

# InFLOW, INC.

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## SOLID STATE MICRO FLOW NOZZLE METERS

The *MicroFLOW* meter by InFLOW, INC. is offered for a wide variety of lower flow industrial services. These flow meters have no moving parts, can be used on liquids as well as gases, have exceptional accuracy & repeatability (NIST traceable calibration available), have low pressure drop, and can be field verified.

The *MicroFLOW* meter works on the differential pressure drop principal as discussed by Bernoulli. A contoured nozzle following ASME, ANSI, and other standards is used to create a flow rate that is proportional to the square root of the pressure drop. Monitoring the drop is a SMART (microprocessor based) differential pressure transmitter. Output from the transmitter is an analog current that can be directly proportional to the flow (square root function) or differential pressure.

By combining this “no moving parts” meter with auxiliary electronics, extremely high flow rate accuracies can be achieved. By adding pressure &/or temperature compensation, the meter can be used for mass flow applications. With such measures, the *MicroFLOW* meter can provide accuracies of 0.5% of READING and 0.25% repeatability over moderate turndowns.

The *MicroFLOW* meter has a removable element that can be taken apart for cleaning if required. In addition, the field replaceable element can be swapped for different flow capabilities. Typically, the body is constructed of brass or 300 series stainless steel. The custom sized flow element is fabricated from 300 series stainless steel. Other materials such as corrosion resistant engineering plastics or other metals are also available.

Applications: Pilot plant / Laboratory

Blending

General process

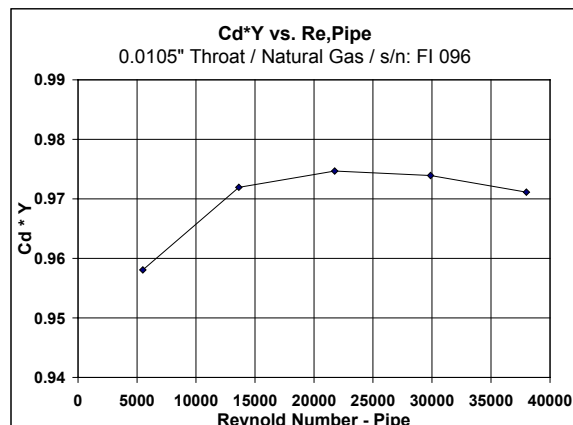
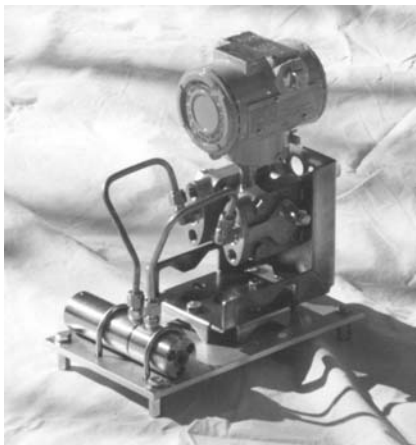
Calibration

Fluids: Low viscosity liquids & gases including steam

Capacity: 1/4” to 2” line sizes (<50cc/min and greater)

Pressure: to 500 psiG (3.4 MPa) typical, higher available

Temperature: Cryogenic to 248 F (120 C) typical, higher available



Instrumentation \* Controls \* Systems \* Design \* Fabrication