

Blancett®

**Rugged, Accurate and Reliable.
Liquid and Gas Flow Meter Solutions.**



**Turbine Meters
and Accessories**

Accurate, Consistent, Reliable and Informative

Badger Meter offers the Blancett® family of turbine flow meters to measure everything from water in hydraulic fracturing and mining operations, to gases and liquids from wellheads, and various fluids in sanitary environments. Our turbine meters deliver accurate, consistent, reliable and informative flow measurements for both liquid and gas applications.

Compatible with most low-viscosity liquids and natural gas, Blancett meters are suitable for a wide variety of applications in upstream oil and gas, food and beverage, petrochemical, semiconductor, and irrigation. The meters provide cost-effective solutions for general area, hazardous area or 3-A sanitary applications.

The Blancett family is offered with an assortment of accessories for local flow or totalizer indication, and delivers output signals to suit the inputs required by data acquisition or control systems. Available accessories include local monitors, frequency-to-analog transmitters, and frequency-to-square wave transmitters. A varied selection of turbine meter pickups is also offered to meet application requirements.

Committed to fast deliveries, Badger Meter maintains a factory lead time of five days for standard Blancett configurations. Expedite options are also available. All Blancett flow meters, attached transmitters, and repair kits receive a five-point, NIST-traceable calibration as standard.

- Petrochemical
- Oil and Gas
- Food and Beverage
- Semiconductor
- Irrigation



Turbine Meters for Liquid Measurement

Blancett liquid measurement turbine flow meters are available in sizes from 1/2...10 inches (13...254 millimeters). The meters are compatible with Blancett accessories and support various mounting styles, including flange, threaded, wafer, Victaulic, Grayloc, hose barbed and tri-clamp.

With an accuracy of ± 1 percent of reading, a ± 0.1 percent repeatability, and stainless steel body construction, Blancett liquid turbine meters provide precision measurements while being resistant to most chemicals. These meters are used to measure a wide range of liquids, including water, process water, chemicals and refined fuels.

Blancett liquid turbine meters are also cost-effective and easy to repair. Field repair kits are also compatible with turbine meter models of several manufacturers. Both complete meters and repair kits receive a NIST-traceable calibration at the factory. Additional calibrations are available to achieve a higher accuracy rating or to custom-calibrate for a specific viscosity.



B1100 In-line Turbines

- 1/2...10 in. (13...254 mm)
- 0.6...5000 gpm (2.27...18,927 lpm)
- Accuracy up to $\pm 1\%$ of reading
- Repeatability of $\pm 0.1\%$
- NPT, BSP, Victaulic, flange, hose-barbed, or Grayloc end fittings



QuikSert® Liquid Wafer Turbines

- 1...10 in. (25...254 mm)
- 0.6...5000 gpm (2.27...18,927 lpm)
- Accuracy up to $\pm 1\%$ of reading
- Repeatability of $\pm 0.1\%$



FloClean 3-A Sanitary Turbines

- 1...3 in. (25...76 mm)
- 0.6...400 gpm (2.27...1,514 lpm)
- Accuracy up to $\pm 1\%$ of reading
- Repeatability of $\pm 0.1\%$
- Temperature up to 300° F (149° C)
- Tri-clamp end fittings



B20 In-line Turbines

- 1 in. (25 mm)
- 5...50 gpm (18.9...189 lpm)
- One or two switches per meter
- Accuracy up to $\pm 1\%$ of reading
- Repeatability of $\pm 0.1\%$
- NPT end fittings
- Same lay length as the discontinued B200

Other Meters for Liquid Measurement

Because turbine meters are not suitable for every application, Badger Meter also offers other metering technologies. Two types of adjacent liquid metering applications often associated with common turbine-metering applications are measurement of higher-viscosity liquids and liquids containing small particulates. Positive displacement (PD) and impeller meter technologies are appropriate for these applications.

Industrial oval gear (IOG) and B1750 PD meters are designed for liquids with viscosities up to 1000 cP. This makes PD meters particularly suitable for paints, oils, inks, fuels, solvents, chemicals, lubricants, greases and polyurethanes. Both meters offer accuracies up to ± 0.5 percent of reading depending upon model and fluid, support easy installation in any orientation, and do not require any straight run of piping.

B900 impeller meters, with a ± 2 percent of reading accuracy, are an effective metering solution for measuring low-viscosity liquids that contain small particulate, such as in floodwater line flow in secondary oil recovery operations. The housings are constructed of abrasive- and chemical-resistant stainless steel. IOG, B1750 and B900 all allow for quick and easy service access to the internal measuring mechanism without removing the meter from the line.

New IOG PD Meters

- 1/4...3 in. (6...76 mm)
- 0.07...185 gpm (0.26...700 lpm)
- Repeatability of $\pm 0.03\%$
- Pressure up to 3000 psi (206 bar)
- Temperatures up to 240° F (115° C)
- Complete line of IOG accessories
- Stainless steel or aluminum bodies with NPT, BSP, ANSI 150- or 300-pound flange end fittings



B1750 PD Meters

- 1/4...1-1/4 in. (6...32 mm)
- 0.003...120 gpm (0.011...454 lpm)
- Repeatability of $\pm 0.1\%$
- Pressure up to 5000 psi (345 bar)
- Temperatures up to 400° F (204° C)
- Compatible with Blancett accessories
- Stainless steel body with NPT end fittings



Series 900 In-line Impeller Meters

- 1...2 in. (25...51 mm)
- 2...90 gpm (7.5...341 lpm)
- Accuracy up to $\pm 2\%$ of reading
- Pressure up to 5000 psi (345 bar)
- Temperature up to 200° F (93° C)
- Local display only
- Stainless steel body with NPT end fittings



Turbine Meters for Gas Measurement

When gases need to be measured, look no further than the accurate, rugged QuikSert® gas meter. This meter provides a long service life due to its durable design, which utilizes stainless steel construction and tungsten carbide shaft and bearings. The unique wafer-style design allows for quick installation and easily fits between two flanges.

Blancett liquid turbine meters are cost-effective and easy to repair. Complete meters and repair kits receive a NIST-traceable calibration at the factory. Additional calibrations are available to achieve a higher accuracy rating or to custom-calibrate for a specific gravity.

QuikSert® Gas Meter

- 2 in. (51 mm)
- Accuracy of $\pm 2\%$ of reading
- Repeatability of $\pm 0.5\%$
- Pressure from vacuum to 2,220 psi (15.3 MPa)
- Temperatures to 330° F (165° C)
- Stainless steel body
- Compatible with Blancett accessories



Accessories

The new B3000 flow monitor revolutionizes field measurements with built-in alarm parameters that provide faster warnings when conditions change in the process or pipeline. Enhanced totalization options deliver more flow information, including rate and total displays viewable at the same time. Data can also be accessed over a network.

The B3000 is available in several enclosure options for both liquid and gas applications, from intrinsically safe and explosion (flame) proof ratings to an innovative solar-powered model.

Other available accessories include B2800 flow monitors, K Factor scalers, and analog converters.

<ul style="list-style-type: none"> • Monitors 	 <p>B3000 Flow Monitor</p> <ul style="list-style-type: none"> • Flow rate or totalization • Meter or remote mount • Battery, solar or loop power • 4...20 mA, pulse or Modbus RTU outputs • General or hazardous area • Optional alarms 	 <p>B2800 Flow Monitor</p> <ul style="list-style-type: none"> • Flow rate or totalization • Meter or remote mount • Battery or loop power • Pulse output
<ul style="list-style-type: none"> • Transmitters 	 <p>K Factor Scaler</p> <ul style="list-style-type: none"> • Square-wave output proportional to any desired unit of measure • Amplifies turbine meter output • Windows®-based configuration software 	 <p>Analog Converters</p> <ul style="list-style-type: none"> • 4...20 mA (2-wire) or 0...5V DC (3-wire) output • Analog signal proportional to flow rate • Windows®-based configuration software

Data Acquisition Solutions

Extend your Blancett metering reach with mesh wireless and data acquisition systems from Badger Meter.

The 3700 server performs data logging and trending in 1...60-minute intervals and features an embedded web interface for configuration and set-up of the system. Data can be sent to a SCADA or building automation system.

Each 345WT radio transceiver, which communicates via a 900 MHz radio frequency to other 345WTs, can communicate over a local wired Modbus RTU network. A system of 345WTs forms a self-healing, wireless mesh network with an inter-device range of 1500 feet indoors and seven miles outdoors, and connects geographically separated Modbus RTU networks. Outdoor enclosure options are available.

Both the 3700 data acquisition server and 345WT radio transceivers directly accommodate a limited amount of local I/O, expansion I/O cards, and Modbus RTU-networked devices. The data acquisition system has input options to accept Blancett pick up outputs, K Factor Scaler, B3000, B2800 and analog converters.

Model 3700
Data Acquisition Server



Model 345WT
Radio Transceiver



Batch Controllers

For simple applications, Badger Meter batch controllers provide totalization, flow rate and batch counting. Both controllers have a NEMA 4X (IP65) enclosure rating and are compatible with Blancett pick up outputs, K Factor Scaler, B3000 and B2800.

PC100 Full-Featured

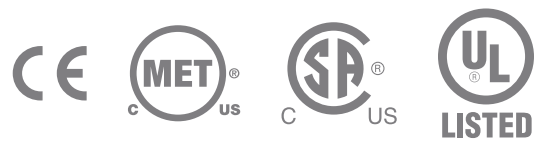
- Bi-directional batching
- Settable batch limits and high- and low-flow alarms
- AC or DC pulse input, 2 kHz max. frequency



CB-30 Basic

- Single-direction batching
- DC pulse input to 5 kHz or 150 Hz





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