# **65 AND 150 mm ROTAMETERS** Featuring Standard Industrial Dimensions and Superior Readability



- ✓ Up to ±2% FS Accuracy
- Non-Rotating Seal Spindle
- Easy-to-Read Scale Design
- Special Dimensions for Interchangeability

The OMEGA® precision variablearea rotameters can measure flows of air, water, and gases, with up to ±2% FS accuracy and 0.25% FS repeatability. These units feature an easy-to-read millimeter scale and come with correlation charts for air and water. For correlation data for nitrogen, oxygen, hydrogen, helium, argon, and carbon dioxide, see page B-39. Please consult the Engineering Department for details. The scale is fused on the metering tube in 1 mm  $(\frac{3}{32})$  increments, which enables a user to read the flow rate with the highest accuracy.

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

### Non-Rising Stem Needle Valve

The 150 mm size flowmeters are also available with a non-rising stem type needle valve for special applications. This 15-turn metering valve has superior flow-rate control, and is particularly suited to 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 saw-toothing of the flow rate.

#### Shielded for Pressurized Systems

These rotameters, with precisionbored borosilicate glass metering tubes, are fully shielded against breakage. A white opaque rear shield provides a background to aid in discerning the float position.

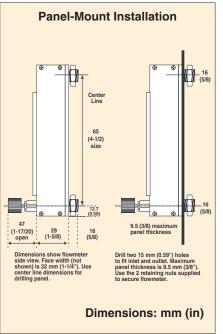
#### **Panel Mounting Design**

These rotameters are equipped with horizontal ports and 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 2 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 be 16 mm (%") in diameter.

### SPECIFICATIONS

Scales: 65 or 150 mm arbitrary scale Accuracy: ±2% FS (\*±5% FS) Repeatability: ±1/% FS Connections: ½ FNPT, horizontal Flow Tube: Borosilicate glass **End Fittings:** Anodized aluminum or 316 SS Side Panels: Aluminum Valve Orifice: Delrin® (polyacetal) for aluminum models, Kel-F for 316 SS models **O-Rings:** Buna-N in aluminum models, Viton-A® in 316 SS models Packings: Viton® Float Stops: PTFE Maximum Temperature: 250°F (180°F for water) Maximum Pressure: 200 psig Valve Orifice: Delrin® (polyacetal) for aluminum units, Kel-F® for 316 SS

FL-3207G, \$95, shown larger than actual size.





**Price** 

\$95

95

95

95

Model No.

FL-3307G\*

FL-3307ST\*

FL-3307C\*

FL-3335G

316 SS Frame

**Price** 

\$190

190

190

190

Model No.

FL-3207G\*

FL-3207ST\*

FL-3207C\*

FL-3235G

**Aluminum Frame** 

## *MOST POPULAR* **MODEL HIGHLIGHTED!**

Max Flow Rate<sup>+</sup> (cc/min)

Air

5.77

16.77

32.99

48.7

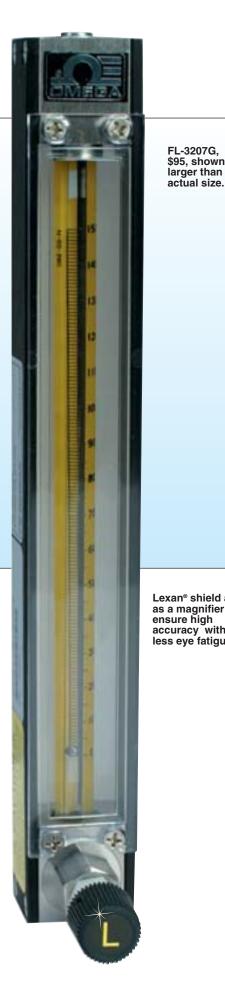
Water

0.07

0.28

0.62

0.59



FL-3207G, \$95, shown larger than actual size.	FL-3235G	95	FL-3335G	19	48.7	0.59	
	FL-3235ST	95	FL-3335ST	19	0 214.5	2.38	
	FL-3213G	95	FL-3313G	19	<b>0</b> 104	1.75	
	FL-3213ST	95	FL-3313ST	19	0 298	5.78	
	FL-3210G	95	FL-3310G	19	0 202	2.64	
	FL-3210ST	95	FL-3310ST	19	<b>D</b> 522	12.0	
	FL-3210C	95	FL-3310C	19	<b>D</b> 818	20.8	
	FL-3251G	95	FL-3351G	19		20.5	
	FL-3251ST	95	FL-3351ST	19	<b>D</b> 1946	55.6	
	FL-3292G	95	FL-3392G	19			
	FL-3292ST	95	FL-3392ST	19			
	FL-3292C	105	FL-3392C	20			
	FL-3288G	95	FL-3388G	19			
	FL-3288ST	95	FL-3388ST	19		108.3	
	FL-3288C	105	FL-3388C	20			
	FL-3265G	95	FL-3365G	19			
	FL-3265ST	95	FL-3365ST	19			
	FL-3296ST	95	FL-3396ST	19			
	FL-3217ST	95	FL-3317ST	19			
	FL-3263ST	105	FL-3363ST	20			
	FL-3263C	105	FL-3363C	20			
			1	20	<b>0</b>   30,300	1000.0	
		Rotameters with 150 mm Flow Tubes <sup>1</sup>					
	Model No.		Model No.			Rate <sup>+</sup> (cc/min)	
	Aluminum Frame	Price	316 SS Frame	Price	Air	Water	
	FL-3445G*	\$139	FL-3545G*	\$237	18.6	0.196	
	FL-3445ST*	139	FL-3545ST*	237	61.8	0.956	
	FL-3445C*	139	FL-3545C*	237	110	1.92	
	FL-3441G	139	FL-3541G	237	48.5	0.53	
	FL-3441ST	139	FL-3541ST	237	141.5	2.45	
exan <sup>®</sup> shield acts a magnifier to	FL-3461G	139	FL-3561G	237	92	0.85	
	FL-3461SA	139	FL-3561SA	237	140	1.92	
isure high curacy with	FL-3461ST	139	FL-3561ST	237	263	4.7	
ss eye fatigue.	FL-3461C	139	FL-3561C	237	454	8.5	
	FL-3402G	139	FL-3502G	237	374	5.5	
	FL-3402ST	139	FL-3502ST	237	814	20.4	
	FL-3402C	139	FL-3502C	237	1222	33.7	
	FL-3403G	139	FL-3503G	237	825	16.5	
	FL-3403ST	139	FL-3503ST	237	1682	46.0	
	FL-3404G	139	FL-3504G	237	2313	53.5	
	FL-3404ST	139	FL-3504ST	237	4562	130.4	
	FL-3405G	139	FL-3505G	237	3807	84.3	
	FL-3405ST	139	FL-3505ST	237	7590	216.6	
	FL-3439G	139	FL-3539G	237	8678	210.0	
	FL-3439ST	139	FL-3539ST	237	16,737	506.0	
	FL-3440G	149	FL-3540G	247	22,536	54.0	
	FL-3440ST	149	FL-3540ST	247	41,512	1288.0	
	FL-3440C	149	FL-3540C	247	59,494	1881.0	
	G suffix denotes glass SA suffix denotes sapp Subtract \$10 from price ' For 16 turn, high-reso to model number and \$ 'Minimum flow rate is 1 'Accuracy ±5% on thes Ordering Example: F	ohire float. e for alumin lution non <b>50</b> for alun 0% of max se models.	For units without v. num; subtract <b>\$13</b> rising stem valve f ninum units, <b>\$101</b> kimum.	alve, add si for SS. or 150 mm for stainles	uffix " <b>-NV</b> " to n rotameters, ad	nodel number.	
	B-7	22					

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