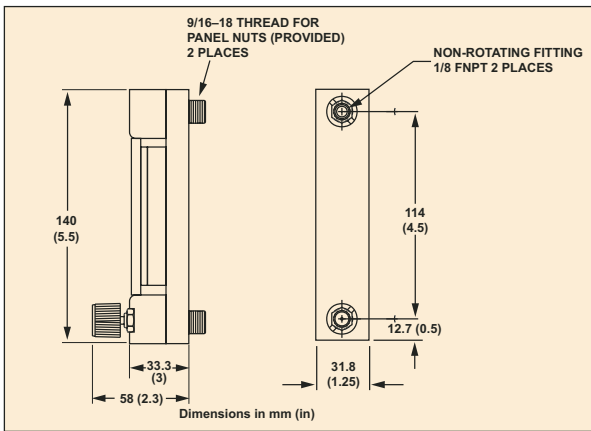


GLASS TUBE FLOWMETERS

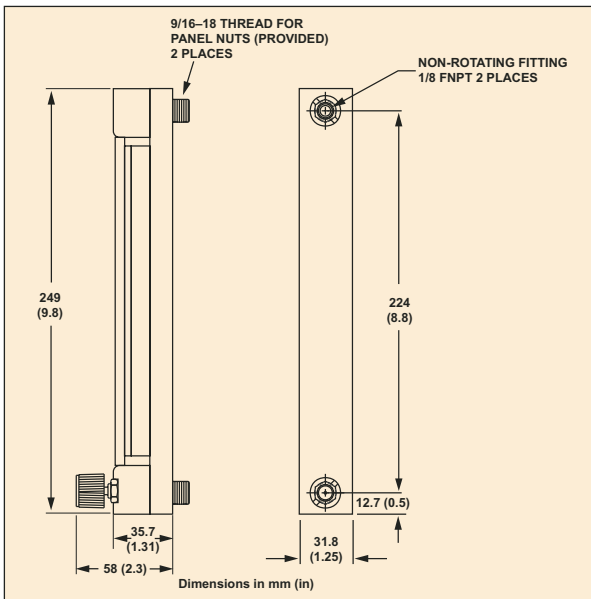
E-Z TUBE CHANGE WITH MAGNIFYING FRONT SHIELD

- ✓ Standard Millimeter Scales with Flow Curves
- ✓ E-Z Change Design Allows Quick Interchangeability of Tube Assemblies
- ✓ Glass Tube Allows Compatibility with Most Gases and Fluids
- ✓ Rotating Lens Allows 180° View with Magnification



65 mm (2.5") FLOWMETER

Millimeters	140.0	33.3	58.0	31.8	114.0	12.7
Inches	5.5	1.4	2.3	1.3	4.5	0.5



150 mm (5.9") FLOWMETER

Inches	9.8	1.31	2.3	1.25	8.8	0.5
Millimeters	245.0	35.7	56.0	31.8	224.0	12.7



FL-5411G Series flowmeter, basic model.



FL-5511G-NV Series flowmeter, aluminum, basic model.

SPECIFICATIONS

Accuracy:

65 mm (2.5") scale ±5%

150 mm (5.9") scale ±3%

Back Plate: Aluminum

Standard Seals: Aluminum with Buna-"N"; stainless steel with Viton®

Tube: Borosilicate glass

Pressure: 200 psi

Temperature: 93°C (200°F)

FL-5000 Series rotameters are supplied standard with a 9-turn cartridge valve; optionally available are units without a valve or with a 16-turn non-rising stem precision valve

MOST POPULAR MODELS HIGHLIGHTED

Aluminum Model No.	316 SS Model No.	65 mm (2.6")		Aluminum Model No.	316 SS Model No.	150 mm (5.9")	
		Air cc/min	Water cc/min			Air cc/min	Water cc/min
FL-5311G	FL-5411G	51	–	FL-5511G	FL-5611G	50	–
FL-5311SA	FL-5411SA	82	–	FL-5511SA	FL-5611SA	78	–
FL-5311ST	FL-5411ST	153	–	FL-5511ST	FL-5611ST	152	–
FL-5311C	FL-5411C	284	–	FL-5511C	FL-5611C	281	–
FL-5311T	FL-5411T	310	–	FL-5511T	FL-5611T	315	–
FL-5321G	FL-5421G	103	–	FL-5521G	FL-5621G	106	–
FL-5321SA	FL-5421SA	160	–	FL-5521SA	FL-5621SA	167	–
FL-5321ST	FL-5421ST	298	–	FL-5521ST	FL-5621ST	308	–
FL-5321C	FL-5421C	498	–	FL-5521C	FL-5621C	497	–
FL-5321T	FL-5421T	546	–	FL-5521T	FL-5621T	540	–
FL-5331G	FL-5431G	400	–	FL-5531G	FL-5631G	400	–
FL-5331SA	FL-5431SA	550	–	FL-5531SA	FL-5631SA	555	–
FL-5331ST	FL-5431ST	855	21.4	FL-5531ST	FL-5631ST	870	22.2
FL-5331C	FL-5431C	1275	35.4	FL-5531C	FL-5631C	1300	36.2
FL-5331T	FL-5431T	1360	38.4	FL-5531T	FL-5631T	1400	39.5
FL-5341G	FL-5441G	900	18.2	FL-5541G	FL-5641G	855	18
FL-5341SA	FL-5441SA	1200	29.6	FL-5541SA	FL-5641SA	1135	27.6
FL-5341ST	FL-5441ST	1800	50.1	FL-5541ST	FL-5641ST	1710	47.5
FL-5341C	FL-5441C	2620	76.1	FL-5541C	FL-5641C	2465	73.2
FL-5341T	FL-5441T	2790	82.4	FL-5541T	FL-5641T	2640	78.8
FL-5351G	FL-5451G	2580	55	FL-5551G	FL-5651G	2290	50
FL-5351SA	FL-5451SA	3350	85	FL-5551SA	FL-5651SA	2980	75
FL-5351ST	FL-5451ST	5030	140	FL-5551ST	FL-5651ST	4480	125
FL-5351C	FL-5451C	7270	215	FL-5551C	FL-5651C	6475	190
FL-5351T	FL-5451T	7710	230	FL-5551T	FL-5651T	6805	205
FL-5361G	FL-5461G	3930	90	FL-5561G	FL-5661G	3425	75
FL-5361SA	FL-5461SA	5080	130	FL-5561SA	FL-5661SA	4465	115
FL-5361ST	FL-5461ST	7510	220	FL-5561ST	FL-5661ST	6600	190
FL-5361C	FL-5461C	10700	325	FL-5561C	FL-5661C	9475	285
FL-5361T	FL-5461T	11315	345	FL-5561T	FL-5661T	9990	305
FL-5371G	FL-5471G	6000	130	FL-5571G	FL-5671G	9180	215
FL-5371SA	FL-5471SA	7800	200	FL-5571SA	FL-5671SA	11990	315
FL-5371ST	FL-5471ST	11450	335	FL-5571ST	FL-5671ST	17810	515
FL-5371C	FL-5471C	16340	500	FL-5571C	FL-5671C	24970	765
FL-5371T	FL-5471T	17250	535	FL-5571T	FL-5671T	26170	825
FL-5381G	FL-5481G	10100	235	FL-5581G	FL-5681G	23740	565
FL-5381SA	FL-5481SA	12980	350	FL-5581SA	FL-5681SA	30270	830
FL-5381ST	FL-5481ST	18960	560	FL-5581ST	FL-5681ST	44050	1335
FL-5381C	FL-5481C	26525	830	FL-5581C	FL-5681C	61410	1950
FL-5381T	FL-5481T	28115	885	FL-5581T	FL-5681T	66370	2080
FL-5391G	FL-5491G	15750	375	FLOAT MATERIAL CODES Black Glass (G) Sapphire (SA) Stainless Steel (ST) Carboly (C) Tantalum (T)			
FL-5391SA	FL-5491SA	20170	545				
FL-5391ST	FL-5491ST	29400	880				
FL-5391C	FL-5491C	41175	1305				
FL-5391T	FL-5491T	43410	1385				
FL-5392G	FL-5492G	23640	570				
FL-5392SA	FL-5492SA	30090	825				
FL-5392ST	FL-5492ST	43340	1305				
FL-5392C	FL-5492C	61120	1920				
FL-5392T	FL-5492T	65850	2055				

Units come with complete operator's manual and correlation sheets for water and air.

Add "-NIST"

1. To order units without valves, add suffix "-NV" to model number and subtract \$ for 65 mm aluminum, \$ for 150 mm aluminum, and \$ for both sizes 316 SS.

2. To order units with high resolution valves, add suffix "-HRV" to model number and add \$ for 65 mm aluminum, \$ for 150 mm aluminum, and \$ for both sizes 316 SS.

Ordering Examples: FL-5671T-HRV 150 mm glass tube, stainless steel-tantalum float flowmeter with high resolution valves,

FL-5361C, 65 mm glass tube, carboly float

Accessory

Model No.	Description
OP-20	Reference Book: Calibration: A Technicians Guide



VARIABLE AREA ROTAMETERS

With 65 mm and 150 mm Scales

FL-1341-G



OMEGA® precision variable area rotameters can measure flows of air, water, and gases, with up to $\pm 5\%$ of full scale accuracy and 0.25% of full scale repeatability. These units feature an easy-to-read millimeter scale and are supplied with correlation charts for air and water. Correlation data for other gases are also available. Please consult the Engineering Department for details. The scale is fused on the metering tube in 1 mm increments, which enables the user to read the flow rate with the highest accuracy.

SHIELDED FOR PRESSURIZED SYSTEMS

These rotameters, have heavy wall, precision-bored borosilicate glass metering tubes and are fully shielded against breakage, with end fittings of brass or stainless steel and aluminum side plates. In front, a clear plastic shield keeps the scale clean and easy-to-read, while an opaque white rear shield provides a background to aid in discerning the float position for accurate readings.

PANEL MOUNTING DESIGN

These rotameters are equipped with horizontal ports with NPT threads for easy panel mounting. The ports have external threads and are equipped with panel retaining nuts. No additional mounting hardware is required. Simply drill two holes 114.3 mm (4.5") apart (center to center) for 65 mm units or 223.8 mm (8 $\frac{3}{16}$ ") apart (center to center) for 150 mm units. Each hole should be 14.9 mm (0.59") in diameter. Also available is a flush mounting bezel, and other styles to meet specific applications. Please consult the Sales Department for pricing and delivery information.

NON-RISING STEM NEEDLE VALVE

The 150 mm size flowmeters are also available with non-rising stem type needle valves for special

applications. This 15-turn metering valve has superior flow rate control and is particularly well suited for use in chromatography applications. The sliding tapered needle mechanism virtually eliminates sticking or buildup due to foreign matter in the fluid stream, without variations or sawtoothing of the flow rate.

COMPACT 65 MM SCALE

These compact units feature $\pm 10\%$ of full scale accuracy and $\pm \frac{1}{2}\%$ of full scale repeatability. They are ideal for applications involving purging, seal oil systems, bearing lubrication, and cooling water flow indication.

EASY-TO-READ 150 MM SCALE

OMEGA's larger units feature 5% accuracy and $\frac{1}{4}\%$ repeatability. The scale has more divisions for higher accuracy, is easier to read, and causes less eye fatigue.

APPLICATIONS

Variable area rotameters can be used in many applications, including industrial and laboratory situations. Some common uses include carrier gas flow and fuel flow in chromatography and coolant flow indication.

FLOW CONTROL

Control the flow rate with the standard built-in control valve. Also available, as an option, is an integral flow controller. In addition, 150 mm scale units are available with the unique non-rising stem type needle valve.

WETTED PARTS

Standard floats are 316 stainless steel, glass, and carbonyl. Sapphire and tantalum are also available (consult Sales Department for specifications). Other wetted parts include the glass metering tube, 316 SS float stops, brass or 316 SS end fittings, and Buna-N (with brass construction) or Viton®-A (with 316 SS construction) O-rings.

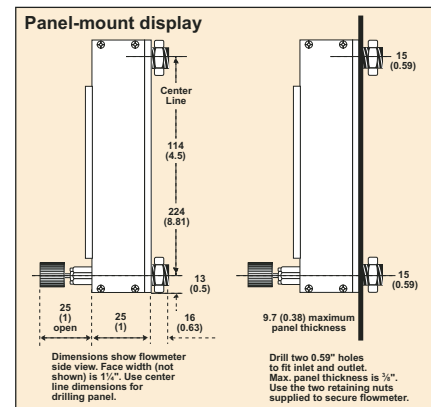
RATINGS AND SPECIFICATIONS

The maximum operating pressure is 13.8 bar (200 psig), at temperatures up to 121°C (250°F). The minimum flow rate at the rated accuracy is 10% of the maximum flow rate. All connections are $\frac{1}{8}$ " female NPT threaded.



FL-1341-S, shown smaller than actual size.

Dimensions: mm (inches)





FL-1441-G, shown smaller than actual size.

Comes with correlation sheet for water and air.

NOTE: “-G” suffix denotes glass float; “-S” suffix denotes 316 SS float; “-C” suffix denotes carboloy float.

1. Low-cost units with Kynar construction also available. See FL-1700/1800 Series on pages B-33 and B-34.
2. Minimum flow rate is 10% of the maximum rate shown.
3. Low-cost, stainless steel construction unit with 65 mm glass tube also available. See model FL-1900 on page B-43.

Rotameters with 65 mm Scale Flowtubes¹ (with 6-turn valve)

To Order (Specify Model Number)								
Aluminum Frame		Brass Frame		316 SS Frame		Max. Flowrate ²		
Model No.		Model No.		Model No.		Air cc/min	Water cc/min	Float Material
FL-1341-G		FL-1351-G		FL-1361-G		56.6	0.70	Glass
FL-1341-S		FL-1351-S		FL-1361-S		150	3.00	316SS
FL-1342-G		FL-1352-G		FL-1362-G		66.6	0.80	Glass
FL-1342-S		FL-1352-S		FL-1362-S		183.3	3.67	316SS
FL-1343-G		FL-1353-G		FL-1363-G		400	7.00	Glass
FL-1343-S		FL-1353-S		FL-1363-S		833.3	23.3	316SS
FL-1344-G		FL-1354-G		FL-1364-G		1666	40.0	Glass
FL-1344-S		FL-1354-S		FL-1364-S		3333	100	316SS
FL-1345-G		FL-1355-G		FL-1365-G		5666	142	Glass
FL-1345-S		FL-1355-S		FL-1365-S		10,833	333	316SS
FL-1346-G		FL-1356-G		FL-1366-G		18,333	500	Glass
FL-1346-S		FL-1356-S		FL-1366-S		183.3	1166	316SS
FL-1347-C		FL-1357-C		FL-1367-C		56,666	1666	Carboloy

Rotameters with 150 mm Scale Flowtubes^{1,3} (with 6-turn valve)

Aluminum Frame		Brass Frame		316 SS Frame		Max. Flowrate ²		Float Material
Model No.	Price	Model No.	Price	Model No.	Price	Air cc/min	Water cc/min	Float Material
FL-1441-G		FL-1451-G		FL-1461-G		49	0.537	Glass
FL-1441-S		FL-1451-S		FL-1461-S		146	2.49	316SS
FL-1442-G		FL-1452-G		FL-1462-G		96	1.11	Glass
FL-1442-S		FL-1452-S		FL-1462-S		265	4.93	316SS
FL-1443-G		FL-1453-G		FL-1463-G		370	5.75	Glass
FL-1443-S		FL-1453-S		FL-1463-S		820	20.6	316SS
FL-1444-G		FL-1454-G		FL-1464-G		820	16.6	Glass
FL-1444-S		FL-1454-S		FL-1464-S		1680	46.2	316SS
FL-1445-G		FL-1455-G		FL-1465-G		2350	52.8	Glass
FL-1445-S		FL-1455-S		FL-1465-S		4600	133	316SS
FL-1446-G		FL-1456-G		FL-1466-G		3800	84.6	Glass
FL-1446-S		FL-1456-S		FL-1466-S		7600	218	316SS
FL-1447-G		FL-1457-G		FL-1467-G		8600	200	Glass
FL-1447-S		FL-1457-S		FL-1467-S		16,400	493	316SS
FL-1448-G		FL-1458-G		FL-1468-G		23,500	573	Glass
FL-1448-S		FL-1458-S		FL-1468-S		43,000	1350	316SS
FL-1448-C		FL-1458-C		FL-1468-C		60,000	2120	Carboloy

Rotameters with 150 mm Scale Flowtubes¹ (with 15-turn valve)

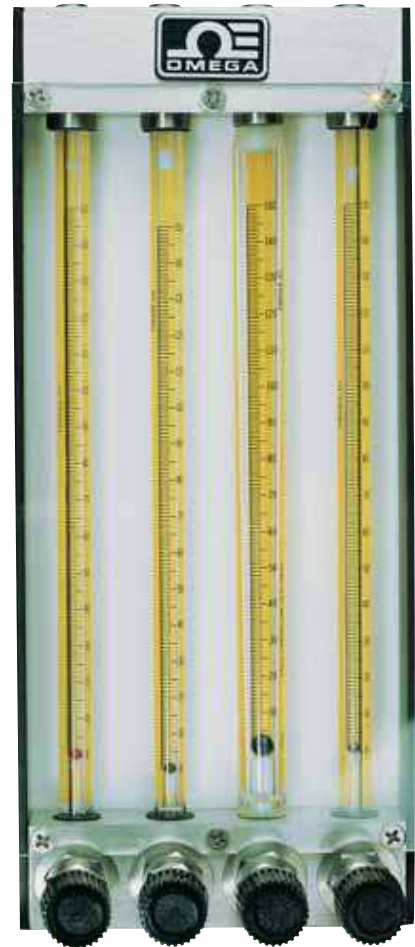
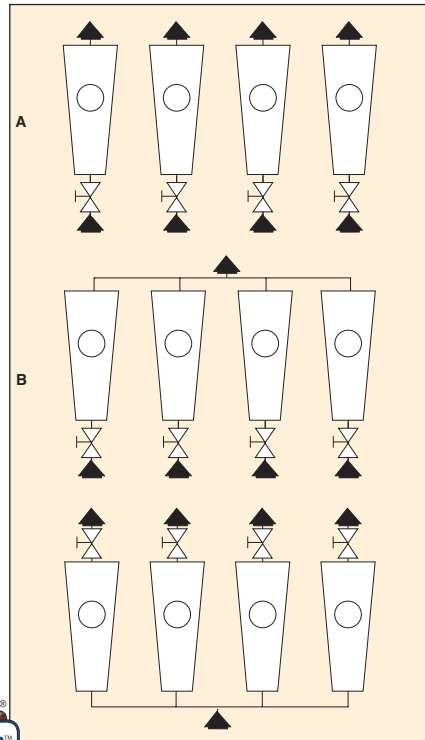
Aluminum Frame		Brass Frame		316 SS Frame		Max. Flowrate ²		Float Material
Model No.	Price	Model No.	Price	Model No.	Price	Air cc/min	Water cc/min	Float Material
FL-1471-G		FL-1481-G		FL-1491-G		49	0.537	Glass
FL-1471-S		FL-1481-S		FL-1491-S		146	2.49	316SS
FL-1472-G		FL-1482-G		FL-1492-G		96	1.11	Glass
FL-1472-S		FL-1482-S		FL-1492-S		265	4.93	316SS
FL-1473-G		FL-1483-G		FL-1493-G		370	5.75	Glass
FL-1473-S		FL-1483-S		FL-1493-S		820	20.6	316SS
FL-1474-G		FL-1484-G		FL-1494-G		820	16.6	Glass
FL-1474-S		FL-1484-S		FL-1494-S		1680	46.2	316SS
FL-1475-G		FL-1485-G		FL-1495-G		2350	52.8	Glass
FL-1475-S		FL-1485-S		FL-1495-S		4600	133	316SS
FL-1476-G		FL-1486-G		FL-1496-G		3800	84.6	Glass
FL-1476-S		FL-1486-S		FL-1496-S		7600	218	316SS
FL-1477-G		FL-1487-G		FL-1497-G		8600	200	Glass
FL-1477-S		FL-1487-S		FL-1497-S		16,400	493	316SS
FL-1478-G		FL-1488-G		FL-1498-G		23,500	573	Glass
FL-1478-S		FL-1488-S		FL-1498-S		43,000	1350	316SS
FL-1478-C		FL-1488-C		FL-1498-C		60,000	2120	Carboloy

MULTIPLE TUBE ROTAMETERS

Complete Assemblies



- ✓ High Accuracy, $\pm 2\%$ FS
- ✓ Variety of Flow Configurations
- ✓ Interchangeable Flow Tubes
- ✓ Scales Designed to Minimize Parallax and Eye Fatigue
- ✓ Available with High Precision Valves
- ✓ Panel Locking Nuts Included



Shown smaller than actual size.

OMEGA's Multi-tube Rotameters are convenient for applications where up to six streams of liquids or gases are to be metered in individual channels. Flow pattern B represents multiple inlets manifolded into one outlet (see diagram). To obtain one inlet split off into multiple outlets, flow pattern B can be turned upside down and the flow tubes inverted in the field. The rotameter end fittings can be supplied in aluminum or 316 SS. Precision metering valves with 16 turn non-rising stems are also available (consult Sales).

SPECIFICATIONS

Repeatability: $\pm 0.25\%$ FS

Max. Pressure: 200 PSIG

Max. Temperature: 250°F (180°F for water)

Connections: $\frac{1}{8}$ " FNPT

End Fittings: 9.813" H, 2.25" (2 tube), 3.25" (3 tube), 4.25" (4 tube) W. See diagram, page B-31 for depth.

Ordering Example:

FL-3SA-45G-61G-61C calls out a three tube meter with 316SS end fittings, independent inlets and outlets with the **FLT-45G**, **FLT-61G** and **FLT-61C** 150 mm flow tubes installed in the unit.

To Order (Specify Model Number)

Model No.	Frame Price	Frame Flow Pattern	End Fittings
For Two Tubes			
FL-2AA-(*)-(*)		A	Aluminum
FL-2SA-(*)-(*)		A	316SS
FL-2AB-(*)-(*)		B	Aluminum
FL-2SB-(*)-(*)		B	316SS
For Three Tubes			
FL-3AA-(*)-(*)-(*)		A	Aluminum
FL-3SA-(*)-(*)-(*)		A	316SS
FL-3AB-(*)-(*)-(*)		B	Aluminum
FL-3SB-(*)-(*)-(*)		B	316SS
For Four Tubes			
FL-4AA-(*)-(*)-(*)-(*)		A	Aluminum
FL-4SA-(*)-(*)-(*)-(*)		A	316SS
FL-4AB-(*)-(*)-(*)-(*)		B	Aluminum
FL-4SB-(*)-(*)-(*)-(*)		B	316SS

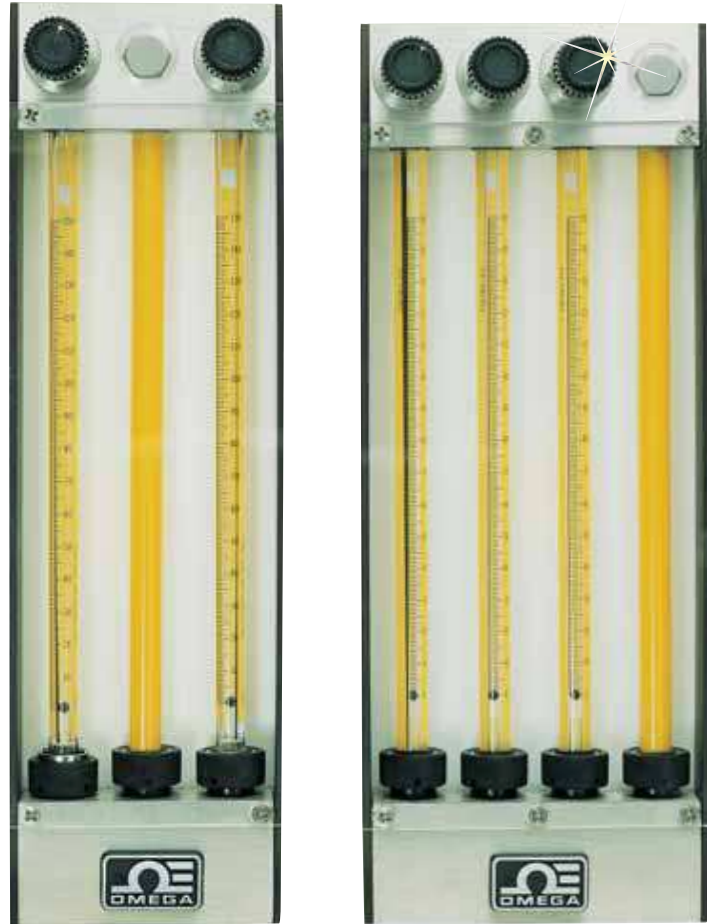
Comes complete with instruction sheet, air and water correlation sheet for each tube. *Select the desired 150 mm flow tube from those listed on page B-39. Delete the "FLT-" prefix and insert the remaining suffix from the flow tube into the model numbers above. Add the price of the flow tubes to the price of the frame.

GAS PROPORTIONING ROTAMETERS

Back Pressure Compensated



- ✓ ±2%FS Accuracy
- ✓ Back Pressure Compensated for Accurate Blending—Up To 50 psi Only
- ✓ Blend Up to Three Gases
- ✓ Save on Cost of Custom Gas Mixtures
- ✓ Vary Concentrations with Operating System
- ✓ For Use with 150 mm Flow Tubes
- ✓ Bench Mount Tripod Base Optional
- ✓ Standard 6-Turn Valves or Precision 16-Turn Valves Available



Shown smaller than actual size.

To blend two or three gases in homogeneous infinitely variable concentrations, directly at the end use point, these rotameters are unsurpassed in convenience and economy. Gas proportioning rotameters pay for themselves in a short period of time since their use eliminates the need for expensive custom blended gas mixtures from outside sources. This series of rotameters lend flexibility and economy to the efficient utilization of component gas cylinders and piped in supply lines. Another significant advantage in laboratory use is the freedom to reproducibly increase or decrease concentrations during the course of an experiment.

The flowrates of component gases are not affected by downstream pressure variations as long as back pressures do not exceed or approach the input pressure.

SPECIFICATIONS

Accuracy: ±2% FS, from 10% to 100% of scale

Repeatability: ±0.25% FS

Max. Pressure: 200 psig
Max. Temperature: 250°F (180°F for water)

Flow Tube: Borosilicate glass

End Fittings: Black and anodized aluminum or 316 SS

Packing and O-Rings:

Buna-N in aluminum models, Viton®-A in 316SS models

Side Panels: Black anodized aluminum

Connections: 1/8" FNPT

Viton® is a registered trademark of DuPont Dow Elastomers

To Order (Specify Model Number)			
Model No.		Valve Type	End Fittings
For Two Tubes			
FL-1GP-(*)-(*)		Std.	Aluminum
FL-2GP-(*)-(*)		Precision	Aluminum
FL-3GP-(*)-(*)		Std.	316SS
FL-4GP-(*)-(*)		Precision	316SS
For Three Tubes			
FL-5GP-(*)-(*)-(*)		Std.	Aluminum
FL-6GP-(*)-(*)-(*)		Precision	Aluminum
FL-7GP-(*)-(*)-(*)		Std.	316SS
FL-8GP-(*)-(*)-(*)		Precision	316SS
FW-337		Reference Book: Industrial Flow Measurement	

Comes complete with instruction sheet air correlation sheet for each tube.

*Select the desired 150 mm flow tube from those listed on page B-39. Delete the FLT-prefix and insert the remaining suffix from the flow tube into the model numbers above.

Ordering Example: FL-5GP-61G-41SA-03C calls out a 3 tube gas proportioner with standard valves and aluminum end fittings with tubes FLT-61G, FLT-61ST, and FLT-03C installed

ACCESSORY FLOWTUBES

For Use with FL-3000 Series Rotameters, Multitube Assemblies and Gas Proportioners



B

The flow tubes shown on this page can be installed into any of our 150 mm FL-3800/FL3900 Series rotameters. Flow capacities shown are based on calibrations with air and water at 21°C (70°F) and 14.7 psia. For other fluids or conditions, the following equations provide rough approximations.



Flow Tube Shown Inside Frame

$$Q_a = Q_g \times \sqrt{\frac{G \times T_a \times P_o}{T_o \times P_a}}$$

where:

- Q_a = equivalent air flow scale reading at Standard Conditions
- Q_g = true flow of metered gas
- G = specific gravity of metered gas
- T_a = absolute temperature at flow conditions, deg R or deg K
- T_o = absolute temperature at Standard Conditions deg R (530) or deg K (294)
- P_a = pressure at flow conditions, psia
- P_o = pressure at Standard Conditions, (14.7 psia)

$$Q_w = Q_L \times \sqrt{\frac{d_f \cdot d_w}{d_f \cdot d_L} \times \frac{d_L}{d_w}}$$

where:

- Q_w = equivalent water flow capacity at Standard Conditions
- Q_L = maximum flow of metered liquid
- d_f = density of float selected, (See Table, right), (g/ml)
- d_L = density of metered liquid, (g/ml)
- d_w = density of water at Standard Conditions, (1.0 g/ml) (Does not include viscosity effect)

150 mm Flowtube, gas flow capacities of routine gases. cc/min, 10:1 range

HIGHLIGHTED MODELS IN STOCK FOR FAST DELIVERY!

Model No.	Price	Air	Water	Argon	CO ₂	He	H	N	O
FLT-45G	\$66	19	0.196	15	23	16	37	20	17
FLT-45SA	66	30	0.392	24	37	26	59	31	27
FLT-45ST	66	61.8	0.94	49	72	53	123	62	54
FLT-45C	66	110	1.91	90	127	101	232	114	99
FLT-45T	98	121	2.13	99	139	112	256	125	109
FLT-41G	66	49	0.49	44	56	46	94	48	42
FLT-41SA	66	73	0.98	60	84	69	149	76	70.4
FLT-41ST	66	143	2.34	113	150	133	301	143	131
FLT-41C	66	246	4.7	202	251	260	567	255	228
FLT-41T	98	264	5.1	222	263	288	602	274	244
FLT-61G	66	92	0.9	75.6	103	90	208	92	81
FLT-61C	66	444	8.5	373	445	519	1120	462	407
FLT-61T	98	484	9.2	393	470	555	1225	495	433
FLT-02G	66	374	5.5	305	355	450	1021	382	340
FLT-02SA	66	513	10.0	429	472	681	1497	520	472
FLT-02ST	66	814	20.4	676	728	1290	2496	824	753
FLT-02C	66	1222	33.7	1020	1072	2221	3876	1220	1131
FLT-02T	98	1331	36.1	1085	1134	2356	4257	1310	1206
FLT-03G	66	844	16.5	687	725	1490	2620	827	772
FLT-03SA	66	1093	26.1	910	944	2059	3546	1110	1024
FLT-03ST	66	1682	44.6	1380	1420	3397	5547	1662	1545
FLT-03C	66	2423	70.5	1996	2039	5120	8170	2405	2246
FLT-03T	98	2576	75.6	2131	2163	5437	8717	2575	2364
FLT-04G	66	2313	54	1949	2048	4880	7817	2395	2169
FLT-04SA	66	3079	78	2605	2620	6458	10455	3142	2860
FLT-04ST	66	4562	133	3903	3990	9770	15855	4685	4341
FLT-04C	66	6621	201	5665	5743	14500	22790	6845	6307
FLT-04T	98	6932	212	6040	6018	15420	24252	7080	6690
FLT-05G	66	3922	84	3151	3374	7803	13105	3868	3485
FLT-05SA	66	5188	126	4175	4388	10336	16108	5090	4652
FLT-05ST	66	7825	217	6384	6308	15960	27804	7722	6992
FLT-05C	66	11371	329	9460	9222	23509	37553	10973	10082
FLT-05T	98	11965	353	9627	9475	25131	39998	11628	10741
FLT-39G	66	8505	210	7366	7485	19426	29840	8916	8269
FLT-39SA	81	11357	306	9539	9557	25400	40006	11524	10706
FLT-39ST	66	16737	506	14131	14051	38576	59995	17021	15710
FLT-39C	76	23752	747	20166	19854	56220	83052	24071	22432
FLT-39T	98	25252	790	21414	21115	60596	90410	25709	23790
FLT-40G	76	23742	541	19761	18989	53100	85812	23512	21350
FLT-40SA	81	30711	806	24563	23855	70100	110100	29930	27181
FLT-40ST	76	45227	1288	35300	34287	103647	159699	43000	39567
FLT-40C	76	66346	1881	47890	46311	146500	221872	59580	54902
FLT-40T	98	69940	2001	51997	49009	189826	234423	63826	57960

* Suffix refers to float: G = black glass, SA = sapphire, ST = 316 stainless steel, C = carboloy, T = tantalum. Minimum flow is equal to 10% of the maximum listed.

For highest precision, field calibration is required.

Material	Density g/ml
Glass	2.53
Sapphire	3.98
Stainless steel	8.04
Carboloy	14.98
Tantalum	16.58