

# 7200 Series

A real value in general purpose rotameters. Vertical connections are from 3/8" NPT to 2" NPT

## Description

**Metering Tube**  
Machined Cast Acrylic

**Internal Components**  
316L Stainless Steel

**Inlet/Outlet Fittings**  
NPT, Vertical

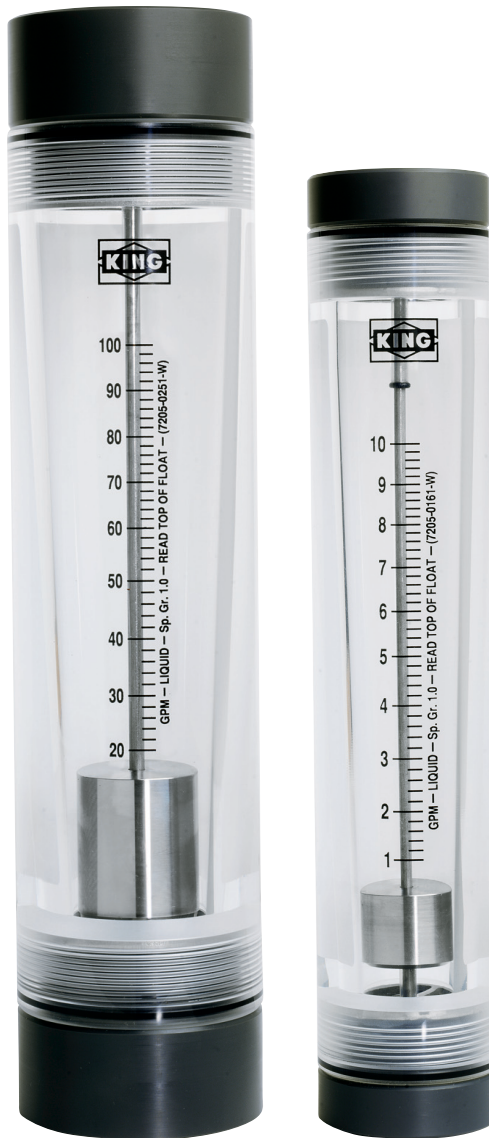
**Fitting Material**  
Standard: PVC (not for air service)  
Optional: 316 Stainless Steel, Brass, Aluminum

**Elastomers**  
Standard: EPR  
Optional: Buna-N, Viton®

## Options

**Certified Calibrations**  
Conform to ISA RP 16.6

**Scales**  
Can be produced in any volumetric unit



# AcrylicTube

## Performance

**Capacities**  
1 to 200 GPM — Water  
4 to 245 SCFM — Air

**Scale**  
127 mm (5")  
Direct reading

**Accuracy**  
± 3% to ± 6% of Full Scale Flow  
See specifications table


**Turndown**  
10:1 to 12.5:1, unless otherwise indicated

**Repeatability**  
1% to 2%  
See specifications table

**Max Temperature**  
Water — 130° F (54° C)  
Air — 100° F (38° C)

**Max Pressure**  
Water — 150 psig  
Air — 100 psig

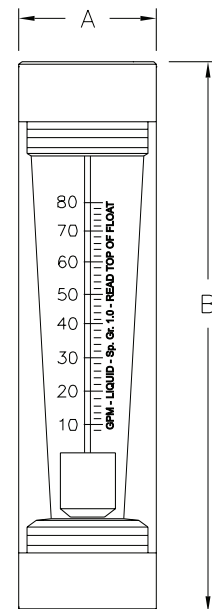
**Ambient Temperature**  
33° F to 125° F (1° C to 52° C)



**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.

KING INSTRUMENT CO.  
GARDEN GROVE, CA  
MADE IN U.S.A.

Refer to specification table on page 7



# 7200 Series Specifications:

## Acrylic Tube

Order Number	Flow GPM - Water	Flow SCFM - Air	F.S. Accuracy±/ Repeatability	Press. Drop (In. / W.C.)	Connection Size	Dimensions	
						A	B
0051	1	4	3%/2%	2.9	3/8" FNPT	1.375"	8.25"
0052	1	4	3%/2%	2.9	1/2" FNPT	1.375"	8.25"
0061	2	8	3%/2%	5.2	3/8" FNPT	1.375"	8.25"
0062	2	8	3%/2%	5.2	1/2" FNPT	1.375"	8.25"
0071	3.5	14	3%/2%	9.5	3/8" FNPT	1.375"	8.25"
0072	3.5	14	3%/2%	9.5	1/2" FNPT	1.375"	8.25"
0081	5	20	3%/2%	13.1	3/8" FNPT	1.375"	8.25"
0082	5	20	3%/2%	13.1	1/2" FNPT	1.375"	8.25"
0151	5	20	3%/1%	10	1" FNPT	2.000"	10.25"
0161	10	43	3%/1%	12	1" FNPT	2.000"	10.25"
0171	15	62	3%/1%	18	1" FNPT	2.000"	10.25"
0181	21	86	3%/1%	22	1" FNPT	2.000"	10.25"
0191	30.5	—	3%/1%	26	1" FNPT	2.000"	10.25"
0201	40	—	6%/2%	32	1 1/2" MNPT	2.000"	12.06"
0211	50	—	6%/2%	38	1 1/2" MNPT	2.000"	12.06"
0221	40	165	4%/1%	18	2" FNPT	3.000"	13.25"
0231	60	245	4%/1%	25	2" FNPT	3.000"	13.25"
0241	80	—	4%/1%	30	2" FNPT	3.000"	13.25"
0251	100*	—	4%/1%	35	2" FNPT	3.000"	13.25"
0261	120*	—	6%/2%	45	2" FNPT	3.000"	13.25"
0271	160*	—	6%/2%	60	2" FNPT	3.000"	13.25"
0281	200*	—	6%/2%	80	2" FNPT	3.000"	13.25"

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

Order Number	Flow Range	Actual Turndown
0251	20 - 100 GPM	5:1
0261	30 - 120 GPM	4:1
0271	45 - 160 GPM	3.55:1
0281	55 - 200 GPM	3.63:1

Max. Pressure		Max. Temp	
Water	Air	Water	Air
150 psig	100 psig	130°F	100°F

## Ordering:

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



Meter Series

Order number from specifications table above

Fitting Material

Brass - 1  
316L SS - 2  
PVC - 3  
Aluminum - 6

O-Ring Material

EPR - 1  
Buna-N - 2  
Viton® - 3

Fluid To Be Metered

GPM—Liquid - W  
SCFM—Air - A

Example: 7205 - 0281 - 3 - 1 - W