

PUMP MODEL

TRIPLEX PLUNGER PUMP RRP 23 T



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

Working Pressure
Upto 2,290 psig

Displacement
3280 bpd (95.62 gpm)
at 970 psig
1386 bpd (40.40gpm)
At 2290 psig

SPECIFICATIONS					
	ENGLISH		METRIC		MAINTENANCE FEATURES
Pump size (max .Plunger Dia x Stroke)	Inches	2½ X 3	mm	64 x 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
Standard Plunger Sizes	Inches	1-5/8,1-3/4,1-7/8 2, 2-1/8, 2-1/4, 2-3/8 and 2-1/2	mm	41, 44, 48, 51, 54, 57, 60 & 64	
Rated bhp at 500 rpm	hp	60	Kw	45	
Hydrostatic Test Pressure: Discharge	psi	3435	kPa	23683	
Suction	psi	412.5	kPa	2844	
Maximum Working Pressure: Discharge	psi	2290	kPa	15789	
Suction	psi	275	kPa	1896	
Two Threaded Suction Connection: (Pipe Tap)	Inches	3”	mm	76	
Two Discharge Connection: Pipe Tap	Inches	2”	mm	51	
Crank Shaft Extension: Diameter	Inches	2.995	mm	76	
Length	Inches	4 ¾	mm	121	
Keyway (Width x Depth)	Inches	3/4 x 3/8	mm	19 x 10	
Accessory Gear Units Reduction Ratios		3.54:1		3.54:1	
		3.95:1		3.95:1	
		4.45:1		4.45:1	
Rated Plunger Rod Load	Pounds	4750	N	21129	
Oil Capacity (Crank Case)	Gallons	2½	Litres	9	
Gear Unit (Horizontally Mounted)	Gallons	1½	Litres	6	
Weight (On wooden shipping skid)(Est.)	Pounds	860	Kg	390	
Gear Unit (weight Varies with Gear Ratio) (Est.)	Pounds	175	Kg	79	

PLUNGER DIA (INCH)	PLUNGER DIA (mm)	STUFFING BOX BORE (INCH)	STUFFING BOX BORE (mm)
1 5/8	41	2 1/4	57
1 3/4 - 2 1/2	44 – 64	3	76

PUMP PERFORMANCE DATA

ENGLISH UNIT

Plgr.Dia (inch)	Plunger Area	Displacement (Gal.Per Rev.)	Maximum Pressure (psi)	100 rpm		200 rpm		300 rpm		400 rpm		500 rpm	
	(Sq.inch)			bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm
1½	2.0739	0.0808	2290	277	8.08	554	16.16	831	24.24	1109	32.35	1386	40.43
1¾	2.4053	0.0937	1980	321	9.36	643	18.75	964	28.12	1286	37.51	1607	46.87
1⅞	2.7612	0.1076	1720	369	10.76	738	21.53	1107	32.29	1476	43.05	1845	53.81
2	3.1416	0.1224	1510	420	12.25	840	24.50	1259	36.72	1679	48.97	2099	61.22
2¼	3.5466	0.1382	1340	474	13.83	948	27.45	1422	41.48	1896	55.30	2370	69.13
2½	3.9761	0.1549	1200	531	15.49	1063	31.00	1594	46.49	2125	61.98	2657	77.50
2⅝	4.4301	0.1726	1070	592	17.27	1184	34.53	1776	51.80	2368	69.07	2960	86.33
2⅞	4.9087	0.1912	970	656	19.13	1312	38.27	1968	57.40	2624	76.53	3280	95.67
Brake Horse Power Required				12		24		36		48		60	

METRIC UNIT

Plgr.Dia (mm)	Plunger Area	Displacement (L / Rev.)	Maximum Pressure (kPa)	100 rpm		200 rpm		300 rpm		400 rpm		500 rpm	
	(cm²)			m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s
41	13.3802	0.3059	15789	44	0.51	88	1.02	132	1.53	176	2.04	220	2.55
44	15.5179	0.3547	13651	51	0.59	102	1.18	153	1.77	204	2.36	255	2.95
48	17.8139	0.4072	11859	59	0.68	117	1.35	176	2.04	235	2.72	293	3.39
51	20.2683	0.4633	10411	67	0.78	133	1.54	200	2.31	267	3.09	334	3.87
54	22.881	0.5231	9239	75	0.87	151	1.75	226	2.62	301	3.48	377	4.36
57	25.6521	0.5864	8274	84	0.97	169	1.96	253	2.93	338	3.91	422	4.88
60	28.5815	0.6534	7377	94	1.09	188	2.18	282	3.26	376	4.35	470	5.44
64	31.6692	0.7240	6688	104	1.20	208	2.41	313	3.62	417	4.83	521	6.03
Kilo-watt Input				9		18		27		36		45	

ENGLISH AND METRIC

Gear Unit Pinion Shaft r / min at Gear Ratios of:	3.54:1	354	708	1062	1416	1770
	3.95:1	395	790	1185	1580	1975
	4.45:1	445	890	1335	1780	2225