



BORE SIZE

	1/4	3/8	1/2	5/8	3/4	1	1-1/2	2	2-1/2	3-1/4	4	5	6	8	
1	.0004	.0009	.002	.003	.004	.007	.015	.026	.042	.07	.11	.17	.24	.43	1
2	.0008	.002	.003	.005	.008	.013	.030	.053	.082	.14	.21	.33	.48	.85	2
3	.001	.003	.005	.008	.011	.020	.045	.082	.125	.21	.32	.50	.72	1.30	3
4	.002	.004	.007	.011	.015	.026	.058	.106	.17	.28	.43	.67	.96	1.7	4
5	.002	.005	.008	.013	.019	.033	.077	.135	.21	.35	.53	.83	1.2	2.1	5
6	.003	.006	.010	.016	.022	.040	.091	.16	.25	.42	.64	1.0	1.4	2.6	6
7	.003	.007	.012	.018	.026	.047	.106	.19	.29	.49	.75	1.2	1.7	3.0	7
8	.003	.008	.013	.021	.030	.053	.120	.21	.33	.56	.85	1.3	1.9	3.4	8
9	.004	.009	.015	.024	.034	.058	.135	.24	.38	.63	.96	1.5	2.2	3.8	9
10	.004	.009	.017	.026	.038	.067	.15	.26	.42	.70	1.1	1.7	2.4	4.3	10
11	.005	.010	.018	.029	.041	.072	.16	.29	.46	.77	1.2	1.83	2.6	4.7	11
12	.005	.011	.020	.031	.045	.082	.18	.32	.50	.85	1.3	2.0	2.9	5.1	12
13	.005	.012	.022	.034	.048	.087	.20	.35	.54	.91	1.4	2.2	3.1	5.6	13
14	.006	.013	.024	.037	.053	.091	.21	.38	.58	.99	1.5	2.3	3.4	6.0	14
15	.006	.014	.025	.039	.058	.101	.23	.40	.63	1.1	1.6	2.5	3.6	6.4	15
16	.007	.015	.026	.042	.058	.106	.24	.43	.67	1.13	1.7	2.7	3.8	6.8	16
17	.007	.016	.028	.044	.063	.115	.25	.45	.71	1.2	1.8	2.8	4.1	7.3	17
18	.008	.017	.030	.047	.067	.120	.27	.48	.75	1.3	1.9	3.0	4.3	7.7	18
19	.008	.018	.032	.050	.072	.125	.28	.51	.79	1.3	2.0	3.2	4.6	8.1	19
20	.008	.019	.033	.052	.077	.135	.30	.53	.83	1.4	2.1	3.3	4.8	8.5	20
22	.009	.021	.037	.058	.082	.144	.33	.59	.92	1.6	2.3	3.7	5.3	9.4	22
24	.010	.023	.040	.063	.091	.159	.36	.64	1.0	1.7	2.6	4.0	5.8	10.2	24
26	.011	.024	.043	.067	.096	.173	.39	.69	1.1	1.8	2.7	4.3	6.2	11.1	26
28	.012	.026	.047	.072	.106	.188	.42	.75	1.2	2.0	3.0	4.7	6.7	11.9	28
30	.013	.028	.050	.077	.111	.202	.45	.80	1.3	2.1	3.2	5.0	7.2	12.8	30
	.260	.584	1.04	1.6	2.3	4.2	9.4	16.6	26.0	43.9	66.5	104	150	266	

LEGEND

Cv is based on 70 PSI inlet pressure and 10 PSI pressure drop.
SCFM is calculated for FRL sizing.

Cv to .20 Cv to .30 Cv to .70 Cv to 1.2 Cv to 2.0 Cv to 3.6 Cv to 5.7 Cv to 10 Cv to >10

$$SCFM \times 28.57 = \text{liters}/\text{min}$$

$$\text{liters}/\text{min} \times 0.035 = SCFM$$

$$Bore^2 \times \text{in}/\text{sec} \times 0.0084 = Cv$$

$$\frac{PistonArea(in^2) \times Stroke(in) \times CompressionFactor}{PressureDropFactor \times CycleTime(sec) \times 29} = Cv$$

The purpose of this chart is to give a quick reference guide to sizing pneumatic components. It does not take into account other accessory components, which could affect results.