W.A. Kates® company

the genius of simplicity

I/Q Valve - Controls Flow Proportional to Current Input

Regardless of pressure fluctuations, the Kates I/Q valve will control the flow rate proportional to the 4 - 20 mA input. Flow output is perfectly linear to signal input. By internally controlling the differential pressure across an adjustable orifice, flow control is maintained to within 1-1/2% of setpoint.

Each valve is custom built to customer specifications and application requirements. The I/Q valve is shipped completely assembled and tested and requires no field calibration. It is provided with flow data for field personnel to tune their instruments to the I/Q output. The valve is flow tested at 33 different operating settings to insure accuracy of the system.

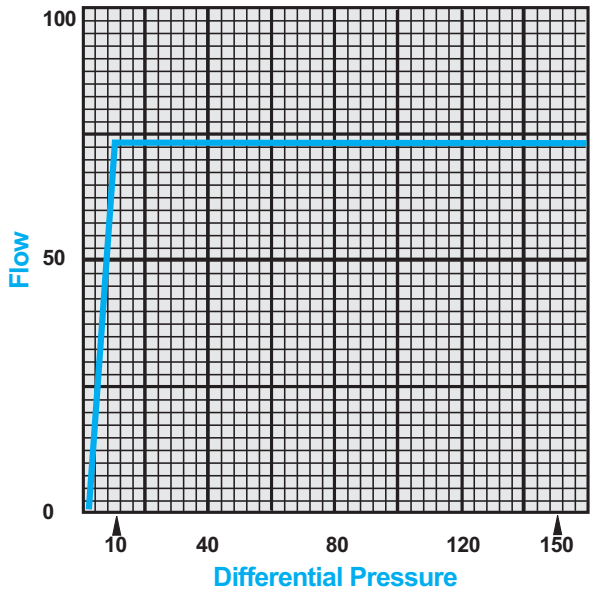
Specifications

Material:	316 stainless steel with Teflon seals. Other materials are readily available.
Flow Ranges:	Ranges from as low as 0.02 gpm to as high as 600 gpm
Max Pressure:	3600 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
Operator:	Either Nema IV or Nema VII enclosures (standard).
Note:	Specials are available. Contact factory for details.

Typical Applications

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

Flow Characteristics



For More Information

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

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