Glass Tube Rotameters 7910 Series

Model Number Chart See Example Below

791	Base Model Number - Stainless Steel Frame - 10" Scale		
	Code	**Fitting Material**	
	2	316 Stainless Steel - vertical and horizontal connections (dual ports)	
	3	PVC (not for air service) - vertical connections only	
	Code	**Float Material**	
	2	316 Stainless Steel	
	4	Hastelloy C-276	
	Code	**O-Ring Material**	
	1	EPR	
	2	Buna-N	
	3	Viton®	
	4	Kalrez®	
	Code	**Range Code from Tables on Page 2**	
	Code	**Connection Configuration**	
	V	Vertical	
	H	Horizontal	
	Code	**Optional Alarm**	
	0	No Alarm	
	A	Alarm	

791 2 2 3 61W V 0 ◄ Typical Model Number

Stainless Steel Frame Glass Tube Rotameter With 10" Scale

Description / Materials

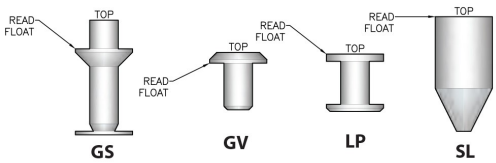
Metering Tube	Borosilicate Glass
Internal Components	Standard : 316L SS Optional : Hastelloy® C-276
Fitting Material	Standard : 316L SS Optional : PVC (vertical connections only)
Inlet / Outlet Fittings	NPT or flange, vertical or horizonal 360° fully rotatable
O-Ring	Standard : Viton® EPR, Buna-N, Kalrez®
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 Temp	316L SS fittings PVC fittings	200°F (93°C) 115°F (46°C)	
Max Pressure	316L SS fittings 316L SS fittings 316L SS fittings 316L SS fittings PVC fittings PVC fittings	300 psig 250 psig 150 psig 125 psig 150 psig 125 psig	size 3&4 size 5&6 size 8 size 9 size 3,4,5,6 & 8 size 9
Ambient Temp	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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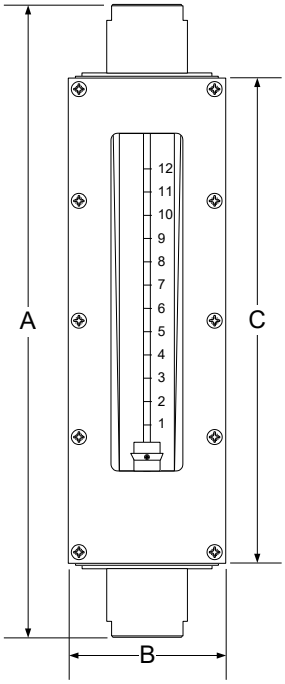
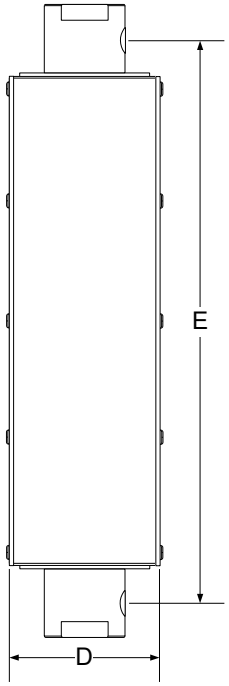
Flow Ranges and Dimensions

Range Code	Water USGPM	Range Code	Air (STP) SCFM	Alarm Opt	Tube Size	Connection Size	Dimensions (inches) A	B	C	D	E
31W	0.22	31A	0.9	No	3G	1/2" FNPT (H & V)	19.85	3.125	14.45	3.125	17.50
32W	0.315	32A	1.4	No							
33W	0.64	33A	2.7	No							
41W	0.77	41A	3.4	No	4G	1/2" FNPT (H & V)	19.85	3.125	14.45	3.125	17.50
42W	1.02	42A	4.4	No							
43W	1.20	43A	5.0	Yes							
44W	1.44	44A	6.1	No							
45W	1.92	45A	8.5	Yes							
46W	2.26	46A	10.2	Yes							
51W	1.1	51A	4.5	No	5G	1" FNPT (H & V)	20.75	4.625	14.46	4.50	17.45
52W	2.4	52A	10.0	Yes							
53W	3.0	53A	12.0	Yes							
54W	3.3	54A	13.2	Yes							
55W	4.0	55A	16.4	Yes							
56W	5.2	56A	22.0	Yes							
61W	6.9	-	-	Yes	6G	1" FNPT (H & V)	20.75	4.625	14.46	4.50	17.45
62W	9.8	-	-	No							
63W	12.6	-	-	Yes							
64W	6.7	64A	27.0	No	6P						
65W	7.4	65A	30.0	No							
66W	8.5	66A	35.0	No							
67W	10.4	67A	42.5	No							
68W	11.6	68A	46.5	No							
69W	12.0	69A	50.0	No							
610W	15.6	610A	63.0	No							
611W	21.6	611A	100.0	Yes							
612W	27.5	-	-	Yes							
613W	34.5	-	-	Yes							
84W	17.0	84A	70.0	No	8P	1½" FNPT (H) and 2" FNPT (V)	25.65	6.25	16.25	6.125	20.50
85W	21.2	85A	87.0	No							
86W	22.2	-	-	No							
87W	24.8	87A	102.0	No							
88W	28.5	-	-	No							
89W	35.0	-	-	No							
94W	41.5	94A	170.0	No	9P	1½" FNPT (H) and 2" FNPT (V)	25.65	6.25	16.25	6.125	20.50
95W	58.0	95A	240.0	No							
96W	65.0	96A	270.0	No							
97W	85.0	97A	350.0	No							
98W	100.0	-	-	No							
99W	132.0	-	-	No							





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

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

7330 with Latching Reed Switch

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 biassing 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.

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