

PUMP MODEL

TRIPLEX PLUNGER PUMP RRP 56 TW



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

Working Pressure

Upto 1,040 psig

Displacement

20992 bpd (612 gpm)

at 403 psig

8229 bpd (239.90gpm)

At 1040 psig

NOTE:-THIS PUMP MODEL CAN ALSO BE USED WITH INTERNAL GEAR REDUCTION SYSTEM :- MODEL(RRP 56 TGW)

SPECIFICATIONS

	ENGLISH		METRIC		MAINTENANCE FEATURES • Horizontal design • Large power end access covers and doors • Outside access for bearing adjustment • Separate crosshead-plunger shank construction • Open frame cradles • Removable stuffing boxes • These pumps have wing type guide valve for crude oil application
Pump size(max Plunger Dia x Stroke)	Inches	5 x 6	mm	127 x 152	
Standard Plunger Sizes	Inches	3-1/2, 3-3/4, 4, 4-1/4, 4-1/2, and 5	mm	89, 95, 102, 108, 114, and 127	
Rated bhp at 400rpm	hp	160	Kw	119	
Hydrostatic Test Pressure: Discharge	psi	1560	kPa	10756	
Suction	psi	450	kPa	3103	
Maximum Working Pressure: Discharge	psi	1040	kPa	7171	
Suction	psi	300	kPa	2068	
Two Flanged Suction Connection: Pipe Size	Inches	6"	mm	152	
ANSI Rating	Class	300	Class	300	
Two Flanged Discharge Connection: Pipe Size	Inches	4	mm	102	
ANSI Rating	Class	600	Class	600	
Crank Shaft Extension: Diameter	Inches	4.495	mm	114	
Length	Inches	8½	mm	216	
Keyway (Width x Depth)	Inches	1 x ¾	mm	25 x 10	
Rated Plunger Rod Load	Pounds	10000	N	44482	
Oil Capacity (Crank Case)	Gallons	21	Litre	79	
Weight (On wooden shipping skid) (Est.)	Pounds	3775	Kg	1712	

PLUNGER DIA (INCH)	PLUNGER DIA (mm)	STUFFING BOX BORE (INCH)	STUFFING BOX BORE (mm)
3½	89	4⅞	105
3¾ - 4½	95 - 114	5¼	133
5	127	6	152

PUMP PERFORMANCE DATA

ENGLISH UNIT

Plgr.Dia (inch)	Plunger Area	Displacement (Gal.PerRev.)	Maximum Pressure (psi)	100rpm		200 rpm		300 rpm		* 320 rpm		400		
	(Sq.inch)			bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm	psi	bpd	gpm
3½	9.6211	0.7497	1040	2571	74.99	5143	150.00	7714	224.99	8229	240.01	823	10286	300.01
3¾	11.045	0.8606	905	2952	86.10	5904	172.20	8856	258.30	9446	275.51	716	11808	344.40
4	12.566	0.9792	795	3359	97.97	6717	195.91	10076	293.88	10748	313.48	630	13435	391.85
4¼	14.186	1.1054	705	3792	110.60	7583	221.17	111375	3248.44	12133	353.88	558	15166	3359.01
4½	15.904	1.2393	625	4251	123.99	8502	247.98	12752	371.93	13603	396.75	497	17003	495.92
5	19.635	1.5300	505	5248	153.07	10496	306.13	15744	459.20	16793	489.80	403	20992	612.27
Brake Horse Power Required				50		100		150		160		160		

METRIC UNIT

Plgr.Dia (mm)	Plunger Area	Displacement (L / Rev.)	Maximum Pressure (kPa)	100rpm		200 rpm		300 rpm		* 320 rpm		400 rpm		
	(cm²)			m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s	kpa	m³/d	L/s
89	62.0717	2.8379	7171	409	4.73	817	9.46	1226	14.19	1308	15.14	5674	1635	18.92
95	71.2557	3.2578	6240	469	5.43	938	10.86	1407	16.28	1501	17.37	4937	1876	21.71
102	81.0732	3.7067	5481	534	6.18	1068	12.36	1601	18.53	1708	19.77	4345	2135	24.71
108	91.5240	4.1845	4860	603	6.98	1205	13.95	1808	20.93	1928	22.31	3849	2410	27.89
114	102.6083	4.6912	4309	676	7.82	1351	15.64	2027	23.46	2162	25.02	3427	2702	31.27
127	126.6769	5.7917	3482	834	9.65	1668	19.31	2502	28.96	2669	30.89	2779	3336	38.61
Kilo-watt Input				38		75		113		119		119		

*PUMP SPEEDS IN EXCESS OF 250 RPM REQUIERES SPECIFIC APPROVAL OF THE MANUFACTURER, VISCOSITY, TEMPERATURE, VELOCITIES AND OTHER FLUID PROPERTIES OR CHARACTERISTICS COMBINED WITH THE INHERENT MECHANICAL EFFICIENCIES OF PUMP MAY RESULT IN LESS THAN OPTIMUM OPERATIONS. WE HAVE APPLIED THIS CONSERVATISM TO ASSURE YOU TOTAL PERFORMANCE.