

7910 Series

GLASS TUBE

70 flow ranges in 7 tube sizes makes these 250 mm scale glass tube, 304 Stainless steel case models one of our largest series. Dual port connections (both horizontal and vertical on each end) allow for a variety of installation options.



DESCRIPTION

| | |
|------------------------------|--|
| Metering Tube | Borosilicate Kinglass |
| Internal Components | Standard: 316L SS Optional: Hastelloy C-276 |
| Fitting Material | Standard: 316L SS Optional: PVC (vertical connections only) |
| Inlet/Outlet Fittings | NPT or flange, vertical or horizontal 360° fully rotatable |
| O-Ring | Standard: Viton Optional: Buna N, EPR, and Kalrez |
| Case and Covers | 304 SS case Polycarbonate shield |

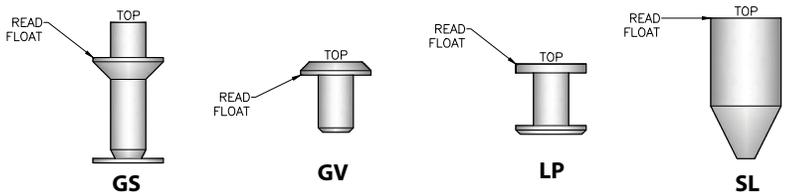
PERFORMANCE

| | |
|----------------------------|--|
| Capacities | Water 0.22 to 132 GPM Air 0.9 to 350 SCFM |
| Scale | 250mm (10") direct reading, detachable |
| Accuracy | ± 2% of full scale flow |
| Turndown | 10:1 |
| Repeatability | 0.5 % |
| Maximum Temperature | 316L SS fittings 200° F (93° C) PVC fittings 115° F (46° C) |
| Maximum Pressure | 316L SS fittings 300 psig, size 3 & 4 316L SS fittings 250 psig, size 5 & 6 316L SS fittings 150 psig, size 8 316L SS fittings 125 psig, size 9 PVC fittings 150 psig, size 3,4,5,6 & 8 PVC fittings 125 psig, size 9 |
| Ambient Temperature | 33° F to 125° F (1° C to 52° C) |

OPTIONS

| | |
|-------------------------------|--------------------------------|
| Alarm | Latching Reed Switch (Page 55) |
| Certified Calibrations | Conform to ISA RP 16.6 |
| Scales | Any volumetric unit |

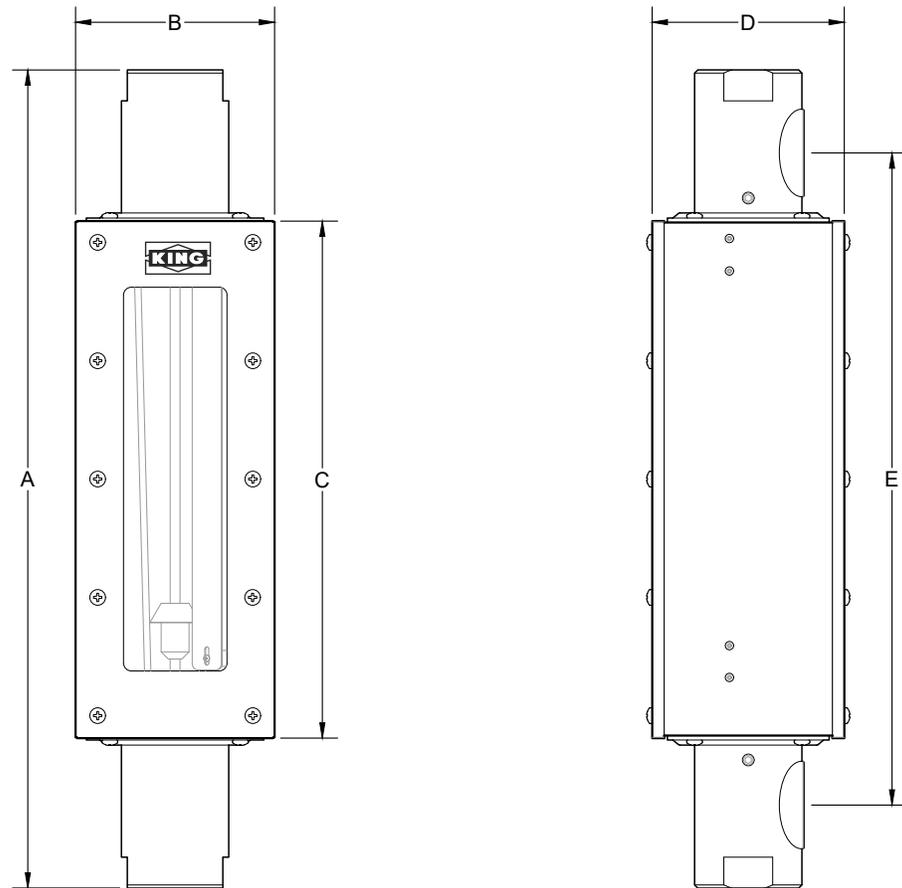
FLOATS



7910 Specifications

GLASS TUBE

DIMENSION DIAGRAMS



| Order Number | Dimensions (Inches) | | | | | Connection Size FNPT |
|--------------|---------------------|-------|-------|-------|-------|---|
| | A | B | C | D | E | |
| 31 - 46 | 19.85 | 3.125 | 14.45 | 3.125 | 17.50 | 1/2" (FNPT) Flange connection are also available. Contact the factory. |
| 51 - 69 | 20.75 | 4.625 | 14.46 | 4.50 | 17.45 | 1" (FNPT) Flange connections are also available. Contact the factory |
| 610 - 613 | 20.75 | 4.625 | 14.46 | 4.50 | 17.45 | 1" (FNPT) Flange connections are also available. Contact the factory |
| 84 - 99 | 25.65 | 6.25 | 16.25 | 6.125 | 20.50 | 1 1/2" Horiz., 2" Vert (FNPT) (PVC fittings vert. only) Flange connection also available. Contact the factory |

7910 Specifications

GLASS TUBE

| Order Number | Full Scale Flow GPM - Water | Full Scale Flow SCFM - Air | Alarm Option | Float Number | Float Type | Pressure Drop (Inches of Water) | Tube Size | Tube Number* |
|--------------|-----------------------------|----------------------------|--------------|--------------|------------|---------------------------------|-----------|---------------|
| 31 | 0.220 | .9 | No | 3/8-LPG-01 | LP | — | 3G | 3/8-20-G-10 |
| 32 | 0.315 | 1.4 | No | 3/8-SLG-01 | SL | 2 | 3G | 3/8-20-G-10 |
| 33 | 0.640 | 2.7 | No | 3/8-SLG-02 | SL | 7 | 3G | 3/8-20-G-10 |
| 41 | 0.77 | 3.4 | No | 1/2-LPG-01 | LP | 6 | 4G | 1/2-32-G-10 |
| 42 | 1.02 | 4.4 | No | 1/2-LPG-02 | LP | 10 | 4G | 1/2-32-G-10 |
| 43 | 1.20 | 5.0 | Yes | 1/2-GVG-01 | GV | 10 | 4G | 1/2-32-G-10 |
| 44 | 1.44 | 6.1 | No | 1/2-GSG-01 | GS | 15 | 4G | 1/2-32-G-10 |
| 45 | 1.92 | 8.5 | Yes | 1/2-SLG-01 | SL | 28 | 4G | 1/2-32-G-10 |
| 46 | 2.26 | 10.2 | Yes | 1/2-SLG-02 | SL | 41 | 4G | 1/2-32-G-10 |
| 51 | 1.1 | 4.5 | No | 3/4-LPG-01 | LP | 1 | 5G | 3/4-28-G-10 |
| 52 | 2.4 | 10.0 | Yes | 3/4-GVG-01 | GV | 4 | 5G | 3/4-28-G-10 |
| 53 | 3.0 | 12.0 | Yes | 3/4-GSG-01 | GS | 5 | 5G | 3/4-28-G-10 |
| 54 | 3.3 | 13.2 | Yes | 3/4-GVG-02 | GV | 6 | 5G | 3/4-28-G-10 |
| 55 | 4.0 | 16.4 | Yes | 3/4-GSG-02 | GS | 6 | 5G | 3/4-28-G-10 |
| 56 | 5.2 | 22.0 | Yes | 3/4-SLG-01 | SL | 18 | 5G | 3/4-28-G-10 |
| 61 | 6.9 | — | Yes | 1-LPG-02 | LP | 4 | 6G | 1-32-G-10 |
| 62 | 9.8 | — | No | 1-SLG-01 | SL | 8 | 6G | 1-32-G-10 |
| 63 | 12.6 | — | Yes | 1-SLG-02 | SL | 13 | 6G | 1-32-G-10 |
| 64 | 6.7 | 27.0 | No | 1-LPP-01 | LP | 4 | 6P | 1-40-P-10 |
| 65 | 7.4 | 30.0 | No | 1-GVP-01 | GV | 6 | 6P | 1-40-P-10 |
| 66 | 8.5 | 35.0 | No | 1-GVP-02 | GV | 8 | 6P | 1-40-P-10 |
| 67 | 10.4 | 42.5 | No | 1-GSP-01 | GS | 10 | 6P | 1-40-P-10 |
| 68 | 11.6 | 46.5 | No | 1-GVP-03 | GV | 15 | 6P | 1-40-P-10 |
| 69 | 12.0 | 50.0 | No | 1-GSP-02 | GS | 14 | 6P | 1-40-P-10 |
| 610 | 15.6 | 63.0 | No | 1-GSP-03 | GS | 24 | 6P | 1-40-P-10 |
| 611 | 21.6 | 100.0 | Yes | 1-SLP-01 | SL | 61 | 6P | 1-40-P-10 |
| 612 | 27.5 | — | Yes | 1-SLP-02 | SL | 85 | 6P | 1-40-P-10 |
| 613 | 34.5 | — | Yes | 1-SLP-03 | SL | 110 | 6P | 1-40-P-10 |
| 84 | 17.0 | 70.0 | No | 1 1/2-GVP-01 | GV | 10 | 8P | 1 1/2-32-P-10 |
| 85 | 21.2 | 87.0 | No | 1 1/2-GVP-02 | GV | 13 | 8P | 1 1/2-32-P-10 |
| 86 | 22.2 | — | No | 1 1/2-GSP-01 | GS | 14 | 8P | 1 1/2-32-P-10 |
| 87 | 24.8 | 102.0 | No | 1 1/2-GVP-03 | GV | 18 | 8P | 1 1/2-32-P-10 |
| 88 | 28.5 | — | No | 1 1/2-GSP-02 | GS | 20 | 8P | 1 1/2-32-P-10 |
| 89 | 35.0 | — | No | 1 1/2-GSP-03 | GS | 24 | 8P | 1 1/2-32-P-10 |
| 94 | 41.5 | 170.0 | No | 2-GVP-01 | GV | 20 | 9P | 2-30-P-10 |
| 95 | 58.0 | 240.0 | No | 2-GSP-01 | GS | 25 | 9P | 2-30-P-10 |
| 96 | 65.0 | 270.0 | No | 2-GSP-02 | GS | 30 | 9P | 2-30-P-10 |
| 97 | 85.0 | 350.0 | No | 2-SLP-00 | SL | 40 | 9P | 2-30-P-10 |
| 98 | 100.0 | — | No | 2-SLP-01 | SL | 50 | 9P | 2-30-P-10 |
| 99 | 132.0 | — | No | 2-SLP-02 | SL | 60 | 9P | 2-30-P-10 |

* 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 | 9 | 1 | | | | * | | | |
|---|---|---|--|--|--|---|--|--|--|

| Meter Series | Fitting Material | Float Material | O-Ring Material | Order Number | Connection | Alarm | Scale |
|--------------|--|------------------------------------|--|--------------------|--|---------------------------|---|
| | 316 Stainless steel - 2 PVC (not for air) - 3 | 316L SS - 2 Hastelloy 276-C - 4 | EPR - 1 Buna-N - 2 Viton® - 3 Kalrez® - 4 | See Specifications | Vertical - V Horizontal - H (PVC fittings vertical only) | No Alarm - 0 Alarm - A | Water GPM - W Air SCFM - A Non Standard - N |

* Only use this 3rd box with order numbers 610 thru 613.
Otherwise leave blank.