

TRANTECH TTSFM SHUTTLE TYPE FLOW RATE METER



Working Principle

The Trantech TTSFM Variable area flowmeter uses a weighted float in a tapered plastic tube to measure and visually display liquid flow rate, the fluid flows through the vertically mounted flow tube forcing the float to a position with sufficient free area to enable the flow to pass by. The pressure drop across the flowmeter remains constant over the entire flow range.

Applications

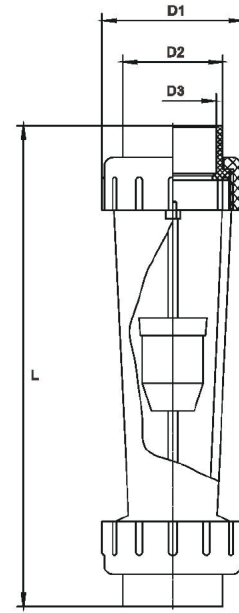
- Water and wastewater treatment plants
- Reverse Osmosis and filtration systems
- Dosing systems

Variable Area Flowmeter for Liquids

Low cost, excellent readability and light weight	
Simple installation (flanged, threaded or socket ends for solvent or fusion welding connections)	
Wide range of operating temperatures with several combinations of tube and fittings material	
Scaled directly in l/h, m³/h, %, ... Special scales for other liquids available on request	
Flow rate	Water: 60L/hr - 220m³/hr
Accuracy	4% ($q_G=50\%$)
Connection Options	DIN flanges DN15... DN150 (15-150mm)
	BSP or NPT threaded connections ½" - 3" (15-80mm)
	Solvent weld socket PVC connections ½" - 3" (15-80mm)
Materials	Measuring tube: (AS) Acrylonitrile Styrene
	Fittings: ABS, others available
	Float: (AS) Acrylonitrile Styrene
	O-Ring: Silicone
	Shuttle guide: 316L stainless steel (Short tube version only)

Dimensions

Model	DN	Size							
		Long tube				Short tube			
		L	D ¹	D ²	D ³	L	D ¹	D ²	D ³
TTSFM-15	15	280	45	26	20	200	44	26	20
TTSFM-20	20	324	51	31	25	234	59	31	25
TTSFM-25	25	380	68	39	32	234	60	39	32
TTSFM-32	32	375	74	50	40	288	74	50	40
TTSFM-40	40	415	88	63	50	380	87	63	50
TTSFM-50	50	435	98	73	63	348	98	73	63
TTSFM-65	65					430	124	88	75
TTSFM-80	80					505	142	106	90



* Dimensions for short and long tube, Female thread or Female Glue version.

* Guide bar for short tube type only.

Technical Parameters

Model	TTSFM-15 (L/h)	TTSFM-20 (L/h)	TTSFM-25 (L/h)	TTSFM-32 (m³/h)	TTSFM-40 (m³/h)	TTSFM-50 (m³/h)	TTSFM-65 (m³/h)	TTSFM-80 (m³/h)	TTSFM-100 (m³/h)	TTSFM-125 (m³/h)	TTSFM-150 (m³/h)
Flow Range	60~60 10~100 16~160 25~250 40~400 60~600 80~800	40~400 60~600	60~600	0.4~4 0.6~6 1~10	0.4~4 0.6~6 1~10 1.2~12	0.4~4 0.6~6 1~10 1.6~16	1~10 1.6~16 5~25 8~40 12~60	5~25 8~40 12~60 12~80	8~40 8~50 12~60 14~90 18~120	15~150 22~180 25~200 22~220	15~150 22~180 25~200 22~220
Type	Long tube/Short tube						Short tube		Flange Connection		
Accuracy	±4% @q 50%										
Temperature	0-60°C										
Pressure	6 Bar Max										