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# Solutions in Flow Measurement

## Badger Meter Industrial Product Guide



**BadgerMeter, Inc.**

1905 TO 2005 ~ A CENTURY OF



FLOW MEASUREMENT SOLUTIONS

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## Extremely Accurate Flow Measurement for a Wide Variety of Applications, From Pure Water to Your Most Challenging Fluids

### RCDL Disc Meters

#### Positive Displacement - Nutating Disc

The RCDL Disc Meter combines the accuracy of positive displacement design with the reliability and economy of nutating disc technology. Well suited for measuring the flow of water and other fluids, hot or cold, this meter can be combined with most Badger® mechanical and electronic accessories for applications from batching to inventory control.

**Applications:** Inventory and process control of cold and hot water, oils, fuels, alcohols, HVAC, condensate return, boiler feed, additive dispensing, and fuel consumption.



### Industrial Turbo Meters

#### Turbine Flow

With its rugged design, the Industrial Turbo Meter can withstand the toughest flow conditions. This meter is ideally suited where continuous service and minimal maintenance are required. It is available in various materials and pressure ratings, and can be combined with Badger's large selection of accessories to suit numerous applications.

**Applications:** HVAC, process water, and low viscosity fluids such as acids, bases, fuels and solvents.

### Recordall® Turbo Meters

#### Turbine Flow

The Recordall Turbo Meter is ideally suited for any water application, performing with great accuracy over a wide flow range. It also has very low pressure loss, increasing system efficiency. Sizes available are 1½" to 20" (DN 40 to DN 500).

**Applications:** Industrial water, water treatment and conditioning.



### Industrial Handheld Dispensing Meter

The Industrial Handheld dispensing meter is designed for applications that require an accurate volume dispense measurement in chemical or water environments. The handheld meter offers the ability to dispense aggressive fluids while displaying the totals on the LCD display.

**Applications:** Landscaping, fertilizer companies and manufacturers that require oiling machinery.

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## Electromagnetic Flow Meters

Models Magnetoflow®, RESEARCH CONTROL® Mag and M-Series™ M-3000 & M-4000

Badger Meter's advanced electromagnetic designs deliver up to 0.25% accuracy. The non-intrusive design virtually eliminates pressure loss. Since there are no moving parts in the flow stream, maintenance is kept to a minimum. A large variety of size configurations and liner materials are available ranging in sizes from 1/24" to 54" (DN1 - DN1400). Connections are available in flanged, wafer and 3A approved sanitary fittings. Applications can be found in various industries including food and beverage, pharmaceutical, chemical, pulp and paper and mining and water/waste water treatment.

**Applications:** Industrial liquids, process control, chemical batching, HVAC, water treatment and conditioning, water/wastewater and food processing.

The Magnetoflow series of electromagnetic meters was designed for general industrial and water/waste water applications. The M-Series was developed for applications in hazardous environments and carries FM Class I, Div 1 and Div 2 certifications. The RCM series specifically targets extremely low flow batching and chemical dosing applications.

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## OP Meters

Positive Displacement - Oscillating Piston

Badger Meter's Oscillating Piston meters are highly accurate and the perfect match for food, beverage, chemical and other sanitary applications. The sanitary version is 3A approved. Combine the OP meter with most Badger® mechanical and electronic accessories for applications from batching to inventory control. (Easy maintenance is achieved through simple replacement of the piston element.)

**Applications:** Batching, inventory control, process transfer, metering of low, medium and high viscosity fluids in chemical and sanitary applications.



## Water Treatment Flow Systems

Badger Meter's Water Treatment Flow Systems are specifically designed for commercial and industrial water treatment operations. The system consists of a water flow meter, the RTR electronic pulse transmitter/register and the AR/e electronic controller.

**Applications:** Water softening, water filtration, demineralization, reverse osmosis, and chemical feed systems.

## Flow Meter Accessories

Badger Meter's extensive selection of flow meter accessories maximizes your flexibility, including resettable and non-resettable mechanical or battery-powered totalizers and indicators for applications requiring power-free operation. Analog and digital flow transmitters are well-suited for applications where AC, DC or Loop power is available.



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# The Badger® Advantage

## Badger Industrial Flow Products

### Industries

Water Treatment  
Waste Water  
Water Conditioning  
Process Water  
HVAC  
Chemical  
Pharmaceutical  
Textile  
Pulp & Paper  
Food & Beverage

### Solutions

Batching  
Blending  
Flow Control  
Inventory  
Leak Detection  
Bulk Transfer  
Dispensing

### Experience

Backed by 100 years of experience as a trusted leader in flow measurement, Badger has supplied a large variety of flow measurement equipment and accessories to the industrial process market.

### Distribution

Badger's products are distributed around the world through our exclusively authorized sales representative companies. With Badger sales offices in major world markets and local representatives, customers receive well-trained local support.

### Selection

Badger's comprehensive product offering ranges from solutions for the food and pharmaceutical industries to water treatment flow systems. Badger has a wide selection of proven metering technology and innovative accessories to meet almost any industrial process application.

### Quality and Technology

State-of-the-art manufacturing and inspection processes ensure product quality and long lasting measuring accuracy. Every meter is subjected to rigorous testing according to ISO 9000 quality directives and EMC rules.



Hydro Lab in Badger Meter's  
James O. Wright Innovation Center

The James O. Wright Innovation Center is a world class engineering facility dedicated to the development of new technology and products for flow measurement.



## Serving You Worldwide:



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