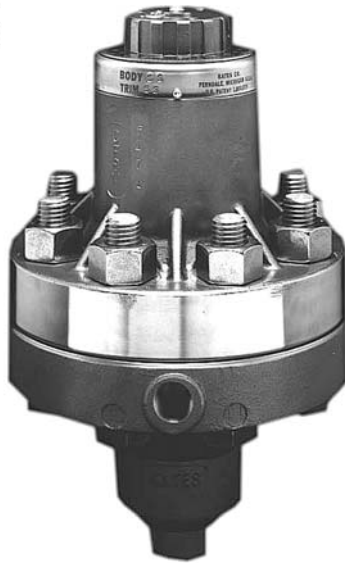


the  
genius  
of  
simplicity



## INSTRUMENT PURGE FLOW REGULATORS

Controls the flow rate to instrument lines to prevent obstructions or to keep corrosive media away from delicate instrumentation.

Some viscous fluids will coagulate and clog instrument lines when not in motion. It is very difficult to clean these lines and even more difficult to service process instruments when this occurs. By keeping a steady purge flow of an inert gas or liquid, you can prevent this from happening.

If your process is corrosive and can damage your instruments over prolonged contact, you can purge these systems with a steady flow and avoid the cost of specialty materials or custom made products.

A Kates flow rate controller will provide accurate instrument purge flow regulation regardless of variations in supply or process pressures. By internally controlling the differential pressure across an adjustable orifice, flow control is maintained to within 1-1/2% of setting. Just set it and forget it.

## SPECIFICATIONS

- Material: 316 stainless steel with Teflon® seals. Other materials are available.
- Sizes: 1/8"–4"
- Flow Ranges: Ranges from as low as 0.01 gpm to as high as 600 gpm
- Max Pressure: Up to 5000 psi
- Max Temperature: 450° F
- Accuracy: ± 1-1/2% of setpoint
- Repeatability: ± 1/2% of setpoint
- Response time: 1-2 seconds
- Turndown ratio: 25 to 1 (average)
- Connections: FNPT or ANSI flanged
- Other: NACE, Nuclear, ANSI, and other standards of traceability are available. Specials are available. Contact factory for details.
- Note:

## OTHER APPLICATIONS

Water injection for oil fields, Glycol / Water blending, Temperature control, NOX water injection, Blending systems, Aircraft de-icing, Natural gas, Filtration systems, Pump seals, Hydrogen systems, Nitrogen blanketing, Automated hydraulic cylinder speed control, Stain blocker coatings of fabrics, and hundreds more.

## FOR MORE INFORMATION

Call (248) 435-8225 or visit W.A. Kates Company on the Internet at [www.wakates.com](http://www.wakates.com).

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