## BOMBAY INSTRUMENT MFG. CO.

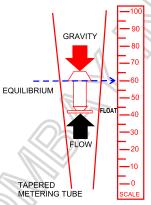
AN ISO 9001:2015 CERTIFIED COMPANY

# DIGITAL VARIABLE AREA FLOWMETER (ROTAMETER)



#### ORIGIN OF METAL TUBE ROTAMETER

It operates on the principle of variable area; the fluid in the metal tube raised a float in the taper tube increasing the area of passage of fluid.



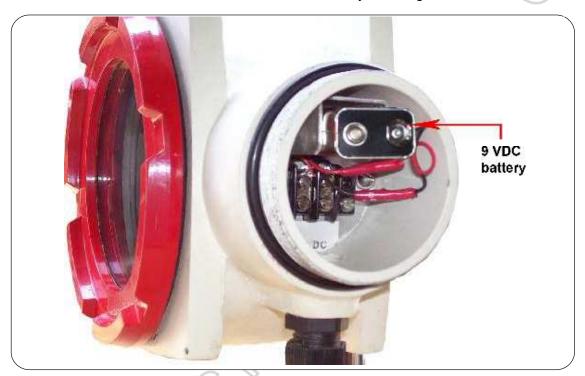
The float moves up in proportion to the rate of flow of fluid and get stabilized when the weight of the float is balanced by the upward hydraulic force. By a magnetic coupling the inner float movement through a series of linkages and counter weight. The tube and the float combination determine the flowrate.

DIGITAL METER: The inner float magnetic field is detected by the high sensitive magnetic field detection sensor, enable us to show the digital readout.

ERING TUBE As such this flowmeter does not require any electrical connection, since it operates on battery. It has an inbuilt two wire transmitter provide 24 VDC and take 4 – 20 mA signal.

## BENEFITS OF BOMBAY INSTRUMENT MFG.CO. DIGITAL VARIABLE AREA FLOW METERS

- Local indication without the need for auxiliary power.
- Minimum pressure loss.
- Easy to read.
- ➤ Accurate measurement even at higher flow(150 m3/hr).
- ➤ Suitable for low flow (8LPH)
- ➤ Default inbuilt transmitter of 4 20 mA (Loop powered).
- No movement assembly reducing the maintenance.



### TECHNICAL SPECIFICATION

Accuracy : +/- 1.5% of FSR. Rangeability : 10:1

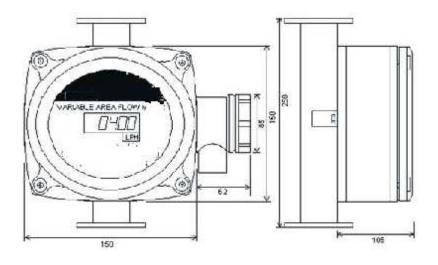
Repeatability : +/- 0.25% of FSR
Temperature Rating : -50 to 120 °C.
Pressure Rating : 80 kg/cm2
Flow Direction : Bottom to Top
End connection : Flanged to suit

Customer's requirement.
Wetted Part To suitable specific

Mounting position : Vertical.
Indication : Digital flow rate
Transmission : 2 wire loop powered
Enclosure : Flameproof / Weatherproof.

Enclosure	: Flameproof / W
Power supply	9 VDC Battery
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MAXIM	UM FLOV	AND PR	ESSURE LOSS
LINE SIZE NB	20° C WATER FLOW m3/hr		APPROX PRESSURE LOSS MM WC
15	0.2 - 1.2	6 - 35	200 - 225
20	0.4 - 2.0	8 - 60	220 - 230
25	1 - 5	30 - 150	200 - 270
40	2.5 - 10	70 - 300	200 - 250
50	3.5 - 17	100 - 500	225 - 280
85	6 - 30	200 - 900	225 - 240
80	10 - 45	300 - 1200	225 - 280
100	20 - 100	600 - 3000	350 - 850
125	30 - 120	900 - 4000	300 - 850
150	30 - 150	900 - 4500	350 - 950



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MODEL CODE R 300/D				9	
MODEL CODE R 300/D LOCAL INDICATOR LCD ½" DISPLAY AND BATTERY OPERATED	0001			>	
	0001				
LOCAL INDICATOR AND TOTALISER (16X2 LINE) WITH LOOP POWERED	0002				
LOCAL INDICATOR WITH LED 1/2" DISPLAY 230VAC INPUT AND 4-20 mA OUTPUT	0003	,√E		>	
LOCAL INDICATOR WITH 1" LED DISPLAY 230VAC INPUT AND 4-20 mA OUTPUT.	0004				
LOCAL INDICATOR WITH TOTALISER AND BATCH CONTROLLER (16X4 LINE) LCD DISPLAY, 230VAC INPUT.	0005				
LOCAL INDICATOR WITH TOTALISER AND DENSITY CORRECTION FACILITY	0006	>			
LOCAL INDICATOR WITH HIGH/LOW SWITCH	0007				
MATERIAL OF CONSTRUCTION (WETTED PARTS)					
SS 304		304			
SS 304 WITH TEFLONLINED		316			
SS 316		PP			
SS 316 WITH TEFLONILINED		PVC			
PP		304PTFE			
PVC		316PTFE		,	
INDICATOR HOUSING: DIE-CAST ALUMINUM			AL		
INDICATOR HOUSING: SS 304			SP		
MATERIAL FOR FLOAT					
SS 316				1	
TEFLON				2	
PVC				3	
ADDITIONAL ACCESSORIE				<u> </u>	
JACKETING				J	
				İ	N
REMOTE TOTALISER 230 VAC					
REMOTE TOTALISER 230 VAC REMOTE TOTALISER AND CONTROLLER 110 VAC				l IN	IC

## Manufactured & Marketed By:

M/S. Bombay Instrument Mfg. Co.
SHOP NO. 5, 50/86, JITEKAR WADI
OPP. VINAY HOTEL 88, THAKURDWAR ROAD MUMBAI – 400 002 - INDIA
Tel.: 91 (022) 2389 1073 / 2389 10 7 5
Fax: 91 (022) 2389 1075
Web.: www.bombayinstrument.in
Email: bimeo@mml.net.in, bimcoindia@gmail.com