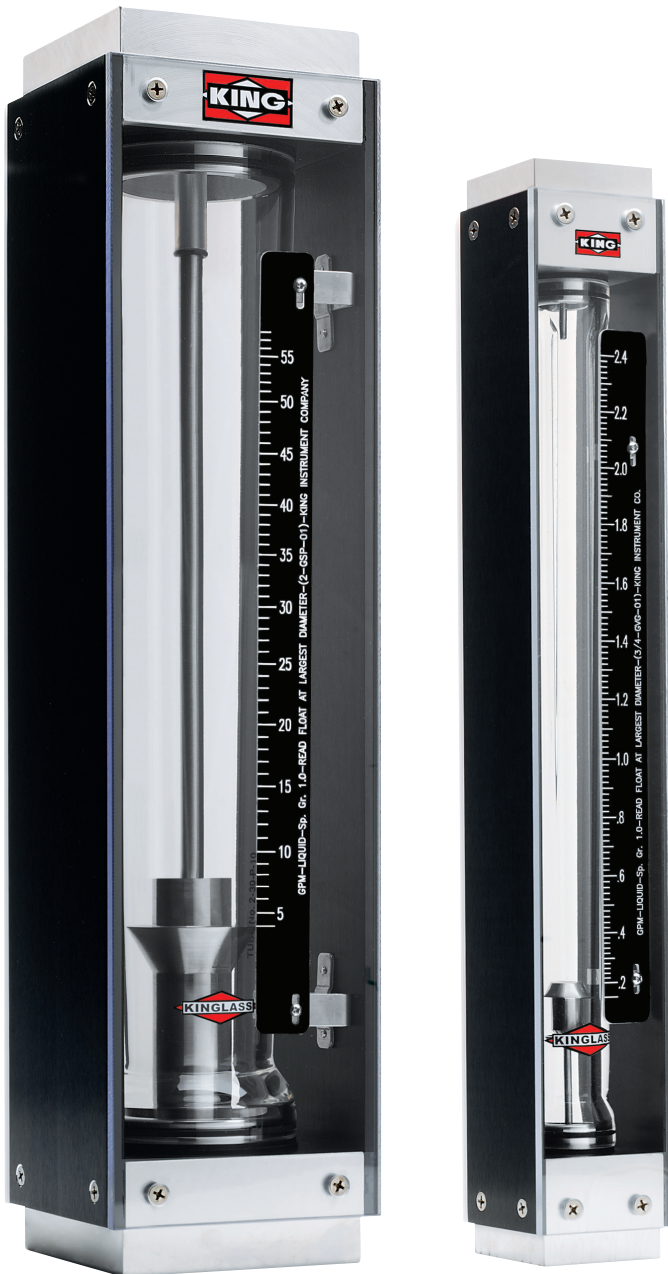


Expanding the line of side plate construction rotameters is the 7459 Series. These models feature a 250 mm scale borosilicate glass tube with aluminum side plates and a polycarbonate shield. Connections are vertical FNPT, 316L stainless steel.



DESCRIPTION

| | |
|------------------------------|--|
| Metering Tube | Borosilicate Kinglass® |
| Internal Components | Standard: 316L SS |
| Fitting Material | Standard: 316L SS |
| 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 |
| O-Ring | Standard: Viton® Optional: Buna N, EPR, Kalrez® |

PERFORMANCE

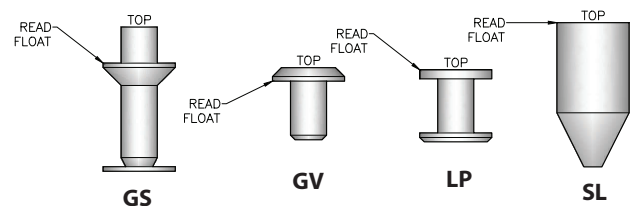
| | |
|----------------------------|--|
| Capacities | Water 0.22 to 100 GPM Air 0.9 to 350 SCFM |
| Scale | 250 mm (10") direct reading, detachable |
| Accuracy | ± 2% of full scale flow |
| Turndown | 10:1 |
| Repeatability | 0.5% |
| Max Temperature | Gases 250° F (121° C) Liquids 200° F (93° C) |
| Maximum 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 | Any volumetric unit |

FLOATS

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

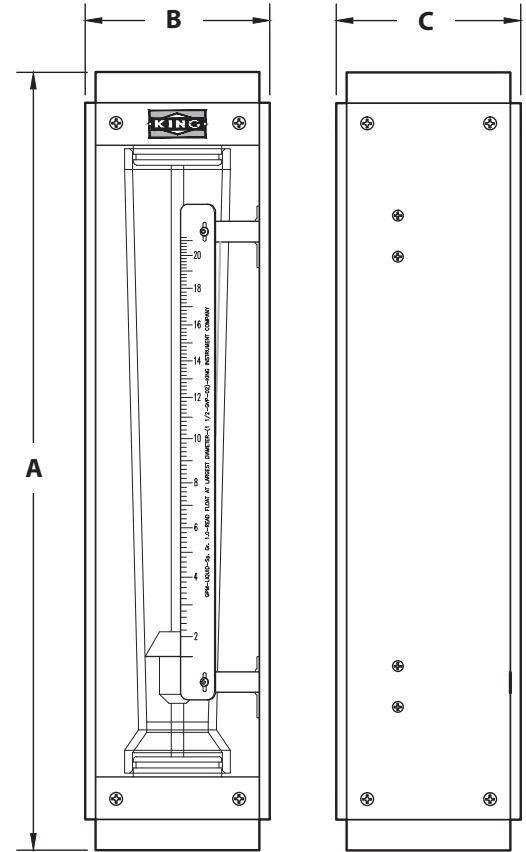


7459 Series Specifications

Glass Tube

| Order No. | Full Scale Flow GPM - Water | Order Number | Full Scale Flow SCFM - Air | Float Number | Float Type | Pressure Drop (Inches of Water) | 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 DIAGRAMS



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

* Tubes designated "G" have rib-guided floats. Tubes designated "P" have pole-guided floats.

ORDERING:

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

| 7 4 5 | Order Number | Fitting Material | O-Ring Material | Scale |
|-------|---|------------------|-----------------|--------------------|
| | See Specifications | 316L SS - 2 | EPR - 1 | Millimeter - 1 |
| | * Only use this 4th box with order numbers 610W thru 613W. Otherwise leave blank. | | Buna-N - 2 | GPM Water@70°F - 2 |
| | | | Viton® - 3 | LPM Water@70°F - 3 |
| | | | Kalrez® - 4 | SCFM Air@STP - 4 |
| | | | | SLPM Air@STP - 5 |
| | | | | Non standard - 6 |