

BONT Variable Flow Meter/ Metal Tube Flow Meter



BONT Variable Area Flow Meter has the characteristics of high-pressure proof, high-temperature proof, safety, ocular reading etc. it is suitable for chemical industrial, petroleum, metallurgy, power plant, environmental protection, medical science.

Key Applications

- Rugged all-metal design
- Easy stocking of parts thanks to modular concept
- Complete interchange ability of all components and assemblies
- Adjustable to any fluid through replaceable cam plate
- Short-stroke design /parts do not project beyond the flange, no matter what position the float is in
- Electrical or pneumatic remote data transmission system
- Limit switches can be installed

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Principle Structure

As the fluid flow upward in the tube, the float moves upward to a certain position where the lifting force and the gravitational force are balance ,at the moment ,the circulation area between the float and the orifice is kept fixed the circulation are is proportional to the height of the float ,it means the height of the float represent the volumetric flow rate .when the float moves up and down ,it transmits its positional to the indicator outside in form of magnetic-coupling ,so make the needle of the indicatore follows the movement of the float and by using the cam board to show the value of the flow rate linearly on the indicator .

Specification

DN (mm)	Measure Range			Pressure Loss (Kpa)			
	Water (L/h)		Air (Nm ³ /h)	Orifice Plate		Cone Pipe	
	Normal Type	Corrosion-proof type		Water	Air	Water	Air
15	2.5~25	~	0.07~0.7	5.5	7.1	2.1	2.6
	4.0~40	2.5~25	0.11~1.1	5.5	7.2	2.1	2.6
	6.3~63	4.0~40	0.18~1.8	5.5	7.3	2.1	2.6
	10~100	6.3~63	0.28~2.8	5.6	7.5	2.1	2.6
	16~160	10~100	0.48~4.8	5.6	8	2.1	2.6
	25~250	16~160	0.7~7.0	5.8	10.8	2.1	2.6
	40~400	25~250	1.0~10.0	6.1	10	2.1	2.8
	63~630	40~400	1.6~16.0	7.3	14	2.2	3.2
25	63~630	40~400	1.6~16	5.7	7.2	2.4	3.2
	100~1000	63~630	3~30	5.9	7.7	2.4	3.3
	160~1600	100~1000	4.5~45	6	8.8	2.5	3.4
	250~2500	160~1600	7~70	6.8	12	2.6	3.8
	400~4000	250~2500	11~110	9.2	19	3	4.5
50	630~6300	400~4000	18~180	6.8	8.6	3.3	7.4
	1000~10000	630~6300	25~250	9.4	10.4	3.8	7.7
	1600~16000	1000~10000	40~400	14.5	15.5	4.3	8.4
80	2500~25000	1600~16000	70~700	6.9	12.9	3.6	6.8
	4000~40000	2500~25000	100~1000	8	18.5	4.6	8.9
100	6300~63000	4000~40000	160~1600	8.5	19.2	5.8	12
	8000~80000	6300~63000	250~2500	8.8	19.6	6.4	12.8