

The Need For Every
Process Industry

SPINK CONTROLS

®

An ISO 9001:2015 Certified Company



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 buoyancy of the liquid and velocity head of the fluid. With gases, the buoyancy is negligible, and float responds to the velocity head alone.

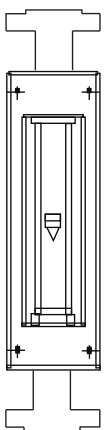
ENGINEERING SPECIFICATION

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

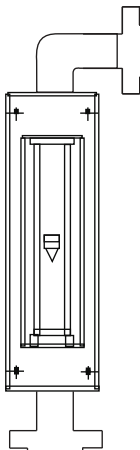
MATERIAL OF WETTED PART	: C S/ SS 304/ SS 316/ PP/ PVC/ TEFLON
METERING TUBE	: BOROSILICATE GLASS
FLOAT	: SS304/SS316 OR SUITABLE TO SERVICE
SCALE LENGTH	: 175 TO 220 mm
END TO END DISTANCE	: 500mm
FLOW DIRECTION	: FROM BOTTOM TO TOP
MOUNTING POSITION	: VERTICAL
ELASTOMERS	: NEOPRENE/SILICON/ VITON /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

BASIC MODEL

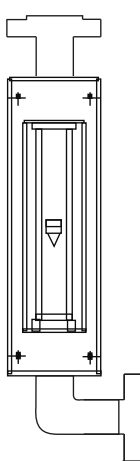
MODEL : R - 101



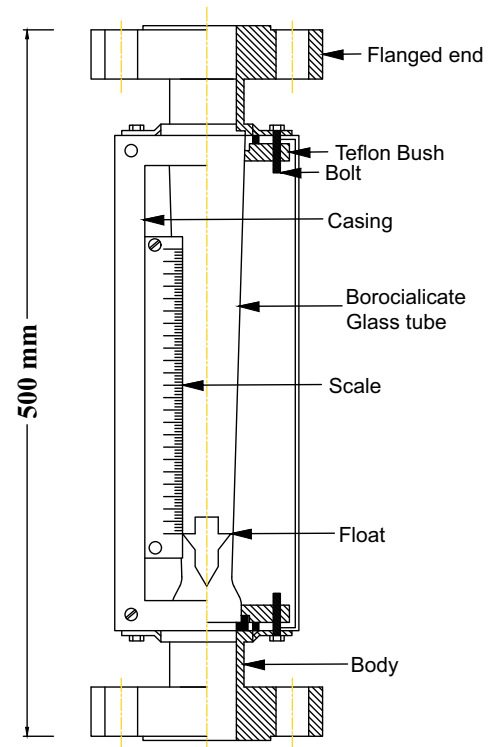
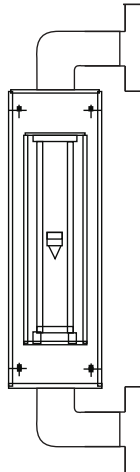
MODEL : R - 102



MODEL : R - 103



MODEL : R - 104



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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