



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.

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.

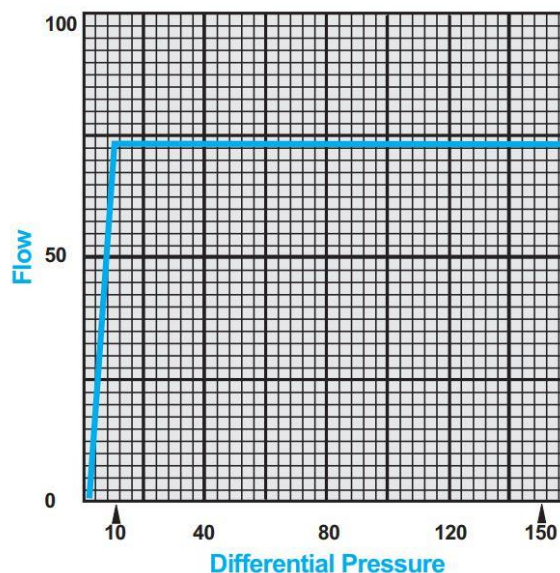
SPECIFICATIONS

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.

FOR MORE INFORMATION

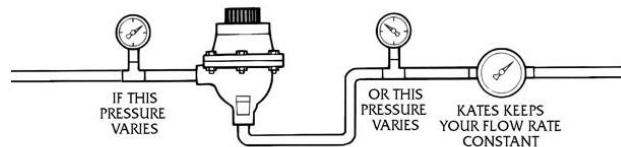
Call (248) 435-8225 or visit Custom Valve Concepts on the Internet at www.customvalveconcepts.com

FLOW CHARACTERISTICS



Actuators

PART #	NEMA RATING	POWER SOURCE	INPUT SIGNAL	FEEDBACK			SIGNAL
				TRANS. 4-20mA	DUAL POT	HEATER	
HA01	4/7	120 VAC	4-20 mA				ANALOG
HA02	4/7	120 VAC	4-20 mA	X			ANALOG
HA03	4/7	12 VDC	4-20 mA				ANALOG
HA04	4/7	24 VDC	4-20 mA	X			ANALOG
HA06	4/7	24 VDC	0-5 VDC	X	X	X	ANALOG
HA07	4/7	24 VDC	4-20 mA	X			ANALOG
HA08	4X	120 VAC	4-20 mA	X			ANALOG
HA09	4/7	120 VAC	4-20 mA			X	ANALOG
HA10	4/7	220 VAC	4-20 mA				ANALOG
HA11	4/7	220 VAC		X			DIRECT
HA12	4/7	120 VAC	4-20 mA	X			DIGITAL



"Just Set It and Forget It!"