

## R20 & R21 QIX Regulators



### Features

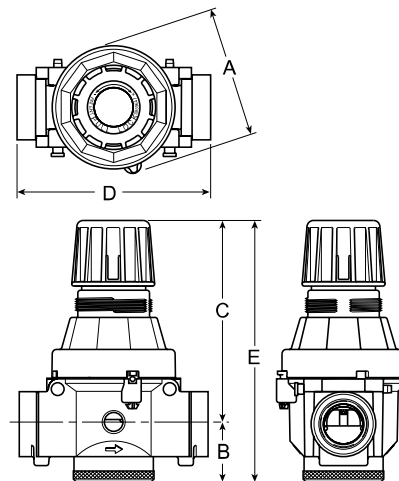
- Unique Interchangeable QIX Inserts Allow One Module to Accommodate 5 Port Sizes 1/4", 3/8", 1/2", 3/4", 1"
- Piston Operated for High Flow Performance
- Secondary Aspiration Plus Balanced Poppet Provides Quick Response and Accurate Pressure Regulation
- Panel Mountable
- High Flow: 250 SCFM for 3/4" & 1" Port Sizes

### R20 Features

- Push-to-Lock, Pull-to-Adjust, Remove-for-Tamper-Resistant Knob Feature

### R21 Features

- Heavy Duty Tee Handle Adjustment



R20 / R21 Regulator Dimensions					
A	B	C	D*	D**	E
<b>R20</b>					
3.03 (77)	.75 (86)	4.70 (119)	3.50 (89)	4.50 (114)	6.10 (155)
<b>R21</b>					
3.03 (77)	.75 (86)	5.58 (142)	3.50 (89)	4.50 (114)	6.33 (161)

inches (mm)

\* 1/4 thru 3/4 Inch Port Insert Size

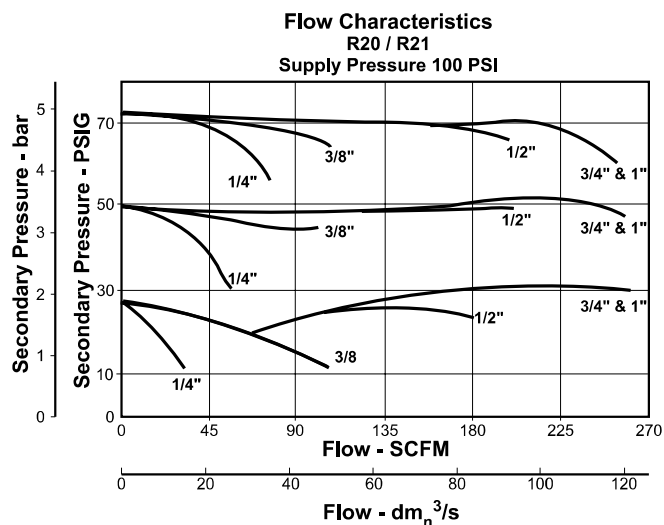
\*\* 1 Inch Port Insert Size

## Ordering Information

<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"><b>R</b></div> <div style="border: 1px solid black; padding: 5px; text-align: center;"><b>20</b></div> <div style="border: 1px solid black; padding: 5px; text-align: center;"><b>—</b></div> <div style="border: 1px solid black; padding: 5px; text-align: center;"><b>00</b></div> <div style="border: 1px solid black; padding: 5px; text-align: center;"><b>C</b></div> <div style="border: 1px solid black; padding: 5px; text-align: center;"><b>/**</b></div> </div>					
<b>Adjustment Type</b> <div style="border: 1px solid black; padding: 2px;">20 Knob</div> <div style="border: 1px solid black; padding: 2px;">21 Tee-Handle</div>	<b>Port Threads</b> <div style="border: 1px solid black; padding: 2px;">— NPT</div> <div style="border: 1px solid black; padding: 2px;">G* BSPP</div> <p><small>*If ordering BSPP Port Inserts Separately - Order "G00" Unit</small></p>	<b>Port Size</b> <div style="border: 1px solid black; padding: 2px;">00 No Port Inserts</div> <div style="border: 1px solid black; padding: 2px;">02 1/4 Inch</div> <div style="border: 1px solid black; padding: 2px;">03 3/8 Inch</div> <div style="border: 1px solid black; padding: 2px;">04 1/2 Inch</div> <div style="border: 1px solid black; padding: 2px;">06 3/4 Inch</div> <div style="border: 1px solid black; padding: 2px;">08 1 Inch</div>	<b>Reduced Pressure</b> <div style="border: 1px solid black; padding: 2px;">B 0-60 PSIG</div> <div style="border: 1px solid black; padding: 2px;">C 0-120 PSIG</div> <div style="border: 1px solid black; padding: 2px;">D 0-250 PSIG</div>	<b>Options</b> <div style="border: 1px solid black; padding: 2px;">P Panel Mount Nut (Plastic)</div> <div style="border: 1px solid black; padding: 2px;">G Gauge</div> <div style="border: 1px solid black; padding: 2px;">K Non-Relieving</div>	<b>Engineering Change Designator</b> <div style="border: 1px solid black; padding: 2px;">Will be entered at factory.</div>

**BOLD ITEMS ARE MOST POPULAR.**

## Technical Information

**⚠ 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.

**QIX R20 & R21 Kits & Accessories**

**Combination Connector** .....IK20CC  
(Connects 2 QIX units together)

**Combination Porting Block** ..... IK20CP  
(same as IK20CC, except with 1/8" top branch outlet)

**Mounting brackets (pair)** .....MK20-0100  
(Mounts directly to port inserts)

**Wall Mounting Bracket** .....SAR10A57  
(Uses panel mount threads - includes plastic panel mount nut)

**Panel Mount Nut –**  
Plastic .....R10X51-P  
Aluminum .....R10X51-A

**Port Insert Kits (includes o-rings & pins) NPT –**  
1/4" Port Size .....IK20Y  
3/8" Port Size .....IK20X  
1/2" Port Size .....IK20A  
3/4" Port Size .....IK20B  
1" Port Size .....IK20C

**Repair Kit - Internal Parts (Piston, Innervalue, Seals)**  
Relieving ..... RKR20A  
Non-Relieving (K) ..... RKR20KA

**Spring Cage Kit –**  
R20 ..... CKR20A  
R21 ..... CKR21Y

**Shut-off Valve w/lockout (for inlet)** .....IK20V

**Specifications**

**Gauge Ports** ..... (2) 1/4"

**Maximum Pressure** ..... 300 PSIG

**Port Threads / Inserts –**

00 ..... No Port Inserts  
02 ..... 1/4"  
03 ..... 3/8"  
04 ..... 1/2"  
06 ..... 3/4"  
08 ..... 1"

**Reduced Pressure Range –**

"B" ..... 0-60 PSIG  
"C" ..... 0-120 PSIG  
"D" ..... 0-250 PSIG

**Temperature Range** ..... 40°F to 150°F

**Weight** ..... 2.6 lb  
(For total weight add .1 lb for port inserts)

**Materials of Construction**

**Adjusting Knob** ..... (R/B 20) Acetal  
**Adjusting Screw (all)** ..... Steel  
**Body** ..... Zinc  
**Bottom Plug** ..... Brass  
**Innervalue** ..... Brass  
**Piston** ..... Nylon  
**Seals** ..... Buna-N  
**Spring Cage** ..... Zinc  
**Springs** ..... Steel  
**Thread Inserts** ..... Zinc