R230 High Flow Precision Regulator

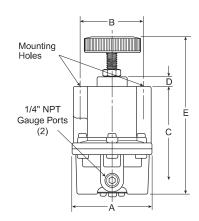






Features

- · Adjusting Knob.
- Diaphragm Design for Good Repeatability, Response and Sensitivity
- · Balanced Poppet
- · Two Full Flow Gauge Ports
- Precise Regulation. Will Sense a Decrease in Downstream Pressure as Small as 1/4" of Water Column (0.010 PSIG)
- High Flow Capacity. Flows of 80 SCFM Attainable with Minimal Drop
- Stable Output. Dampening Action of Aspiration Tube makes Regulator Insensitive to Changes in Flow
- On-line Maintenance. Can be Serviced Without Removal of Air Line



The R230 is designed for applications that require high flow capacity and accurate process control. A poppet valve which is balanced by utilizing a rolling diaphragm, insures a constant output pressure even during wide supply pressure variations. Stability of regulated pressure is maintained under varying flow conditions through the use of an aspirator tube which adjusts the air supply in accordance with the flow velocity.

Applications

The R230 regulators are an ideal choice for any application that calls for accurately maintained output pressure under high flow conditions. This includes, but is not limited to such applications as:

Test Equipment

- · Gas Mixing
- · Valve Operators
- Positioning Cylinders
- · Laboratory Equipment
- · Web Tensioning
- · Clutch & Brake Controls
- · Roll Loading
- Test Panels
- Actuators

R230 Regulator Dimensions				
A	В	С	D	E
3.00	2.25	3.40	0.38	6.06
(76)	(57)	(86)	(10)	(154)

inches (mm)

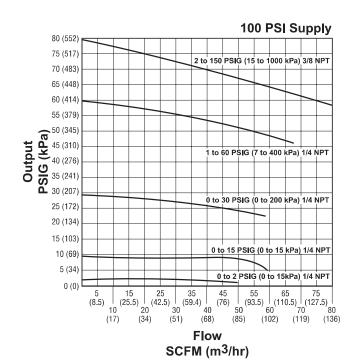
Ordering Information

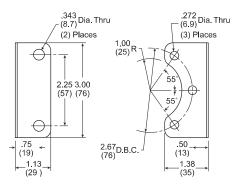
	Reduced Pressure Range (PSIG)				
Relieving	Port Size	0 to 2	0 to 30	0 to 60	0 to 150
In / Out Dorto	1/4"	R230-02E	R230-02B	R230-02C	R230-02D
In / Out Ports	3/8"	N/A	R230-03B	R230-03C	R230-03D



High Flow Precision Regulators

Technical Information





Mounting Bracket: 446-707-025

⚠ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

⚠ CAUTION:

REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

R230 Regulator Kits & Accessories

Mounting Bracket Kit	446-707-025
Service Kits – Relieving	
0 to 2 PSIG	RKR230E*
0 to 30 PSIG	RKR230B*
0 to 60 PSIG	RKR230C*
0 to 150 PSIG	RKR230D*
* Parts in Kit: Diaphragm, Poppet, O-ring	

Specifications

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Constant Bleed Rate	1.0 to 12.5 SCFH
(Depending upon output pressure)	
Gauge Ports	Two Ports 1/4"

(Can be used as additional Full Flow 1/4 Inch Outlet Ports)

Effect of Supply Pressure Variation -

Less than 0.1 PSIG for 100 PSIG (6.89 bar) change

Exhaust (Relief) Capacity -

4 SCFM with downstream pressure 5 PSIG above set pressure. ... Exhaust commences at 0.01 PSIG above set pressure.

Flow Capacity -

Operating Temperature Range	40°C	to 71°C
	(-40°F to	160°F)

Operating Pressure Range – PRIMARY – Maximum	PSIG 250	bar 17
Port Threads		1/4"
Exhaust (Relief) Capacity4.0 SCFM (Downstream pressure 5 PSI above set pressure)		
Repeatability / Sensitivity Inches of Water Column = 1/4"	±0.010 PSIG (±0.00	0068 bar)
Response		
Weight	1 lb. 10 oz.	(0.74 kg)
Materials of Construction		
Adjusting Stem & Spring		Steel
Biased Spring	Stainl	ess Steel
Body, Bonnet		Aluminum
Control Knob		Plastic
DiaphragmBuna-N	Elastomer and Polyest	ter Fabric
Seals		Buna-N
Valve Poppet		Brass
Valve Poppet Seat		Buna-N

