

## Aquarium Bulkhead Tests

**Bonus content from the July 2009 FAMA magazine article "Go With the Flow."**

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### Results:

These results demonstrate that a:

- 2 inch bulkhead will flow approximately 1350 GPH
- 1 1/2 inch bulkhead will flow approximately 975 GPH
- 1 inch bulkhead will flow approximately 350 GPH
- 3/4 inch bulkhead will flow approximately 165 GPH

Bulkhead Test Data	Bulkhead Size (Inches)	Time (Seconds)	Flow (gph)	Notes
2133	1353	2130	1385	2143 1259 Plumbed with 5 foot horizontal run
2142	1269			Plumbed with 5 foot horizontal run
2139	1295			Plumbed with 5 foot horizontal run
2142	1268			Plumbed with 5 foot horizontal run
2171	1052			Plumbed with 5 foot horizontal run & intake strainer
2169	1065			Plumbed with 5 foot horizontal run & intake strainer
2175	1029			Plumbed with 5 foot horizontal run & intake strainer
2171	1052			Plumbed with 5 foot horizontal run & intake strainer
1/2184	978	1/2187	963	1/2182 989 1/2215 837
845				Plumbed with 5 foot horizontal run
1/2213				Plumbed with 5 foot horizontal run
1/2259	695			Plumbed with 5 foot horizontal run & intake strainer
1/2245	734			Plumbed with 5 foot horizontal run & intake strainer
1/2255	705			Plumbed with 5 foot horizontal run & intake strainer
1188	957			A siphon effect occurred for the entire trial
1535	336	1489	368	1371 485
				A siphon effect occurred for a portion of the trial
1475	379	1500	360	1515 350
1562				320
1567				317
1564				319 155
732				311
1120				159
				Plumbed with 5 foot horizontal run & intake strainer
1105	1171			Plumbed with 5 foot horizontal run & intake strainer
1110	162			Plumbed with 5 foot horizontal run & intake strainer
1102	163			Plumbed with 5 foot horizontal run & intake strainer
3/4489	368			A siphon effect occurred for a portion of the trial
3/41084	1663	4368	489	A siphon effect occurred for the entire trial
3/41094	1653	41094	165	

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