



## Specifications

	English		Metric	
Pump Size (Max. Plunger Dia. x Stroke)	inches	2 1/2 x 3	mm	64 x 76
Standard Plunger Sizes	inches	1 1/2, 1 3/4, 1 3/8, 1 1/2, 1 1/4, 1 1/8, 1 1/4, 2, 2 1/8, 2 1/4, 2 1/2, and 2 3/4	mm	29, 32, 35, 38, 41, 44, 48, 51, 54, 57, 60, and 64
Rated bhp at 500 rpm	hp	60	kW	45
Maximum Working Pressure:				
Discharge	psi	2290	kPa	15789
Suction	psi	425	kPa	2930
Two Threaded Suction Connections: (Pipe Tap)	inches	2 1/2	mm	64
Two Threaded Discharge Connections: (Pipe Tap)	inches	2	mm	51
Crankshaft Extension: Diameter	inches	2.995	mm	76
Length	inches	4 3/4	mm	121
Keyway (Width x Depth)	inches	3/4 x 3/8	mm	19 x 10
Pinion Shaft Extension: Diameter	inches	1.870	mm	47
(If Gear Unit Supplied): Length	inches	4 7/8	mm	124
Keyway (Width x Depth)	inches	1/2 x 3/4	mm	13 x 6
Accessory Gear Units (Reduction Ratios)		3.54:1, 3.95:1, 4.45:1		3.54:1, 3.95:1, 4.45:1
Rated Plunger Load	pounds	4750	N	21129
Oil Capacity Crankcase	gallons	2 1/2	litres	13
Gear Unit (Vertically Mounted)	gallons	1	litres	4
Gear Unit (Horizontally Mounted)	gallons	1 1/2	litres	6
Weight: Pump Only				
(On Wood Shipping Skids) (Est.)	pounds	860	kg	390
Gear Unit (Est.)	pounds	175	kg	79

Plunger Diameter		Stuffing Box Bore	
Inches	mm	Inches	mm
1 1/2 - 1 3/8	29 - 41	2 1/4	57
1 3/4 - 2 1/2	44 - 64	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		200 rpm		300 rpm		400 rpm		500 rpm	
				bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm	bpd	gpm
1 1/2	.9940	.0387	2290	133	3.87	266	7.75	399	11.62	531	15.49	664	19.36
1 1/4	1.2272	.0478	2290	164	4.78	328	9.56	492	14.34	656	19.12	820	23.91
1 3/8	1.4849	.0579	2290	198	5.79	397	11.57	595	17.36	794	23.14	992	28.93
1 1/2	1.7671	.0688	2290	236	6.88	472	13.77	708	20.65	945	27.54	1181	34.42
1 3/8	2.0739	.0808	2290	277	8.08	554	16.16	831	24.24	1109	32.32	1386	40.40
1 1/4	2.4053	.0937	1980	321	9.37	643	18.74	964	28.11	1286	37.49	1607	46.86
1 3/8	2.7612	.1076	1720	369	10.76	738	21.52	1107	32.27	1476	43.03	1845	53.79
2	3.1416	.1224	1510	420	12.24	840	24.48	1259	36.72	1679	48.96	2099	61.20
2 1/8	3.5466	.1382	1340	474	13.82	948	27.64	1422	41.45	1896	55.27	2370	69.09
2 1/4	3.9761	.1549	1200	531	15.49	1063	30.98	1594	46.47	2125	61.96	2657	77.46
2 3/8	4.4301	.1726	1070	592	17.26	1184	34.52	1776	51.78	2368	69.04	2960	86.30
2 1/2	4.9087	.1912	970	656	19.12	1312	38.25	1968	57.37	2624	76.50	3280	95.62
Brake Horsepower Required				12		24		36		48		60	

Plgr. Dia. mm	Plgr. Area cm²	Displacement L/rev.	Max. Pressure kPa	METRIC UNITS									
				100 r/min.		200 r/min.		300 r/min.		400 r/min.		500 r/min.	
				m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s
29	6.4130	.1465	15789	21	.24	42	.49	63	.73	84	.98	106	1.22
32	7.9173	.1809	15789	26	.30	52	.60	78	.90	104	1.21	130	1.51
35	9.5799	.2192	15789	31	.37	63	.73	95	1.10	126	1.46	158	1.83
38	11.4009	.2604	15789	38	.43	75	.87	113	1.30	150	1.74	188	2.17
41	13.3802	.3059	15789	44	.51	88	1.02	132	1.53	176	2.04	220	2.55
44	15.5179	.3547	13652	51	.59	102	1.18	153	1.77	204	2.37	255	2.96
48	17.8139	.4073	11859	59	.68	117	1.36	176	2.04	235	2.71	293	3.39
51	20.2683	.4633	10411	67	.77	134	1.54	200	2.32	267	3.09	334	3.86
54	22.8810	.5231	9239	75	.87	151	1.74	226	2.62	301	3.49	377	4.36
57	25.6521	.5864	8274	84	.98	169	1.95	253	2.93	338	3.91	422	4.89
60	28.5815	.6534	7377	94	1.09	188	2.18	282	3.27	376	4.36	471	5.44
64	31.6692	.7238	6688	104	1.21	209	2.41	313	3.62	417	4.83	521	6.03
Kilowatt Required				9		18		27		36		45	

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