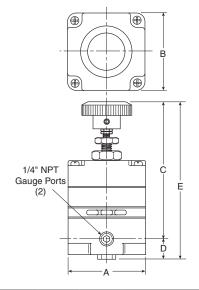
R210 / R220 High Precision Regulator



Features

- Accurate Pressure Regulation Controls Output Pressure to within 0.1% Accuracy
- Multi-Stage Regulation for Maximum Control and Stability
- Two Full Flow Gauge Ports
- Super Sensitive Relief. Downstream Pressure Buildup, Down to 0.005 PSIG Above the Set Pressure, is Automatically Vented through Internal Relief Valve
- R220 has High Exhaust Relief Capacity



R210 / R220 Regulator Dimensions							
Α	В	С	D	E			
2.10	2.16	3.82	0.53	4.35			
(53)	(54)	(97)	(13.5)	(110)			

inches (mm)



The R210 / R220 are high precision,

This pressure controller provides the

repeatability available and is ideal for

applications that call for the utmost in

control and maximum stability under

A stainless steel measuring capsule is

used as a sensing element to activate the high gain servo balanced control

mechanism in which the main valve is

controlled by a pilot valve. This allows

for greater accuracy and eliminates many of the problems associated with

conventional regulators using range

variable operating conditions.

highest level of regulation accuracy and

multi-stage pressure regulators.

Applications

The R210 and R220 regulators are well suited for any process that requires very precise regulation of air pressure in pipes and vessels. These regulators are often used, but not limited to the following applications:

- Air Gauging
- Gas Mixing
- · Calibration Standards
- Air Hoists
- Web Tensioning
- · Gate Actuators
- · Roll Loading
- Valve Operators
- Cylinder Loading

Ordering Information

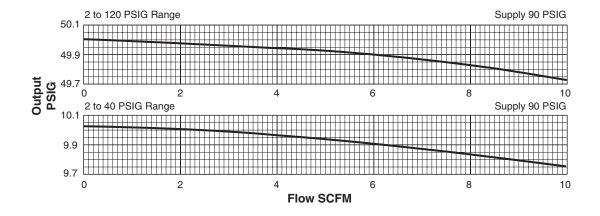
springs and diaphragms.

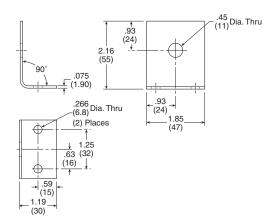
	Reduced Pressure Range (PSIG)				
Relieving		2 to 40	2 to 120	2 to 120 High Relief	
In / Out Ports	1/4"	R210-02A	R210-02C	R220-02C	



High Precision Regulators

Technical Information





Mounting Bracket: 446-707-045

⚠ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

CAUTION:

Operating Pressure Range:

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.

PSIG

bar

R210 / R220 Regulator Kits & Accessories

Mounting Bracket Kits – Pipe Mounting (Pair)	
Service Kits – 2-40 PSIG	RKR210C*
Specifications	
Constant Bleed RateLess than 0.0 (Equals Bleed Rate plus other consumption)	08 SCFM (0.15m ³ /hr)
Total Air Consumption	6 SCFH (0.21m ³ /hr.)
Effect of Supply Pressure Variation of 25 PSIG Less than 0.005 PSIG (0.0003 bar)	(1.7 bar) on Outlet:
Exhaust (Relief) Capacity – At 5 PSIG (0.34 bar) above 20 PSIG (1.38 bar) Standard Model	3 SCFM (3.4m3/hr)
Flow Capacity – At 100 PSIG (6.89 bar) Supply,	14 COEM (OF 122 3/lp 12)

20 PSIG (1.38 bar) Outlet...... 14 SCFM (25m³/hr)

(Can be used as additional full flow 1/4" outlet ports)

3 3					
ım	150	10.34			
ing Pressure Minimum Maximum	2 40	0.14 2.76			
Minimum Maximum	2 120	0.14 8.27			
Operating Temperature Range18°C * to 65°C (0°F* to 150°F) * Temperatures below 0°C (32°F) require moisture free air.					
Repeatability / Sensitivity					
		1.4 lb (0.64 kg)			
Materials of Construction					
Capsule		Stainless Steel			
BodyZinc					
Control KnobPlast					
Diaphragm(s)B					
		Buna-N			
		Stainless Steel			
		Stainless Steel			
	ing Pressure Minimum Maximum Minimum Maximum ture Range w 0°C (32°F) require itivity	ing Pressure Minimum 2 Maximum 40 Minimum 2 Maximum 120 ture Range18°C * to 65°C w 0°C (32°F) require moisture free air sitivity			

