The Need For Every
Process Industry

SPINK CONTROLS ®

An ISO 9001:2015 Certified Company

ORI FLOW METER (BY- PASS ROTAMETER)

MODEL: SC / R - 700

FLOW

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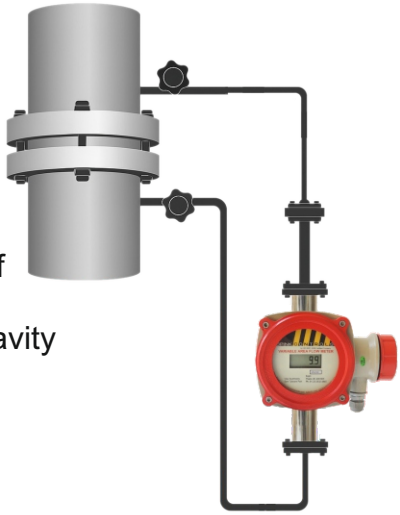
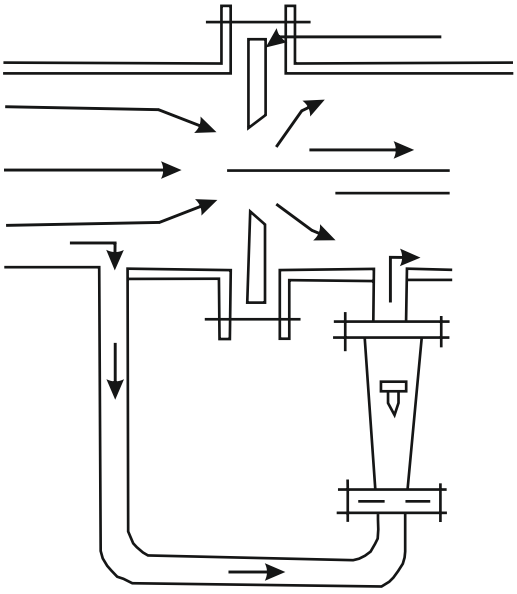
The Ori-flowmeter measures the flow by inserting an Orifice Plate in the pipe line by generating the differential pressure across the Orifice Plate, extracting this differential pressure by suitable method.

Differential pressure (P_1-P_2) of main orifice & the flow (Q) have shown in Equation given below. The flow is proportional to square root of the differential pressure.

$$Q = CF\sqrt{\frac{2g\ (P_1-P_2)}{\delta}}$$

Q	:	Volumetric flow
C	:	Flow co-efficient
F	:	Cross sectional area of orifice hole
g	:	Acceleration due to gravity
P_1-P_2	:	Differential pressure
δ	:	Density of fluid

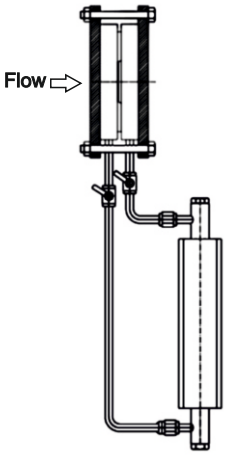




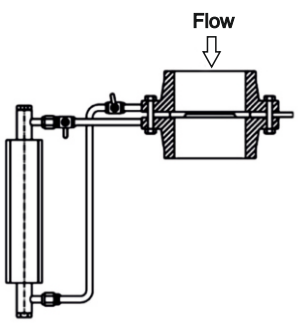
ENGINEERING SPECIFICATION

ACCURACY	:	± 2% of FSR.
REPEATABILITY	:	± 0.5% of FSR.
RANGEABILITY	:	8:1
MAX TEMPERATURE	:	150°C.
MAX PRESSURE	:	25 kg/cm²

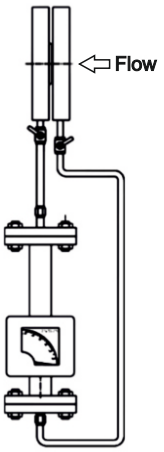
Left to Right



Top to Bottom



Right to Left



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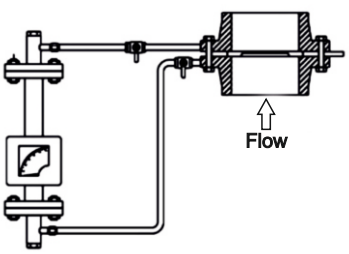

FLOW CHART

Main Pipe Inch		Main pipe maximum flow of water m³/h(20°C) ΔP			Code
Inch	Millimeter	1500mm WC	2500 mm WC	5000mm WC	
2	50	15	20	28	1A
2½"	65	22	28	40	1B
3	80	30	40	44	1C
4	100	55	70	100	1D
5	125	90	110	160	1E
6	150	130	150	220	1F
8	200	220	280	380	1G
10	250	350	450	600	1H
12	300	500	650	850	1I
14	350	600	800	1050	1J
16	400	800	1000	1400	1K

MODEL CODING

Suffix Code	1	2	3	4	5	6	7	8	9	10	11	12	13	Parameters
Model	SC/R-700													Bottom to Top
	SC/R-701													Left to Right
	SC/R-702													Right To Left
	SC/R-703													Top To Bottom
Line Code		XX												Flow chart
Fluid			L											Liquid
			G											Gas
Application				R-101										Glass Tube Rotameter
				R-200/A										Analog Metal Tube Rotameter
				R-300/D										Digital Metal Tube Rotameter
Rotameter line size					1									15 NB
					2									25 NB
Tapping						CT								Corner Tapping
						DT								D & D/2 Tapping
Orifice Plate							OP1							SS316
							OPX							On request
Carrier Ring / Flange -MOC								CR1						SS316
								CR2						MS / CS
								CR3						PP/PVC
								CR4						HDP
Casing Material									C1					MS duly Powder coated
									C2					SS 304
									C3					SS 316
									C4					Die Cast Aluminium
FOR CORNER TAPPING														
By Pass Piping-MOC										BP1				SS316
										BP2				Mild Steel
										BP3				PU tubing
Indicating Rotameter-MOC											IN1			SS304
											IN2			SS316
											IN3			Mild Steel
Isolation Valve-MOC												IV1		SS304
												IV2		SS316
												IV3		Mild Steel
Elastomer-MOC													E1	CAF
													E2	PTFE
													E3	Spr. Wnd SS 304 CAF filled
													E4	Spr. Wnd SS 316 CAF filled

SPINK CONTROLS®

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Plant 1

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Phone : +91 9594991196
Email : rupa.thakkar@spinkcontrols.com

Plant 2

PLOT No.: MS 114/115, AMBERNATH INDUSTRIAL AREA, CHIKHLOLI MIDC, AMBERNATH (W)
THANE 421501

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Our Channel Partner

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ISO 9001 : 2008

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Ministry of MSME, Govt. of India

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