

ORIFICE CHART

Orifice Size	Pressure (PSI) x 1000							
	20	25	30	35	40	45	50	55
0.003	0.027	0.030	0.033	0.035	0.038	0.040	0.042	0.044
0.004	0.047	0.053	0.058	0.062	0.067	0.071	0.075	0.078
0.005	0.074	0.082	0.090	0.098	0.104	0.111	0.117	0.122
0.006	0.106	0.119	0.130	0.141	0.150	0.159	0.168	0.176
0.007	0.145	0.162	0.177	0.191	0.204	0.217	0.229	0.240
0.008	0.189	0.211	0.231	0.250	0.267	0.283	0.299	0.313
0.009	0.239	0.267	0.293	0.316	0.338	0.359	0.378	0.396
0.010	0.295	0.330	0.361	0.390	0.417	0.443	0.467	0.489
0.011	0.357	0.399	0.437	0.472	0.505	0.536	0.565	0.592
0.012	0.425	0.475	0.520	0.562	0.601	0.637	0.672	0.705
0.013	0.499	0.558	0.611	0.660	0.705	0.748	0.789	0.827
0.014	0.578	0.647	0.708	0.765	0.818	0.868	0.915	0.959
0.015	0.664	0.742	0.813	0.878	0.939	0.996	1.050	1.101
0.016	0.755	0.845	0.925	0.999	1.088	1.133	1.194	1.253
0.017	0.853	0.954	1.045	1.128	1.206	1.279	1.348	1.414
0.018	0.956	1.069	1.171	1.265	1.352	1.434	1.512	1.586
0.019	1.065	1.191	1.305	1.409	1.507	1.598	1.684	1.767
0.020	1.180	1.320	1.446	1.562	1.689	1.771	1.866	1.957
0.021	1.301	1.455	1.594	1.722	1.840	1.952	2.058	2.158
0.022	1.428	1.597	1.749	1.889	2.020	2.142	2.258	2.369
0.023	1.581	1.745	1.912	2.065	2.208	2.342	2.466	2.589
0.024	1.700	1.900	2.082	2.249	2.404	2.550	2.688	2.819
0.025	1.844	2.062	2.259	2.440	2.608	2.767	2.916	3.059
0.026	1.995	2.230	2.443	2.639	2.821	2.992	3.154	3.308
0.027	2.151	2.405	2.635	2.846	3.042	3.227	3.402	3.568
0.028	2.314	2.587	2.834	3.061	3.272	3.470	3.658	3.837
0.029	2.482	2.775	3.040	3.283	3.510	3.723	3.924	4.114
0.030	2.656	2.969	3.253	3.513	3.756	3.984	4.199	4.404
0.031	2.836	3.171	3.473	3.752	4.011	4.254	4.484	4.703
0.032	3.022	3.379	3.701	3.998	4.274	4.533	4.778	5.011
0.033	3.214	3.593	3.936	4.251	4.545	4.821	5.081	5.329
0.034	3.411	3.814	4.178	4.513	4.824	5.117	5.394	5.657
0.035	3.615	4.042	4.427	4.782	5.112	5.423	5.716	5.995
0.036	3.825	4.278	4.684	5.059	5.409	5.737	6.047	6.342
0.037	4.040	4.517	4.948	5.345	5.713	6.060	6.388	6.700
0.038	4.261	4.764	5.219	5.637	6.026	6.392	6.738	7.067
0.039	4.489	5.018	5.497	5.938	6.348	6.733	7.097	7.443
0.040	4.722	5.279	5.783	6.246	6.677	7.082	7.466	7.830
0.041	4.961	5.546	6.076	6.562	7.015	7.441	7.844	8.226
0.042	5.206	5.820	6.376	6.886	7.362	7.808	8.231	8.633
0.043	5.456	6.101	6.683	7.218	7.717	8.185	8.627	9.049

How do I use the Orifice Chart?

The numbers in the chart are the amount of UHP water that will flow through a specific size (left side of the chart) at a specific pressure (top of the chart)

A .012 sapphire nozzle will deliver 0.601 GPM at 40,000 PSI and (4) .012 sapphire nozzles will deliver 2.404 GPM at 40,000 PSI.

Use the chart to determine the proper sapphire size for your pump and application.