



Flow Chart for 12in Palmer Bowlus Flume

Head (feet)	MGD	CFS	GPM
0.01			
0.02			
0.03			
0.04			
0.05	0.01058	0.01637	7.3465
0.06	0.01425	0.02205	9.898
0.07	0.01836	0.02840	12.748
0.08	0.02288	0.03540	15.887
0.09	0.02780	0.04302	19.307
0.10	0.03312	0.05125	23.001
0.11	0.03882	0.06007	26.961
0.12	0.04490	0.06948	31.183
0.13	0.05135	0.07945	35.661
0.14	0.05816	0.08999	40.390
0.15	0.06533	0.10108	45.367
0.16	0.07285	0.11271	50.588
0.17	0.08072	0.12489	56.053
0.18	0.08893	0.13760	61.759
0.19	0.09750	0.15085	67.706
0.20	0.10641	0.16463	73.893
0.21	0.11566	0.17896	80.322
0.22	0.12527	0.19382	86.993
0.23	0.13523	0.20923	93.910
0.24	0.14555	0.22519	101.07
0.25	0.15622	0.24171	108.49
0.26	0.16726	0.25880	116.16
0.27	0.17868	0.27646	124.08
0.28	0.19047	0.29470	132.27
0.29	0.20265	0.31354	140.73
0.30	0.21521	0.33299	149.45
0.31	0.22818	0.35305	158.46
0.32	0.24156	0.37375	167.75
0.33	0.25535	0.39509	177.33
0.34	0.26957	0.41709	187.20
0.35	0.28422	0.43975	197.37
0.36	0.29931	0.46310	207.85
0.37	0.31485	0.48714	218.64
0.38	0.33084	0.51189	229.75
0.39	0.34730	0.53735	241.18
0.40	0.36422	0.56354	252.93

Head (feet)	MGD	CFS	GPM
0.41	0.38163	0.59046	265.02
0.42	0.39951	0.61813	277.44
0.43	0.41788	0.64656	290.19
0.44	0.43674	0.67573	303.29
0.45	0.45609	0.70568	316.73
0.46	0.47594	0.73638	330.51
0.47	0.49628	0.76785	344.64
0.48	0.51711	0.80009	359.11
0.49	0.53844	0.83309	373.92
0.50	0.56026	0.86685	389.07
0.51	0.58256	0.90135	404.56
0.52	0.60534	0.93660	420.38
0.53	0.62860	0.97258	436.53
0.54	0.65232	1.0093	453.00
0.55	0.67649	1.0467	469.79
0.56	0.70111	1.0848	486.88
0.57	0.72616	1.1235	504.28
0.58	0.75162	1.1629	521.96
0.59	0.77749	1.2030	539.93
0.60	0.80375	1.2436	558.16
0.61	0.83037	1.2848	576.65
0.62	0.85734	1.3265	595.38
0.63	0.88465	1.3688	614.34
0.64	0.91227	1.4115	633.52
0.65	0.94018	1.4547	652.90
0.66	0.96837	1.4983	672.48
0.67	0.9968	1.5423	692.23
0.68	1.0255	1.5867	712.14
0.69	1.0544	1.6314	732.20
0.70	1.0835	1.6764	752.40
*For points listed below please see footnote 1.			
0.71	1.1127	1.7216	772.73
0.72	1.1422	1.7672	793.17
0.73	1.1718	1.8130	813.72
0.74	1.2015	1.8590	834.38
0.75	1.2314	1.9052	855.13
0.76	1.2614	1.9517	875.97
0.77	1.2916	1.9983	896.92
0.78	1.3219	2.0452	917.97
0.79	1.3523	2.0924	939.13

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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0.80	1.3830	2.1398	960.42
0.81	1.4139	2.1876	981.85
0.82	1.4450	2.2357	1,003.5
0.83	1.4764	2.2843	1,025.3
0.84	1.5081	2.3334	1,047.3
0.85	1.5403	2.3832	1,069.7
0.86	1.5730	2.4337	1,092.3
0.87	1.6062	2.4852	1,115.4
0.88	1.6401	2.5377	1,139.0
0.89	1.6749	2.5915	1,163.1
0.90	1.7106	2.6467	1,187.9
0.91	1.7475	2.7037	1,213.5
0.92	1.7856	2.7627	1,240.0
0.93	1.8252	2.8240	1,267.5
0.94	1.8666	2.8880	1,296.2

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