

# Orifice Low Pressure Air Flow - SCFM

Orifice Diameter	Inches	0.004	0.005	0.006	0.007	0.008	0.009	0.01	0.011	0.012	0.013	0.014	0.015	0.016	0.017	0.018	0.019	0.02	0.021	0.022	0.023	0.024	0.025	0.026	0.027	0.028	
	Millimeters	0.102	0.127	0.152	0.178	0.203	0.229	0.254	0.279	0.305	0.330	0.356	0.381	0.406	0.432	0.457	0.483	0.508	0.533	0.559	0.584	0.610	0.635	0.660	0.686	0.711	
Size Number		4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
C <sub>v</sub>		0.00035	0.00061	0.00086	0.00120	0.0015	0.00190	0.0025	0.00280	0.0034	0.00380	0.0043	0.00500	0.0055	0.00670	0.0073	0.00800	0.0088	0.00960	0.01100	0.01200	0.013	0.01400	0.01600	0.01700	0.01800	
psi	kPa																										
0.073	0.5	0.000333	0.000610	0.000831	0.001182	0.001570	0.002032	0.002531	0.002790	0.003584	0.004157	0.004730	0.005524	0.006023	0.006891	0.007760	0.008683	0.009662	0.010383	0.011621	0.012692	0.013819	0.015002	0.016997	0.017385	0.019399	
0.145	1.0	0.000471	0.000863	0.001177	0.001674	0.002224	0.002878	0.003584	0.003950	0.005075	0.005886	0.006697	0.007822	0.008528	0.009758	0.010987	0.012295	0.013682	0.014702	0.016455	0.017972	0.019568	0.021242	0.024067	0.024616	0.027468	
0.218	1.5	0.000577	0.001059	0.001444	0.002053	0.002727	0.003529	0.004395	0.004844	0.006223	0.007218	0.008212	0.009591	0.010458	0.011965	0.013473	0.015077	0.016777	0.018028	0.020177	0.022038	0.023995	0.026048	0.029512	0.030186	0.033682	
0.290	2.0	0.000668	0.001224	0.001669	0.002374	0.003152	0.004079	0.005081	0.005600	0.007195	0.008344	0.009494	0.011089	0.012090	0.013833	0.015576	0.017431	0.019396	0.020843	0.023327	0.025478	0.027741	0.030114	0.034119	0.034898	0.038941	
0.363	2.5	0.000747	0.001370	0.001868	0.002657	0.003529	0.004567	0.005687	0.006269	0.008054	0.009341	0.010628	0.012413	0.013534	0.015485	0.017436	0.019512	0.021712	0.023331	0.026113	0.028520	0.031053	0.033710	0.038193	0.039065	0.043590	
0.435	3.0	0.000820	0.001503	0.002049	0.002914	0.003870	0.005009	0.006238	0.006875	0.008833	0.010245	0.011656	0.013614	0.014843	0.016983	0.019123	0.021400	0.023813	0.025589	0.028640	0.031281	0.034058	0.036972	0.041890	0.042846	0.047809	
0.508	3.5	0.000886	0.001625	0.002216	0.003151	0.004185	0.005416	0.006746	0.007435	0.009553	0.011079	0.012605	0.014723	0.016052	0.018367	0.020681	0.023143	0.025753	0.027673	0.030972	0.033828	0.036832	0.039983	0.045301	0.046335	0.051702	
0.580	4.0	0.000949	0.001739	0.002372	0.003373	0.004480	0.005797	0.007220	0.007958	0.010224	0.011858	0.013492	0.015758	0.017181	0.019658	0.022136	0.024771	0.027564	0.029619	0.033151	0.036207	0.039422	0.042795	0.048487	0.049594	0.055339	
0.653	4.5	0.001007	0.001847	0.002519	0.003582	0.004757	0.006156	0.007668	0.008451	0.010858	0.012593	0.014328	0.016734	0.018246	0.020876	0.023507	0.026305	0.029271	0.031454	0.035204	0.038450	0.041864	0.045446	0.051491	0.052666	0.058767	
0.725	5.0	0.001063	0.001949	0.002658	0.003780	0.005021	0.006497	0.008092	0.008919	0.011459	0.013290	0.015121	0.017661	0.019256	0.022032	0.024808	0.027761	0.030892	0.033196	0.037153	0.040579	0.044182	0.047962	0.054341	0.055582	0.062020	
0.798	5.5	0.001116	0.002047	0.002791	0.003970	0.005272	0.006823	0.008497	0.009366	0.012033	0.013955	0.015878	0.018545	0.020220	0.023135	0.026050	0.029151	0.032439	0.034858	0.039013	0.042611	0.046394	0.050364	0.057062	0.058365	0.065125	
0.870	6.0	0.001167	0.002140	0.002919	0.004151	0.005513	0.007135	0.008886	0.009794	0.012583	0.014593	0.016604	0.019393	0.021144	0.024193	0.027241	0.030484	0.033922	0.036451	0.040797	0.044559	0.048515	0.052666	0.059671	0.061033	0.068103	
0.943	6.5	0.001217	0.002230	0.003042	0.004326	0.005745	0.007435	0.009260	0.010206	0.013112	0.015208	0.017303	0.020209	0.022034	0.025211	0.028387	0.031767	0.035349	0.037985	0.042514	0.046434	0.050557	0.054882	0.062182	0.063601	0.070969	
1.015	7.0	0.001264	0.002317	0.003160	0.004494	0.005969	0.007725	0.009621	0.010604	0.013624	0.015800	0.017977	0.020997	0.022893	0.026194	0.029494	0.033005	0.036727	0.039466	0.044171	0.048244	0.052528	0.057022	0.064606	0.066081	0.073736	
1.088	7.5	0.001310	0.002402	0.003275	0.004658	0.006186	0.008005	0.009970	0.010989	0.014118	0.016375	0.018631	0.021760	0.023725	0.027145	0.030566	0.034205	0.038062	0.040900	0.045776	0.049997	0.054436	0.059094	0.066954	0.068482	0.076415	
1.160	8.0	0.001355	0.002483	0.003386	0.004816	0.006396	0.008278	0.010310	0.011363	0.014599	0.016932	0.019264	0.022500	0.024532	0.028069	0.031606	0.035368	0.039357	0.042292	0.047333	0.051698	0.056288	0.061104	0.069232	0.070812	0.079014	
1.233	8.5	0.001398	0.002563	0.003495	0.004970	0.006601	0.008543	0.010639	0.011727	0.015066	0.017473	0.019881	0.023220	0.025317	0.028967	0.032617	0.036500	0.040616	0.043645	0.048848	0.053352	0.058090	0.063060	0.071447	0.073078	0.081543	
1.305	9.0	0.001440	0.002640	0.003600	0.005120	0.006800	0.008801	0.010961	0.012081	0.015521	0.018001	0.020481	0.023922	0.026082	0.029842	0.033602	0.037603	0.041843	0.044963	0.050324	0.054964	0.059844	0.064965	0.073605	0.075285	0.084006	
1.378	9.5	0.001481	0.002716	0.003703	0.005267	0.006995	0.009052	0.011274	0.012427	0.015965	0.018516	0.021068	0.024606	0.026828	0.030696	0.034564	0.038679	0.043040	0.046250	0.051764	0.056537	0.061557	0.066824	0.075712	0.077440	0.086410	
1.450	10.0	0.001522	0.002790	0.003804	0.005410	0.007185	0.009299	0.011581	0.012764	0.016399	0.019020	0.021640	0.025275	0.027558	0.031531	0.035504	0.039730	0.044210	0.047507	0.053171	0.058074	0.063230	0.068640	0.077770	0.079545	0.088759	

SCFM - Standard Cubic Feet per Minute

Air at Standard Conditions: 70°F (21.1°C), 14.7 psi (101.4 kPa).

Data based on low pressure extrapolation, positive supply pressure and exhaust to sea level standard (SSL / SLS) conditions.

Air pressure at sea level standard conditions is 14.696 psi (101.325 kPa).

Above data is based on our standard metal restrictor. Flow rates for other orifice restrictors are essentially the same.

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# Orifice Low Pressure Air Flow - SLPM

Orifice Diameter	Inches	0.004	0.005	0.006	0.007	0.008	0.009	0.01	0.011	0.012	0.013	0.014	0.015	0.016	0.017	0.018	0.019	0.02	0.021	0.022	0.023	0.024	0.025	0.026	0.027	0.028	
	Millimeters	0.102	0.127	0.152	0.178	0.203	0.229	0.254	0.279	0.305	0.330	0.356	0.381	0.406	0.432	0.457	0.483	0.508	0.533	0.559	0.584	0.610	0.635	0.660	0.686	0.711	
Size Number		4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
C <sub>v</sub>		0.00035	0.00061	0.00086	0.00120	0.0015	0.00190	0.0025	0.00280	0.0034	0.00380	0.0043	0.00500	0.0055	0.00670	0.0073	0.00800	0.0088	0.00960	0.01100	0.01200	0.01300	0.01400	0.016	0.01700	0.01800	
psi	kPa																										
0.073	0.5	0.0094168	0.0172642	0.023542	0.033482	0.0444683	0.0575472	0.0716724	0.0789966	0.1014923	0.1177101	0.133928	0.1564237	0.1705489	0.1951372	0.2197256	0.2458834	0.2736107	0.2940138	0.3290652	0.3594083	0.3913208	0.4248028	0.4813037	0.4922899	0.549314	
0.145	1.0	0.0133338	0.0244452	0.0333344	0.0474089	0.062965	0.0814841	0.1014847	0.1118554	0.1437083	0.1666719	0.1896356	0.2214885	0.2414891	0.276305	0.311121	0.3481592	0.3874197	0.4163095	0.4659407	0.508905	0.5540916	0.6015005	0.6815031	0.6970591	0.7778024	
0.218	1.5	0.0163505	0.0299759	0.0408762	0.058135	0.0772106	0.0999196	0.1244453	0.1371623	0.1762218	0.204381	0.2325401	0.2715996	0.2961253	0.3388182	0.3815112	0.4269292	0.4750722	0.5104983	0.5713584	0.6240433	0.6794532	0.7375882	0.8356911	0.8547667	0.9537779	
0.290	2.0	0.018903	0.0346555	0.0472575	0.0672107	0.0892642	0.1155184	0.1438729	0.1585752	0.2037324	0.2362876	0.2688427	0.3139999	0.3423544	0.3917123	0.4410701	0.4935785	0.5492373	0.5901938	0.660555	0.7214647	0.7855249	0.8527356	0.9661536	0.9882071	1.1026753	
0.363	2.5	0.02116	0.0387933	0.0529	0.0752355	0.0999222	0.1293111	0.1610511	0.1775089	0.2280578	0.2645	0.3009422	0.3514911	0.3832311	0.4384822	0.4937333	0.552511	0.6148155	0.6606621	0.7394244	0.8076066	0.8793155	0.954551	1.081511	1.1061977	1.2343332	
0.435	3.0	0.0232078	0.0425477	0.0580196	0.0825168	0.1095926	0.1418257	0.1766374	0.194688	0.2501289	0.290098	0.330067	0.385508	0.4203197	0.480918	0.5415162	0.6059824	0.6743166	0.7246003	0.810985	0.8857658	0.9644146	1.0469314	1.1861784	1.2132542	1.3537906	
0.508	3.5	0.0250978	0.0460126	0.0627444	0.0892365	0.1185173	0.1533753	0.191022	0.2105425	0.2704983	0.3137222	0.3569462	0.416902	0.4545486	0.5200817	0.5856148	0.6553308	0.7292299	0.7836084	0.8770279	0.9578985	1.0429521	1.1321886	1.2827753	1.312056	1.464037	
0.580	4.0	0.0268632	0.0492491	0.0671579	0.0955135	0.1268538	0.1641638	0.2044585	0.2253521	0.2895252	0.3357895	0.3820539	0.446227	0.4865217	0.5666644	0.6268071	0.701427	0.7805241	0.8387276	0.9387182	1.0252773	1.1163136	1.2118271	1.373006	1.4043464	1.5670177	
0.653	4.5	0.0285271	0.0522997	0.0713178	0.1014298	0.1347114	0.1743324	0.2171231	0.2393109	0.307459	0.3565891	0.4057191	0.4738672	0.5166579	0.5911454	0.6665329	0.7448749	0.8288715	0.8906802	0.9968645	1.0887853	1.1854605	1.2868903	1.4580531	1.4913347	1.6640823	
0.725	5.0	0.0301065	0.0551952	0.0752662	0.1070453	0.1421695	0.1839841	0.2291438	0.25256	0.324481	0.3763311	0.4281812	0.5001022	0.545262	0.6238733	0.7024847	0.7861139	0.8747608	0.9399915	1.0520545	1.1490643	1.2510919	1.3581372	1.5387761	1.5739003	1.7562118	
0.798	5.5	0.0316139	0.0579589	0.0790348	0.1124051	0.149288	0.1931963	0.2406172	0.2652058	0.340728	0.3951742	0.4496204	0.5251426	0.5725635	0.655111	0.7376585	0.825475	0.9185604	0.9870573	1.1047314	1.2065985	1.3137346	1.4261397	1.6158233	1.6527062	1.8441462	
0.870	6.0	0.0330593	0.0606087	0.0826483	0.1175442	0.1561134	0.2020291	0.251618	0.2773308	0.3563058	0.4132413	0.4701767	0.5491517	0.5987407	0.6850622	0.7713837	0.8632151	0.9605564	1.0321849	1.1552389	1.2617634	1.3737977	1.4913418	1.6896976	1.7282668	1.9284593	
0.943	6.5	0.0344504	0.0631591	0.086126	0.1224903	0.1628825	0.2105303	0.2622059	0.2890006	0.3712988	0.4306301	0.4899613	0.5722595	0.6239351	0.7138889	0.8038428	0.8995384	1.0009757	1.0756182	1.2038503	1.3148571	1.4316057	1.554096	1.7607985	1.8009906	2.009607	
1.015	7.0	0.0357936	0.0656215	0.0894839	0.127266	0.1690252	0.2187385	0.2724288	0.3002683	0.3857752	0.4474196	0.5090641	0.594571	0.6482613	0.7417223	0.8351833	0.9346099	1.0400021	1.1175548	1.2507865	1.3661213	1.4874217	1.6146878	1.8294492	1.8712084	2.0879583	
1.088	7.5	0.037094	0.0680057	0.092735	0.1318898	0.1751662	0.2266856	0.2823266	0.3111775	0.399791	0.4636751	0.5275592	0.6161727	0.6718137	0.7686703	0.8655269	0.9685658	1.077787	1.1581574	1.2962295	1.4157547	1.5414621	1.673352	1.895916	1.9391924	2.1638172	
1.160	8.0	0.0383561	0.0703195	0.0958902	0.1363771	0.1811259	0.2343982	0.2919323	0.3217648	0.4133931	0.4794508	0.5455085	0.6371368	0.6946709	0.7948229	0.8949748	1.0015194	1.1144567	1.1975615	1.3403313	1.4639231	1.5939075	1.7302846	1.960421	2.0051698	2.237437	
1.233	8.5	0.0395834	0.0725696	0.0989585	0.140741	0.1869216	0.2418986	0.3012737	0.3320608	0.4266212	0.4947926	0.562964	0.6575244	0.7168995	0.8202562	0.9236128	1.0335667	1.1501179	1.2358819	1.3832202	1.5107667	1.6449105	1.7856515	2.0231519	2.0693326	2.3090321	
1.305	9.0	0.0407792	0.0747618	0.1019479	0.1449926	0.1925683	0.2492061	0.3103748	0.342092	0.4395089	0.5097397	0.5799705	0.6773874	0.7385562	0.8450351	0.9515141	1.0647895	1.1848616	1.2732164	1.4250056	1.5564051	1.6946012	1.8395938	2.0842689	2.1318446	2.3787851	
1.378	9.5	0.0419461	0.0769011	0.1048652	0.1491416	0.1980786	0.2563371	0.3192562	0.3518809	0.4520854	0.5243258	0.5965662	0.6967707	0.7596898	0.8692157	0.9787415	1.0952583	1.2187662	1.3096493	1.4657819	1.6009415	1.743092	1.8922336	2.14391	2.192847	2.4468538	
1.450	10.0	0.0430864	0.0789918	0.1077161	0.1531962	0.2034637	0.2633059	0.3279356	0.3614472	0.4643759	0.5385803	0.6127847	0.7157134	0.780343	0.8928465	1.0053499	1.1250344	1.2519	1.3452539	1.5056312	1.6444652	1.7904803	1.9436765	2.202195	2.2524625	2.5133748	

SLPM - Standard Liters Per Minute

Air at Standard Conditions: 70°F (21.1°C), 101.4kPa (14.7 psi).

Data based on low pressure extrapolation, positive supply pressure and exhaust to sea level standard (SSL / SLS) conditions.

Air pressure at sea level standard conditions is 101.325 kPa (14.696 psi).

Above data is based on our standard metal restrictor. Flow rates for other orifice restrictors are essentially the same.

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