

Orifice Selection Chart

flow rate (gpm) through an orifice at a given pressure

Orifice Diameter	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	1.068	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	1.669	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	1.561	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	4.276	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
0.044	5.713	6.388	6.997	7.558	8.080	8.570	9.033	9.474
0.045	5.976	6.681	7.319	7.905	8.451	8.964	9.449	9.910