

1757 Duplex Double

Performance Data

PUMP	English Units					25 RPM		40 RPM		55 RPM		70 RPM		85 RPM	
	Piston Dia. In.	Piston Area Sq. In.	BPD per RPM	GPM per RPM	Max. Press. PSI	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM
1757	2.500	4.9087	23.9280	0.6979	1750	599	17.4	958	27.9	1317	38.4	1675	48.9	2034	59.3
	3.000	7.0686	36.6960	1.0703	1750	918	26.8	1468	42.8	2019	58.9	2569	74.9	3120	91.0
	3.500	9.6211	51.9120	1.5141	1362	1298	37.9	2077	60.6	2856	83.3	3634	106.0	4413	128.7
	4.000	12.5664	69.3360	2.0223	1042	1734	50.6	2774	80.9	3814	111.2	4854	141.6	5894	171.9
	4.500	15.9043	89.2080	2.6019	824	2231	65.0	3569	104.1	4907	143.1	6245	182.1	7583	221.2
	5.000	19.6349	111.288	3.2459	667	2783	81.1	4452	129.8	6121	178.5	7791	227.2	9460	275.9
	5.500	23.7583	135.840	3.9620	551	3396	99.1	5434	158.5	7472	217.9	9509	277.3	11547	336.8
Brake Horsepower Required						37		60		82		105		127	

PUMP	Metric Units					25 RPM		40 RPM		55 RPM		70 RPM		85 RPM	
	Plunger Dia. mm	Plunger Area cm ²	M ³ /Hr per RPM	L/Sec. per RPM	Max. Press. kPa	M ³ /Hr	L/Sec.	M ³ /Hr	L/Sec.	M ³ /Hr	L/Sec.	M ³ /Hr	L/Sec.	M ³ /Hr	L/Sec.
1757	64	31.669	0.1585	0.0440	12066	4.0	1.1	6.3	1.8	8.7	2.4	11.1	3.1	13.5	3.7
	76	45.604	0.2431	0.0675	12066	6.1	1.7	9.7	2.7	13.4	3.7	17.0	4.7	20.7	5.7
	89	62.072	0.3439	0.0955	9388	8.6	2.4	13.8	3.8	18.9	5.3	24.1	6.7	29.2	8.1
	102	81.073	0.4593	0.1276	7188	11.5	3.2	18.4	5.1	25.3	7.0	32.1	8.9	39.0	10.8
	114	102.608	0.5909	0.1642	5679	14.8	4.1	23.6	6.6	32.5	9.0	41.4	11.5	50.2	14.0
	127	126.677	0.7371	0.2048	4600	18.4	5.1	29.5	8.2	40.5	11.3	51.6	14.3	62.7	17.4
	140	153.279	0.8998	0.2500	3802	22.5	6.2	36.0	10.0	49.5	13.7	63.0	17.5	76.5	21.2
Kilowatts Required						28		45		61		78		95	

For operation below 54 RPM, an auxiliary lubrication system is required.

RPM shown is Crankshaft speed. For Pinion Shaft speed, multiply RPM by Gear Ratio. Volumetric Rate is based on 100% Volumetric Efficiency. Brake Horsepower/Kilowatts Required is based on 85% Mechanical Efficiency.

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