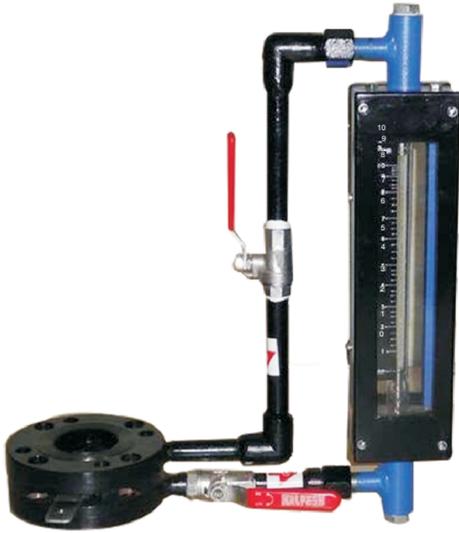


ORI FLOW METER (By- Pass Rotameter)

SERIES : SC / R - 700



The ori-flow meter measures flow by inserting an orifice at part of the piping, generating differential pressure before and behind the orifice by means of the flow, and extracting this differential pressure by a suitable method.

Differential pressure (p1-p2) of main orifice & the flow Q have shown in Equation given below. The flow is proportional to square root of the differential pressure.

$$Q = CF \sqrt{2g \frac{(P1-P2)}{\rho}}$$

- Q : Volumetric flow
- C : Flow co-efficient
- F : Cross sectional area of orifice hole
- g : Acceleration of gravity
- P1-P2 : Differential pressure
- ρ : Specific weight of fluid

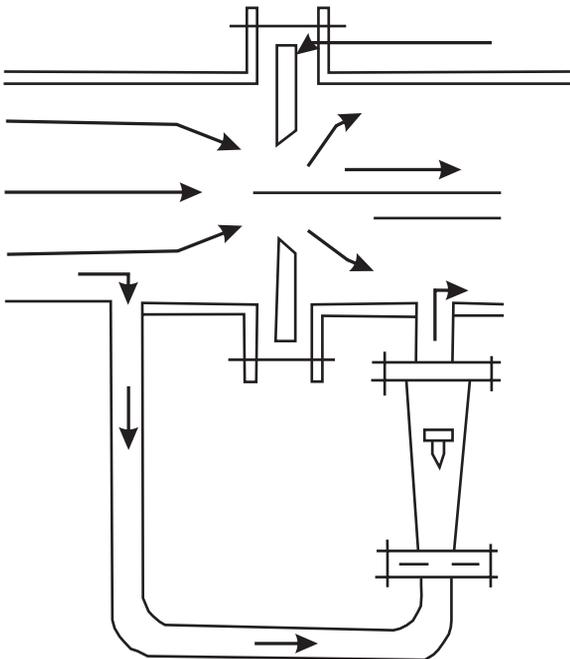


TECHNICAL SPECIFICATION

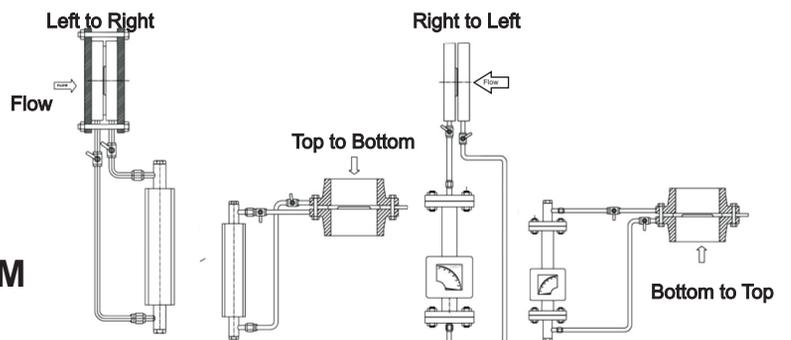
ACCURACY	: +/- 2% of FSR.
RANGEABILITY	: 8:1
TEMPERATURE RATING	: 150°C.
PRESSURE RATING	: 25 kg/cm ²
MOC	
ORIFICE PLATE	: SS 316 / HASTELLOY C
CARRIER RING	: SS 316 / MS / CS.
FLANGED	: ASTM - A - 1 & 2 / A-105
FLANGED STD	: ANSI B. 16.5
BY PASS PIPING	: SS 316 / MS / CS.
INDICATING ROTAMETER	: SS 316 / MS / CS.

Capacity Guide Maximum m³/h of Water

Main Pipe Size	Main Pipe Maximum Flow m/h (20°C Water)			
	Differential Pressure			
	Inch	Millimeter	1500mmWC	2500 mmWc
2	50	15	20	28
2 ½	65	22	28	40
3	80	30	40	44
4	100	55	70	100
5	125	90	110	160
6	150	130	150	220
8	200	220	280	380
10	250	350	450	600
12	300	500	650	850
14	350	600	800	1050
16	400	800	1000	1400



LINE DIAGRAM



GEM Seller ID : 8C0F180000397396

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