

the
genius
of
simplicity



SPECIFICATIONS

| | |
|----------------------------|---|
| Materials of Construction: | 316 Stainless Steel |
| Body Seals: | Teflon® |
| Maximum Working Press: | 1440 psi |
| Maximum Working Temp: | 450° F |
| Process Connections: | 1/8" NPT Female |
| Accuracy: | ± 1-1/2% of setpoint |
| Repeatability: | ± 1/2% of setpoint |
| Rangeability: | 50:1 turndown |
| Response time: | 1 to 2 seconds |
| Flow Range: | 0.01–0.5 GPM (Water) 0.1–5 SCFM (Air) @ 100 psi inlet |

Teflon® is a registered trademark of Dupont Corporation.

THE NEW KATES MICRO-FLO

For more than 50 years, the W. A. Kates Company has been producing high quality, low maintenance, purely mechanical flow rate controllers. These products have been applied successfully throughout industry for a wide variety of liquid and gas applications. Our motto "To serve our Customers as we desire our suppliers to serve us" exemplifies our commitment to quality and service.

HOW IT WORKS

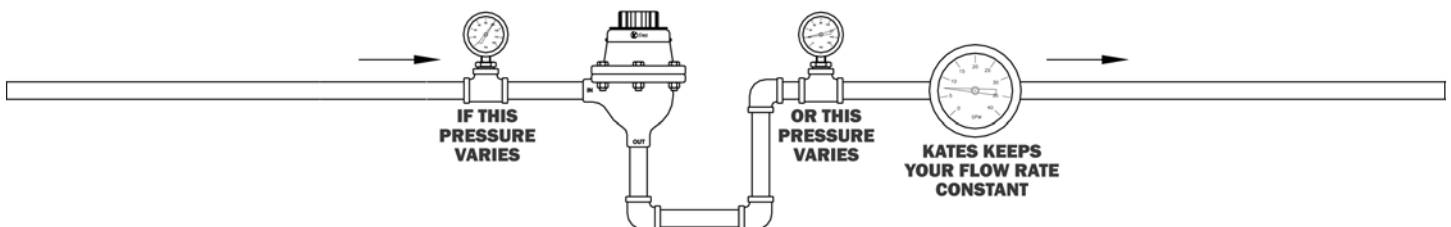
The Micro-Flo combines a characterized needle valve with an internal differential pressure-regulating valve. By controlling the pressure drop across the adjustable orifice, flow rate will always remain constant. Since the control portion is immersed in the fluid it is controlling, response time to pressure variations is immediate and hunting or oscillation is eliminated.

Easily adjust your flow setpoint by turning the micrometer-like needle valve adjustment. Once set, the Micro-Flo will control your flow accurately, regardless of changes in your process.

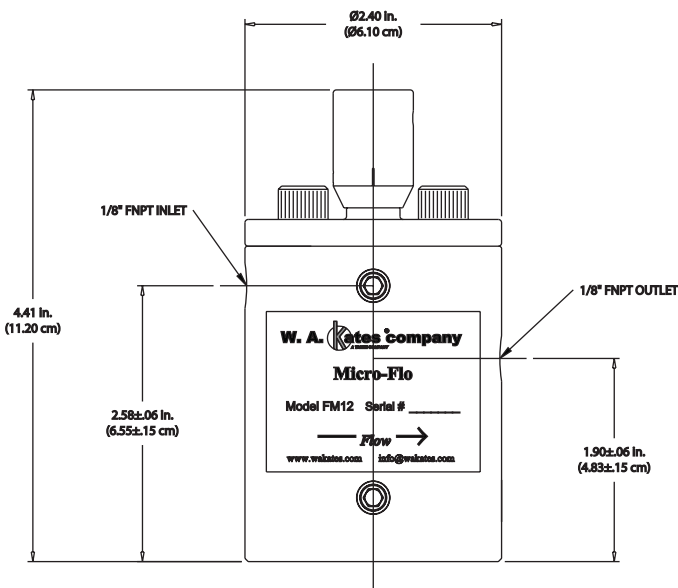
This product is used on chromatographs, mechanical seals, chemical injection, blending systems, instrument purge systems, natural gas, nitrogen generation, and hundreds more... Just set it and forget it!

TYPICAL APPLICATIONS

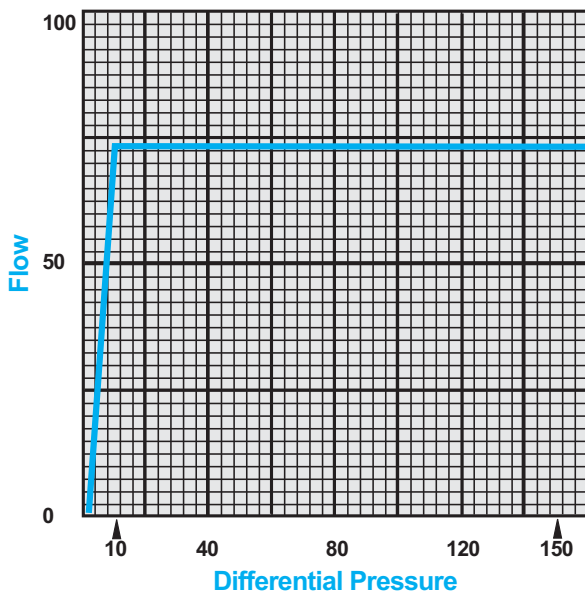
Deionized Water • Rotating Seals • Additives/Blending • Nitrogen Blanketing • Liquid Ring Vacuum Pumps • Oil Well Water Flooding • Natural Gas • Reverse Osmosis • Dynamometers • Ratio Blending • Humidity Control • Heat Exchangers • Cooling Water • Dust Suppression • Aircraft Deicing • Test Cells • Caustics • Acids • Analytical Fast Loops...and hundreds more!



DIMENSIONS



FLOW CHARACTERISTICS

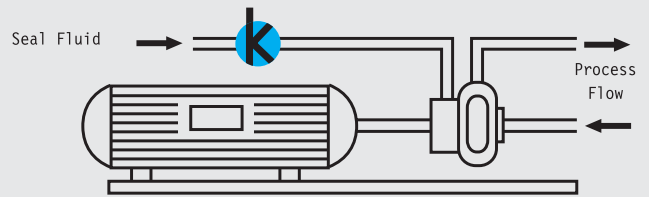


ORDERING INFORMATION

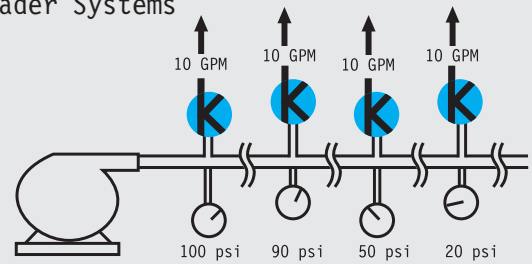
| Size | Model Number | Options |
|------|--------------|----------------|
| 1/8" | FM12 | Liquid Service |
| 1/8" | FM121 | Gas Service |

TYPICAL APPLICATIONS

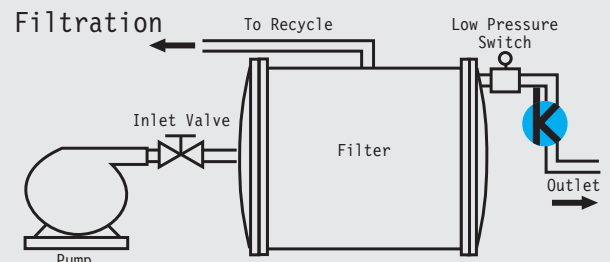
Rotating Seals



Header Systems



Filtration



Blending Systems

