



The Need For Every
Process Industry



**GLASS TUBE
ROTAMETER**

MODEL: SC / R - 100

FLOW

GLASS TUBE ROTAMETER

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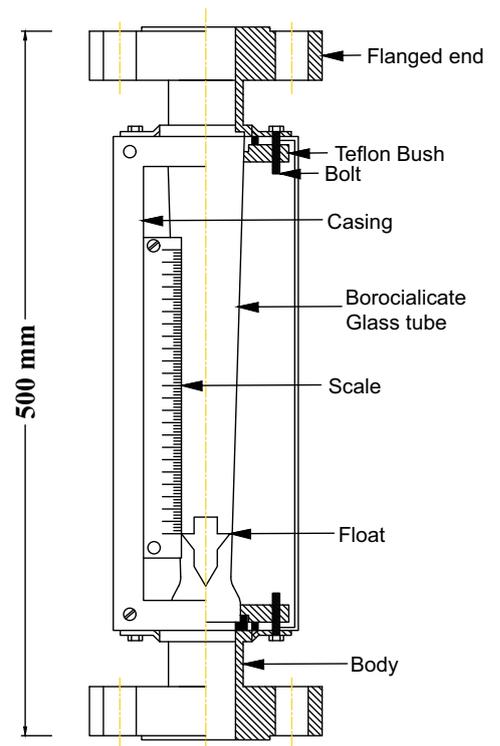
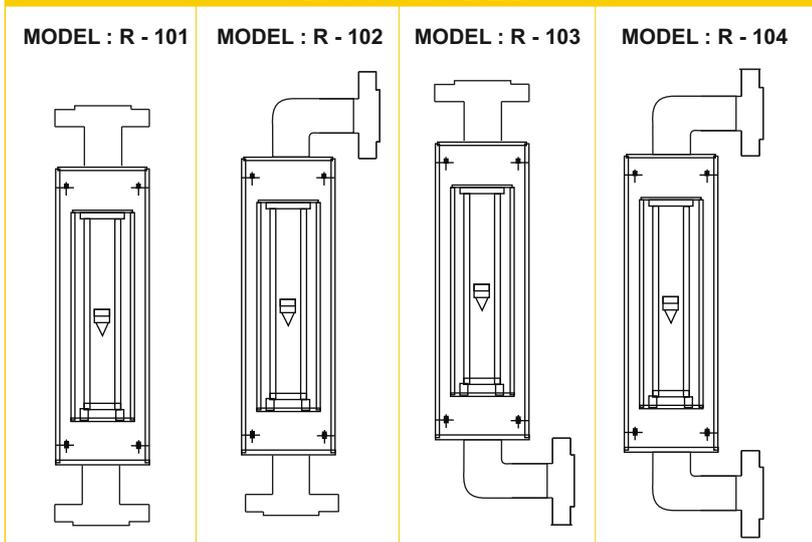
Spink Controls offer an Industrial flowmeter used to measure flowrate of liquids and gases. It operated on the Variable Area Principle, where the fluid flow raises a float in taper tube increasing the area of passage of fluid. The greater the flow, the higher the float is raised. The height of float is raised by a combination of the buoyance of the liquid and velocity head of the fluid. With gases, the buoyancy is negligible, and float responds to the velocity head alone.

ENGINEERING SPECIFICATION

ACCURACY	: +/- 2 % OF FSR
REPEATABILITY	: +/- 0.5 % OF FSR
RANGEABILITY	: 10 : 1
TEMPERATURE RATING	: 150° C
PRESSURE RATING	: Up tp 10 Kg/cm ²
CASING	: M. S. POWDER COATED/SS316/ SS304
END CONNECTION	: FLANGED/SCREWED AS PER CUSTOMER SPECIFICATION

MATERIAL OF WETTED PART	: C S/ SS 304/ SS 316/ PP/ PVC/ TEFLON
METERING TUBE	: BOROSILICATE GLASS
FLOAT	: SS304/SS316 OR SUITABLE TO SERVICE
SCALE LENGTH	: 175 TO 220 mm
END TO END DISTANCE	: 500mm
FLOW DIRECTION	: FROM BOTTOM TO TOP
MOUNTING POSITION	: VERTICAL
ELASTOMERS	: NEOPRENE/SILICON/ VITON / PTFE

BASIC MODEL



FLOW CHART

Line Size	Pressure Raing (Kg/cm2)	Water at AMB. Temp in LPH	Glass Size	Line Size Code
15	15	10-100 20-200 30-300	GT/01 GT/02 GT/03	1A 1B 1C
20	10	40-400 60-600 80-800 100-1000 120-1200	GT/04 GT/05 GT/06 GT/07 GT/08	2A 2B 2C 2D 2E
25	10	150-1500 200-2000 250-2500 300-3000	GT/09 GT/10 GT/11 GT/12	3A 3B 3C 3D
40	7	350-3500 400-4000 500-5000 600-6000	GT/13 GT/14 GT/15 GT/16	4A 4B 4C 4D
50	7	800-8000 1000-10000	GT/17 GT/18	5A 5B
65	7	1500-15000	GT/19	6A
80	5	2000-20000	GT/20	7A

MODEL SELECTION

Suffix Code	1	2	3	4	5	6	7	8	9	10	11	12	13	Parameters
Model Code	SC/R-101													Inlet - Bottom , Outlet - Top
	SC/R-102													Inlet - Bottom , Outlet - Side
	SC/R-103													Inlet - Side , Outlet - Top
	SC/R-104													Inlet - Side , Outlet - Side
Line size	XX													Refer the flow chart
Fluid		L												Liquid
		G												Gas
Process Connection			F											Flanged
			TC											TC End
			S											Threaded end (BSP or NPT)
Process Connection Size				P1										1/2"
				P2										3/4"
				P3										1"
				P4										1.5"
				P5										2"
				P6										2.5"
				P7										3"
Body & Process connection MOC					M1									SS304
					M2									SS316
					M3									SS316L
					M4									Mild steel
					M5									Carbon steel
					M6									Cast Iron
					M7									Poly Propylene
Float						F1								SS304
						F2								SS316
						F3								PTFE
						F4								SS316L
						F5								Special on request
Lining Material						L1								PTFE
						L2								Without Lining
Casing Material							C1							MS duly Powder coated
							C2							Stainless Steel
							C3							SS316
Scale Material								S1						Aluminium Anodized
								S2						Stainless Steel
								S3						Acrylic
Gland Plate & Accessories									GP1					MS
									GP2					SS
									GPX					Other on request
Elastomer												E1		PTFE
												E2		Silicon
												E3		Neoprene
												E4		Viton
												E5		Nitrile
Optional													FS1	Flow switch (Proximity Single point)
													FS2	Flow switch (Proximity Double point)
													NV	Needle Valve
													XX	None



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