

MBF 700 Inline turbine flow meter



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MBF 700 Inline Turbine Flow meter



MBF 700 turbine flow meter is engineered to excel in measuring liquid flow across diverse industrial landscapes. At the heart of this instrument lies a combination of cuttingedge foreign technologies, ensuring unparalleled accuracy and reliability.Our turbine flow meter boasts a simple yet robust structure, facilitating seamless installation and repair processes. Its versatility knows no bounds, finding applications in a multitude of industries including oil, chemical, metallurgy, water supply, paper-making, environmental protection, and food processing.

Designed to operate within closed pipelines, this flow meter is tailored to measure the flow of liquids that won't compromise the integrity of its construction materials, including stainless steel (ICrI8Ni9Ti), 2Cr13, AI203, and hard alloy. Moreover, it remains impervious to impurities such as fiber and granules, ensuring consistent and precise readings. Experience efficiency, accuracy, and peace of mind with the MBF 700 Turbine Flow Meter – your ultimate solution for liquid flow measurement needs.

APPLICATIONS

Oil Industry:

In the oil industry, precise measurement of liquid flow is essential for various processes such as extraction, refining, and transportation. The MBF 700 Turbine Flow Meter provides accurate readings in closed pipelines, ensuring efficient operations and minimizing wastage.

Chemical Industry:

Chemical processes often involve the handling of corrosive substances where accurate flow measurement is crucial for maintaining safety and product quality. With its resistance to erosion and impurities, the MBF 700 ensures reliable performance in measuring liquid flow within chemical processing plants

Water Supply:

Municipalities and utilities rely on accurate flow measurement to manage water distribution systems effectively. The MBF 700 enables precise monitoring of water flow rates & consumption in pipes, aiding in the optimization of water supply networks and the detection of leaks.

Paper-making:

Paper manufacturing requires precise control over various fluids used in the production process. The MBF 700's easy installation and maintenance, coupled with its resistance to contaminants, make it an ideal choice for monitoring liquid flow in paper mills.

Environmental Protection:

Monitoring liquid flow is essential in environmental applications such as wastewater treatment and pollution control. The MBF 700 helps ensure compliance with regulations by providing accurate measurements of liquid flow in systems designed to safeguard the environment.

Food Industry:

From beverage production to dairy processing, the food industry relies on accurate flow measurement to maintain product quality and safety standards. The MBF 700's compatibility with stainless steel and other foodgrade materials makes it a reliable choice for measuring liquid flow in food processing facilities.



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FEATURES

Hard Alloy Thrust-Type Sensor:

The MBF 700 Turbine Flow Meter features a sensor crafted from hard alloy bearing thrust technology, ensuring exceptional precision and enhanced wear resistance. This innovative design optimizes performance, making it reliable even in demanding industrial environments.

Simple and Sturdy Structure:

Engineered for simplicity and durability, the MBF 700 boasts a robust and straightforward structure, facilitating effortless installation and dismantling. This feature streamlines maintenance procedures, minimizing downtime and maximizing productivity.

Wide Measuring Range:

With its capability for measuring across a wide range, the MBF 700 excels in applications where precise measurement at low flow velocities is critical. Its versatility ensures accurate readings regardless of varying flow rates, enhancing operational efficiency.

Low Pressure Loss and High Precision:

Experience minimal pressure loss and exceptional precision with the MBF 700. Its finely tuned design delivers superior repeatability, allowing for precise measurement even in challenging operating conditions. This reliability translates to consistent and accurate data for informed decision-making.

Resilence to Interference and Vibration:

Designed to withstand electromagnetic interference and vibrations, the MBF 700 ensures reliable performance in environments prone to external disturbances. This resilience guarantees consistent and accurate readings, even in the presence of external factors, bolstering confidence in measurement accuracy.

BENEFITS OF FLOW METER

- High accuracy
- The bearings in MBF 700 flow meters are made from a hard alloy, providing high durability and resistance to wear, ensuring longer operational life and consistent performance in harsh fluid conditions..
- Simple structure minimizes downtime and labor costs.
- Wide range accommodates diverse flow rates for reliable performance.
- Maintains precision even in challenging conditions.
- Resilient to interference and vibrations for consistent accuracy.
- Designed to minimize pressure drop across the meter, ensuring efficient fluid flow within the system.

SIZE- FLOW RANGE- CONNECTION

Size	Standard Flow	Extended Flow
(mm)	Range	Range
	(m³/h)	(m³/h)
DN 15	0.6-6	0.4-8
DN 20	0.8-8	0.45-9
DN 25	1-10	0.5-10
DN32	1.5-15	0.75-15
DN40	2-20	1-20
DN 50	4-40	2-40
DN 65	7-70	3.5-70
DN 80	10-100	5-100
DN 100	20-200	10-200
DN 125	25-250	12.5-250
DN 150	30-300	15-300
DN 200	80-800	40-800

MBF 700 specifications*

Operation and performance

Flow measurement Turbine rotation technology Fluid types Most Clean Liquids Fluid properties Fluid with viscosity: 20 CST Nominal drift diameter DN 15 MM - DN 200 MM Flow accuracy ±0.5%; **Measurement parameters** Standard : Total Flow, Instantaneous Flow, **Optional : Medium Pressure, Medium Temperature** Certification Factory wet Calibration certificate & Test Report

Electronics

Transmitter Type Integral

INSTALLATION DIAGRAM

Enclosure IP rating IP65 **Power supply** 24 VDC/2A Use SMPS when employing AC power **Ambient temperature** 32°F to 140°F (0°C to 60°C) Standard output Analog output : 4-20mA Pulse output **Network Connection** Modbus RTU RS 485 **Operating Temperature range** -4°F to 176°F (-20°C to 80°C) Nominal Pressure DN 15 - DN 50: 4 Mpa DN 65 - DN 200 : 1.6 Mpa **Process connections** ANSI 150 Flanges **Sensor Materials** Standard : Stainless Steel 304 **Optional : Stainless Steel 316**

*Specifications are subject to change without prior notice.



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All future orders will adhere to the standard specifications outlined in the order code, ensuring consistency and quality across items



USA OFFICE ADDRESS : MIAL INSTRUMENTS PVT LTD DOWNTOWN REPUBLIC CENTER , 325 N. ST.PAUL STREET, SUITE 3100,DALLAS 75201 ,TEXAS ,USA FACTORY ADDRESS : MIAL INSTRUMENTS PVT LTD 856/6 GIDC MAKARPURA,VADODARA - 390010, GUJARAT, INDIA Mob : +91 9913449547 | +91 9913449548 e-mail :info@mialinstruments.com



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