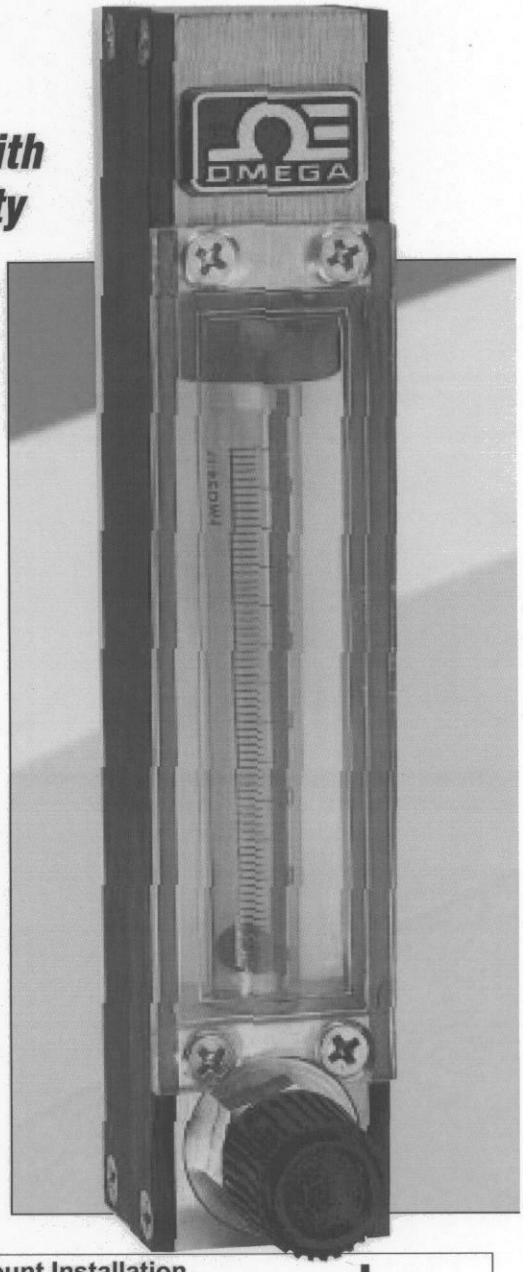
65 MM AND 150 MM ROTAMETERS Featuring New Design with Easy Tube Replacement and Superior Readability



- ±2% Full Scale Accuracy
- Non-Rotating Seal Spindle
- Easy-to-Read Scale Design
- Special Lock Nut Design for Easy Tube Replacement

The OMEGA® precision variable of air, water, and gases, with up to ±2% 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. For correlation data for nitrogen, oxygen, hydrogen, helium, argon and carbon dioxide, see page B-32. Please consult the Engineering Department for details. The scale is fused on the metering tube in 1 mm increments, which enables a user to read the flow rate with the highest accuracy.

The special scale design, where a vertical line runs through the length of the scale and intersects the horizontal scale divisions, reduces parallax and eye fatigue, thus insuring high accuracy readings (see inset, next page). The front LEXAN® shield is also curved to act as a magnifying glass, all of which yields superior performance over other rotameters with standard design.

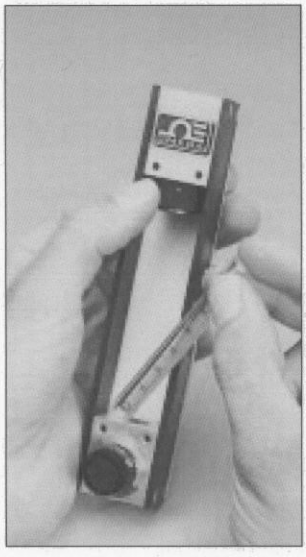
Easy Flow Tube Replacement
The important advantage of the FL-3600 through the FL-3900 rotameters is their special lock nut design which facilitates the installation and replacement of flow tubes in the field for easy flow range change. The knurled locking nut on top of the tube is backed off with a small Allen wrench, or a 3/32" diameter rod, thereby releasing the tube for replacement. The system is designed so that the tube does not rotate while it is tightened into place. Only 2 different standard valves are used; one for flows up to 7000 cc/min of air, the other valve is for higher flowrates. Six different high resolution valves are used, consult Engineering for details when changing tubes.

Shielded for Pressurized Systems
These rotameters, with precision-bored borosilicate glass metering tubes, are fully shielded against breakage. A white opaque rear shield provides a background to aid in discerning the float position for accurate readings.

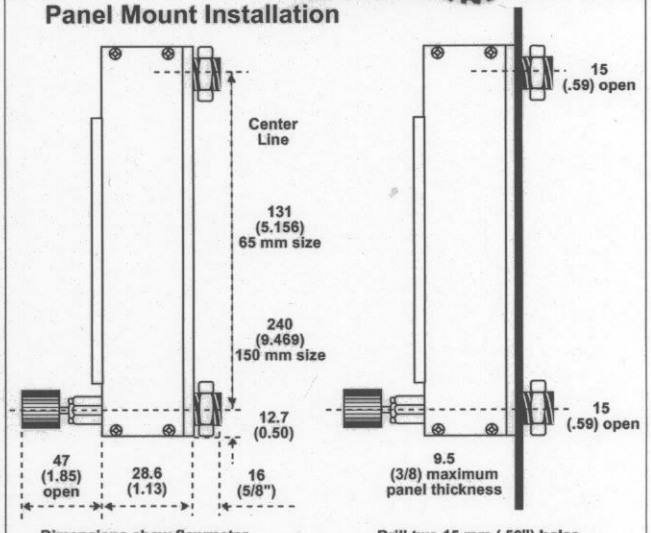
Panel Mounting Design
These rotameters, are equipped with horizontal ports with NPT threads for easy panel mounting. The ports have external threads, and are equipped with panel retaining nuts. No additional mounting hardware is required. Simply drill two holes 131 mm (5.156") apart (center to center) for 65 mm units, 240 mm (9.469") apart (center to center) for 150 mm units. Each hole should 16 mm (5/8") dia.

SPECIFICATIONS

Scales: 65 or 150 mm arbitrary scale
Accuracy: ±2% full scale
Repeatability: ±1/4% full scale
Connections: 1/8" FNPT, horizontal
Flow Tube: Borosilicate Glass
End Fittings:
Anodized aluminum or 316SS
Side Panels: Aluminum
Valve Orifice: Delrin (polyacetal) for aluminum models, Kel-F in 316SS models
O-Rings and Packings:
Buna-N in aluminum models, Viton-A® in 316SS models
Packings: Viton®
Float Stops: Teflon®
Maximum Temperature:
250°F (180°F for water)
Maximum Pressure:
200 psig



Panel Mount Installation



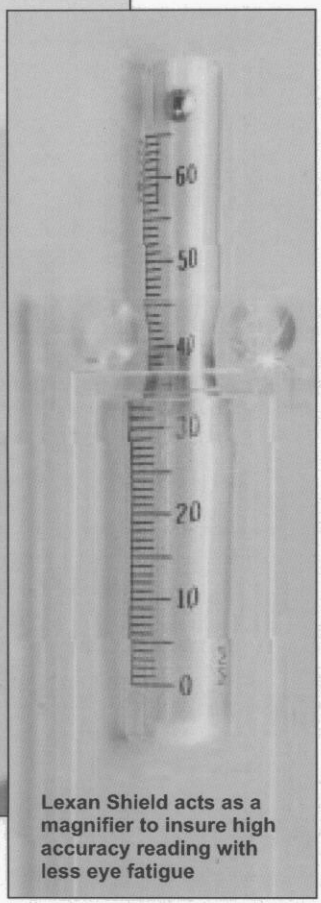
Dimensions show flowmeter side view. Face width (not shown) is 32 mm (1-1/4"). Use center line dimensions for drilling panel.

Drill two 15 mm (.59") holes to fit inlet and outlet. Maximum panel thickness is 9.5 mm (3/8"). Use the two retaining nuts supplied to secure flowmeter.

Dimensions: mm (")

$119
Basic Unit

MADE IN USA 2 YEAR WARRANTY



Lexan Shield acts as a magnifier to insure high accuracy reading with less eye fatigue

*G suffix denotes glass float, ST suffix denotes 316SS float, C suffix denotes carboloy float, SA denotes sapphire float. For units without valve, add suffix **"-NV"** to model number and subtract **$10** for aluminum; subtract **$13** for for 316 SS.*

1. Minimum flow rate is 10% of the maximum rate shown.

*2. For 16 turn, high resolution non-rising stem valve for 150 mm rotameters, add suffix **"-HRV"** to model number and add **$50** for aluminum units and **$100** for stainless steel units.*

Ordering Example:
FL-3945G-HRV** 150 mm rotameter, 16 turn high resolution non-rising stem valve stainless steel unit, with glass float, range of 18.6 cc/min air, 0.196 cc/min water $249 + 100= **$349.

HIGHLIGHTED MODELS IN STOCK FOR FAST DELIVERY!

B

Rotameters with 65 mm Flowtubes

To Order *(Specify Model No.)*

Model No. Aluminum Frame	Price	Model No 316 SS Frame	Price	Max Flow Rate* (cc/min) Air	Water*
FL-3607G	$119	FL-3707G	$190	5.77	.07
FL-3607ST	119	FL-3707ST	190	16.77	.28
FL-3607C	119	FL-3707C	190	32.99	.62
FL-3635G	119	FL-3735G	190	48.7	.59
FL-3635ST	119	FL-3735ST	190	214.5	2.38
FL-3613G	119	FL-3713G	190	104	1.75
FL-3613ST	119	FL-3713ST	190	298	7.24
FL-3610G	119	FL-3710G	190	202	2.64
FL-3610ST	119	FL-3710ST	190	522	12.0
FL-3610C	119	FL-3710C	190	818	20.8
FL-3651G	119	FL-3751G	190	986	20.5
FL-3651ST	119	FL-3751ST	190	1946	55.6
FL-3692G	119	FL-3792G	190	1249	26.97
FL-3692ST	119	FL-3792ST	190	2520	70.67
FL-3692C	129	FL-3792C	200	3680	103.5
FL-3688G	119	FL-3788G	190	2040	39.7
FL-3688ST	119	FL-3788ST	190	3980	108.3
FL-3688C	129	FL-3788C	200	5739	169.8
FL-3665G	119	FL-3765G	190	2678	52
FL-3665ST	119	FL-3765ST	190	4922	150
FL-3696ST	119	FL-3796ST	190	12,058	364
FL-3617ST	119	FL-3717ST	190	24,680	745
FL-3663ST	129	FL-3763ST	200	42,094	1261
FL-3663C	129	FL-3763C	200	58,500	1866

Rotameters with 150 mm Flowtubes

Model No. Aluminum Frame	Price	Model No 316 SS Frame	Price	Max Flow Rate* (cc/min) Air	Water*
FL-3845G	$139	FL-3945G	$249	18.6	.196
FL-3845ST	139	FL-3945ST	249	61.8	.956
FL-3845C	139	FL-3945C	249	110	1.92
FL-3841G	139	FL-3941G	249	48.5	.53
FL-3841ST	139	FL-3941ST	249	141.5	2.45
FL-3861G	139	FL-3961G	249	92	.85
FL-3861SA	139	FL-3961SA	249	140	1.92
FL-3861ST	139	FL-3961ST	249	263	4.7
FL-3861C	139	FL-3961C	249	454	8.5
FL-3802G	139	FL-3902G	249	374	5.5
FL-3802ST	139	FL-3902ST	249	814	20.4
FL-3802C	139	FL-3902C	249	1222	33.7
FL-3803G	139	FL-3903G	249	825	16.5
FL-3803ST	139	FL-3903ST	249	1682	46
FL-3804G	139	FL-3904G	249	2313	53.5
FL-3804ST	139	FL-3904ST	249	4562	130.4
FL-3805G	139	FL-3905G	249	3807	84.3
FL-3805ST	139	FL-3905ST	249	7590	216.6
FL-3839G	139	FL-3939G	249	8678	210
FL-3839ST	139	FL-3939ST	249	16,737	506
FL-3840G	149	FL-3940G	259	22,536	541
FL-3840ST	149	FL-3940ST	259	41,512	1288
FL-3840C	149	FL-3940C	259	59,494	1881