

Expanding the line of side plate construction rotameters, King introduces its 7459 Series. These models feature a 250 mm scale borosilicate glass tube with Aluminum side plates and a polycarbonate shield. Connections are vertical FNPT, 316L Stainless Steel.



## DESCRIPTION

### Metering Tube

Borosilicate Kinglass

### Internal Components

Standard: 316L Stainless Steel

### Inlet/Outlet Fittings

NPT, Vertical Connection:

Sizes 3 & 4: 1/2" FNPT

Size 5: 3/4" FNPT

Size 6: 1" FNPT

Size 8 & 9: 1 1/2" FNPT

### Fitting Material

Standard: 316L Stainless Steel

### Elastomers

Standard: Viton®

Optional: Buna N, EPR and Kalrez®

## PERFORMANCE

### Capacities

0.22 to 100 GPM — Water

0.9 to 350 SCFM — Air

### Scale

250 mm (10")

Direct reading, detachable

### Accuracy

± 2% of Full Scale Flow

### Turndown

10:1 to 12.5:1, unless otherwise indicated

### Repeatability

0.5 %

### Max Temperature

200° F (93° C) Liquid

250° F (121° C) Gases

### Max Pressure

Sizes 3 & 4: 350 psig

Size 5: 175 psig

Size 6, 8 & 9: 125 psig

### Ambient Temperature

33° F to 125° F (1° C to 52° C)

## OPTIONS

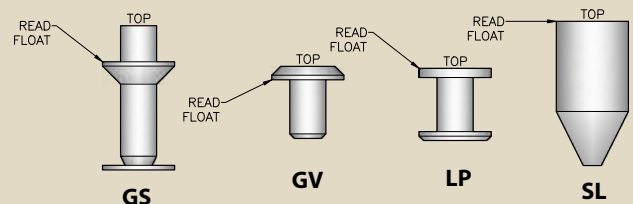
### Certified Calibrations

Conform to ISA RP 16.6

### Scales

Can be produced in any volumetric unit

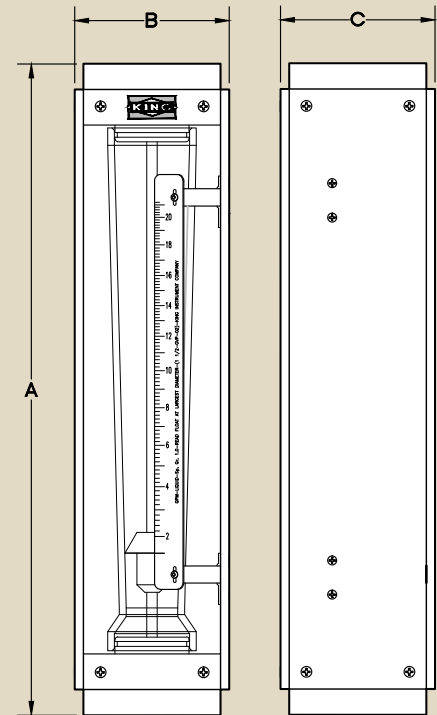
### Float Types



## SPECIFICATIONS:

Order No.	Full Scale Flow GPM - Water	Order Number	Full Scale Flow SCFM - Air	Float Number	Float Type	Press Drop In W.C.	Tube Size	Tube No.
31W	0.220	31A	.9	3/8-LPG-01	LP	—	3/8-20-G-10	3G
32W	0.315	32A	1.4	3/8-SLG-01	SL	2	3/8-20-G-10	3G
33W	0.640	33A	2.7	3/8-SLG-02	SL	7	3/8-20-G-10	3G
41W	0.77	41A	3.4	1/2-LPG-01	LP	6	1/2-32-G-10	4G
42W	1.02	42A	4.4	1/2-LPG-02	LP	10	1/2-32-G-10	4G
43W	1.20	43A	5.0	1/2-GVG-01	GV	0	1/2-32-G-10	4G
44W	1.44	44A	6.1	1/2-GSG-01	GS	15	1/2-32-G-10	4G
45W	1.92	45A	8.5	1/2-SLG-01	SL	28	1/2-32-G-10	4G
46W	2.26	46A	10.2	1/2-SLG-02	SL	41	1/2-32-G-10	4G
51W	1.1	51A	4.5	3/4-LPG-01	LP	1	3/4-28-G-10	5G
52W	2.4	52A	10.0	3/4-GVG-01	GV	4	3/4-28-G-10	5G
53W	3.0	53A	12.0	3/4-GSG-01	GS	5	3/4-28-G-10	5G
54W	3.3	54A	13.2	3/4-GVG-02	GV	6	3/4-28-G-10	5G
55W	4.0	55A	16.4	3/4-GSG-02	GS	6	3/4-28-G-10	5G
56W	5.2	56A	22.0	3/4-SLG-01	SL	18	3/4-28-G-10	5G
61W	6.9	—	—	1-LPG-02	LP	4	1-32-G-10	6G
62W	9.8	—	—	1-SLG-01	SL	8	1-32-G-10	6G
63W	12.6	—	—	1-SLG-02	SL	13	1-32-G-10	6G
64W	6.7	64A	27.0	1-LPP-01	LP	4	1-40-P-10	6P
65W	7.4	65A	30.0	1-GVP-01	GV	6	1-40-P-10	6P
66W	8.5	66A	35.0	1-GVP-02	GV	8	1-40-P-10	6P
67W	10.4	67A	42.5	1-GSP-01	GS	10	1-40-P-10	6P
68W	11.6	68A	46.5	1-GVP-03	GV	15	1-40-P-10	6P
69W	12.0	69A	50.0	1-GSP-02	GS	14	1-40-P-10	6P
610W	15.6	610A	63.0	1-GSP-03	GS	24	1-40-P10	6P
611W	21.6	611A	100.0	1-SLP-01	SL	61	1-40-P10	6P
612W	27.5	—	—	1-SLP-02	SL	85	1-40-P10	6P
613W	34.5	—	—	1-SLP-03	SL	110	1-40-P10	6P
84W	17.0	84A	70.0	11/2-GVP-01	GV	10	8P - 11/2-32-P-10	8P
85W	21.2	85A	87.0	11/2-GVP-02	GV	13	8P - 11/2-32-P-10	8P
86W	22.2	—	—	11/2-GSP-01	GS	14	8P - 11/2-32-P-10	8P
87W	24.8	87A	102.0	11/2-GVP-03	GV	18	8P - 11/2-32-P-10	8P
88W	28.5	—	—	11/2-GSP-02	GS	20	8P - 11/2-32-P-10	8P
89W	35.0	—	—	11/2-GSP-03	GS	24	8P - 11/2-32-P-10	8P
94W	41.5	94A	170.0	2-GVP-01	GV	20	9P - 2-30-P-10	9P
95W	58.0	95A	240.0	2-GSP-01	GS	25	9P - 2-30-P-10	9P
96W	65.0	96A	270.0	2-GSP-02	GS	30	9P - 2-30-P-10	9P
97W	85.0	97A	350.0	2-SLP-00	SL	40	9P - 2-30-P-10	9P
98W	100.0	—	—	2-SLP-01	SL	50	9P - 2-30-P-10	9P

## DIMENSION DIAGRAM



Order Number	Dimension (Inches)			Connection Size (FNPT)
	A	B	C	
31W - 46W	17	2.5	2.375	1/2"
51W - 56W	17	2.5	2.375	3/4"
61W - 613W	17	2.5	2.375	1"
84W - 98W	19	4.5	4.500	1 1/2"

## ORDERING:

Use the following guide to determine the specific product number you require.

Meter Series	Order Number	Fitting Material	O-ring Material	Scale
7 4 5	See Specifications Table	316L SS - 2	EPR - 1 Buna-N - 2 Viton® - 3 Kalrez® - 4	Millimeter - 1 GPM Water@70°F - 2 LPM Water@70°F - 3 SCFM Air@STP - 4 SLPM Air@STP - 5 Non standard - 6