



# iQ Electronic Flow controller

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The iQ Electronic Flow Controller is a highly precise and stable solution for applications requiring exceptional accuracy and repeatability. It delivers consistent flow control with a linearity of approximately 0.99% and repeatability below 0.25%. With a resolution under 25mV and accuracy within  $\pm 2\%$  of full scale, it can be tailored to meet specific flow needs. The controller responds swiftly to signal commands in under 120 milliseconds, ideal for dynamic operations. The 100:1 turndown ratio enables fine control even at low flow rates. Operating on 20-30VDC, it accepts 0-5V, 0-10V, and 0-20mA signals, offering accuracy and reliability.

### System performance:

Linearity	<1%
Accuracy	< $\pm 1.5\%$
Repeatability	<0.25% of reading
Response Time	<50ms
Resolution	<25mV
Turndown ratio	100:1
Operating pressure range	20-100PSI
Flow range	0-6 SLPM

### Electrical:

Supply voltage	24-30VDC
Command signal	0-5V, 0-10V, 0-20mA
Electrical connector	8-pin D connector
Max current required	300mA
Reverse Polarity protection	Yes
Power Indicator	Yes

### Mechanical:

Valve type	Normally closed proportional
Sensor technology	Thermal D
Dimensions	4.20 x 2.50 x 2.13
Porting	1/8" NPT
Wetted materials	Valve: 200 series SS 300 series SS Manifold: Anodized Aluminum
Media	Air, gasses*
Seal Material	FKM
Operating Temp range	32-120°F[0-49°C]
Filtration	40 micron(recommended)

\* contact iQValves for more details

### Features:

- Ideal for industrial applications needing high accuracy and repeatability.
- Ensures quick, precise, and stable flow control.
- High resolution (<25mV) for precise adjustments.
- Reverse polarity protection and overcurrent protection for enhanced control board safety.

