

### INTRODUCTION

FITZER metal tube rotameter are designed to measure flow rate of liquids and gases under critical condition for high pressure, Temperature And Opaque Liquid. It Consists of a encapsulated taper float with range orifice inside the metal pipe and indicating assembly externally fitted to the rotameter pipe body. Inside float magnet coupled with pointers magnetic disc. When flow start, the float move uper side with properly rotating to the pointer link. Thus the movement of the float is accurately indicated in terms of flow rate.

### APPLICATION

In Process Of Chemical, Pharmaceuticals, Diary & Food Industry Petrochemical, Fertilizer, Effluent Water Treatment Plant Required In Process & Engineering Industries.

### FEATURES

- 1) Compact & Long Terms Reliability.
- 2) Simple Mechanism & Thus Maintenance Free.
- 3) Rugged & Corrosive Environmental Construction.
- 4) Custom Built Construction, Range & Process Connection.
- 5) Individual Calibration For High Accuracy
- 6) Application For High Pressure, Temperature & Opaque Liquid
- 7) Easy To Clean – No Calibration Disturb .
- 8) Contact Switching Arrangement Adjustable Over Full Range.
- 9) 2 wire 4-20 mA linear Output ( HART / EX - Type )
- 10) With Weatherproof – Flameproof Enclosure For Switching or Transmitting Models.



MODEL-FITZER / MTR / 200



COMPACT : MODEL-FITZER / MTR / 100



INSTALLED ROTAMETERS IN PLANT

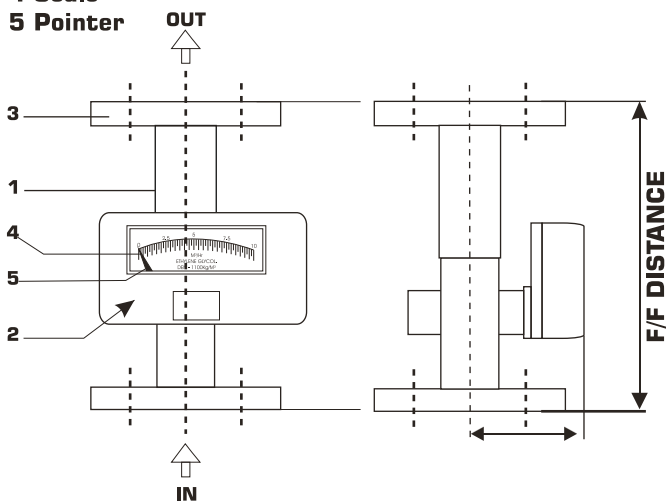
## FLOW RATE OF WATER & AIR WITH S.S. FLOAT

LINE SIZE	WATER AT AMB. TEMP. LPH	AIR AT AMB. TEMP. 760 ABS TOR M <sup>3</sup> /HR	PRESSURE DROP MM. WC.
15 NB OR 20 NB	20 - 200	0.6 - 6	1200 mm. wc.
	25 - 250	75 - 75	
	40 - 400	-	
	50 - 500	1.5 - 15	
	75 - 750	2.0 - 20	
25 NB	100 - 1000	3.0 - 30	1000 mm. wc
	150 - 1500	4.0 - 40	
	175 - 1750	5.0 - 50	
	200 - 2000	6.0 - 60	
	250 - 2500	7.5 - 75	
	300 - 3000	10 - 10	
40 NB	500 - 5000	15 - 150	1000 mm. wc
	600 - 6000	20 - 200	
50 NB	1000 - 10000	30 - 300	1000 mm. wc
	1500 - 15000	45 - 450	
80 NB	2000 - 20000	60 - 600	1200 mm. wc.
	2500 - 25000	75 - 750	
	3000 - 30000	100 - 1000	
100 NB	5000 - 50000	150 - 1500	1200 mm. wc.
	6000 - 60000	-	

- We can provide process connection size as per customer requirement with required flow range.
- We will provide range in LPH, USGPM, SCFM, M<sup>3</sup>/Hr., Kg/Hr. or any engineering scale as per Customer's requirement.

### MODEL NO. : FITZER / MTR / 200

- 1 Body (Pipe)
- 2 Casing (Encloser)
- 3 Flange (Process Connection)
- 4 Scale
- 5 Pointer



### ENCLOSURE :

Cast Aluminium Weather Proof / Flam Proof,  
IIA, IIB, Exd IIB T6 IP-65 PESO-CCOE Certified With  
MODEL : FITZER / MTR / FS - 200 & FITZER / MTR / AFT

## GENERAL SPECIFICATION

Indication Box	Cast Aluminium Weather Proof
Wetted Parts	S.S. 304, 316, 316L, PP, PTFE
Float	S.S. 304, 316, 316L, PP, COATED
Magnet	High Power Permanent
Float Travel	50mm / 80mm Aproximatly
Rangeability	10 : 1
Accuracy	± 2% Of Full Flow, Extra on request
Max. Pressure	50kg/cm <sup>2</sup> above on request
Max. Temp.	250°. C
Calibration	5 Point Calibration
Connection	Flanged, Threaded, Or Triclover Type
F/F Distance	250 / 350 mm. Std., Extra on request
Inlet-outlet	Bottom - Top or Rear

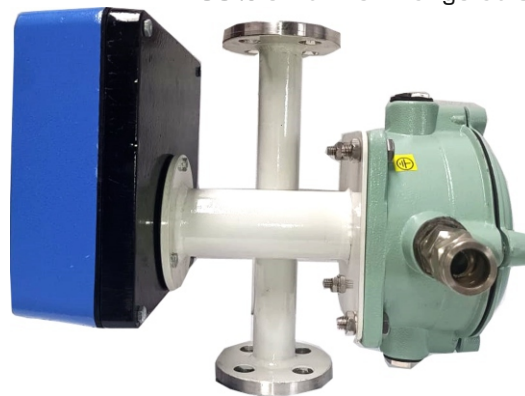
## OTHER MODELS

### Model - FITZER / MTR / FS / 200

Metal Tube Rotameter with Analogue Flow Contact switch is utilize to set minimum maximum require flow range Or set the flow-NO-Flow to detect failure in a pipe line flow and give control alarm.

#### CONTACT SWITCHING

Switch Capacity : 5 Amp, 230V AC / 24V DC  
Switch Set Point: Adjustable Minimum OR Maximum  
100% of full flow range at site



### 2) MODEL:FITZER / MTR / AFT

The Analog Transmitter Providing A Continuous  
4-20 mA Out Put Signal Proportional To Flow  
Rate



**FITZER**  
INSTRUMENTS  
COMPANY [INDIA]

#### Regd. Correspondence Address

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