



**NATIONAL OILWELL**

**MISSION PRODUCTS GROUP**

**1759**

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
1759	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
	6.000	28.2743	162.576	4.7418	463	4065	118.5	6504	189.7	8942	260.8	11381	331.9	13819	403.1
	6.500	33.1830	191.664	5.5902	395	4792	139.8	7667	223.6	10542	307.5	13417	391.3	16292	475.2
	7.000	38.4845	223.200	6.5100	340	5580	162.8	8928	260.4	12276	358.1	15624	455.7	18972	553.4
	7.500	44.1786	257.040	7.4970	297	6426	187.4	10282	299.9	14138	412.3	17993	524.8	21849	637.2
<b>Brake Horsepower Required</b>					<b>36</b>		<b>58</b>		<b>80</b>		<b>101</b>		<b>123</b>		

PUMP	Metric Units					25 RPM		40 RPM		55 RPM		70 RPM		85 RPM	
	Plunger Dia. cm	Plunger Area cm <sup>2</sup>	M <sup>3</sup> /Hr per RPM	L/Sec. per RPM	Max. Press. kPa	M <sup>3</sup> /Hr	L/Sec.	M <sup>3</sup> /Hr	L/Sec.	M <sup>3</sup> /Hr	L/Sec.	M <sup>3</sup> /Hr	L/Sec.	M <sup>3</sup> /Hr	L/Sec.
1759	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
	152	182.415	1.0769	0.2992	3194	26.9	7.5	43.1	12.0	59.2	16.5	75.4	20.9	91.5	25.4
	165	214.084	1.2695	0.3527	2722	31.7	8.8	50.8	14.1	69.8	19.4	88.9	24.7	107.9	30.0
	178	248.286	1.4784	0.4107	2347	37.0	10.3	59.1	16.4	81.3	22.6	103.5	28.8	125.7	34.9
	191	285.023	1.7026	0.4730	2044	42.6	11.8	68.1	18.9	93.6	26.0	119.2	33.1	144.7	40.2
<b>Kilowatts Required</b>					<b>27</b>		<b>43</b>		<b>59</b>		<b>76</b>		<b>92</b>		

RPM shown is Crankshaft speed. For Pinion Shaft speed, multiply RPM by Gear Ratio.



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