



### ACRYLIC ROTAMETER

**Acrylic Rotameter** is a Variable Area Flow Meter. It consists of a tapered tube, typically made from acrylic block, with a 'float' made of SS or PTFE. The differential pressure across the annulus area is constant. The float moves through the tapered tube up and down with respect to fluid flow. The vertical position of the float as indicated by scale is the measure of the instantaneous flow rate.

**Specifications:**

- Material of Construction : Acrylic
- Float : SS 316 / SS 304 / PTFE
- Tube : Within Acrylic Block
- Packing : PTFE / Nitrile
- Enclosure : Acrylic Block
- Line Size from 1/2" to 3"
- Flow Range : AIR : 1 LPM - 20000 LPM  
Water: 1 LPH - 40000 LPH
- FFD or CCD: 75mm to 500mm
- Accuracy : +/- 4% to 5% of Full Scale
- Measuring Span : 1:10
- Scale : Engraved on Acrylic Block

**Application:**

Acrylic Rotameters are mainly suitable for Indoor Applications. These Rotameters are used for Air, Water and other non-corrosive fluids.

#### 1 Latching type Switch

TANSA has developed 'Latching Type Switch'. Unlike the proximity switch, when the float passes up in front of the switch, the switch becomes open. Even if the float goes up beyond the level, the switch remains open, i.e it latches off. Unless the float comes down and goes below the level, the switch will not turn on. Thus, the switch is Bi-Stable with stable. The switch operates by sensing the direction of the float travel

**Technical Specification:**

<b>Contact</b>	: Bi-Stable
<b>Supply</b>	: 8V through NAMUR Switching amplifier
<b>O/P</b>	: NO and NC Contacts



Fluid - Air



Fluid - Water

**Flow Range Chart**  
(Fluid : WATER, Temp: AMB ; Press. : ATM)

Model No.	Flow Range (LPH)	Thread Connection	Flange Connection
ACR 01	1 – 10	¼"	15 NB
ACR 02	3 - 30	¼"	15 NB
ACR 03	6 – 60	¼"	15 NB
ACR 04	10 – 100	¼"	15 NB
ACR 05	20 - 200	½"	15 NB
ACR 06	30 - 300	½"	15 NB
ACR 07	60 - 600	½"	15 NB
ACR 08	80 - 800	½"	15 NB
ACR 09	100 - 1000	¾"	20 NB
ACR 10	200 - 2000	¾"	20 NB
ACR 11	300 - 3000	1"	25 NB
ACR 12	500 - 5000	1"	25 NB
ACR 13	600 – 6000	1 ½"	40 NB
ACR 14	800 – 8000	1 ½"	40 NB
ACR 15	1000 – 10000	1 ½"	40 NB
ACR 16	1500 – 15000	2"	50 NB
ACR 17	2000 – 20000	2"	50 NB
ACR 18	2500 – 25000	2.5"	65 NB
ACR 19	3000 – 30000	2.5"	65 NB
ACR 20	3500 – 35000	3"	80 NB
ACR 21	4000 – 40000	3"	80 NB

**Flow Range Chart**  
(Fluid : AIR, Temp: AMB ; Press. : ATM)

Model No.	Flow Range (LPM)	Thread Connection	Flange Connection
ACR 22	1 – 10	¼"	15 NB
ACR 23	3 - 30	¼"	15 NB
ACR 24	6 – 60	¼"	15 NB
ACR 25	10 – 100	¼"	15 NB
ACR 26	20 - 200	¼"	15 NB
ACR 27	40 - 400	½"	15 NB
ACR 28	60 - 600	1"	25 NB
ACR 29	80 - 800	1"	25 NB
ACR 30	100 - 1000	1"	25 NB
ACR 31	200 - 2000	1"	25 NB
ACR 32	300 - 3000	1 ½"	40 NB
ACR 33	500 - 5000	1 ½"	40 NB
ACR 34	600 – 6000	2"	50 NB
ACR 35	800 – 8000	2"	50 NB
ACR 36	1000 – 10000	2"	50 NB
ACR 37	1500 – 15000	2 ½"	65 NB
ACR 38	2000 – 20000	3"	80 NB