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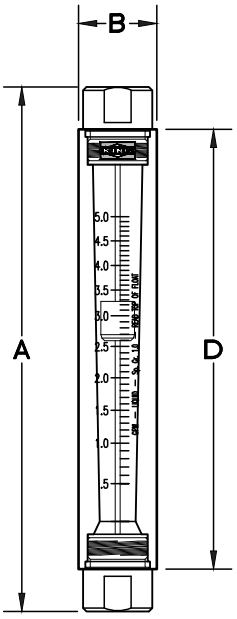
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KING INSTRUMENT COMPANY — 7510 & 7511 Series Flowmeters



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

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
Can be produced in any volumetric unit

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.*

SPECIFICATIONS:

Order Number	Flow Water	Order Number	Flow Air	Connection Size	Float	Dimensions (Inches) A	B	D
Block #2A, 50mm (2 Inch) Scale								
—	—	2A-01◊	2.6 SCFH	1/4" FNPT*	BL	4.75	1	3.50
—	—	2A-03◊◊	5 SCFH	1/4" FNPT*	BL	4.75	1	3.50
—	—	2A-05◊	10 SCFH	1/4" FNPT*	BL	4.75	1	3.50
—	—	2A-07◊	20 SCFH	1/4" FNPT*	BL	4.75	1	3.50
2A-02	7 GPH	2A-09◊◊	30 SCFH	1/4" FNPT*	BL	4.75	1	3.50
2A-04	12 GPH	2A-11	70 SCFH	1/4" FNPT*	SL	4.75	1	3.50
2A-06	22 GPH	2A-13	100 SCFH	1/4" FNPT*	SL	4.75	1	3.50
2A-08	44 GPH	2A-15	180 SCFH	1/4" FNPT*	SL	4.75	1	3.50
2A-10	60 GPH	2A-17	4 SCFM	1/4" FNPT*	SL	4.75	1	3.50
2A-12	75 GPH	—	—	1/4" FNPT*	SL	4.75	1	3.50
Block #2B, 65mm (2 1/2 Inch) Scale								
2B-02	1 GPM	2B-01	4 SCFM	1/2" FNPT	GV	6.50	1.375	5
2B-04	2 GPM	2B-03	8 SCFM	1/2" FNPT	GV	6.50	1.375	5
2B-06	3.6 GPM	2B-05	15 SCFM	1/2" FNPT	SL	6.50	1.375	5
2B-08	5 GPM	2B-07	20 SCFM	1/2" FNPT	SL	6.50	1.375	5
Block #5B, 127mm (5 Inch) Scale								
5B-02	1 GPM	5B-01	4.2 SCFM	1/2" FNPT	GV	9.25	1.375	7.75
5B-04	2 GPM	5B-03	8.2 SCFM	1/2" FNPT	GV	9.25	1.375	7.75
5B-06	3.5 GPM	5B-05	15 SCFM	1/2" FNPT	SL	9.25	1.375	7.75
5B-08	5 GPM	5B-07	21 SCFM	1/2 " FNPT	SL	9.25	1.375	7.75
Block #6A, 100mm (4 Inch) Scale								
6A-02	10 GPM	6A-01	40 SCFM	1" FNPT	SL	8.375	1.78	6.625
6A-04	15 GPM	6A-03	60 SCFM	1" FNPT	SL	8.375	1.78	6.625
6A-06	20 GPM	—	—	1" FNPT	SL	8.375	1.78	6.625
Block #7A, 250mm (10 Inch) Scale								
7A-02	2 GPM	7A-01	8 SCFM	3/4" FNPT	GV	14.812	1.78	13
7A-04	3.5 GPM	7A-03	14.8 SCFM	3/4" FNPT	GV	14.812	1.78	13
7A-06	5 GPM	7A-05	20 SCFM	3/4" FNPT	GV	14.812	1.78	13
7A-08	10 GPM	7A-07	42 SCFM	3/4" FNPT	SL	14.812	1.78	13

**Block 2A has 1/4" FNPT with Brass or Stainless Steel Fitting, 1/4" MNPT with PVC fittings*
***10-32 female thread. (Mounting Screws Not Supplied)*
◊These meters have glass ball floats
◊◊These meters have stainless steel ball floats

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 Table

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