

Flowmeters Tables of Standard Flow Capacities



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Flow capacities shown in the following tables are based on calibrations for air and water at standard conditions (21.1°C (70°F) and 14.7 psia/1 atm). Correlation data for other fluids is available as well as special sizes and floats. For further information contact Bel-Art Technical Support.

Useful metering ratios are 10:1 or better. 150mm flowmeters may be used with dual float combinations to increase metering ratio to 20:1. 65mm flowmeters are supplied with two different floats (which must be used separately) resulting in a 20:1 metering ratio.

Size No.	Float	65mm Air Flow Range ml/min	65mm Water Flow Range ml/min
1	G	0.75 to 5.77	0.01 to 0.07
	SS	1.40 to 16.67	0.02 to 0.28
2	G	2.80 to 48.70	0.01 to 0.55
	SS	8.10 to 145.00	0.10 to 2.38
3	G	13.10 to 202.10	0.18 to 2.64
	SS	45.00 to 522.00	0.76 to 12.01
4	G	28 to 1249	0.56 to 26.97
	SS	90 to 2520	3.73 to 70.67
5	G	853 to 6318	4 to 147
	SS	1973 to 12058	42 to 364
	C	N/A	N/A
6	G	1992 to 22575	36 to 522
	C	6082 to 58500	176 to 1866

Size No.	Float	150mm Air Flow Range ml/min	150mm Water Flow Range ml/min
1	G	1.8 to 23	0.02 to 31
	SS	6.4 to 73	0.09 to 1.25
2	G	21 to 37	0.23 to 5.5
	SS	36 to 814	1.11 to 20.40
3	G	185 to 2313	1.6 to 53.5
	SS	480 to 4562	9.4 to 130.4
4	G	333.4 to 8678	3 to 209.5
	SS	995.9 to 16737	18.8 to 506.3
5	G	545.3 to 23564	13.1 to 567.90
	SS	1790.0 to 44336	55.3 to 1369.90
	C	2897.3 to 65898	92.7 to 2108.70
6	G	N/A	N/A
	C	N/A	N/A

1 ml/min = .0021 cu. ft./hr.

Floats: G = Glass, SS = Stainless Steel, C = Carboly

Maximum Flow Capacities for Routine Gases

150mm Flowtubes (Minimum flow x 10% maximum)

Size No.	Float	Argon		Carbon Dioxide		Helium	
		STD ml/min	SCFH	STD ml/min	SCFH	STD ml/min	SCFH
1	G	19	0.040	28	0.059	20	0.042
	SS	59	0.125	85	0.180	67	0.142
2	G	322	0.681	305	0.646	441	0.934
	SS	708	1.497	672	1.422	1297	2.745
3	G	1970	4.170	2070	4.390	4890	10.350
	SS	3965	8.400	4090	8.670	10040	21.200
4	G	7360	15.580	7390	15.650	19250	40.700
	SS	14060	29.770	13850	29.300	38800	82.350
5	G	19600	41.500	19460	41.200	52950	112.100
	C	51500	109.000	50200	106.500	149500	316.000

Size No.	Float	Hydrogen		Nitrogen		Oxygen	
		STD ml/min	SCFH	STD ml/min	SCFH	STD ml/min	SCFH
1	G	47	0.100	24	0.051	20	0.042
	SS	148	0.314	75	0.159	64	0.136
2	G	952	2.150	384	0.813	360	0.763
	SS	2480	5.250	846	1.790	791	1.675
3	G	7790	16.500	2360	4.990	2190	4.640
	SS	15450	32.700	4770	10.100	4405	9.320
4	G	29600	62.600	8960	18.960	8330	17.65
	SS	58200	123.200	16850	35.700	15800	33.40
5	G	94200	199.200	23600	49.900	21750	46.00
	C	221000	467.500	61600	130.500	57400	121.90

1 ml/min = .0021 cu. ft./hr.

Floats G = Glass, SS = Stainless Steel, C = Carbonyl

SCFH = Standard Cubic Feet per Hour

**Flow Charts for a Variety of Fluids and Gases are Available from Bel-Art – SP Scienceware,
Call Our Technical Service Department at 1-800-423-5278**

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