



I/Q Actuated Flow Controller



ACTUATION FOR REMOTE POSITIONING

The Automated Kates Flow Control Valve will improve the performance of almost any control loop.

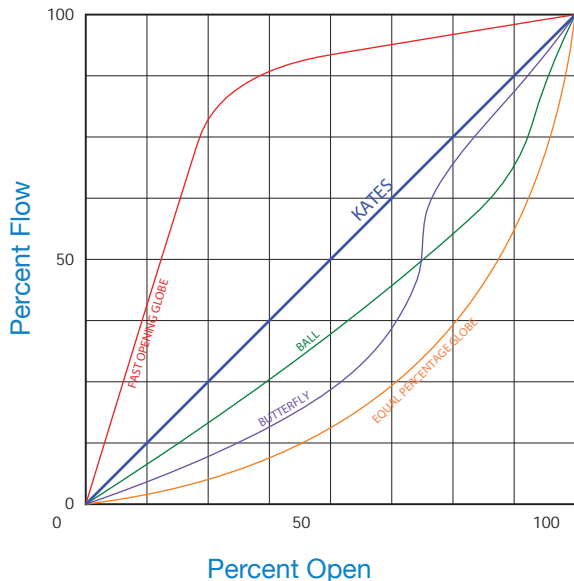
Regardless of pressure fluctuations, the Kates will control the flow rate proportional to the 4-20 mA input. Flow output is perfectly linear to signal input.

By internally maintaining a constant differential pressure across a metered orifice, flow control is maintained to within 1½% of set point.

A variety of electric and pneumatic actuation control signals are available.

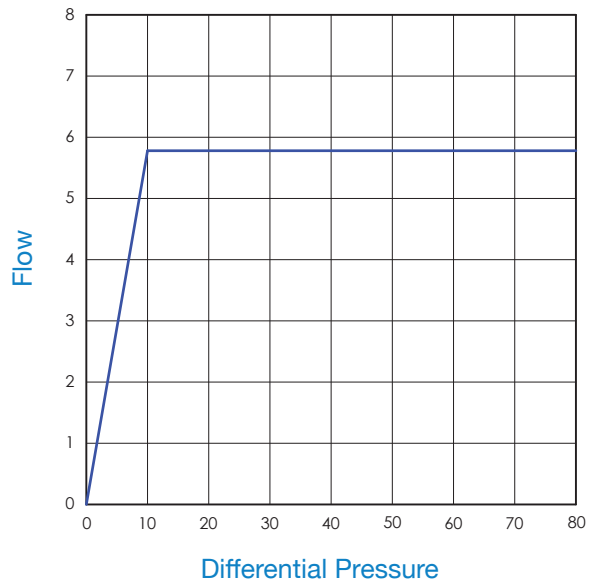
LINEARITY

Flow is directly proportional to the arcuate orifice opening. Each degree of opening is equal in change of flow volume across the entire flow range. Linearity can minimize hunting when maintaining or changing the flow setting.



FLOW CHARACTERISTICS

Control Set Point is maintained provided there is a minimal differential pressure of 10psi between the inlet and the outlet of the unit. Kates Flow Controllers are capable of taking large pressure drops



For additional information refer to www.CustomValveConcepts.com or contact us at:

Custom Valve Concepts
31651 Research Park Drive
Madison Heights, MI 48071

E-MAIL: info@customvalveconcepts.com | PH: 248-597-8999 | FX: 248-597-8998





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SPECIFICATIONS

Line Size	:	½" - 4"
Flow Range (GPM Water)	:	0.02 - 550
Max Working Pressure (PSIG)	:	5,000
Materials of Construction	:	316 S.S, Hastelloy, Monel, Alloy 20, Other
Connections	:	FNPT, RTJ, RF, Tri-Clamp, Other
Accuracy (± Set Point)	:	± 1½%
Repeatability	:	± ½%
Turndown Ratio	:	30:1
Other	:	Special material available upon request.

TYPICAL APPLICATIONS

- Mechanical Seal Lubrication
 - Continuous Casting
 - Instrumentation Purge
 - Hydrocracking
 - Dewaxing
 - Desulphurization
 - Heat Exchangers
 - Aircraft De-icing
 - Sodium Hypochlorite Injection
 - Header Systems
 - Reverse Osmosis Systems
 - High Purity Silicon Chip Manufacturing
 - Rotating Seals
 - Ratio Blending
 - Nitrogen Blanketing
 - Dynamometers
- Please inquire for our experience in your specific application.

MODEL VARIATIONS

PART #	NEMA RATING	MODEL	POSITIONER	POWER SOURCE	INPUT SIGNAL	FEEDBACK TRANS.	DUAL POT	HEATER
HA01	4X	S92	AMC-100A	120 VAC	4-20 mA			
HA02	4X	S92	AMC-100A	120 VAC	4-20 mA	X		
HA03	4X	S92	DMC-102	24 VDC	4-20 mA			
HA04	4X	S92	DMC-102	24 VDC	4-20 mA	X		X
HA06	4X	S92	DMC-102	24 VDC	0-5 VDC	X	X	
HA07	4X	S92	DMC-102	24 VDC	4-20 mA	X		
HA08	4X	B94	DHC-100	120 VAC	4-20 mA	X		
HA09	4X	S92	AMC-100A	120 VAC	4-20 mA			X
HA10	4X	S92	AMC-100C	220 VAC	4-20 mA	X		
HA11	4X	S92		120 VAC				
HA12	4X	S92	DHC-100	120 VAC	4-20 mA	X		
HA13	4X	B94	DHC-400	24 VDC	4-20 mA	X		
HA15	4X	S92	DHC-400	24 VDC	4-20 mA	X		



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