

## Model Number Chart

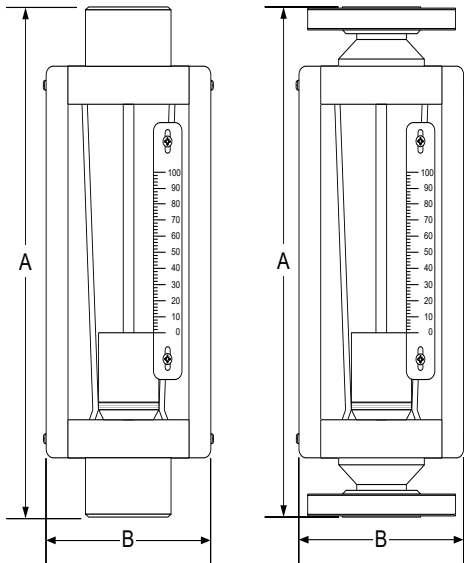
See Example Below



*Low-Cost  
High-Accuracy  
Glass Tube  
Rotameter*

<b>748</b>	<b>Base Model Number</b>	
	<b>Code</b>	<b>Fitting Type and Material</b>
	1	Vertical Female NPT – 316L SS
	2	Horizontal Female NPT – 316L SS
	3	150# Vertical Flange – 316L SS
	4	300# Vertical Flange – 316L SS
	5	150# Horizontal Flange – 316L SS
	6	300# Horizontal Flange – 316L SS
	7	Vertical Female NPT – PVC (not for air service)
	<b>Code</b>	<b>Float Material</b>
	2	316L SS
	4	Hastelloy C-276
	<b>Code</b>	<b>O-Ring Material</b>
	1	EPR
	2	Buna-N
	3	Viton®
	4	Kalrez®
	<b>Code</b>	<b>Range Code from Table on Page 2</b>
	<b>Code</b>	<b>Alarm Option</b>
	0	Without Alarm
	1	With Alarm

748    1    2    3    84W    0    ◀ Typical Model Number



## Description / Materials

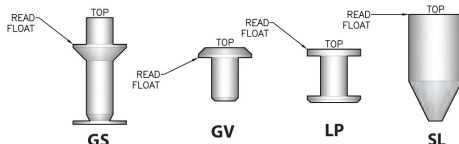
Metering Tube	Borosilicate Glass
Internal Components	316L SS Optional : Hastelloy® C-276
Fitting Material	316L SS Optional : PVC (vertical connections only)
Inlet / Outlet Fittings	FNPT or Flange, vertical or horizontal
O-Ring	Standard: Viton® Optional : EPR, Buna-N, Kalrez®
Case and Covers	304 SS case Polycarbonate shield

## Performance

Capacities	Water 0.22 to 132 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	316L SS Fittings    Gases 200°F (93°C) PVC Fittings        Liquids 110°F (43°C)
Max Pressure	316L SS fittings    250 psig    size 3&4 316L SS fittings    250 psig    size 5&6 316L SS fittings    150 psig    size 8&9 PVC fittings (liquid only) 150 psig    size 3 4 5 & 6 PVC fittings (liquid only) 125 psig    size 8&9
Ambient Temperature	33°F to 125°F (1°C to 52°C)

## Float

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



## Options

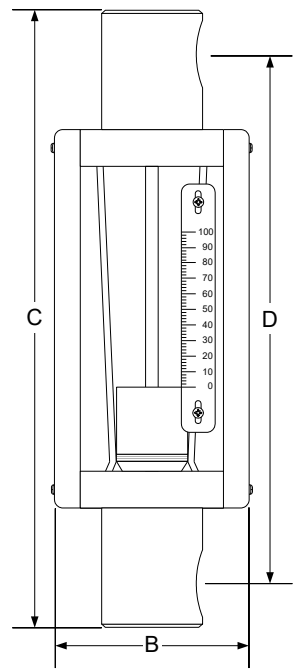
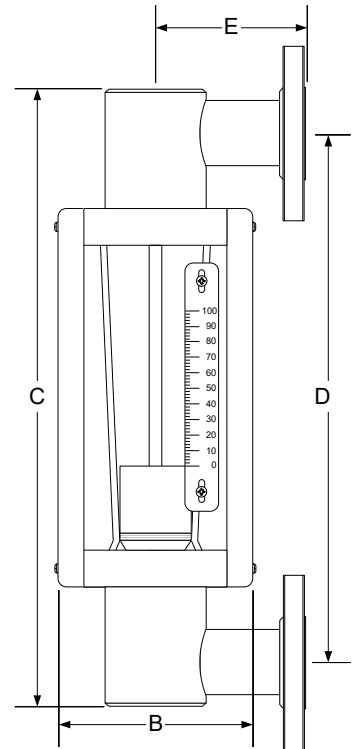
Alarm	Latching Reed Switch
Certified Calibrations	Conform to ISA RP 16.6
Scales	Any volumetric unit

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**Flow Ranges and Dimensions**

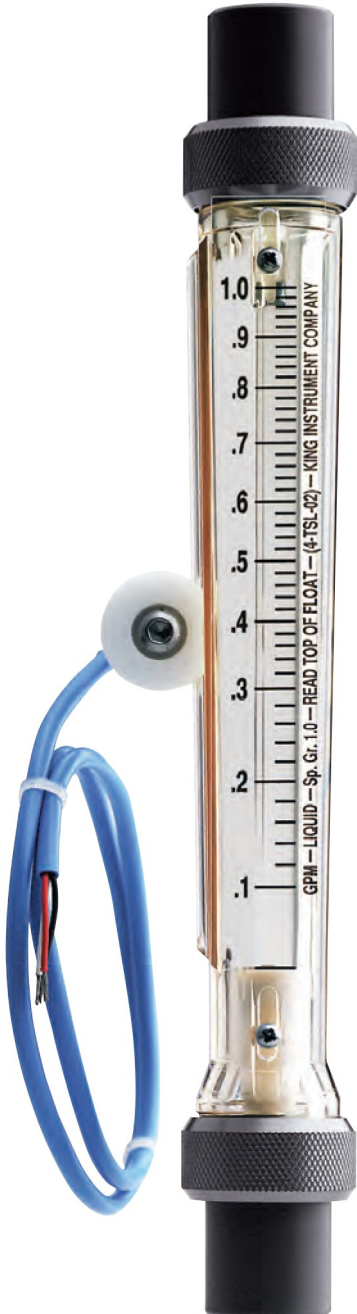
Range Code	Water USGPM	Range Code	Air (STP) SCFM	Tube <sup>1</sup> Size	Connection <sup>2</sup> Size
31W	0.22	31A	0.9	3G	¾" FNPT (H & V) or ½" Flanged (H & V) 150# or 300#
32W	0.315	32A	1.4		
33W	0.64	33A	2.7		
41W	0.77	41A	3.4	4G	¾" FNPT (H & V) or ½" Flanged (H & V) 150# or 300#
42W	1.02	42A	4.4		
43W	1.20	43A	5.0		
44W	1.44	44A	6.1		
45W	1.92	45A	8.5		
46W	2.26	46A	10.2		
51W	1.1	51A	4.5	5G	¾" FNPT (H & V) or 1" Flanged (H & V) 150# or 300#
52W	2.4	52A	10.0		
53W	3.0	53A	12.0		
54W	3.3	54A	13.2		
55W	4.0	55A	16.4		
56W	5.2	56A	22.0		
61W	6.9	-	-	6G	¾" FNPT (H & V) or 1" Flanged (H & V) 150# or 300#
62W	9.8	-	-		
63W	12.6	-	-		
64W	6.7	64A	27.0		
65W	7.4	65A	30.0		
66W	8.5	66A	35.0		
67W	10.4	67A	42.5		
68W	11.6	68A	46.5		
69W	12.0	69A	50.0		
610W	15.6	610A	63.0		
611W	21.6	611A	100.0		
612W	27.5	-	-		
613W	34.5	-	-		
84W	17.0	84A	70.0	8P	1½" FNPT (H & V) or 1½" Flanged (H & V) 150# or 300#
85W	21.2	85A	87.0		
86W	22.2	-	-		
87W	24.8	87A	102.0		
88W	28.5	-	-		
89W	35.0	-	-		
94W	41.5	94A	170.0	9P	1½" FNPT (H & V) or 1½" Flanged (H & V) 150# or 300#
95W	58.0	95A	240.0		
96W	65.0	96A	270.0		
97W	85.0	97A	350.0		
98W	100.0	-	-		
99W	132.0	-	-		



**Dimensions**

	A	B	C	D	E
Size 3, 4	19.69	4.22	19.13	17.42	3.56
Size 5, 6					4.0
Size 8, 9		5.90			23.26

**Latching Reed Switch alarm available for 7310, 7330, 7470, 7480, 7610, 7910 Series**



A latching reed switch is available for 7310, 7330, 7470, 7480, 7610, 7910 Series flowmeters. Operating temperature range is -40°C to 125°C.

The switch assembly is mounted on the side of the metering tube by a dovetail or guide rod. The switch can be positioned to trip at any point on the scale.

The switch is a reed type and uses a biasing magnet to give it the latching feature. The float contains hermetically sealed magnet(s), so when the float comes in close proximity to the switch it closes and remains closed (latched) when the float moves past the switch. When the flow returns to normal and the float moves below the switch it resets itself. Multiple switches can be used.

**Electrical Specifications for Latching Reed Switch**

Switch Type	SPDT, Latching
Max Contact Voltage	100 VDC
Max Contact Current	0.2 A DC
Max Contact Power	4 Watts DC
Breakdown Voltage	200 VDC
Initial Contact Resistance	0.15 OHMS
Standard Pull-In Range	15 - 40 ampere turns
Intrinsically Safe Wiring	With switch Isolator 3 conductor, 22 Awg, 2' long 1) White, N.O. switch output 1 2) Red, common 3) Black, N.C. switch output 2

**Switch Isolator Option**

Latching reed switches can be used as stand alone devices, or may be connected to a switch isolator for intrinsically safe applications. The purpose of the switch isolator is to supply electrical signals between safe and hazardous areas in either direction while limiting the amount of energy that can be transferred even under fault conditions. Switch isolators are available with 220 VAC, 110 VAC or 24 VD supply voltage requirements, contain single pole double throw (SPDT) relays, and are DIN rail mountable. See switch isolator specifications for electrical connections and further details.

*7330 with Latching Reed Switch*