

SAPPHIRE ORIFICE FLOW CHART - GPM

STANDARD ORIFICE NOZZLES (orifice diameter in inches, pressure in psi)

	20,000	22,000	24,000	26,000	28,000	30,000	32,000	34,000	36,000	40,000
.004	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.07	0.07
.005	0.08	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.11
.006	0.11	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.15
.007	0.15	0.16	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.21
.008	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.25	0.26	0.28
.009	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.35
.010	0.30	0.32	0.33	0.35	0.36	0.37	0.38	0.40	0.41	0.43
.011	0.37	0.39	0.40	0.42	0.44	0.45	0.47	0.48	0.49	0.52
.012	0.44	0.46	0.48	0.50	0.52	0.54	0.55	0.57	0.59	0.62
.013	0.51	0.54	0.56	0.59	0.61	0.63	0.65	0.67	0.69	0.73
.014	0.60	0.63	0.65	0.68	0.71	0.73	0.75	0.78	0.80	0.84
.015	0.68	0.72	0.75	0.78	0.81	0.84	0.87	0.89	0.92	0.97
.016	0.78	0.82	0.85	0.89	0.92	0.95	0.98	1.01	1.04	1.10
.017	0.88	0.92	0.96	1.00	1.04	1.08	1.11	1.15	1.18	1.24
.018	0.99	1.03	1.08	1.12	1.17	1.21	1.25	1.28	1.32	1.39
.019	1.10	1.15	1.20	1.25	1.30	1.34	1.39	1.43	1.47	1.55
.020	1.22	1.28	1.33	1.39	1.44	1.49	1.54	1.59	1.63	1.72
.021	1.34	1.41	1.47	1.53	1.59	1.64	1.70	1.75	1.80	1.90
.022	1.47	1.54	1.61	1.68	1.74	1.80	1.86	1.92	1.97	2.08
.023	1.61	1.69	1.76	1.83	1.90	1.97	2.03	2.10	2.16	2.27
.024	1.75	1.84	1.92	2.00	2.07	2.14	2.22	2.28	2.35	2.48
.025	1.90	1.99	2.08	2.17	2.25	2.33	2.40	2.48	2.55	2.69
.026	2.06	2.16	2.25	2.34	2.43	2.52	2.60	2.68	2.76	2.91
.027	2.22	2.32	2.43	2.53	2.62	2.71	2.80	2.89	2.97	3.13
.028	2.38	2.50	2.61	2.72	2.82	2.92	3.02	3.11	3.20	3.37
.029	2.56	2.68	2.80	2.92	3.03	3.13	3.23	3.33	3.43	3.62
.030	2.74	2.87	3.00	3.12	3.24	3.35	3.46	3.57	3.67	3.87
.031	2.92	3.06	3.20	3.33	3.46	3.58	3.70	3.81	3.92	4.13
.032	3.11	3.27	3.41	3.55	3.68	3.81	3.94	4.06	4.18	4.40
.033	3.31	3.47	3.63	3.78	3.92	4.06	4.19	4.32	4.44	4.68
.034	3.51	3.69	3.85	4.01	4.16	4.30	4.45	4.58	4.72	4.97
.035	3.72	3.91	4.08	4.25	4.41	4.56	4.71	4.86	5.00	5.27
.036	3.94	4.13	4.32	4.49	4.66	4.83	4.98	5.14	5.29	5.57
.037	4.16	4.37	4.56	4.75	4.93	5.10	5.27	5.43	5.58	5.89
.038	4.39	4.60	4.81	5.01	5.19	5.38	5.55	5.72	5.89	6.21
.039	4.62	4.85	5.07	5.27	5.47	5.66	5.85	6.03	6.20	6.54
.040	4.86	5.10	5.33	5.55	5.76	5.96	6.15	6.34	6.53	6.88

Above values are calculated, actual results may vary slightly.

SAPPHIRE ORIFICE FLOW CHART - GPM

STANDARD ORIFICE NOZZLES (orifice diameter in inches, pressure in psi)

	42,000	44,000	46,000	48,000	50,000	52,000	54,000	56,000	58,000	60,000
.004	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08
.005	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13
.006	0.16	0.16	0.17	0.17	0.17	0.18	0.18	0.18	0.19	0.19
.007	0.22	0.22	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.26
.008	0.28	0.29	0.30	0.30	0.31	0.31	0.32	0.33	0.33	0.34
.009	0.36	0.37	0.37	0.38	0.39	0.40	0.40	0.41	0.42	0.43
.010	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53
.011	0.53	0.55	0.56	0.57	0.58	0.59	0.60	0.62	0.63	0.64
.012	0.63	0.65	0.66	0.68	0.69	0.71	0.72	0.73	0.75	0.76
.013	0.74	0.76	0.78	0.80	0.81	0.83	0.84	0.86	0.88	0.89
.014	0.86	0.88	0.90	0.92	0.94	0.96	0.98	1.00	1.01	1.03
.015	0.99	1.01	1.04	1.06	1.08	1.10	1.12	1.14	1.17	1.18
.016	1.13	1.15	1.18	1.21	1.23	1.26	1.28	1.30	1.33	1.35
.017	1.27	1.30	1.33	1.36	1.39	1.42	1.44	1.47	1.50	1.52
.018	1.43	1.46	1.49	1.53	1.56	1.59	1.62	1.65	1.68	1.71
.019	1.59	1.63	1.66	1.70	1.74	1.77	1.80	1.84	1.87	1.90
.020	1.76	1.80	1.84	1.88	1.92	1.96	2.00	2.04	2.07	2.11
.021	1.94	1.99	2.03	2.08	2.12	2.16	2.20	2.24	2.28	2.32
.022	2.13	2.18	2.23	2.28	2.33	2.37	2.42	2.46	2.51	2.55
.023	2.33	2.39	2.44	2.49	2.54	2.59	2.64	2.69	2.74	2.79
.024	2.54	2.60	2.66	2.71	2.77	2.82	2.88	2.93	2.98	3.03
.025	2.75	2.82	2.88	2.94	3.00	3.06	3.12	3.18	3.24	3.29
.026	2.98	3.05	3.12	3.18	3.25	3.31	3.38	3.44	3.50	3.56
.027	3.21	3.29	3.36	3.43	3.50	3.57	3.64	3.71	3.77	3.84
.028	3.45	3.54	3.62	3.69	3.77	3.84	3.92	3.99	4.06	4.13
.029	3.71	3.79	3.88	3.96	4.04	4.12	4.20	4.28	4.35	4.43
.030	3.97	4.06	4.15	4.24	4.33	4.41	4.50	4.58	4.66	4.74
.031	4.23	4.33	4.43	4.53	4.62	4.71	4.80	4.89	4.98	5.06
.032	4.51	4.62	4.72	4.82	4.92	5.02	5.12	5.21	5.30	5.39
.033	4.80	4.91	5.02	5.13	5.24	5.34	5.44	5.54	5.64	5.74
.034	5.09	5.21	5.33	5.45	5.56	5.67	5.78	5.88	5.99	6.09
.035	5.40	5.52	5.65	5.77	5.89	6.01	6.12	6.23	6.34	6.45
.036	5.71	5.84	5.98	6.10	6.23	6.35	6.48	6.59	6.71	6.83
.037	6.03	6.17	6.31	6.45	6.58	6.71	6.84	6.97	7.09	7.21
.038	6.36	6.51	6.66	6.80	6.94	7.08	7.21	7.35	7.48	7.60
.039	6.70	6.86	7.01	7.16	7.31	7.46	7.60	7.74	7.88	8.01
.040	7.05	7.22	7.38	7.54	7.69	7.84	7.99	8.14	8.28	8.43

Above values are calculated, actual results may vary slightly.