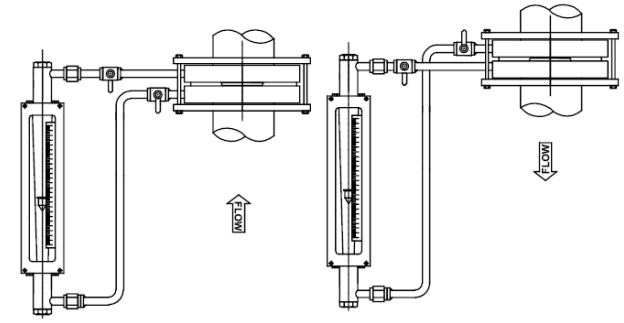
STANDARD RANGES FOR WATER AT 20°C

NB	Maximum Flowrate (M3/HR.)	NB	Maximum Flowrate (M3/HR.)
25	5	275	650
40	10	300	800
50	20	350	1000
80	36	400	1500
100	80	450	2000
125	125	500	2500
150	150	600	3000
200	320	700	4000
225	450	800	5000
250	550		Other Sizes on request

METER ASSEMBLY

Glass Tube Rotameter :	FSG-1
Metal Tube Rotameter :	FSD-100



Vertical Upward Flow (Fig-B)

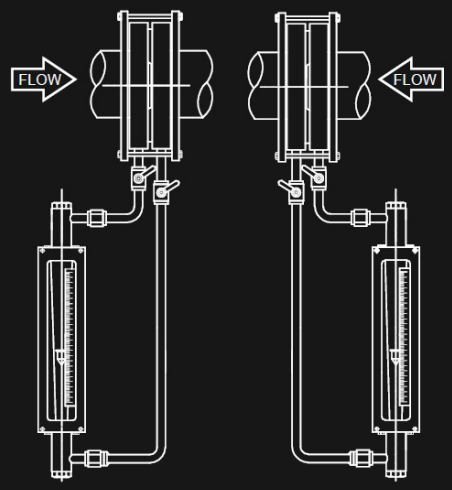
Vertical Downward Flow (Fig-C)

Bypass Rotameter Assembly Through Carrier Rings

BYPASS ROTAMETER

Flowstar Bypass Rotameter systems are designed for the accurate measurement of fluid rate of flow in pipelines 25 NB in diameter or larger design Standard ISO 5167 or BS/1042. They accomplished this by providing a bypass flow that is directly proportional to the main flow. Since Rotameter measure bypass flow, not static differential, flow ranges up to 10 to I are possible with thease instruments. This provides a decided advantage over other types of flow measuring devices.

SYSTEM - A complete bypass Rotameter installation consists of the following : orifice flanges with orifice plate for insertion into the main pipeline; bypass piping with valves and fittings; a range orifice for insertion into the bypass pipeline; and what ever type Rotameter is considered best suited to a particular application



(Flow Right to Left) (Flow Left to Right)

Horizontal Flow (Fig -A)

INSTALLATION - BYPASS

Rotameters can be installed to measure horizontal flow (Fig. A)or vertical flow up (Fig. B)or down (Fig. C)for proper operation, a straight run of pipe is required on both sides of the orifice or, when space is limited, straightening vanes must be used as indicated in Table.

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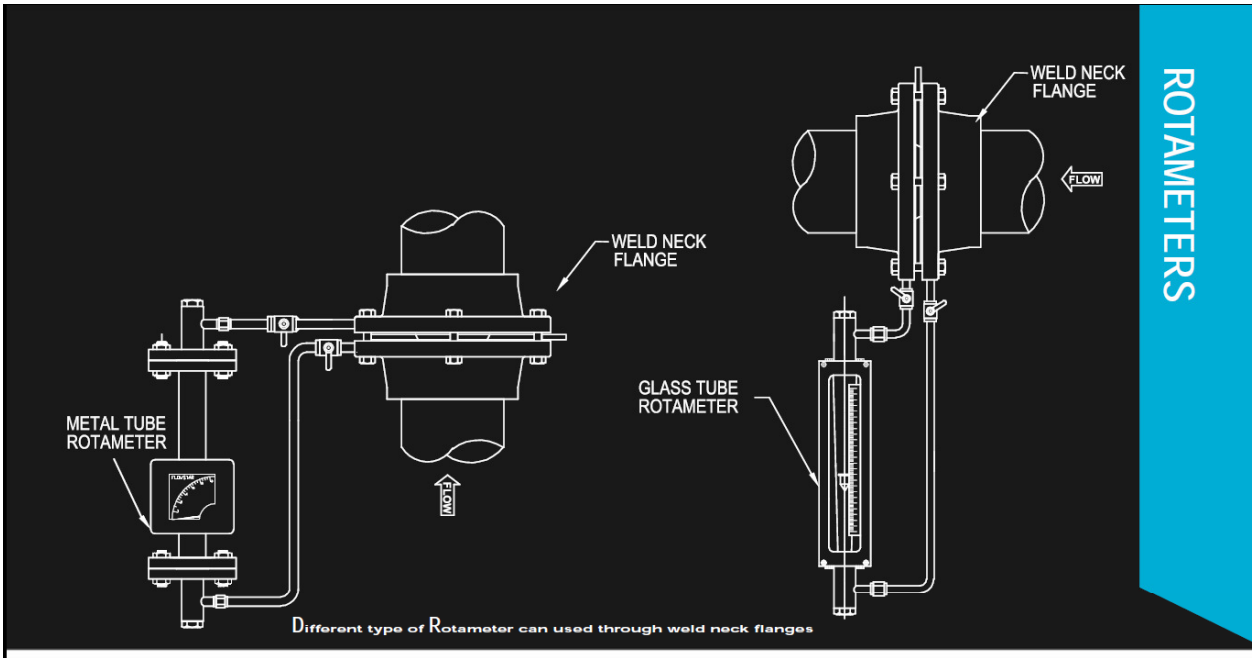
Tel- 91-0129-4069661, 4069662
E-mail: fsepl@flowstar.co.in
Website: www.flowstar.co.in



Different type of Rotameter can used through weld neck flanges

SPECIFICATION

Type of tapping	:	Flange, D and D/2, corner
Accuracy	:	±2% of full flow
Rangeability	:	7:1 or 5:1

ACCESSORIES

Hi-low flow switch

4-20 mA transmitter

STANDARD MATERIAL OF CONSTRUCTION

Orifice Flange	: SS 316 L, SS 316, SS 304, CS etc.
Orifice Plate	: SS 316, L, SS 316, SS 304, Hastelloy 'C', Monel, PVC etc.
Carrier Rings	: SS 316 L, SS 316, Mild steel, PP etc.
By Pass Line	: SS 316 L, SS 316, SS 304,Mild steel,PVC etc.
Wetted Parts of the Rotameter	: SS 316 L, SS 316, SS 304, Mild steel, PP etc.

MINIMUM UPSTRAIGHT LENGTHS REQUIRED		DIAMETER RATIO (B)											
Fitting Before Straight Run	Piping Layout	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75
Single 90° bend or tee		10	10	10	12	14	14	14	16	18	22	28	36
Two or more 90° bends in the Same Planes		14	14	16	16	18	18	20	22	26	32	36	42
Two or more 90° bends in the Same Planes		34	34	34	36	36	38	40	44	48	54	62	70
Reducers or Expanders		16	16	16	16	16	18	20	20	22	24	26	28
Globe Valve Fully open		18	18	18	18	20	20	22	24	26	28	32	36
Gate Valve Fully open		12	12	12	12	12	12	12	14	16	16	20	24
Minimum Down Stream Straight Lengths Required		4	4	5	5	6	6	6	6	7	7	7	8

Valve of the Straight Length are of 'D' B=D/D D= Orifice Diameter D= Internal Diameter of Pipe

PLEASE PROVIDE US GENERAL ORDERING INFORMATIONS FOR BY-PASS ROTAMETER.

1) Name of fluid
2) Operating density of fluid / specific gravity
3) Operating viscosity of fluid
4) Clarity of fluid transparent or opaque
5) Operating pressure
6) Operating temperature
7) Line size
8) Type of connection
9) Minimum & maximum flow rate
10) Preferred material of construction for wetted parts and non wetted parts
11) Actual I. D. of pipe or schedule of pipe or class of pipe
12) Direction of flow i.e. vertical (upward or downward) or horizontal (left to right or right to left)

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