
2%	5.9396	0.3085	1111	1058	30.86	1587	46.29	2116	61.72	2645	77.15	3174	92.58	3703	108.00	4232	123.43	4760	138.83
2%	6.4918	0.3372	1017	1156	33.72	1734	50.58	2312	67.43	2891	84.32	3469	101.18	4047	118.04	4625	134.90	---	---
3	7.0686	0.3672	934	1259	36.72	1888	55.07	2518	73.44	3147	91.79	3777	110.16	4406	128.51	4721	137.70	---	---
Brake Horse Power Required				22		33		44		56		67		78		89		100	

METRIC UNIT

Plgr.Dia (mm)	Plunger Area (cm²)	Displacement (L / Rev.)	Maximum Pressure (kPa)	100rpm		150rpm		200rpm		250rpm		300rpm		350rpm		400rpm		450rpm	
				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
41	13.3802	0.4078	21925	59	0.68	88	1.02	117	1.35	147	1.70	176	2.04	206	2.38	235	2.72	264	3.06
44	15.5179	0.4730	18891	68	0.79	102	1.18	136	1.57	170	1.97	204	2.36	238	2.75	272	3.15	306	3.54
48	17.8139	0.5430	16478	78	0.90	117	1.35	156	1.81	195	2.26	235	2.72	274	3.17	313	3.62	352	4.07
51	20.2683	0.6178	14479	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	0.6974	12824	100	1.16	151	1.75	201	2.33	251	2.91	301	3.48	351	4.06	402	4.65	452	5.23
57	25.6521	0.7819	11445	113	1.31	169	1.96	225	2.60	281	3.25	338	3.91	394	4.56	450	5.21	507	5.87
60	28.5815	0.8712	10342	125	1.45	188	2.18	251	2.91	314	3.63	376	4.35	439	5.08	502	5.81	565	6.54
64	31.6692	0.9653	9239	139	1.61	208	2.41	278	3.22	347	4.02	417	4.83	486	5.63	556	6.44	625	7.23
67	34.9153	1.0642	8377	153	1.77	230	2.66	306	3.54	383	4.43	460	5.32	536	6.20	613	7.09	690	7.99
70	38.3198	1.1680	7660	168	1.94	252	2.92	336	3.89	420	4.86	505	5.84	589	6.82	673	7.79	757	8.76
73	41.8825	1.2766	7011	184	2.13	276	3.19	368	4.26	460	5.32	551	6.38	643	7.44	735	8.51		
76	45.6037	1.3900	6440	200	2.31	300	3.47	400	4.63	500	5.79	600	6.94	701	8.11	801	9.27		
Kilo-watt Input				17		25		33		41		50		58		66		75	

ENGLISH AND METRIC

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