



Flow Chart for 18in Palmer Bowlus Flume

Head (feet)	MGD	CFS	GPM
0.06			
0.07			
0.08	0.03263	0.05049	22.662
0.09	0.03905	0.06042	27.117
0.10	0.04610	0.07133	32.013
0.11	0.05377	0.08319	37.337
0.12	0.06203	0.09597	43.073
0.13	0.07086	0.10964	49.209
0.14	0.08025	0.12417	55.732
0.15	0.09019	0.13954	62.630
0.16	0.10065	0.15572	69.893
0.17	0.11161	0.17269	77.509
0.18	0.12308	0.19043	85.470
0.19	0.13502	0.20891	93.766
0.20	0.14744	0.22812	102.39
0.21	0.16032	0.24805	111.33
0.22	0.17364	0.26867	120.59
0.23	0.18741	0.28997	130.15
0.24	0.20162	0.31195	140.01
0.25	0.21625	0.33458	150.17
0.26	0.23130	0.35787	160.62
0.27	0.24676	0.38180	171.36
0.28	0.26264	0.40637	182.39
0.29	0.27893	0.43157	193.70
0.30	0.29563	0.45741	205.30
0.31	0.31273	0.48387	217.18
0.32	0.33024	0.51096	229.33
0.33	0.34816	0.53868	241.78
0.34	0.36648	0.56703	254.50
0.35	0.38521	0.59601	267.51
0.36	0.40436	0.62563	280.80
0.37	0.42392	0.65590	294.39
0.38	0.44390	0.68681	308.26
0.39	0.46430	0.71838	322.43
0.40	0.48514	0.75062	336.90
0.41	0.50641	0.78354	351.68

Head (feet)	MGD	CFS	GPM
0.42	0.52813	0.81713	366.76
0.43	0.55029	0.85143	382.15
0.44	0.57291	0.88643	397.86
0.45	0.59600	0.92215	413.89
0.46	0.61956	0.95859	430.25
0.47	0.64359	0.9958	446.94
0.48	0.66812	1.0337	463.97
0.49	0.69314	1.0725	481.35
0.50	0.71867	1.1120	499.08
0.51	0.74472	1.1523	517.17
0.52	0.77129	1.1934	535.62
0.53	0.79839	1.2353	554.44
0.54	0.82603	1.2781	573.63
0.55	0.85422	1.3217	593.21
0.56	0.88297	1.3662	613.17
0.57	0.91228	1.4115	633.53
0.58	0.94217	1.4577	654.28
0.59	0.97264	1.5049	675.44
0.60	1.0037	1.5529	697.01
0.61	1.0353	1.6019	718.98
0.62	1.0676	1.6518	741.38
0.63	1.1004	1.7026	764.19
0.64	1.1339	1.7544	787.43
0.65	1.1680	1.8071	811.10
0.66	1.2027	1.8608	835.19
0.67	1.2380	1.9155	859.72
0.68	1.2739	1.9711	884.67
0.69	1.3105	2.0276	910.06
0.70	1.3477	2.0852	935.89
0.71	1.3855	2.1437	962.15
0.72	1.4239	2.2031	988.8
0.73	1.4630	2.2636	1,016.0
0.74	1.5026	2.3249	1,043.5
0.75	1.5429	2.3873	1,071.5
0.76	1.5838	2.4505	1,099.9
0.77	1.6253	2.5147	1,128.7

1) Pipes/channels larger than flume may cause over discharge up to 3% (as noted in chart for upper flow ranges).
 2) Flow ranges are based on meter capability, freeboard allowances and flow studies. Points beyond these may perform satisfactorily.



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0.78	1.6674	2.5798	1,157.9
0.79	1.7101	2.6459	1,187.5
0.80	1.7533	2.7128	1,217.6
0.81	1.7971	2.7806	1,248.0
0.82	1.8415	2.8492	1,278.8
0.83	1.8864	2.9187	1,310.0
0.84	1.9319	2.9891	1,341.6
0.85	1.9779	3.0602	1,373.5
0.86	2.0243	3.1321	1,405.8
0.87	2.0713	3.2048	1,438.4
0.88	2.1188	3.2782	1,471.4
0.89	2.1667	3.3524	1,504.6
0.90	2.2150	3.4272	1,538.2
0.91	2.2638	3.5027	1,572.1
0.92	2.3130	3.5788	1,606.3
0.93	2.3626	3.6555	1,640.7
0.94	2.4126	3.7328	1,675.4
0.95	2.4629	3.8106	1,710.3
0.96	2.5135	3.8890	1,745.5
0.97	2.5645	3.9679	1,780.9
0.98	2.6158	4.0473	1,816.5
0.99	2.6674	4.1271	1,852.4
1.00	2.7193	4.2073	1,888.4
1.01	2.7714	4.2880	1,924.6
1.02	2.8238	4.3690	1,960.9
1.03	2.8764	4.4504	1,997.5
1.04	2.9292	4.5322	2,034.2
1.05	2.9823	4.6142	2,071.0
*For points listed below please see footnote 1.			
1.06	3.0355	4.6967	2,108.0
1.07	3.0890	4.7794	2,145.1
1.08	3.1427	4.8625	2,182.4
1.09	3.1966	4.9459	2,219.9
1.10	3.2507	5.0296	2,257.5
1.11	3.3051	5.1137	2,295.2
1.12	3.3597	5.1982	2,333.1
1.13	3.4145	5.2831	2,371.2
1.14	3.4697	5.3684	2,409.5
1.15	3.5251	5.4541	2,448.0
1.16	3.5809	5.5404	2,486.7

1.17	3.6370	5.6273	2,525.7
1.18	3.6936	5.7149	2,565.0
1.19	3.7507	5.8032	2,604.6
1.20	3.8083	5.8923	2,644.6
1.21	3.8665	5.9823	2,685.1
1.22	3.9254	6.0735	2,726.0
1.23	3.9850	6.1658	2,767.4
1.24	4.0456	6.2594	2,809.4
1.25	4.1070	6.3545	2,852.1
1.26	4.1696	6.4514	2,895.6
1.27	4.2334	6.5501	2,939.9
1.28	4.2985	6.6508	2,985.1
1.29	4.3652	6.7540	3,031.4
1.30	4.4335	6.8597	3,078.8
1.31	4.5037	6.9682	3,127.6

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