



BROIL

FLOW | CONTROLLER | AUTOMATION

GLOBAL
SOLUTIONS
FOR YOUR MEASURING

SWIRL

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- Cutting-Edge Technology Solutions
- Custom Software Development Expertise
- Entrepreneurial Leadership
- Global Recognition High Quality Products
- Comprehensive Customer Support
- State of the art infrastructure
- Dynamic Marketing Strategies
- Cutting-Edge Manufacturing Facility

Swirl flowmeters, often referred to as swirl meters or precision vortex flowmeters. The swirl flow meter operates on the principle of imparting angular momentum to the flowing fluid through a set of stationary blades or swirl vanes. As the fluid passes through these vanes, it acquires a swirling motion. These Swirls are detected by a sensor, and the frequency of their formation is directly proportional to the fluid velocity. By measuring this frequency, the swirl flow meter accurately calculates the flow rate of the fluid.




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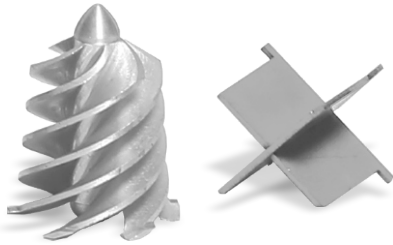
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PERFORMANCE DATA

Swirl flowmeter is designed for pipe sizes ranging from DN 15 to DN 200. The flowmeter is specified to measure flow rates within a certain range 0.3 ~ 3600 m³/h. As mentioned, swirl flowmeter in general are known for their high accuracy. The precision in their measurements is emphasized, making them suitable for applications where precise flow data is essential.

ADVANTAGES

Swirl flowmeters are designed to operate effectively over a broad range of temperatures and pressures. Swirl meters can directly measure mass flow rates, providing valuable information in processes where mass flow is a critical parameter. Similar to other vortex-based flowmeters, swirl flowmeters have no moving parts in direct contact with the fluid being measured. Swirl flowmeters provide accurate measurements, which can lead to cost savings by minimizing waste and optimizing resource usage. This feature contributes to their reliability and reduces maintenance requirements. These flowmeters can be integrated into process control systems, allowing for real-time monitoring and control of fluid flow in industrial processes.

MARKETS & AREAS OF APPLICATION

swirl flow meter stands as a reliable and adaptable flow measurement solution, especially in applications with complex flow patterns. Its ability to accurately measure low flow rate, coupled with its non-intrusive design and versatility, makes it a valuable asset in industries dealing with diverse and dynamic flow conditions. Swirl flowmeter are particularly useful in application of various gases measurement, Petroleum, Chemical Industries, Compressed Air measurement etc.

ELECTRIC CONNECTION

DISPLAY OUTPUT

* Please Check Display Manual

calculate pulse/liter at : 25%, 50%, 75% and 100% flow rate with pure water at room temperature

DISPLAY WITH VARIOUS OUTPUT

Power Voltage : 24 V DC

Output Signal

Retransmit : (4 ~ 20) mA / Pulse

Communication : RS - 485 / HART Protocol / Alarm

Relay : High & Low Flow

Battery Operated Meter

Power Voltage : 3.6 V DC Lithium Batteries

Display Mode : Double row LCD as below

Q X.XXXXX

Six Digit Instantaneous Flow

(Nm³/h, Nm³/m, m³/h, m³/m, L/h, L/m, Kg/h, Kg/m, T/h, T/m)

XXXXX.XXXX

Nine Digit Cumulative Flow

Cumulative flow : Automatically expand the display precision.

The cumulative flow values can be reset.

Power-fail protection : The instrument coefficient ensures that total flow values for the past ten years are retained even in the event of a power supply drop.

GENERAL SPECIFICATION

Enclosure : Aluminium / SS 316

Repeatability : 0.02%

Accuracy (standard position) : 1% for Gas

Fluid & Ambient Temperature : -20 °C to 80 °C

Connection : Flange End

MODEL RANGE

Model Number	Line Size (Flange)	Range (m ³ /H)
BT - SFM - 015	½"	0.33 ~ 12
BT - SFM - 020	¾"	1.1 ~ 16
BT - SFM - 025	1"	2.7 ~ 32
BT - SFM - 032	1¼"	4.6 ~ 61
BT - SFM - 040	1½"	6.5 ~ 73
BT - SFM - 050	2"	11.3 ~ 134
BT - SFM - 065	2½"	19.1 ~ 299
BT - SFM - 080	3"	29.4 ~ 408
BT - SFM - 100	4"	50.9 ~ 792
BT - SFM - 125	5"	70.7 ~ 1016
BT - SFM - 150	6"	159 ~ 2227
BT - SFM - 200	8"	226.2 ~ 3619

at standard conditions STP (20 Deg. °C, 1- ATM)

