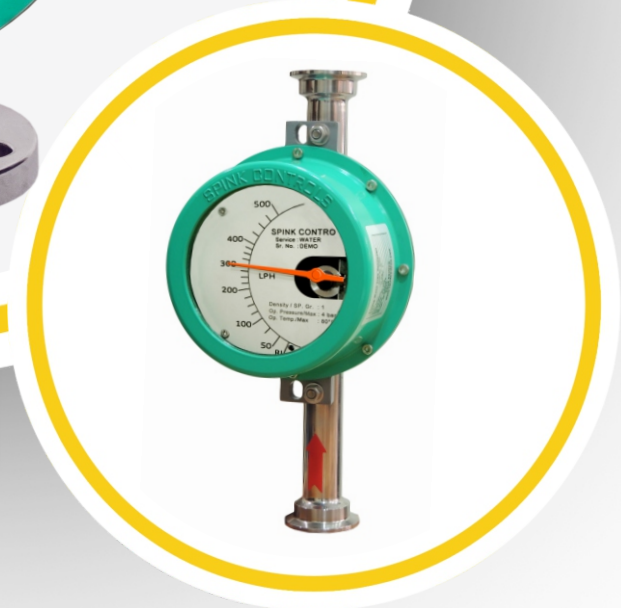




The Need For Every  
Process Industry



# METAL TUBE ROTAMETER

**MODEL: SC / R - 200/A**

**FLOW**

# METAL TUBE ROTAMETER

**MODEL: SC / R - 200/A**



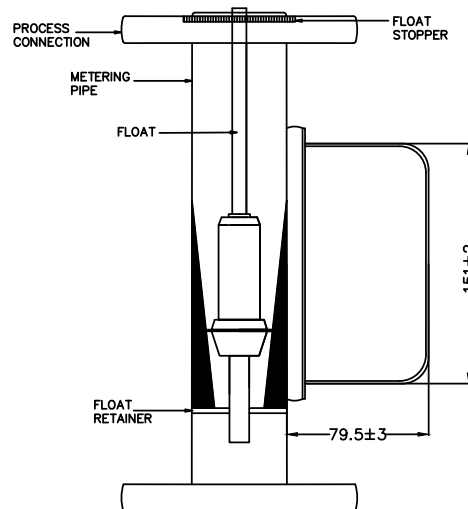
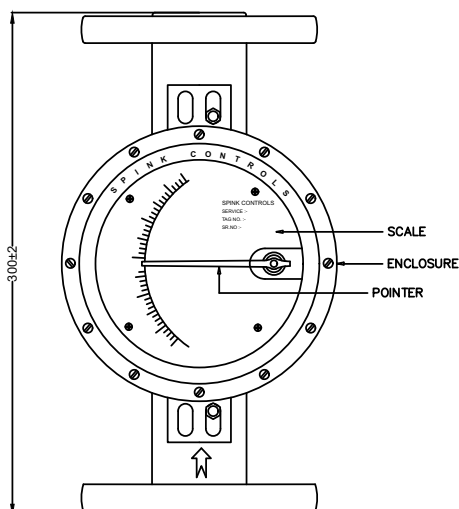
## PRINCIPLE OF OPERATION

- The Variable Area Flowmeter measures the flow of liquids and gases using the Variable Area Principle. As fluid flows through the tapered tube, it lifts a float the height of which corresponds to the flow rate. This float movement is transferred via magnetic coupling to an external pointer, which moves over a calibrated scale to indicate the flow. The design ensures safe, accurate measurement without direct contact between the fluid and the indicator.
- Can be used for extreme process conditions i.e. high / low temperatures, high pressures, aggressive services.
- Light weight & handy, designed for durability and accuracy.



## ENGINEERING SPECIFICATION

Rangeability	: 10 : 1
Accuracy	: +/-2% of Full Flow for Analog Indication
Repeatability	: 0.5% of Full Flow
Pressure Rating	: 80 Kg/cm <sup>2</sup> , 250 Bar (Optional)
Allowable Fluid Temp.	: -20° To 250° C for Analog Indication
Connection	: Flanged, Threaded, Sanitary Fitting
Material Of Construction	: SS316, SS316L, SS304 and other on request
Indicator Box	: Die-cast Aluminum IP-68
Accessories	: • Magnetic Filter, if the medium contains particles which can be magnetically influenced • Float damping, for Gas application where the Pressure is fluctuating



## FLOW RANGE AND PRESSURE LOSS

Line size NB		Flow Segment	Water (LPH)		Air (m <sup>3</sup> /hr) 0° C & 1 atm	Pressure Loss mm of WC
Flange connection	Tri clover TC		Material SS 304/316/316L	Material PTFE		
20 NB (3/4")	1" (OD : 50.5 mm)	1A	5 – 50	3.3 – 33	0.15 – 1.5	650
		1B	10 – 100	6.5 – 65	0.3 – 3	
		1C	20 – 200	13 – 130	0.6 – 6	
		1D	30 – 300	20 – 200	0.9 – 9	
		1E	40 – 400	26 – 260	1.2 – 12	
		1F	50 – 500	32.5 – 325	1.5 – 15	
		1G	60 – 600	40 – 400	1.8 – 18	
25 mm 1"	2" (OD : 64.0 mm)	2A	80 – 800	52 – 520	2.4 – 24	790
		2B	100 – 1000	65 – 650	3 – 30	950
		2C	120 – 1200	78 – 780	3.6 – 36	
		2D	160 – 1600	104 – 1040	4.8 – 48	1050
		2E	200 – 2000	130 – 1300	6 – 60	
		2F	250 – 2500	143 – 1430	7.5 – 75	
		2G	300 – 3000	195 – 1950	9 – 90	
2H	350 – 3500	227 – 2275	10.5 – 105			
40 NB (1 1/2")	2 1/2" (OD : 77.5 mm)	2I	400 – 4000	260 – 2600	12 – 120	1100
		3A	500 – 5000	325 – 3250	15 – 150	
		3B	600 – 6000	390 – 3900	18 – 180	
50 NB (2")	3" (OD : 91 mm)	3C	750 – 7500	490 – 4900	22.5 – 225	980
		3D	1000 - 10000	650 – 6500	30 – 300	
80 NB (3")	4" (OD : 119 mm)	4A	1500 – 15000	900 – 9000	45 – 450	1000
		4B	2000 – 20000	1300 – 13000	60 – 600	
		5A	2500 – 25000	1600 – 16000	75 – 750	
100 NB (4")	6" (OD : 166.1 mm)	5B	3000 – 30000	1900 – 19000	90 – 900	1200
		5C	4000 – 40000	2600 – 26000	120 – 1200	
		6A	5000 – 50000	3200 – 32000	150 – 1500	
125 NB (5")	NO TC	6B	6000 – 60000	3900 – 39000	180 – 1800	1200
		6C	8000 – 80000	5200 – 52000	240 – 2400	
150 NB (6")	NO TC	7A	10000 – 100000	6500 – 65000	300 – 3000	1200
		7B	12000 – 120000	7800 – 78000	360 – 3600	
		8A	15000 – 150000	9700 – 97000	450 – 4500	

## MODEL SELECTION

Suffix Code	1	2	3	4	5	6	7	Description
Model R-200/A								Mechanical Indication
Flow Range	XX							Refer the Flow Range Chart
Fluid	L							Liquid
	G							Gas
Material Wetted Parts	S4							Body & Float SS 304
	S6							Body & Float SS 316
	ST							Body & Float PTFE Lined
	SL							Body & Float SS 316L
	XX							Other on Request
Connection	F							Flanged ANSI /BS/DIN
	S							Screwed NPT/BSP (M/F)
	T							Tri-Clamp
Flange to flange	1							300 mm
	2							250 mm
	3							400 mm
	4							500 mm
Enclosure					WP			Die-cast Aluminum IP 68
Accessories						J		Steam Jacketing



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