



Pipe Flow Velocities

Mass Flow v Pipe Velocity

	Tube nom. size														
	Inches	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
	MM	15	20	25	32	40	50	65	80	100	125	150	200	250	300
velocity [m/s]		Mass Flowrate [kg/s ~ l/s]													
0.1		0.02	0.04	0.06	0.10	0.14	0.22	0.37	0.51	0.87	1.33	1.90	3.35	5.33	7.53
0.2		0.04	0.07	0.12	0.20	0.28	0.44	0.74	1.02	1.74	2.65	3.79	6.70	10.65	15.07
0.3		0.06	0.11	0.18	0.31	0.41	0.66	1.11	1.53	2.60	3.98	5.69	10.05	15.98	22.60
0.4		0.08	0.15	0.23	0.41	0.55	0.88	1.48	2.05	3.47	5.30	7.59	13.40	21.30	30.13
0.5		0.10	0.18	0.29	0.51	0.69	1.10	1.85	2.56	4.34	6.63	9.48	16.75	26.63	37.67
0.6		0.12	0.22	0.35	0.61	0.83	1.32	2.22	3.07	5.21	7.95	11.38	20.10	31.95	45.20
0.7		0.14	0.26	0.41	0.71	0.97	1.54	2.59	3.58	6.07	9.28	13.28	23.44	37.28	52.73
0.8		0.16	0.29	0.47	0.81	1.10	1.76	2.97	4.09	6.94	10.60	15.17	26.79	42.61	60.27
0.9		0.18	0.33	0.53	0.92	1.24	1.99	3.34	4.60	7.81	11.93	17.07	30.14	47.93	67.80
1.0		0.20	0.37	0.59	1.02	1.38	2.21	3.71	5.12	8.68	13.25	18.97	33.49	53.26	75.38
1.1		0.22	0.40	0.64	1.12	1.52	2.43	4.08	5.63	9.54	14.58	20.86	36.84	58.58	82.87
1.2		0.24	0.44	0.70	1.22	1.65	2.65	4.45	6.14	10.41	15.9	22.76	40.19	63.91	90.40
1.3		0.26	0.48	0.76	1.32	1.79	2.87	4.82	6.65	11.28	17.23	24.66	43.54	69.22	97.93
1.4		0.29	0.51	0.82	1.43	1.93	3.09	5.19	7.16	12.15	18.55	26.55	46.89	74.56	105.50
1.5		0.31	0.55	0.88	1.53	2.07	3.31	5.56	7.67	13.01	19.88	28.45	50.24	79.89	113.00
1.6		0.33	0.59	0.94	1.63	2.21	3.53	5.93	8.18	13.88	21.21	30.35	53.59	85.21	120.50
1.7		0.35	0.62	1.00	1.73	2.34	3.75	6.30	8.70	14.75	22.53	32.24	56.94	90.54	128.10
1.8		0.37	0.66	1.05	1.83	2.48	3.97	6.67	9.21	15.62	23.86	34.14	60.29	95.86	135.60
1.9		0.39	0.70	1.11	1.93	2.62	4.19	7.04	9.72	16.48	25.18	36.04	63.64	101.20	143.10
2.0		0.41	0.73	1.17	2.04	2.76	4.41	7.41	10.23	17.35	26.51	37.93	66.98	106.50	150.70
2.1		0.43	0.77	1.23	2.14	2.90	4.63	7.78	10.74	18.22	27.83	39.83	70.33	111.80	158.20
2.2		0.45	0.81	1.29	2.24	3.03	4.85	8.16	11.25	19.09	29.16	40.73	73.68	117.20	165.70
2.3		0.47	0.84	1.35	2.34	3.17	5.07	8.53	11.76	19.95	30.48	43.62	77.03	122.50	173.30
2.4		0.49	0.88	1.40	2.44	3.31	5.30	8.90	12.28	20.82	31.81	45.52	80.38	127.80	180.80
2.5		0.51	0.92	1.46	2.54	3.45	5.52	9.27	12.79	21.69	33.13	47.42	83.73	133.10	188.30
2.6		0.53	0.95	1.52	2.65	3.59	5.74	9.64	13.30	22.56	34.46	49.31	87.08	138.50	195.90
2.7		0.55	0.99	1.58	2.75	3.72	5.96	10.01	13.81	23.42	35.78	51.21	90.43	143.80	203.40
2.8		0.57	1.03	1.64	2.85	3.86	6.18	10.38	14.32	24.29	37.11	53.11	93.78	149.10	210.90
2.9		0.59	1.06	1.70	2.95	4.00	6.40	10.75	14.83	25.16	38.43	55.01	97.13	154.40	218.50
3.0		0.61	1.10	1.76	3.05	4.14	6.62	11.12	15.35	26.03	39.76	55.90	100.50	159.80	226.00

NOTE: Flow rates falling within the grey area indicated are normally encountered in HVAC systems

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