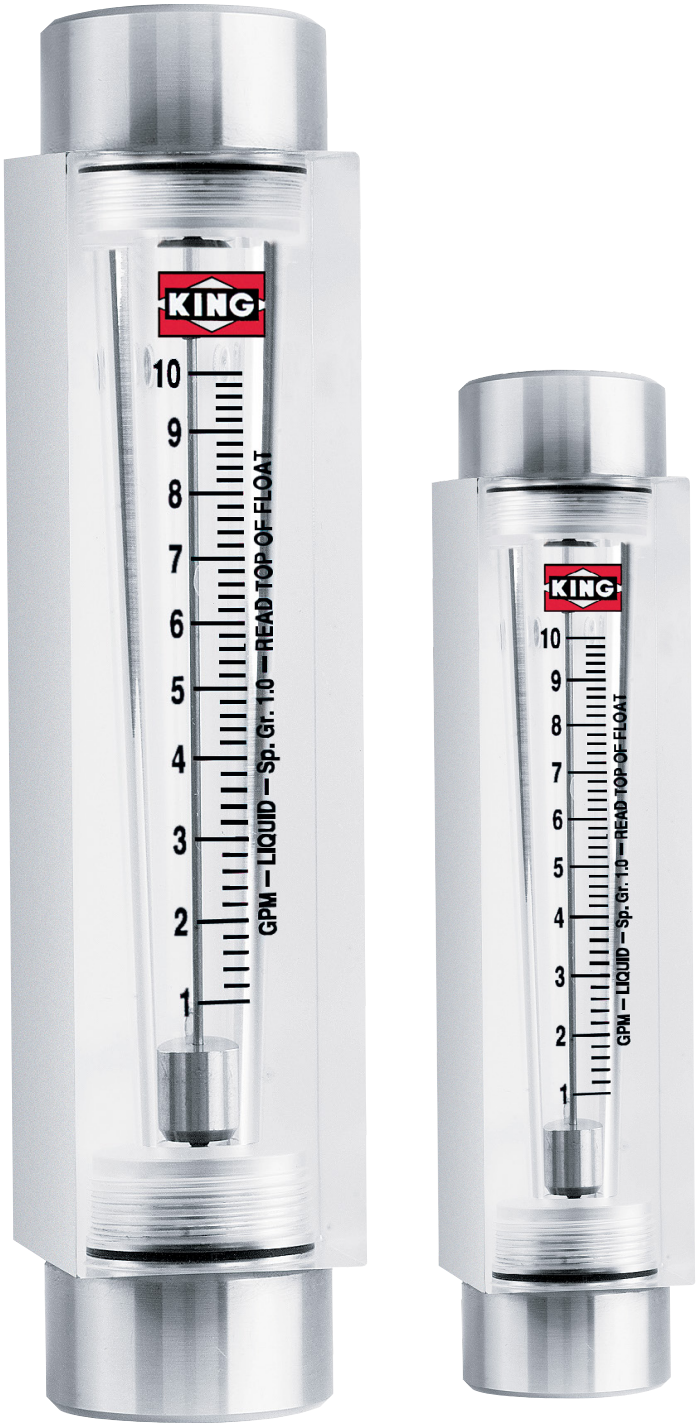
7510 / 7511 Series

ACRYLIC TUBE

Acrylic block construction with direct reading scales have white screen printed backs to enhance scale readability. Connections are in-line for easy installation.



DESCRIPTION

Metering Tube	Machined cast acrylic
Internal Components	316L SS
Fitting Material	Standard: PVC Optional: 316L SS, brass
Inlet/Outlet Fittings	FNPT, vertical
O-Ring	Standard: EPR Optional: Buna N, Viton

PERFORMANCE

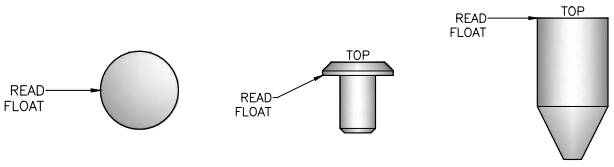
Capacities	Water 7 GPH to 20 GPM Air 2.6 SCFH to 60 SCFM
Scale	50mm, 65mm, 100mm, 127mm, 250mm direct reading
Accuracy	± 6% of full scale flow, 50mm scale ± 5% of full scale flow, 65mm scale ± 4% of full scale flow, 100mm scale ± 3% of full scale flow, 127mm scale ± 2% of full scale flow, 250mm scale
Turndown	10:1 Unless otherwise noted
Repeatability	3%, 50 mm scale 2%, 75 mm scale 2%, 100 mm scale 2%, 127 mm scale 0.5%, 250 mm scale
Maximum Temperature	Liquid 130° F (54° C) Gases 100° F (38° C)
Maximum Pressure	Water 150 psig Air 125 psig
Ambient Temperature	33° F to 125° F (1° C to 52° C)

OPTIONS

Certified Calibrations	Conform to ISA RP 16.6
Scales	Any volumetric unit

FLOATS

Options for rotameter float materials and designs extend flow ranges for different fluids within a given rotameter tube design.



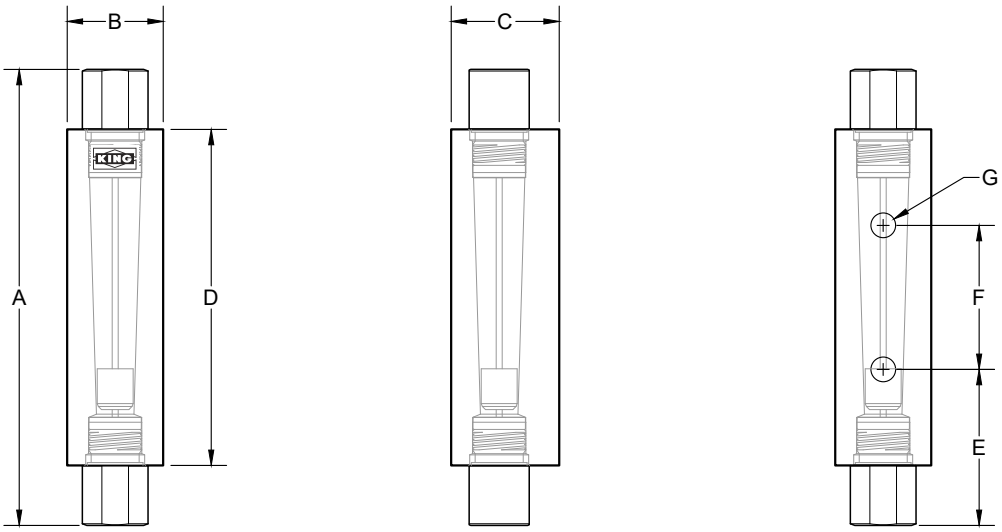
BL **GV** **SL**

CAUTION: *Meters used in gas service are designed to operate at 14.7 psia. Meters used in pressure gas service must be shielded using 3/8" polycarbonate to protect personnel and equipment in the event of tube failure.*

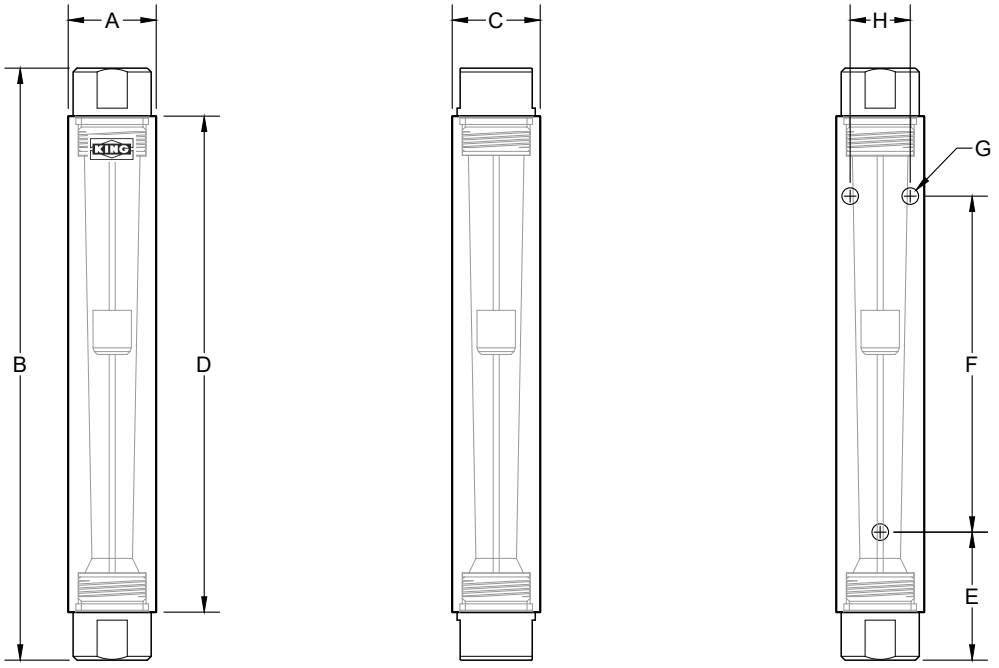
7510 / 7511 Specifications

DIMENSION DIAGRAMS

2A BLOCKS



2B / 5B / 6A / 7A BLOCKS



7510 / 7511 Specifications

Water Order Number	Air Order Number	Dimensions (Inches) A	B	C	D	E	F	G	H	Connection Size
Block #2A*, 50mm (2 Inch) Scale										
2A-02 - 2A-12	2A-01 - 2A-17	4.75	1	1.125	3.50	1	1.50	10-32		¼" FNPT*
Block #2B, 65mm (2 1/2 Inch) Scale										
2B-02 - 2B-08	2B-01 - 2B-07	6.50	1.375	1.375	5	1.25	2.50	10-32	.937	½" FNPT
Block #5B, 127mm (5 Inch) Scale										
5B-02 - 5B-08	5B-01 - 5B-07	9.25	1.375	1.375	7.75	1.25	5.25	10-32	.937	½" FNPT
Block #6A, 100mm (4 Inch) Scale										
6A-02 - 6A-06	6A-01 - 6A-03	8.375	1.78	1.812	6.625	1.312	4	10-32	1.25	1" FNPT
Block #7A, 250mm (10 Inch) Scale										
7A-02 - 7A-08	7A-01- 7A-07	14.78	1.78	1.812	13	2.50	8	10-32	1.25	¾" FNPT

**Block 2A has ¼" FNPT with brass or stainless steel fitting, ¼" MNPT with PVC fittings*

*** 10-32 female thread (mounting screws not supplied)*

Order Number	Float	Flow Water	Order Number	Float	Flow Air
Block #2A, 50mm (2 Inch) Scale					
—		—	2A-01*	BL	2.6 SCFH
—		—	2A-03**	BL	5 SCFH
—		—	2A-05*	BL	10 SCFH
—		—	2A-07*	BL	20 SCFH
2A-02	SL	7 GPH	2A-09**	BL	30 SCFH
2A-04	SL	12 GPH	2A-11***	SL	70 SCFH
2A-06	SL	22 GPH	2A-13	SL	100 SCFH
2A-08	SL	44 GPH	2A-15	SL	180 SCFH
2A-10	SL	60 GPH	2A-17	SL	4 SCFM
2A-12	SL	75 GPH	—		—

**These meters have glass ball floats.*

***These meters have stainless steel ball floats.*

**** These meters have less than 10:1 turndown.*

Order Number	Float	Flow Water	Order Number	Float	Flow Air
Block #2B, 65mm (2 1/2 Inch) Scale					
2B-02	GV	1 GPM	2B-01	GV	4 SCFM
2B-04	GV	2 GPM	2B-03	GV	8 SCFM
2B-06	SL	3.6 GPM	2B-05	SL	15 SCFM
2B-08	SL	5 GPM	2B-07	SL	20 SCFM
Block #5B, 127mm (5 Inch) Scale					
5B-02	GV	1 GPM	5B-01	GV	4.2 SCFM
5B-04	GV	2 GPM	5B-03	GV	8.2 SCFM
5B-06	SL	3.5 GPM	5B-05	SL	15 SCFM
5B-08	SL	5 GPM	5B-07	SL	21 SCFM
Block #6A, 100mm (4 Inch) Scale					
6A-02	SL	10 GPM	6A-01	SL	40 SCFM
6A-04	SL	15 GPM	6A-03	SL	60 SCFM
6A-06	SL	20 GPM	—		—
Block #7A, 250mm (10 Inch) Scale					
7A-02	GV	2 GPM	7A-01	GV	8 SCFM
7A-04	GV	3.5 GPM	7A-03	GV	14.8 SCFM
7A-06	GV	5 GPM	7A-05	GV	20 SCFM
7A-08	SL	10 GPM	7A-07	SL	42 SCFM

ORDERING:

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

7	5	1												

Meter Series
7510 - 2A, 6A, 7A
7511 - 2B, 5B

Fitting Material
Brass - 1
PVC - 2
316L SS - 3

O-Ring Material
EPR - 1
Buna-N - 2
Viton - 3

Order Number
See Specifications

Scale
Standard - Leave Blank
Non Standard - N