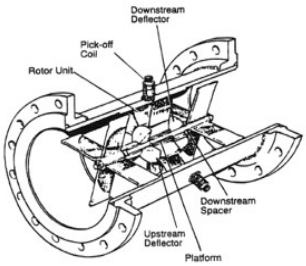
SS FLOW
A NEVER ENDING JOURNEY

S S FLOW_TFM

TURBINE FLOWMETER



KEY FEATURES

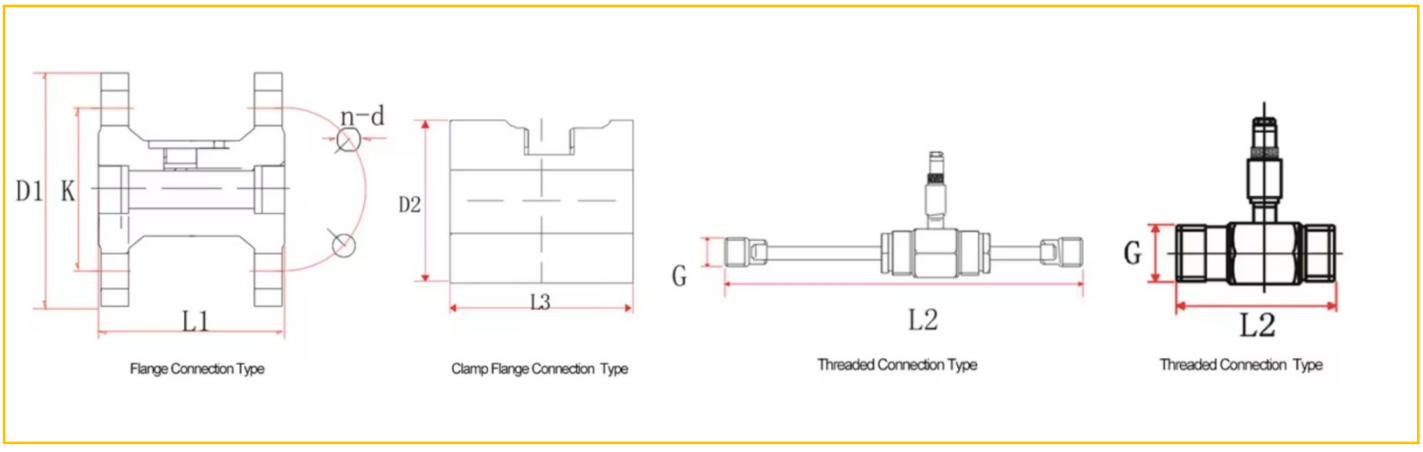
- High accuracy: Regular accuracy is ±1.5%R
- High frequency: Achieves 3-4 kHz, providing high resolution.
- Wide range ability: Medium or large diameters can reach a range of 1:20, while small diameters are 1:10.
- Compact and lightweight structure: Ensures convenient installation and maintenance and allows for extensive application.
- Pulse frequency signal output: Suitable for totality calculation and computer connection, with no zero drift and strong anti-interference capacity.
- Good repeatability: Short-term repeatability ranges from 0.05% to 0.2%, making it ideal for trade settlement due to its high accuracy in regular or online calibration.
- Customizable sensors: Tailored versions can be designed to meet specific user needs, such as low temperature, high pressure, or sanitary types.
- High pressure measurement: Suitable for high pressure applications without the need for creating openings in the instruments.

WORKING PRINCIPLE

A turbine flow meter is used for volumetric total flow and/or flow rate measurement and has a relatively simple working principle. As fluid flows through the turbine meter, it impinges upon turbine blades that are free to rotate about an axis along the centre line of the turbine housing. The blades are built from a paramagnetic material. Pick-offs, mounted externally without contact with the fluid, create a magnetic field in the pipe. Thus, when the blades pass through this field, they generate a voltage proportional to the velocity of rotation, which can be used to calculate the flow rate. The signal from the pick-offs can go into an external transmitter and convert to other types of communication. You can also use a pre-amplifier to read these pulses directly from the turbine flow meter without the transmitter.

TECHNICAL SPECIFICATION

Line Size	DN4 to DN200
Ratio of Measuring Range	1 : 10
Instrument Material	SS316 / SS304
Conditions of use	Environment temperature: -30°C—60°C
	Medium temperature: -100°C—100°C/120°C/150°C
Pressure Level	Up to 16 bar / High Pressure Model Available
Power Supply	12-24VDC / 230v AC
Power Consumption	≤1W
Signal Output	Pulse / 4-20mA / RS485(Modbus-RTU)
Protection Level	IP65 (IP67 can be customized)
Explosion-proof Level	Ex-Proof Model Available on request
Display	Instantaneous flow , accumulative flow unit Select-able



DIMENSIONS DETAILS

	Flange Connections					Thread Connections	
Diameter	L1	D1	K	D	No. of Holes	L2	BSP Thread
4	Consult Factory for Customization					225	1/2”
6						225	1/2”
10						345	1/2”
15	75	95	65	14	4	75	1”
20	80	105	75	14	4	80	1”
25	100	115	85	14	4	100	5/4”
32	140	150	100	18	4	140	3/2”
40	140	150	110	18	4	140	2”
50	150	165	125	18	4	150	5/2”
65	170	185	145	18	4	NA	
80	200	200	160	18	8		
100	220	220	180	18	8		
125	250	250	210	18	8		
150	300	285	240	22	8		
200	300	285	240	22	12		

LINE SIZE VRS FLOW RATE

Diameter (mm)	Std. Flow Range (m3/hr)	Extended Flow Range(m3/hr)
4	0.04 – 0.25	0.04 to 0.4
6	0.1 – 0.6	0.06 – 0.6
10	0.2 – 1.2	0.15 – 1.5
15	0.6 – 6	0.4 to 8
20	0.8 – 8	0.45 – 9
25	1 - 10	0.5 – 10
32	1.5 - 15	0.8 - 15
40	2 – 20	1 - 20
50	4 – 40	2 - 40
65	7 – 70	4 – 70
80	10 – 100	5 - 100
100	20 - 200	10 - 200
125	25 – 250	13 - 250
150	30 – 300	15 - 300

APPLICATION

- **Automobiles:** Gear/Engine/Edible oil, Coolant, Windshield liquid, Hydraulic oil, Aviation fuel, Diesel.
- **Pharmaceuticals:** Water, Injection water, Solvents. Clean Meters with Tri clamps.
- **Water Industry:** Cooling Water, Treated Water, Waste Water, Drinking water, Irrigation water.
- **Food Industry:** Hot water, Chilled water, Milk, DM Water, Boiler Feed Water, Alcohol, ENA, Beer, Soft drinks.
- **And Many Others**

ORDERING INFORMATION

SS FLOW_TFM_LINE SIZE			
MOC	1 – SS304 2 - SS316 3 – Other	**Protection**	1 - IP 65 2 – IP67
Pressure	1 – Up to 16 Bar 2 – Other	**Explosion Proof**	1 - Yes 2 - No
Connection	1 – Flange 2 – Thread 3 – Clamp 4 – Insertion	**Output :**	1 - 4 to 20mA 2 – RS485 3 – 4 to 20mA + HART 4 – 4 to 20mA + RS485
Temperature	1 – 80 Degree C 2 – 120 Degree C 3 - 150 Degree C 4 – Above 150 Degree C	**Relay**	1 - Switching 2 – Batching 3 – With Addition Output 4 – NA
Power	1 – 24vDC 2 – 230V DC 3 – Other	**Test Certificate**	1 – Factory Calibration 2 – NABL lab
Display	1 - Without 2 – Integral 3 – Remote Type	**Any Other Details**	Please specify

WE UNDERSTAND FLOW

S S Automation & Instrumentation Company

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