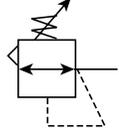


# High Flow Precision Regulator

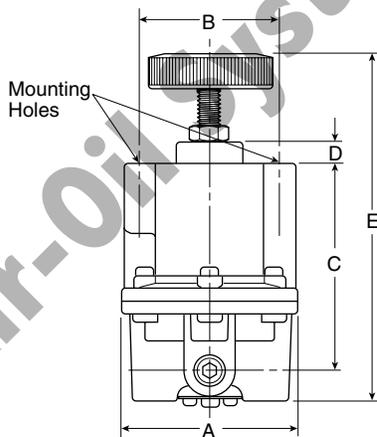
## P19



**P19-02-H00**

### 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.
- 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.



### Dimensions

Models	Inches (mm)	A	B	C	D	E
Standard Unit P19-XX-H00		3.00 (76)	2.25 (57)	3.40 (86)	0.39 (10)	6.06 (154)

= "Most Popular"

### Specifications

Flow Capacity –		
At 100 PSIG (6.89 bar)		
Supply, 80 PSIG (5.5 bar) Outlet	80 SCFM (37.8 dm <sup>3</sup> /s)	
Constant Bleed Rate	1.0 to 12.5 SCFH	
(Depending upon output pressure)		
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.		
Gauge Ports	Two Ports 1/4"	
(Can be used as additional Full Flow 1/4 Inch Outlet Ports)		
Operating Temperature Range –	-40°F to 160°F	
	(-40°C to 71°C)	
Operating Pressure Range –		
	PSIG	bar
PRIMARY – Maximum	250	17
Port Threads	1/4", 3/8"	
Repeatability / Sensitivity	±0.010 PSIG (±0.00068 bar)	
Inches of Water Column = 1/4"		
Response	250 ms	
The valve will open to full flow and fill a volume of 1250 cm <sup>3</sup>		
Weight	1lb. 10 oz. (0.74 kg)	

### Materials of Construction

Adjusting Stem & Spring	Steel
Biased Spring	Stainless Steel
Body, Bonnet	Aluminum
Control Knob	Plastic
Diaphragm	Buna-N Elastomer and Polyester Fabric
Seals	Buna-N
Valve Poppet	Brass
Valve Poppet Seat	Buna-N

The P19 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.

 = "Most Popular"

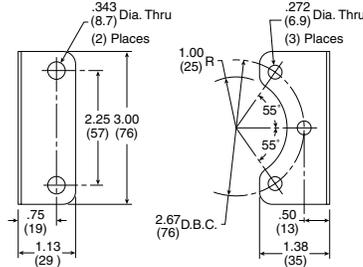
**Regulator Kits**

**Service Kits – Relieving**

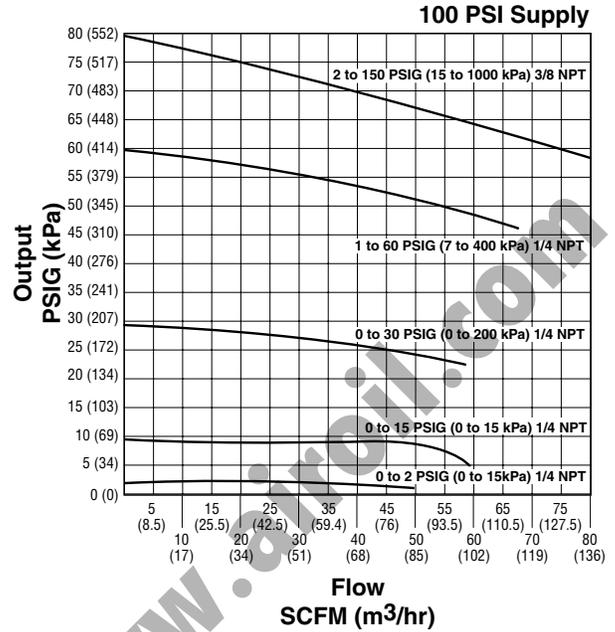
- 0 to 2 PSIG ..... RKR230E
- 0 to 30 PSIG ..... RKR230B
- 0 to 60 PSIG ..... RKR230C
- 0 to 150 PSIG ..... RKR230D

**Accessories**

**Mounting Bracket Kit** ..... 446-707-025



**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.

**Applications**

The P19 regulator is 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

**Ordering Information**

Relieving		Reduced Pressure Range (PSIG)			
		0 to 2	0 to 30	0 to 60	0 to 150
In / Out Ports	1/4 Inch	P19-02-A00	P19-02-C00	P19-02-D00	P19-02-H00
	3/8 Inch	N/A	P19-03-C00	P19-03-D00	P19-03-H00

