

# Velocity / Flow rate Conversion Tables

$$\text{Velocity [f/s]} = \frac{\text{Flow Rate [gpm]} \times 0.4085}{\text{ID}^2}$$

$$\text{Flow Rate [gpm]} = \frac{\text{Velocity [f/s]} \times \text{ID}^2}{0.4085}$$

		Velocity														
		ft/sec	0.5	0.7	1.6	2.6	3.3	4.9	6.6	8.2	9.8	13.1	16.4	20	23	26.2
		m/s	0.15	0.2	0.5	0.8	1	1.5	2	2.5	3	4	5	6	7	8
D [inch]	DN [mm]	Flow Rate US-gpm														
1/2	15	0.4	0.6	1.4	2.2	2.8	4.2	5.6	7.0	8.4	11.2	14.0	16.9	19.7	22.5	
3/4	20	0.7	1.0	2.5	4.0	5.0	7.5	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0	
1	25	1.2	1.6	3.9	6.2	7.8	11.7	15.6	19.5	23.4	31.2	39.0	46.8	54.6	62.4	
1 1/4	32	1.9	2.6	6.4	10.2	12.8	19.2	25.6	32.0	38.4	51.1	63.9	76.7	89.5	102.3	
1 1/2	40	3.0	4.0	10.0	16.0	20.0	30.0	40.0	49.9	59.9	79.9	99.9	119.9	139.8	159.8	
2	50	4.7	6.2	15.6	25.0	31.2	46.8	62.4	78.0	93.6	124.8	156.1	187.3	218.5	249.7	
2 1/2	65	7.9	10.5	26.4	42.2	52.7	79.1	105.5	131.9	158.2	211.0	263.7	316.5	369.2	422.0	
3	80	12.0	16.0	40.0	63.9	79.9	119.9	159.8	199.8	239.7	319.6	399.5	479.4	559.3	639.2	
4	100	18.7	25.0	62.4	99.9	124.8	187.3	249.7	312.1	374.5	499.4	624.2	749.1	873.9	998.8	
5	125	29.3	39.0	97.5	156.1	195.1	292.6	390.1	487.7	585.2	780.3	975.4	1170.4	1365.5	1560.6	
6	150	42.1	56.2	140.5	224.7	280.9	421.4	561.8	702.3	842.7	1123.6	1404.5	1685.4	1966.3	2247.2	
8	200	74.9	99.9	249.7	399.5	499.4	749.1	998.8	1248.5	1498.1	1997.5	2496.9	2996.3	3495.7	3995.0	
10	225	94.8	126.4	316.0	505.6	632.0	948.0	1264.1	1580.1	1896.1	2528.1	3160.1	3792.2	4424.2	5056.2	
12	300	168.5	224.7	561.8	898.9	1123.6	1685.4	2247.2	2809.0	3370.8	4494.4	5618.0	6741.6	7865.2	8988.8	
14	350	229.4	305.9	764.7	1223.5	1529.4	2294.0	3058.7	3823.4	4588.1	6117.4	7646.8	9176.1	10705.5	12234.8	
16	400	299.6	399.5	998.8	1598.0	1997.5	2996.3	3995.0	4993.8	5992.6	7990.1	9987.6	11985.1	13982.6	15980.2	
18	450	379.2	505.6	1264.1	2022.5	2528.1	3792.2	5056.2	6320.3	7584.3	10112.5	12640.6	15168.7	17696.8	20224.9	