



Both 65 mm and 150 mm scales, borosilicate glass tube models feature all stainless steel frame and horizontal connections at a less expensive price than competitive products. Valve optional.

## DESCRIPTION

### Metering Tube

Borosilicate Kinglass

### Internal Components

316L Stainless Steel, Black Glass, Sapphire, Carboly, Tantalum

### Inlet/Outlet Fittings

1/8" and 1/4" FNPT, Horizontal Control Valve optional

### Fitting Material

316L Stainless Steel  
Optional: PVC, PVDF, Hastelloy®

### Elastomers

Standard: Viton®  
Optional: Buna N, EPR, Kalrez®

Detail Letter	Scale length	
	65mm	150mm
A	1.50"	1.50"
B	6.05"	10.25"

## PERFORMANCE

### Capacities

0.56 to 1,800 cc/min — Water  
54 to 70,000 cc/min — Air

### Scale

65 mm, 150 mm  
Direct reading, detachable

### Accuracy

± 6% of Full Scale Flow, 65 mm  
± 4% of Full Scale Flow, 150 mm

### Turndown

10:1 unless otherwise indicated

### Repeatability

1%

### Max Temperature

250° F (121° C) Gases  
200° F (93° C) Liquids

### Max Pressure

316L SS Fittings — 200 psig  
PVC Fittings — 130 psig  
PVDF Fittings — 150 psig

### Ambient Temperature

33° F to 125° F (1° C to 52° C)

## OPTIONS

### Alarm

Fiber-Optic or Inductive Ring Sensor

### Certified Calibrations

Conform to ISA RP 16.6

### Scales

Can be produced in any volumetric unit

## SPECIFICATIONS:

Tube Number	Float Material	65MM Scale Flow Ranges						
		Air (STP)			Water (70° F)			
		CC/MIN	SCFH	SLPH	CC/MIN	GPH	LPH	
1-02-G-021	Glass	66	.14	4.0	0.72	.011	.042	
	Sapphire	105	.22	6.2	1.3	.021	.078	
	Stainless Steel	200	.42	12.0	3.3	.052	.190	
	Carboly	340	.70	20.0	7.0	.110	.420	
	Tantalum	350	.74	21.0	7.8	.125	.460	
1-03-G-041	Glass	76	.16	4.6	1.15	.018	.068	
	Sapphire	120	.25	7.2	2.10	.032	.125	
	Stainless Steel	230	.50	14.0	4.20	.068	.260	
	Carboly	400	.85	24.0	9.00	.145	.560	
	Tantalum	440	.90	26.0	10.00	.165	.620	
1-08-G-061	Glass	525	1.1	31	9.0	.14	.54	
	Sapphire	700	1.5	42	15.5	.24	.95	
	Stainless Steel	1130	2.4	68	29.0	.46	1.70	
	Carboly	1600	3.4	95	46.0	.72	2.80	
	Tantalum	1700	3.6	100	50.0	.78	3.00	
1-23-G-081	Glass	2000	4.2	120	44	.70	2.6	
	Sapphire	2600	5.4	150	68	1.05	4.0	
	Stainless Steel	3800	8.2	230	110	1.70	6.6	
	Carboly	5600	12.0	340	170	2.70	10.5	
	Tantalum	6000	13.0	360	180	2.90	11.0	
2-14-G-021	Glass	6800	14.5	400	160	2.6	9.5	
	Sapphire	9200	19.5	540	240	3.8	14.5	
	Stainless Steel	13000	28.0	800	400	6.2	24.0	
	Carboly	19000	40.0	1100	600	9.5	36.0	
	Tantalum	20000	42.0	1200	640	10.0	38.0	
2-34-G-041	Glass	19000	40.0	1150	520	8.25	31.0	
	Sapphire	25000	52.0	1500	740	11.50	44.0	
	Stainless Steel	42500	90.0	2550	1200	19.00	72.0	
	Carboly	60000	125.0	3600	1700	27.00	105.0	
	Tantalum	70000	145.0	4200	1800	29.00	110.0	

Tube Number	Float Material	150 MM Scale Flow Ranges						
		Air (STP)			Water (70° F)			
		CC/MIN	SCFH	SLPH	CC/MIN	GPH	LPH	
1-03-G-022	Glass	54	.114	3.2	.56	.0088	.033	
	Sapphire	82	.175	4.9	1.04	.0160	.062	
	Stainless Steel	160	.340	9.8	2.25	.0350	.135	
	Carboly	280	.580	16.5	5.00	.0780	.300	
	Tantalum	300	.620	17.5	5.20	.0840	.320	
1-04-G-042	Glass	106	.225	6.4	1.24	.0195	.074	
	Sapphire	165	.35	10.0	2.35	.0380	.145	
	Stainless Steel	320	.68	19.0	5.60	.0900	.340	
	Carboly	540	1.14	32.0	12.4	.1950	.740	
	Tantalum	580	1.24	35.0	13.5	.2100	.820	
1-07-G-062	Glass	350	.74	21.0	4.7	.074	.28	
	Sapphire	500	1.06	30.0	10.0	.160	.60	
	Stainless Steel	820	1.75	50.0	20.5	.330	1.25	
	Carboly	1250	2.60	76.0	34.0	.540	2.05	
	Tantalum	1350	2.90	80.0	36.0	.560	2.15	
1-11-G-082	Glass	850	1.8	50.0	16.5	.26	1.0	
	Sapphire	1100	2.3	66.0	27.0	.42	1.6	
	Stainless Steel	1600	3.4	100.0	46.0	.72	2.7	
	Carboly	2300	4.9	140.0	72.0	1.15	4.4	
	Tantalum	2450	5.2	155.0	80.0	1.25	4.8	
1-27-G-102	Glass	2150	4.6	130.0	52	.84	3.1	
	Sapphire	2800	6.0	170.0	78	1.24	4.7	
	Stainless Steel	4400	9.2	260.0	130	2.05	7.8	
	Carboly	6200	13.5	380.0	205	3.20	12.5	
	Tantalum	6750	14.0	400.0	210	3.30	12.5	
2-09-G-002	Glass	3800	8.2	230.0	86	1.35	5.2	
	Sapphire	5000	10.6	300.0	130	2.05	7.8	
	Stainless Steel	7500	16.0	450.0	220	3.40	13.0	
	Carboly	10600	22.5	640.0	330	5.20	20.0	
	Tantalum	11500	24.0	680.0	360	5.60	21.5	
2-17-G-022	Glass	9000	19.0	540.0	215	3.40	13.0	
	Sapphire	11400	24.5	700.0	320	5.00	19.0	
	Stainless Steel	17000	36.0	1000.0	520	8.20	31.0	
	Carboly	24000	50.0	1450.0	760	12.2	46.0	
	Tantalum	25000	54.0	1500.0	820	13.0	49.0	
2-32-G-042	Glass	20500	43.0	1220.0	470	7.5	28.0	
	Sapphire	26000	56.0	1550.0	700	11.0	42.0	
	Stainless Steel	38000	82.0	2300.0	1120	18.0	68.0	
	Carboly	54000	116.0	3300.0	1650	26.0	100.0	
	Tantalum	60000	125.0	3500.0	1750	28.0	106.0	