

InFLOW, INC.

1525 Skyline Lane * Longmont, CO 80501 * TEL/FAX: 303.652.0444 * <http://inflowinc.com>

QueTran DISK FLOW METERS

The *QueTran Disk flow meter* is offered for a wide variety of industrial liquid services. The *QueTran* Disk flow meter is a unique device that offers significant advantages over traditional flow meters such as turbine, or paddle wheel. *QueTran* operates by linking the dynamic motion of the liquid tangentially to a bladeless disk through viscous friction. Two models are offered; an inline version in sizes 1/4" and larger, and an insertion style for larger lines (1 1/2" and larger). Both models use high quality man-made sapphire bearings with a solid carbide rotating shaft.



- Inline:**
- No straight run required**
 - Low to moderate flow rates**
 - Cost effective, great for OEM applications**
 - Wide materials choice for fluid compatibility**
 - Application specific options available**
- Insertion:**
- Lines sizes from 1 1/2", one size fits all**
 - Moderate to high flow rates**
 - Cost effective, great for OEM applications**
 - No special fittings required**
 - Application specific options available**

In the inline version; liquid is introduced into the body through an inlet nozzle tube. This nozzle tube accelerates and directs the fluid in a tangential manner. In the insertion version; the sensor is placed generally in the center of the pipe to pick up the available velocity. Imbedded within the disk are a number of magnetic stainless steel pins. These pins provide a "trigger" to systematically induce a small voltage in the pickup coil. This sinusoidal voltage is then amplified for output to readout electronics.

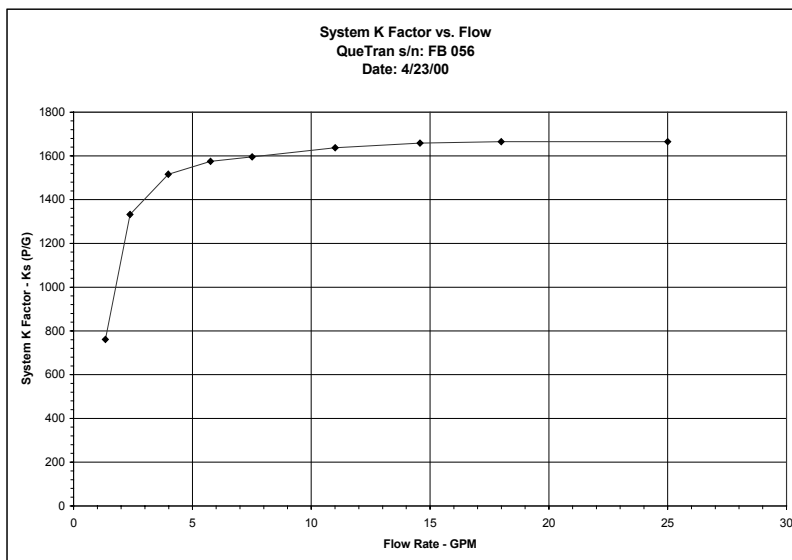
Instrumentation * Controls * Systems * Design * Fabrication

Typical output is a frequency pulse (TTL compatible) for direct connection to PLC, PC, or other readout. Analog and other options are also available including our **Qsmart II Flow Processor**. The Qsmart II Flow Processor can include built in temperature compensation for mass flow compensation or BTU (energy) measurement. Qsmart II also linearizes the output for greater range and accuracy.

TYPICAL SPECIFICATIONS:

- Applications: Pilot plant / Laboratory / Blending
 Diesel fuel / BFW / Condensate
 BTU / HVAC / Energy Management
 General process
- Fluids: Low viscosity liquids (<5 cP)
- Line Size: Inline: 1/4" – 2"
 Insertion: 1 1/2" & larger, CF for details
- Capacity: Inline: <200cc/min and greater
 Insertion: <1fps (0.3 M/s) velocity to 30 fps (9.1 M/s)
- Pressure: to 300 psiG (2.0 MPa) typical, higher available
- Temperature: -40 to 225 F (107 C) typical, higher available
- Accuracy: <1% FS standard, 1% Reading available
- Repeatability: 0.75% Reading typical
- Wetted Parts: Body – A360 Brass
 Disk – TFE, Polypropylene, PVC
 Bearings – spring loaded man-made Sapphire
 Shaft – Tungsten carbide
 Seal – Inline: compatible o-ring, Insertion: double ferule metal seal
 Materials options: CF

TYPICAL PERFORMANCE on Water:



Represented By: