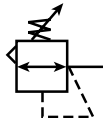


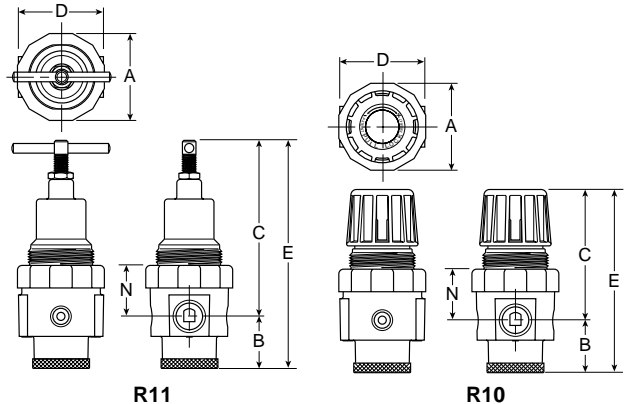
R10 / R11 General Purpose Regulators

B



Features

- High Flow Performance
Featuring Rugged Design for the Most Demanding Applications
- Diaphragm Operated Design with Balanced Poppet Design for Quick and Accurate Regulation
- Accurate Pressure Regulation
- Panel Mountable
- High Flow: 1/4" - 80 SCFM[§]
3/8" - 80 SCFM[§]
1/2" - 100 SCFM[§]
- **R10**: Push-to-Lock, Pull-to-Adjust. Adjusting Lock is engaged when Knob is Removed Rendering Unit Tamper Resistant
- **R11**: Heavy Duty Tee Handle Adjustment



| Port Size | R10 NPT | R11 NPT |
|--|------------------|------------------|
| | Relieving | Relieving |
| Without Gauge 0-125 PSIG Reduced Pressure | | |
| 1/4" | R10-02C | R11-02C |
| 3/8" | R10-03C | R11-03C |
| 1/2" | R10-04C | R11-04C |
| With Gauge 0-125 PSIG Reduced Pressure | | |
| 1/4" | R10-02CG | R11-02CG |
| 3/8" | R10-03CG | R11-03CG |
| 1/2" | R10-04CG | R11-04CG |

| R10 Regulator Dimensions | | | | | |
|---------------------------------|--------------|---------------|--------------|---------------|--------------|
| A | B | C | D | E | N |
| R10 | | | | | |
| 2.25 (57) | 1.40 (36) | 3.38 (86) | 2.33 (59) | 4.78 (121) | 1.38 (35) |
| R11 | | | | | |
| 2.25 (57) | 1.40 (36) | 4.72 (120) | 2.33 (59) | 6.13 (156) | 1.38 (35) |

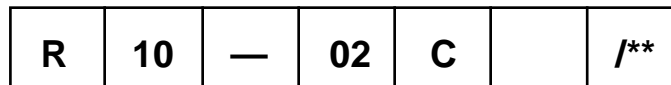
inches
(mm)
 NOTE: 1.75 Dia. (44mm) hole required for panel mounting.

Bold items are most popular.

For other models refer to ordering information below.

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 75 PSIG no flow secondary setting, and 20 PSIG pressure drop.

Ordering Information



| Series |
|---|
| 10 Tamper Resistant, Snap Lock, Removable Knob |
| 11 Tee Handle Adjustment |

| Port Threads |
|--------------|
| - NPT |
| G BSPP |

| Port Size |
|--------------------|
| 02 1/4 Inch |
| 03 3/8 Inch |
| 04 1/2 Inch |

| Reduced Pressure Range |
|------------------------|
| A 0-25 PSIG |
| B 0-60 PSIG |
| C 0-125 PSIG |
| D 0-250 PSIG |

| Options |
|---|
| G Gauge |
| K Non-Relieving |
| P Panel Mount Nut |
| X64** Fluorocarbon O-Rings and Diaphragm |
| N Panel Mount Threads at Top of Bonnet (R11 Only) |
| X81** Brass Body |
| X8** Low Temp. Version |
| X7* Brass Bottom Plug |

| Engineering Change Designator |
|-------------------------------|
| Will be entered at factory. |

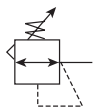
***NOTE:** Beginning January 2008, Brass Bottom Plug is Optional - Nylon is Standard.

** Brass Bottom Plug Standard with X64, X81, and X8 Options.

BOLD ITEMS ARE MOST POPULAR.

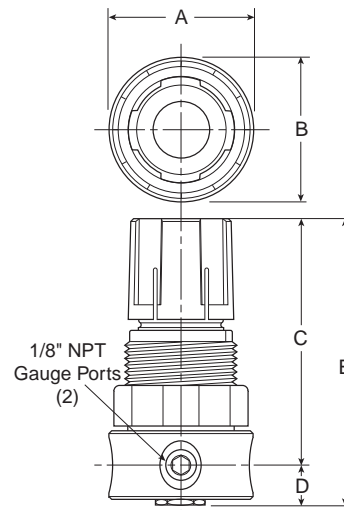


R364, R374 Regulators – Miniature



Features

- High Flow and High Sensitivity
- Constant Bleed Option for Semi-Precision Applications
- Can be Used for Water Service (Non-Relieving)
- Unbalanced Poppet Standard
- Diaphragm Operated for Fast Response
- Non-rising Adjusting Knob
- Stainless Steel Version Available (See Stainless Steel Section of Catalog)
- High Flow: 10 SCFM[§] (Air)
1.25 GPM (Water)



| Port Size | NPT |
|-----------------|-----------------|
| Brass | |
| 1/8" | R364-01C |
| 1/4" | R364-02C |
| Aluminum | |
| 1/8" | R374-01C |
| 1/4" | R374-02C |

| R364, R374 Regulator Dimensions | | |
|---------------------------------|----------------|----------------|
| A | B | C |
| 1.56 (39.7) | 1.56 (39.7) | 2.56 (65.1) |
| D | E | |
| 0.50 (12.7) | 3.06 (77.8) | |

Bold Items are Most Popular.

For other models refer to ordering information below.

NOTE: 1.250 Dia. (31.8mm) hole required for panel mounting.

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 75 PSIG no flow secondary setting and 25% pressure drop.

Inches (mm)

Ordering Information

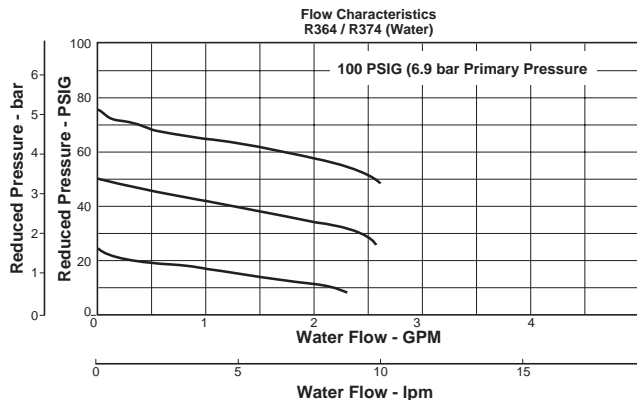
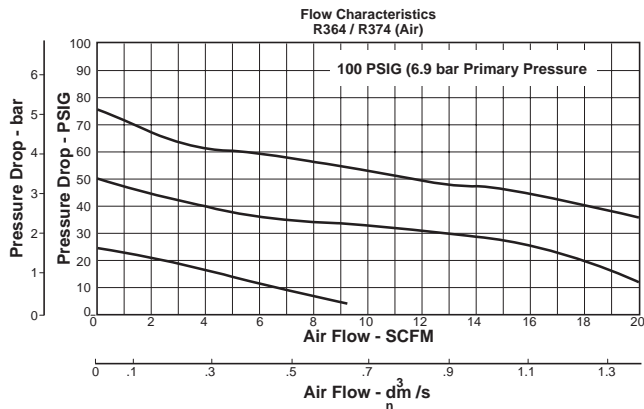


| | | | | | |
|--|--|--|--|---|---|
| Series R364 Brass R374 Aluminum | Port Threads — NPT G BSPP | Reduced Pressure Range A 0-25 PSIG B 0-60 PSIG C 0-125 PSIG | Options G Gauge K Non-Relieving P Panel Mount Nut T Tamperproof X64 Fluorocarbon O-Rings and Diaphragm X42 Constant Bleed Innervalue X21 High Flow Innervalue X10 Max. Pressure Limiting Adjusting Screw X82 Brass Spring Cage / Adjusting Screw | Pressure Preset Options Blank No Options L [†] Preset Non-Adjustable P [†] Preset Adj. Q [†] Preset Tamperproof Adjustable S [†] Pressure Limiter Max. Adjustable T [†] Pressure Limiter Max. Non-Adj. | Engineering Change Designator Will be entered at factory. |
| Port Size 01 1/8 Inch 02 1/4 Inch | | Preset / Pressure Limited Blank None XXX* Preset Pressure XXX* Pressure Limited | | * Available Preset / Pressure Limited Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory. (Example: 065 = 65 PSIG) | |

BOLD ITEMS ARE MOST POPULAR.

[†] Inlet Pressure is 100 PSIG. For other pressures, contact factory.

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.

R364, R374 Regulator Kits & Accessories

- Gauges** – 1-1/2" Dial Size, 1/8" Back Connection
 0 to 60 PSIG (0 to 400 kPa)..... K4515N18060
 1-1/2" Dial Size, 1/8" Back Connection
 0 to 160 PSIG, (0 to 1100 kPa)..... K4515N18160
- Mounting Bracket Kit** SA161X57
 (Includes Panel Mount Nut)
- Panel Mount Nut** – PlasticR05X51-P
 AluminumR05X51-A
- Spring Cage & Knob** CKR364Y
- Spring Cage Kit (Tamperproof)**CKR364T
- Repair Kits –**
Standard Nitrile
 Non-Relieving Diaphragm, Valve Assembly RKR163Y
 Relieving Diaphragm, Valve Assembly RKR164Y
- Flourocarbon**
 Non-Relieving Diaphragm, Valve Assembly RKR164KX64
 Relieving Diaphragm, Valve Assembly RKR164X64

Specifications

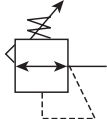
- Gauge Ports (2)**1/8 Inch
- Port Threads**1/8, 1/4 Inch
- Primary Pressure Rating**2 to 125 PSIG (-15 to 8.5 bar)
- Supply Pressure**300 PSIG Maximum (20.4 bar)
- Temperature Rating**40°F to 125°F (4.4°C to 52°C)
- Weight** – Brass Body..... 0.5 lb. (0.23 kg) / Unit
 25 lb. (11.34 kg) / 48-Unit Master Pack
 Aluminum Body..... 0.25 lb. (0.11 kg) / Unit
 15 lb. (6.80 kg) / 48-Unit Master Pack

Materials of Construction

- Adjusting Screw** Steel
- Body** – R364 Brass
 R374 Aluminum
- Springs** – Adjusting Steel
 Bottom..... Stainless Steel
- Spring Cage** Acetal
- Bottom Plug, Innervale, Diaphragm Buttom** Brass



R354, R364 Regulator – Miniature



Features

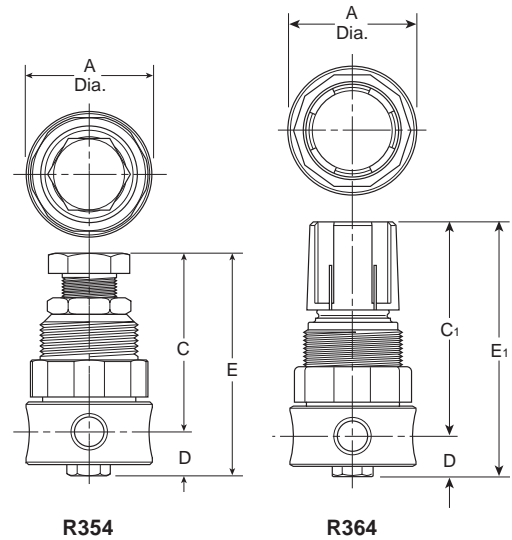
- Stainless Steel Construction Handles Most Corrosive Environments
- Large Diaphragm to Valve Area Ratio for Precise Regulation and High Flow Capacity
- Meets NACE Specifications MR-01-75/ISO 15156
- High Flow: 1/4" – 12 SCFM[§]



R364



R354



| Series | Adjustment Type | Port Size | NPT | BSPP |
|--------|-----------------|-----------|-------------------|------------|
| R364 | Knob | 1/4" | R364-02CSS | R364G02CSS |
| R354 | All Metal | 1/4" | R354-02CSS | R354G02CSS |

| R354, R364 Regulator Dimensions | | |
|---------------------------------|--------------|----------------|
| A | C | C ₁ |
| 1.56 (40) | 2.00 (51) | 2.56 (65) |
| D | E | E ₁ |
| 0.50 (13) | 2.50 (64) | 3.06 (78) |

Standard part numbers shown bold. For other models refer to ordering information below.

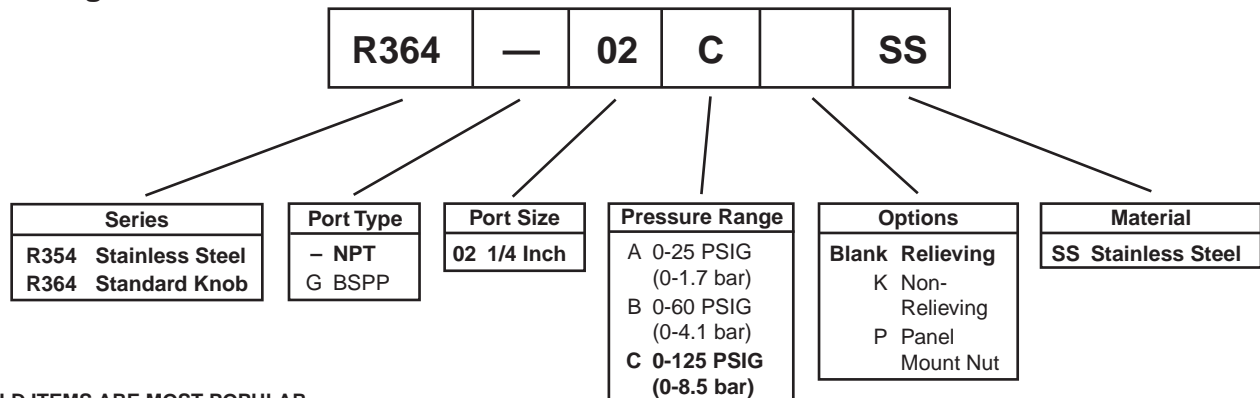
[§] SCFM = Standard cubic feet per minute at 100 PSIG inlet, 75 PSIG no flow secondary setting and 15 PSIG pressure drop.

inches (mm)
 NOTE: 1.25 Dia. (32mm) hole required for panel mounting.

⚠ WARNING

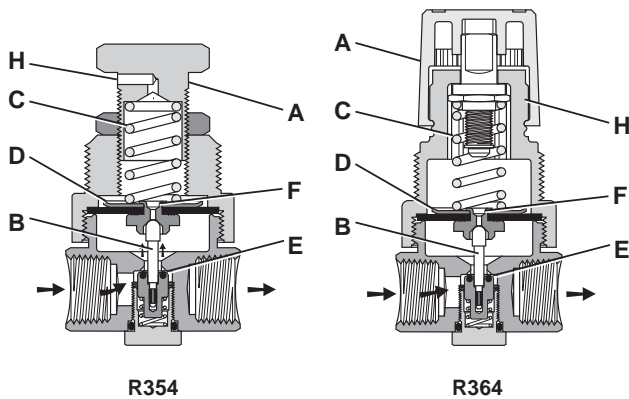
**Product rupture can cause serious injury.
 Do not connect regulator to bottled gas.
 Do not exceed maximum primary pressure rating.**

Ordering Information



BOLD ITEMS ARE MOST POPULAR.

Operation



With the adjusting knob (A) turned fully counter-clockwise (no spring load), and pressure supplied to the regulator inlet port, the valve poppet assembly (B) is closed. Turning the adjusting knob clockwise applies a load to control spring (C). This load causes the diaphragm (D) and the valve poppet assembly (B) to move downward allowing flow across the seat area (E) created between the poppet assembly and the seat. Pressure in the downstream line is sensed below the diaphragm (D) and offsets the load of spring (C). As downstream pressure rises, poppet assembly (B) and diaphragm (D) move upward until the area (E) is closed and the load of the spring (C) and pressure under diaphragm (D) are in balance. A reduced outlet pressure has now been obtained, depending on spring load. Creating a demand downstream, such as opening a valve, results in a reduced pressure under the diaphragm (D). The load of control spring (C) now causes the poppet assembly to move downward opening seat area (E) allowing air to flow to meet the downstream demand. The flow of downstream air is metered by the amount of opening (E).

Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the diaphragm (D) to move upward against control spring (C), open vent hole (F), and vent the excess pressure to atmosphere through the hole in the bonnet (H). (This occurs in the relieving type regulator only.)

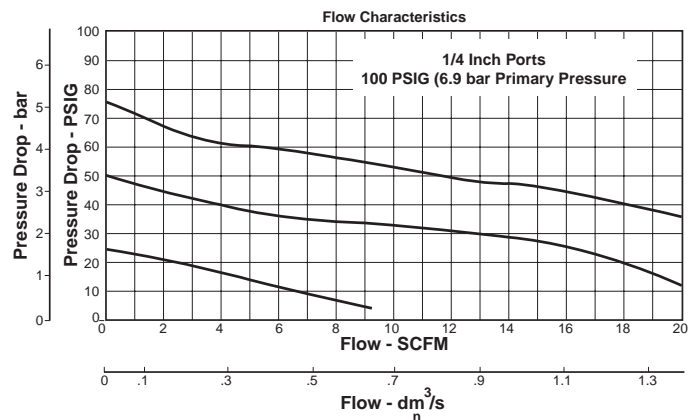
Technical Information

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.



R354, R364 Regulator Kits & Accessories

- R354 Bonnet KitCKR354YSS
- R364 Bonnet Kit (Knob Included)CKR364YSS
- Gauge (Stainless) –
 160 PSIG (0 to 1100 kPa), 1-1/2" FaceK4515N14160SS
- Panel Mount Bracket (Stainless) 161X57-SS
- Panel Mount Nut –
 Stainless R05X51-SS
 PlasticR05X51-P
- Pipe Nipple –
 1/4" 316 Stainless Steel 616Y28-SS
- Service Kit –
 RelievingRKR364YSS
 Non-Relieving RKR364KYSS
- Springs –
 0-25 PSIG RangeSPR-375-2-SS
 0-60 PSIG RangeSPR-376-1-SS
 0-125 PSIG RangeSPR-377-1-SS

- Port Threads1/4 Inch
- Pressure & Temperature Ratings –
 R354 300 PSIG Max (20.7 bar)
 0°F to 180°F (-18°C to 82°C)
 R364 300 PSIG Max (20.7 bar)
 0°F to 150°F (-18°C to 66°C)

Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (0°C).

Weight0.5 lb. (0.23 kg)

Materials of Construction

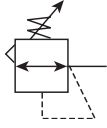
- Adjustment Mechanism / Springs316 Stainless Steel
- Adjusting Knob (R354)316 Stainless Steel
- Adjusting Knob (R364) Polypropylene
- Body316 Stainless Steel
- Bonnet (R354)316 Stainless Steel
- Bonnet (R364) Acetal
- Bottom Plug316 Stainless Steel
- Poppet316 Stainless Steel
- Seals Fluorocarbon

Specifications

- Gauge Port1/4 Inch
- OperationFluorocarbon Diaphragm



R354, R364 Regulator – Miniature



Features

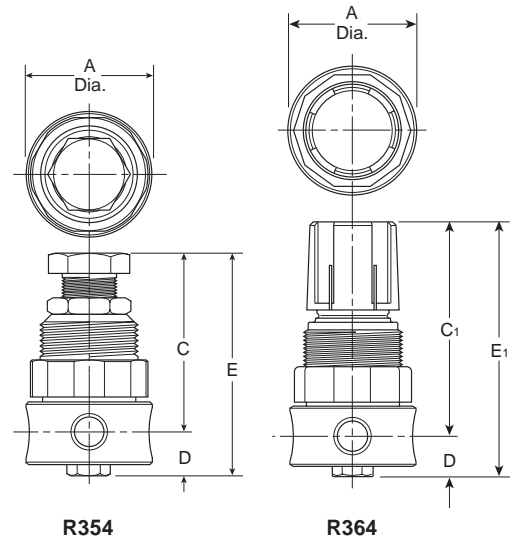
- Stainless Steel Construction Handles Most Corrosive Environments
- Large Diaphragm to Valve Area Ratio for Precise Regulation and High Flow Capacity
- Meets NACE Specifications MR-01-75/ISO 15156
- High Flow: 1/4" – 12 SCFM[§]



R364



R354



| Series | Adjustment Type | Port Size | NPT | BSPP |
|--------|-----------------|-----------|-------------------|------------|
| R364 | Knob | 1/4" | R364-02CSS | R364G02CSS |
| R354 | All Metal | 1/4" | R354-02CSS | R354G02CSS |

| R354, R364 Regulator Dimensions | | |
|---------------------------------|--------------|----------------|
| A | C | C ₁ |
| 1.56 (40) | 2.00 (51) | 2.56 (65) |
| D | E | E ₁ |
| 0.50 (13) | 2.50 (64) | 3.06 (78) |

Standard part numbers shown bold. For other models refer to ordering information below.

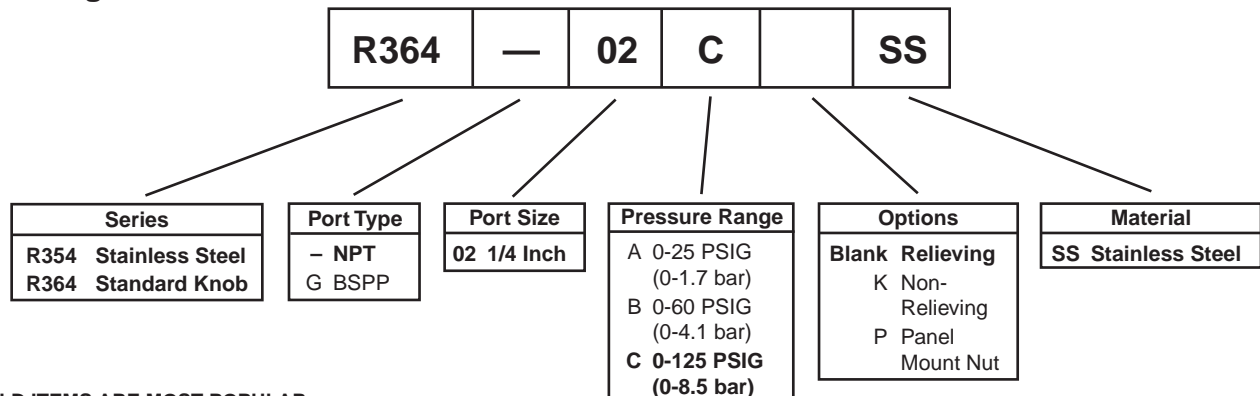
[§] SCFM = Standard cubic feet per minute at 100 PSIG inlet, 75 PSIG no flow secondary setting and 15 PSIG pressure drop.

inches (mm)
 NOTE: 1.25 Dia. (32mm) hole required for panel mounting.

⚠ WARNING

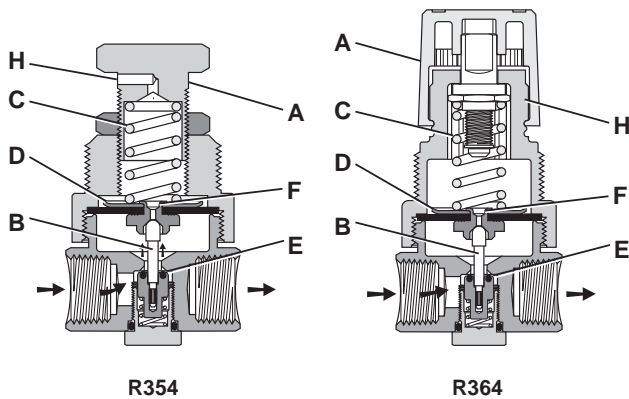
**Product rupture can cause serious injury.
 Do not connect regulator to bottled gas.
 Do not exceed maximum primary pressure rating.**

Ordering Information



BOLD ITEMS ARE MOST POPULAR.

Operation



With the adjusting knob (A) turned fully counter-clockwise (no spring load), and pressure supplied to the regulator inlet port, the valve poppet assembly (B) is closed. Turning the adjusting knob clockwise applies a load to control spring (C). This load causes the diaphragm (D) and the valve poppet assembly (B) to move downward allowing flow across the seat area (E) created between the poppet assembly and the seat. Pressure in the downstream line is sensed below the diaphragm (D) and offsets the load of spring (C). As downstream pressure rises, poppet assembly (B) and diaphragm (D) move upward until the area (E) is closed and the load of the spring (C) and pressure under diaphragm (D) are in balance. A reduced outlet pressure has now been obtained, depending on spring load. Creating a demand downstream, such as opening a valve, results in a reduced pressure under the diaphragm (D). The load of control spring (C) now causes the poppet assembly to move downward opening seat area (E) allowing air to flow to meet the downstream demand. The flow of downstream air is metered by the amount of opening (E).

Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the diaphragm (D) to move upward against control spring (C), open vent hole (F), and vent the excess pressure to atmosphere through the hole in the bonnet (H). (This occurs in the relieving type regulator only.)

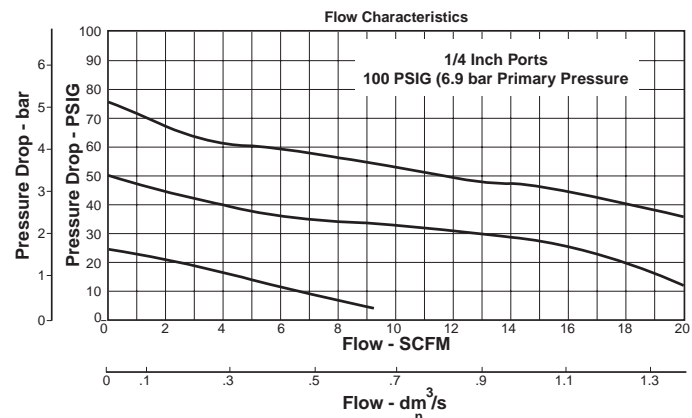
Technical Information

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.



R354, R364 Regulator Kits & Accessories

- R354 Bonnet KitCKR354YSS
- R364 Bonnet Kit (Knob Included)CKR364YSS
- Gauge (Stainless) –
 160 PSIG (0 to 1100 kPa), 1-1/2" FaceK4515N14160SS
- Panel Mount Bracket (Stainless) 161X57-SS
- Panel Mount Nut –
 Stainless R05X51-SS
 PlasticR05X51-P
- Pipe Nipple –
 1/4" 316 Stainless Steel 616Y28-SS
- Service Kit –
 RelievingRKR364YSS
 Non-Relieving RKR364KYSS
- Springs –
 0-25 PSIG RangeSPR-375-2-SS
 0-60 PSIG RangeSPR-376-1-SS
 0-125 PSIG RangeSPR-377-1-SS

- Port Threads1/4 Inch
- Pressure & Temperature Ratings –
 R354 300 PSIG Max (20.7 bar)
 0°F to 180°F (-18°C to 82°C)
 R364 300 PSIG Max (20.7 bar)
 0°F to 150°F (-18°C to 66°C)

Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (0°C).

Weight0.5 lb. (0.23 kg)

Materials of Construction

- Adjustment Mechanism / Springs316 Stainless Steel
- Adjusting Knob (R354)316 Stainless Steel
- Adjusting Knob (R364) Polypropylene
- Body316 Stainless Steel
- Bonnet (R354)316 Stainless Steel
- Bonnet (R364) Acetal
- Bottom Plug316 Stainless Steel
- Poppet316 Stainless Steel
- Seals Fluorocarbon

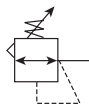
Specifications

- Gauge Port1/4 Inch
- OperationFluorocarbon Diaphragm



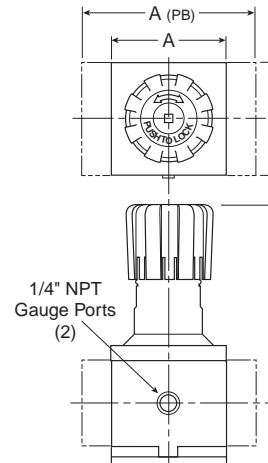
R255 Regulators – Hi-Flow

A



Features

- Port Blocks (PB) Available to Provide 1-1/2" Port Extension to 1" Ported Bodies
- Self Relieving Feature Plus Balanced Poppet Provides Quick Response and Accurate Pressure Regulation
- Solid Control Piston for Extended Life
- High Flow: 3/4" - 200 SCFM[§]
 1" - 300 SCFM[§]



| Port Size | NPT Without Gauge |
|-----------|-------------------|
| 3/4" | R255-06C |
| 1" | R255-08C |

| R255 Regulator Dimensions | | | | | |
|---------------------------|---------------|--------------|---------------|--------------|---------------|
| A | A (PB) | B | C | D | E |
| 3.62 (92) | 5.91 (150) | 3.62 (92) | 6.38 (162) | 2.08 (53) | 8.46 (215) |

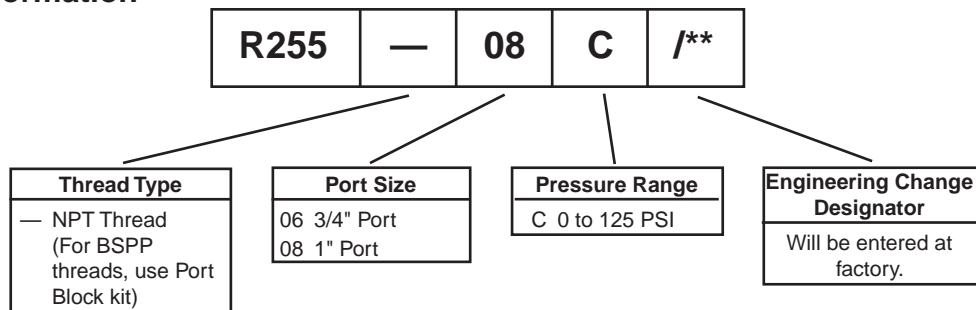
Inches
(mm)

Bold Items are Most Popular.

For other models refer to ordering information below.

§ SCFM = Standard Cubic Feet Per Minute at 100 PSIG Inlet, 75 PSIG No Flow Secondary Setting, and 10 PSIG Pressure Drop.

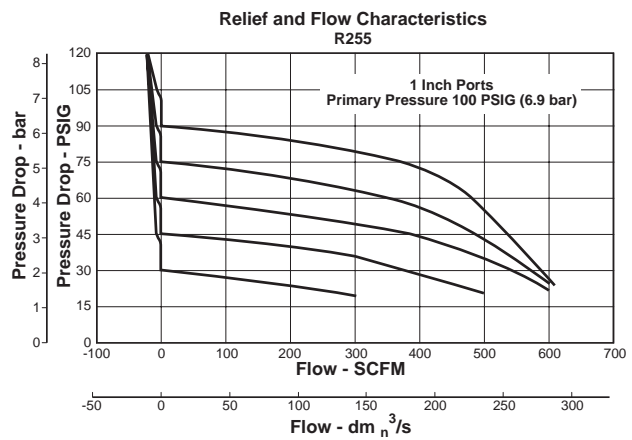
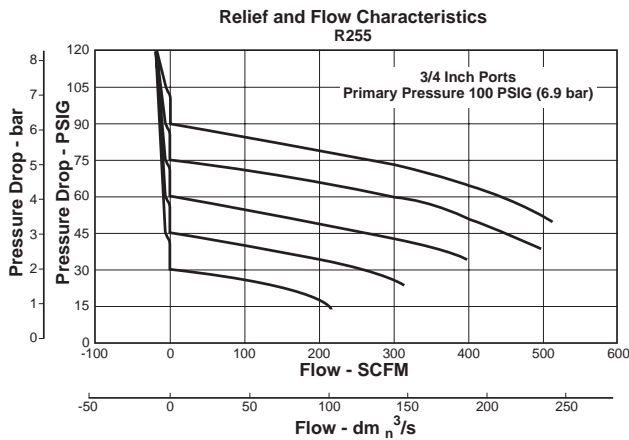
Ordering Information



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.

R255 Regulator Kits & Accessories

- Gauges –**
 60 PSIG (0 to 4.1 bar) K4520N14060
 160 PSIG (0 to 11.0 bar) K4520N14160
 300 PSIG (0 to 20.7 bar) K4520N14300
- Service Kit –**
 Relieving P3NKA00RR
 Non-Relieving P3NKA00RN
- Springs –**
 1 to 60 PSIG Range C10A1304
 2 to 125 PSIG Range C10A1308
 5 to 250 PSIG Range C10A1317
- Mounting Bracket Kit** P3NKA00MW
Port Block Kit (1-1/2" NPT Ports) P3NKB9BCL

Specifications

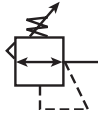
- Gauge Ports** Two Ports 1/4"
 (Can be used as additional High Flow 1/4 Inch Outlet Ports)
- Port Threads** 3/4", 1"
- Primary Pressure Rating –**
 Maximum Primary Pressure 250 PSIG (17.2 bar)
- Temperature Rating** 32°F to 175°F (0°C to 80°C)
- Weight –**
 3/4 Inch 4.2 lb. (1.9 kg)
 1 Inch 4.2 lb. (1.9 kg)

Materials of Construction

- Adjusting Stem** Steel
Body Aluminum
Bonnet Aluminum
Knob Plastic
Piston Plastic
Poppet Assembly Brass
Seals Nitrile
Springs: Poppet & Control Steel

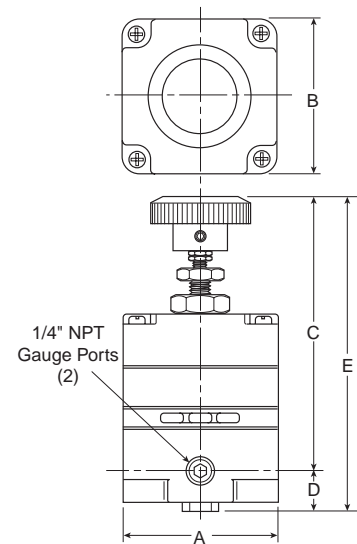


R210 / R220 High Precision Regulator



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



| A | B | C | D |
|--------------|---------------|--------------|----------------|
| 2.06 (52) | 4.35 (110) | 3.82 (97) | 0.53 (13.5) |

inches
(mm)

B

The R210 / R220 are high precision, multi-stage pressure regulators. This pressure controller provides the highest level of regulation accuracy and repeatability available and is ideal for applications that call for the utmost in control and maximum stability under variable operating conditions. 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 springs and diaphragms.

Applications

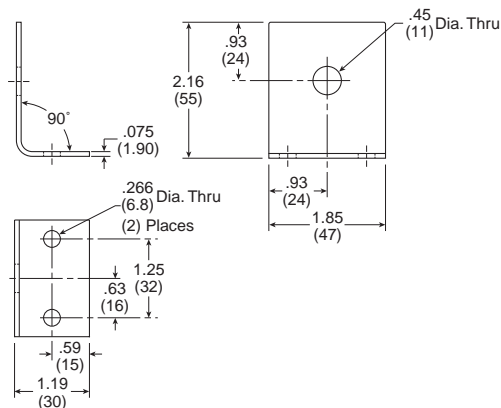
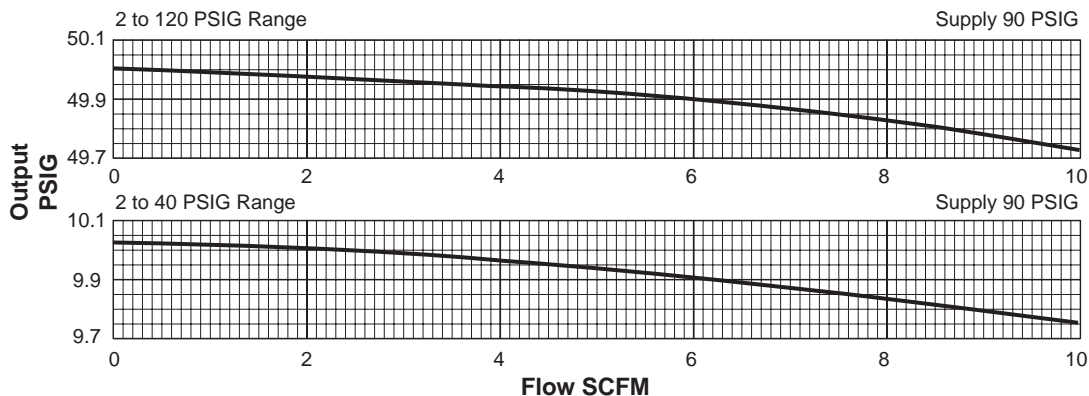
The R210 and R220 regulators are well suited for any process that requires very precise regulation of air pressure in pipes and vessels. These regulators are often used, but not limited to the following applications:

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

Ordering Information

| | | 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 |

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:
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.

R210 / R220 Regulator Kits & Accessories

Mounting Bracket Kits –

- Pipe Mounting (Pair)..... SA200YW57
- Right Angle Mounting 446-707-045

Service Kits –

- 2-40 PSIG..... RKR210A*
- 2-120 PSIG..... RKR210C*
- 2-120 PSIG (High Relieving) RKR220C*

* Parts in Kit: Diaphragms, Gasket, Bleed Orifice

Specifications

Constant Bleed Rate Less than 0.08 SCFM (0.15m³/hr)
 (Equals Bleed Rate plus other consumption)

Total Air Consumption 6 SCFH (0.21m³/hr.)

Effect of Supply Pressure Variation of 25 PSIG (1.7 bar) on Outlet:
 Less than 0.005 PSIG (0.0003 bar)

Exhaust (Relief) Capacity –

- At 5 PSIG (0.34 bar) above 20 PSIG (1.38 bar) Setpoint
- Standard Model** 3 SCFM (3.4m³/hr)
- High-Relief Model** 11 SCFM (17m³/hr)

Flow Capacity –

- At 100 PSIG (6.89 bar) Supply,
 20 PSIG (1.38 bar) Outlet..... 14 SCFM (25m³/hr)

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

| Operating Pressure Range: | PSIG | bar |
|------------------------------------|------|-------|
| PRIMARY – Maximum | 150 | 10.34 |
| SECONDARY – Spring Pressure | | |
| 40 PSIG | | |
| Minimum | 2 | 0.14 |
| Maximum | 40 | 2.76 |
| 120 PSIG | | |
| Minimum | 2 | 0.14 |
| Maximum | 120 | 8.27 |

Operating Temperature Range -18°C * to 65°C (0°F* to 150°F)
 * Temperatures below 0°C (32°F) require moisture free air.

Repeatability / Sensitivity 0.005 PSIG (0.0003 bar)
 Inches of Water Column = 1/8"

Weight 1.4 lb (0.64 kg)

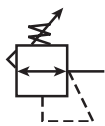
Materials of Construction

- Adjusting Stem & Capsule** Stainless Steel
- Body** Zinc
- Control Knob** Plastic
- Diaphragm(s)** Buna-N
- Seals** Buna-N
- Springs** Stainless Steel
- Valve Poppet** Stainless Steel



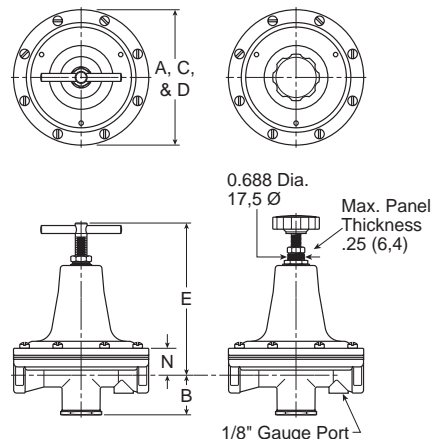
R216 Precision Regulators

B



Features

- High Flow Performance Featuring Rugged Design for the Most Demanding Applications
- Ideal for Those Installations Calling for Constant Pressure with Wide Variation in Flow
- Diaphragm Operated with Large Surface Area and Aspirator for Quick and Precise Regulation
- Heavy Duty Tee Handle Adjustment
- Panel Mount Version Available
- High Flow: 1/4" & 3/8" - 40 SCFM[§]



| Port Size | NPT Relieving | BSPP Relieving |
|--|------------------|----------------|
| Tee Handle, Without Gauge 0-20 PSIG Reduced Pressure | | |
| 1/4" | R216-02F | R216G02F |
| 3/8" | R216-03F | R216G03F |
| Hand Wheel Knob, Without Gauge 0-20 PSIG Reduced Pressure | | |
| 1/4" | R216-02FP | R216G02FP |
| 3/8" | R216-03FP | R216G03FP |

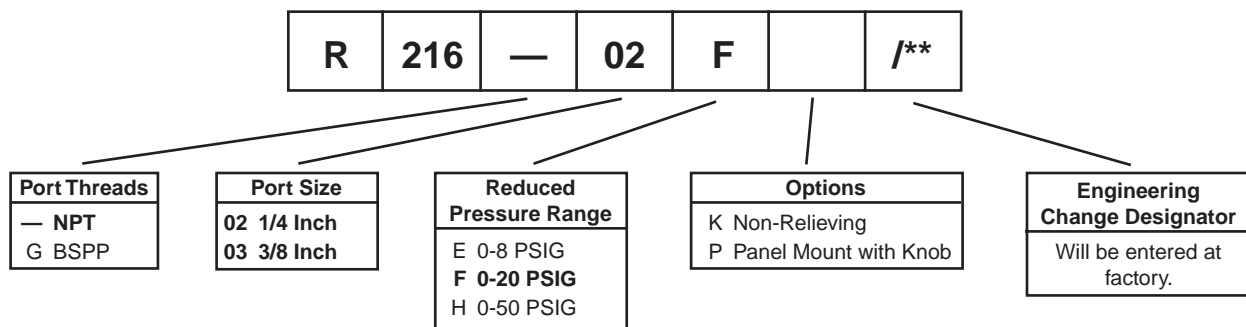
| R216 Regulator Dimensions | | | | | |
|-----------------------------|----------------|---------------|---------------|---------------|----------------|
| A | B | C | D | E | N |
| R216-02F, R216-03F | | | | | |
| 4.25 (108) | 1.24 (31.6) | 4.25 (108) | 4.25 (108) | 4.78 (121) | 0.85 (21.5) |
| R216-02FP, R216-03FP | | | | | |
| 4.25 (108) | 1.24 (31.6) | 4.25 (108) | 4.25 (108) | 4.78 (121) | 0.85 (21.5) |

inches
(mm)

Bold Items are Most Popular.
 For other models refer to ordering information below.

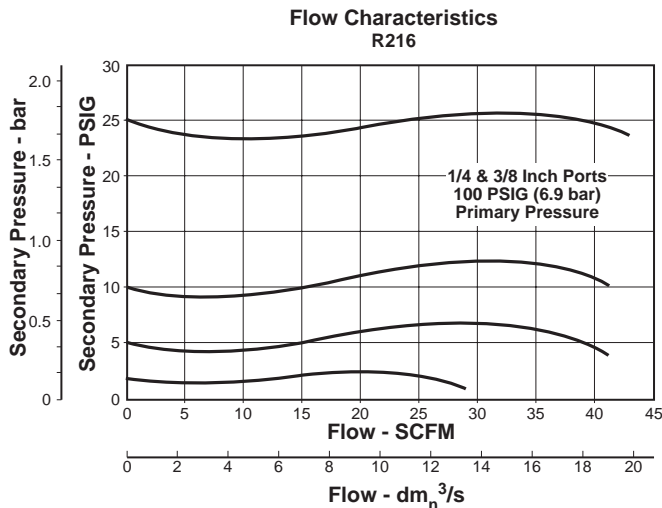
§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 75 PSIG no flow secondary setting, and 20 PSIG pressure drop.

Ordering Information



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.

R216 Regulator Kits & Accessories

- Round Plastic Knob 118Y51
- Panel Mount Conversion Kit
 (Spring Cage, Knob, Hardware) 4206
- Repair Kits –
 - Non-Relieving Diaphragm,
 Valve Assembly (1/4", 3/8")RK216KY
 - Relieving Diaphragm,
 Valve Assembly (1/4", 3/8") RK216Y

Specifications

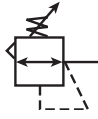
- Gauge Port (1)1/8 Inch
- Port Threads1/4, 3/8 Inch
- Reduced Pressure Range 5 to 20 PSIG (0.03 to 1.4 bar)
- Supply Pressure300 PSIG Maximum (20.4 bar)
- Temperature Rating40°F to 125°F (4.4°C to 52°C)
- Weight 2.2 lb. (1.00 kg) / Unit
 18 lb. (8.16 kg) / 8-Unit Master Pack

Materials of Construction

- Body, Spring CageZinc
- Bottom Plug Brass
- Seals Buna N

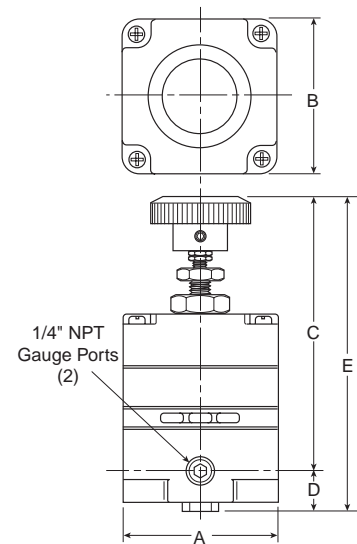


R210 / R220 High Precision Regulator



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 | | | |
|---|---------------|--------------|----------------|
| A | B | C | D |
| 2.06 (52) | 4.35 (110) | 3.82 (97) | 0.53 (13.5) |

inches
(mm)

B

The R210 / R220 are high precision, multi-stage pressure regulators. This pressure controller provides the highest level of regulation accuracy and repeatability available and is ideal for applications that call for the utmost in control and maximum stability under variable operating conditions. 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 springs and diaphragms.

Applications

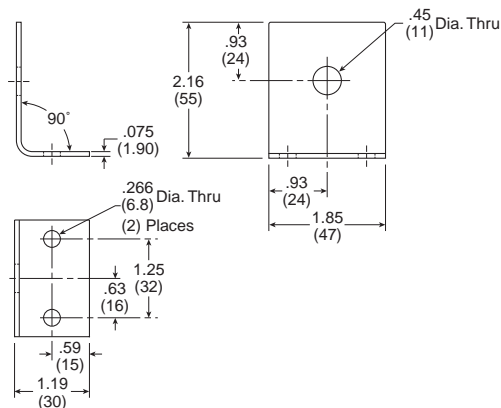
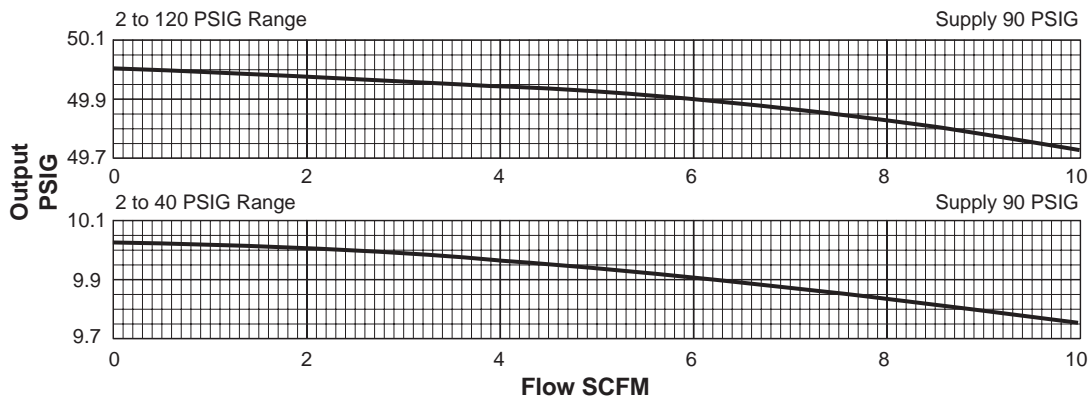
The R210 and R220 regulators are well suited for any process that requires very precise regulation of air pressure in pipes and vessels. These regulators are often used, but not limited to the following applications:

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

Ordering Information

| | | 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 |

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:
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.

R210 / R220 Regulator Kits & Accessories

Mounting Bracket Kits –

- Pipe Mounting (Pair)..... SA200YW57
- Right Angle Mounting 446-707-045

Service Kits –

- 2-40 PSIG..... RKR210A*
- 2-120 PSIG..... RKR210C*
- 2-120 PSIG (High Relieving) RKR220C*

* Parts in Kit: Diaphragms, Gasket, Bleed Orifice

Specifications

Constant Bleed Rate Less than 0.08 SCFM (0.15m³/hr)
 (Equals Bleed Rate plus other consumption)

Total Air Consumption 6 SCFH (0.21m³/hr.)

Effect of Supply Pressure Variation of 25 PSIG (1.7 bar) on Outlet:
 Less than 0.005 PSIG (0.0003 bar)

Exhaust (Relief) Capacity –

- At 5 PSIG (0.34 bar) above 20 PSIG (1.38 bar) Setpoint
- Standard Model** 3 SCFM (3.4m³/hr)
- High-Relief Model** 11 SCFM (17m³/hr)

Flow Capacity –

- At 100 PSIG (6.89 bar) Supply,
 20 PSIG (1.38 bar) Outlet..... 14 SCFM (25m³/hr)

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

| Operating Pressure Range: | PSIG | bar |
|------------------------------------|------|-------|
| PRIMARY – Maximum | 150 | 10.34 |
| SECONDARY – Spring Pressure | | |
| 40 PSIG | | |
| Minimum | 2 | 0.14 |
| Maximum | 40 | 2.76 |
| 120 PSIG | | |
| Minimum | 2 | 0.14 |
| Maximum | 120 | 8.27 |

Operating Temperature Range -18°C * to 65°C (0°F* to 150°F)
 * Temperatures below 0°C (32°F) require moisture free air.

Repeatability / Sensitivity 0.005 PSIG (0.0003 bar)
 Inches of Water Column = 1/8"

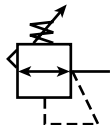
Weight 1.4 lb (0.64 kg)

Materials of Construction

- Adjusting Stem & Capsule** Stainless Steel
- Body** Zinc
- Control Knob** Plastic
- Diaphragm(s)** Buna-N
- Seals** Buna-N
- Springs** Stainless Steel
- Valve Poppet** Stainless Steel

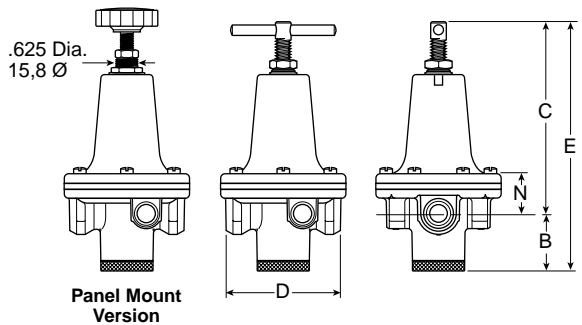
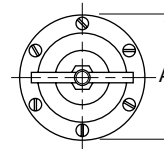
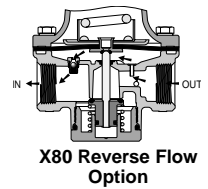


R119 Standard Regulators



Features

- High Flow Performance Featuring Rugged Design for the Most Demanding Applications
- Ideal for Those Installations Calling for Constant Pressure with Wide Variation in Flow
- Diaphragm Operated Design with Balanced Poppet Design for Quick and Accurate Regulation
- Secondary Aspiration Plus Balanced Poppet Provides Quick Response and Accurate Pressure Regulation
- Heavy Duty Tee Handle Adjustment
- Reverse Flow Version Available
- Panel Mount Version Available
- High Flow: 1/4" - 100 SCFM[§]
 3/8" - 110 SCFM[§]
 1/2" - 150 SCFM[§]



B

| Port Size | NPT Relieving | BSPB Relieving |
|--|------------------|----------------|
| Without Gauge 0-125 PSIG Reduced Pressure | | |
| 1/4" | R119-02C | R119G02C |
| 3/8" | R119-03C | R119G03C |
| 1/2" | R119-04C | R119G04C |
| With Gauge 0-125 PSIG Reduced Pressure | | |
| 1/4" | R119-02CG | — |
| 3/8" | R119-03CG | — |
| 1/2" | R119-04CG | — |

| R119 Regulator Dimensions | | | | | |
|---------------------------|--------------|---------------|---------------|---------------|--------------|
| A | B | C | D | E | N |
| R119-02C, R119-03C | | | | | |
| 3.00 (76) | 1.38 (35) | 4.60 (117) | 2.74 (705) | 5.98 (152) | 0.96 (24) |
| R119-04C | | | | | |
| 3.56 (90) | 1.56 (40) | 5.20 (132) | 3.25 (83) | 6.76 (172) | 1.27 (32) |

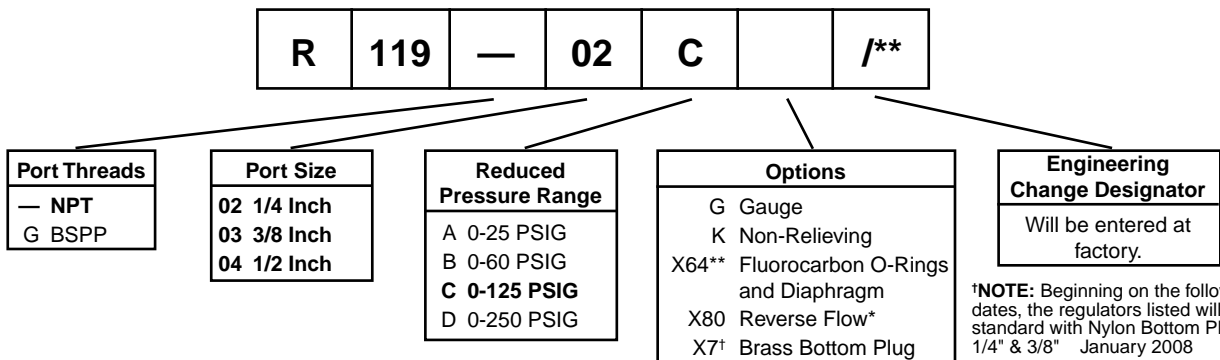
inches
(mm)

Bold Items are Most Popular.

For other models refer to ordering information below.

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 75 PSIG no flow secondary setting, and 20 PSIG pressure drop.

Ordering Information



¹**NOTE:** Beginning on the following dates, the regulators listed will come standard with Nylon Bottom Plugs.
 1/4" & 3/8" January 2008
 1/2" March 2008

* Reverse flow for use downstream of control valves.

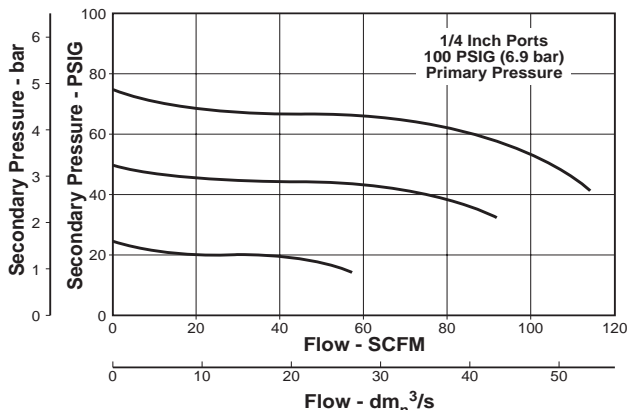
** Brass Bottom Plug Standard with X64 Option.

BOLD ITEMS ARE MOST POPULAR.

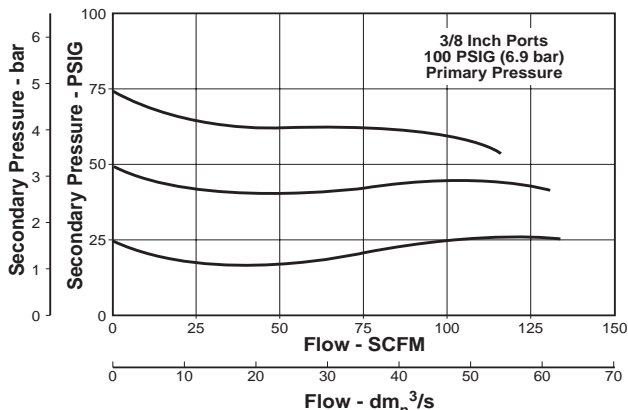


Technical Information

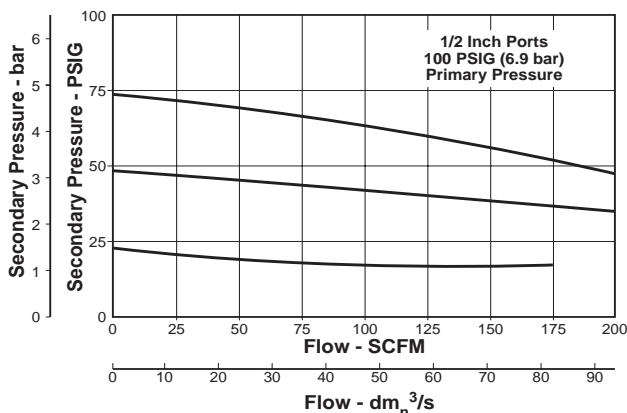
**Flow Characteristics
 R119-02C**



**Flow Characteristics
 R119-03C**



**Flow Characteristics
 R119-04C**



⚠ 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.

R119 Regulator Kits & Accessories

Gauges –

- 2" Dial Size, 1/4" Back Connection
 0 to 60 PSIG (0 to 400 kPa) K4520N14060
- 2" Dial Size, 1/4" Back Connection
 0 to 160 PSIG (0 to 1100 kPa) K4520N14160
- 2" Dial Size, 1/4" Back Connection
 0 to 300 PSIG (0 to 2068 kPa) K4520N14300

Mounting Bracket Kit –

- 1/4", 3/8" SA15Y57
- 1/2" 18A57

Panel Mount Conversion Kit –

- 1/4", 3/8" 4202
- 1/2" 4204

Repair Kits –

- Non-Relieving Diaphragm,
 Valve Assembly (1/4", 3/8"; All PSIG) RK118Y
- Relieving Diaphragm,
 Valve Assembly (1/4", 3/8"; All PSIG) RK119Y
- Non-Relieving Diaphragm,
 Valve Assembly (1/2"; 25, 60, 125 PSIG) RK118A
- Non-Relieving Diaphragm,
 Valve Assembly (1/2"; 250 PSIG) RK118A250
- Relieving Diaphragm,
 Valve Assembly (1/2"; 25, 60, 125 PSIG) RK119A

- Relieving Diaphragm,
 Valve Assembly (1/2"; 250 PSIG) RK119A250

For Fluorocarbon Repair Kits, add X64 to Kit Number suffix.

Specifications

- Gauge Ports (2)** 1/4 Inch
- Port Threads** 1/4, 3/8, 1/2 Inch
- Reduced Pressure Range** 2 to 125 PSIG (0.15 to 8.5 bar)
- Supply Pressure** 300 PSIG Maximum (20.4 bar)
- Temperature Rating** 40°F to 125°F (4.4°C to 52°C)
- Weight –**
- R119-02, R119-03 1.8 lb. (0.82 kg) / Unit
 26 lb. (11.79 kg) / 12-Unit Master Pack
- R119-04 3.2 lb. (1.45 kg) / Unit
 27 lb. (12.25 kg) / 8-Unit Master Pack

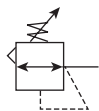
Materials of Construction

- Adjusting Screw, Springs** Steel
- Body, Spring Cage** Zinc
- Bottom Plug** Nylon
- Innervalve** Brass
- Seals** Buna N



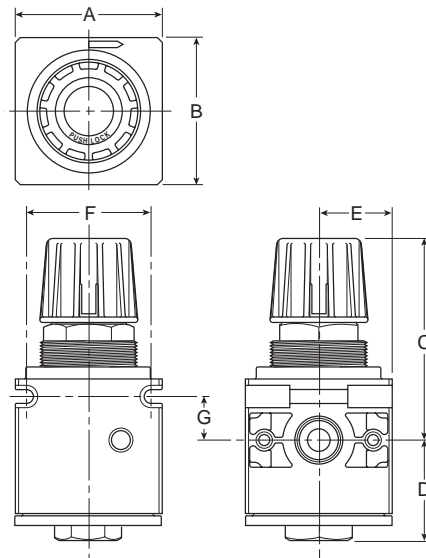
R105 Regulator

A



Features

- Connects to Other QUBE Units Using Just Screws and O-rings (Included)
- Integral Mounting Slots Eliminate Need for Mounting Brackets
- Diaphragm Operated Design with Balanced Poppet Design for Quick and Accurate Regulation
- Panel Mountable
- High Flow: 1/2" - 150 SCFM[§]
 3/4" - 150 SCFM[§]



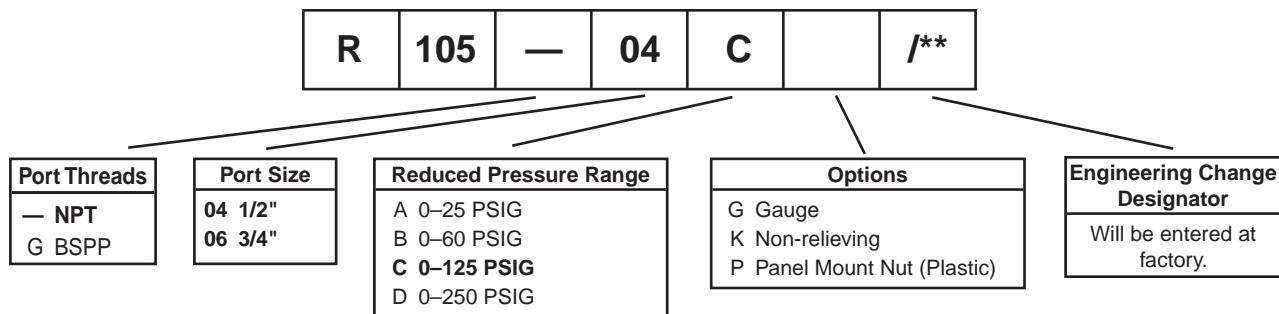
| Port Size | NPT | BSPB |
|--|------------------|-----------|
| | Relieving | Relieving |
| Without Gauge 0-125 PSIG Reduced Pressure | | |
| 1/2" | R105-04C | R105G04C |
| 3/4" | R105-06C | R105G06C |
| With Gauge 0-125 PSIG Reduced Pressure | | |
| 1/2" | R105-04CG | — |
| 3/4" | R105-06CG | — |

| R105 Regulator Dimensions | | | | | | | | |
|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| A* | A† | B | C | D | E | F* | F† | G |
| 2.69 (68.3) | 3.03 (77.0) | 2.69 (68.3) | 3.75 (95.4) | 1.81 (46.1) | 1.35 (34.1) | 2.30 (58.3) | 2.55 (64.8) | 0.81 (20.6) |

Inches (mm)
 * 3/8 and 1/2 inch ports
 † 3/4 inch ports
 NOTE: 1.75 Dia. (44mm) hole required for panel mounting.

Bold Items are Most Popular.
 For other models refer to ordering information below.
 § SCFM = Standard Cubic Feet Per Minute at 100 PSIG Inlet, 75 PSIG No Flow Secondary Setting, and 20 PSIG Pressure Drop.

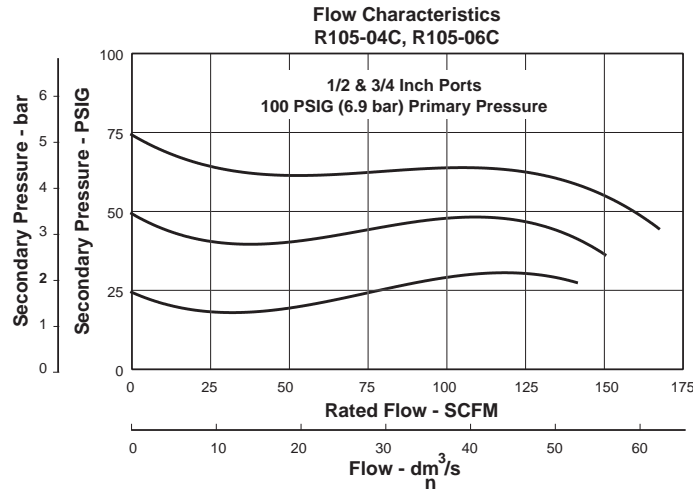
Ordering Information



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.

R105 Regulator Kits & Accessories

- Cage Kit –**
 Cage Assembly with Knob.....CKR105
- Control Knob** R105-0542P
- Gauges –**
 2" Dial Size, 1/4" Back Connection
 0 to 60 PSIG (0 to 4 bar) K4520N14060
 2" Dial Size, 1/4" Back Connection
 0 to 160 PSIG (0 to 11 bar) K4520N14160
 2" Dial Size, 1/4" Back Connection
 0 to 300 PSIG (0 to 20,7 bar) K4520N14300
- Panel Mounting Bracket Kit (Bonnet Threads)**SAR10Y57
Face Mounting Bracket Kit (See Page A66)SAR10Y57
- Panel Mount Nut –**
 Plastic.....R10X51-P
 Aluminum.....R10X51-A
- Repair Kits –**
 Non-Relieving Diaphragm, Valve Assembly RKR105K
 Relieving Diaphragm, Valve AssemblyRKR105

Specifications

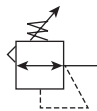
- Gauge Ports (2)**1/4 Inch
Port Threads 1/2 & 3/4 Inch
Supply Pressure300 PSIG Max. (20,4 bar)
Temperature Rating40°F to 150°F (4.4°C to 65.5°C)
Weight 1.64 lbs. (.74 kg) / unit

Materials of Construction

- Adjusting Knob** Acetal
BodyAluminum
Bottom PlugZinc
CageGlass-Filled Acetal Plastic
Elastomers Buna N

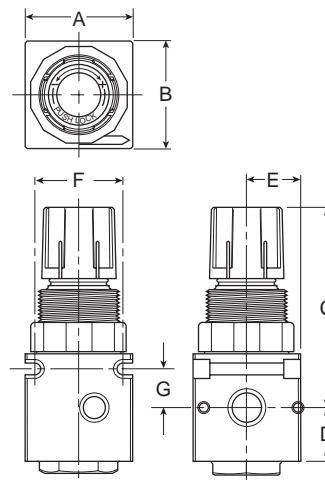
R35 Regulator

A



Features

- Compact Size Allows Greater Design Flexibility
- Nearly Double the Flow Capacity of Standard Miniature Regulators; Reduces Costly Pressure Drop
- Connects to Other QUBE Units Using Just Screws and O-rings (Included)
- Integral Mounting Slots Eliminate Need for Mounting Brackets
- Piston Operated for High Flow and Low Pressure Drop
- Panel Mountable
- High Flow: 1/8" - 30 SCFM[§]
 1/4" - 40 SCFM[§]



| Port Size | NPT | BSPB |
|--|-----------------|-----------|
| | Relieving | Relieving |
| Without Gauge 0-125 PSIG Reduced Pressure | | |
| 1/8" | R35-01C | R35G01C |
| 1/4" | R35-02C | R35G02C |
| With Gauge 0-125 PSIG Reduced Pressure | | |
| 1/8" | R35-01CG | — |
| 1/4" | R35-02CG | — |

| R35 Regulator Dimensions | | | | | | |
|--------------------------|--------|--------|--------|--------|--------|--------|
| A | B | C | D | E | F | G |
| 1.59 | 1.59 | 2.98 | 1.11 | 0.80 | 1.31 | 0.58 |
| (40.6) | (40.6) | (75.7) | (28.2) | (20.3) | (33.3) | (14.6) |

Inches
(mm)

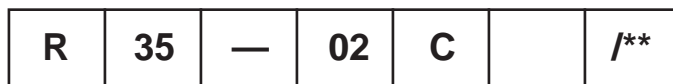
NOTE: 1.25 Dia. (32mm) hole required for panel mounting.

Bold Items are Most Popular.

For other models refer to ordering information below.

[§] SCFM = Standard Cubic Feet Per Minute at 100 PSIG Inlet, 75 PSIG No Flow Secondary Setting, and 20 PSIG Pressure Drop.

Ordering Information



| Port Threads |
|--------------|
| — NPT |
| G BSPB |

| Port Size |
|-----------|
| 01 1/8" |
| 02 1/4" |

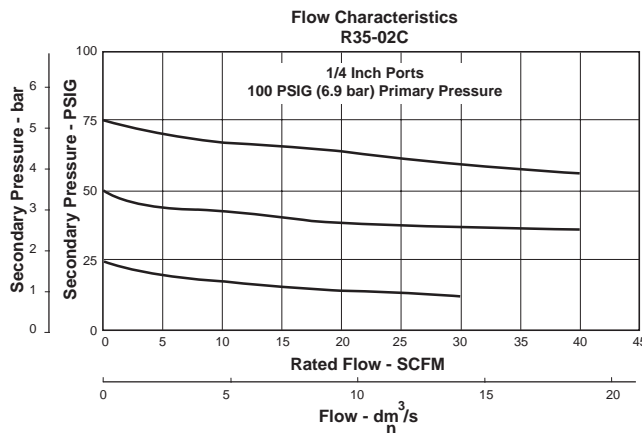
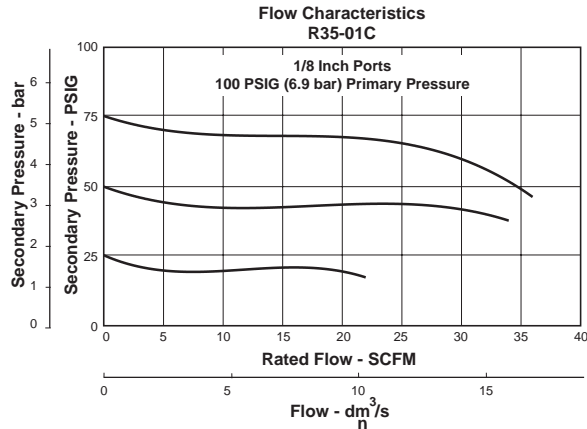
| Reduced Pressure Range |
|------------------------|
| A 0-25 PSIG |
| B 0-60 PSIG |
| C 0-125 PSIG |

| Options |
|-----------------------------|
| G Gauge |
| K Non-relieving |
| P Panel Mount Nut (Plastic) |
| T Tamperproof Adjustment |

| Engineering Change Designator |
|-------------------------------|
| Will be entered at factory. |

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.

R35 Regulator Kits & Accessories

- Cage Kits –**
 A Range..... CKR35A
 B & C Range.....CKR35BC
- Control Knob** R35-0545P
- Gauges –**
 1-1/2" Dial Size, 1/8" Back Connection
 0 to 60 PSIG (0 to 4 bar) K4515N18060
 1-1/2" Dial Size, 1/8" Back Connection
 0 to 160 PSIG (0 to 11 bar) K4515N18160
- Panel Mounting Bracket Kit (Bonnet Threads)** SA161X57
Face Mounting Bracket Kit (See Page A66)SAR35Y57
- Panel Mount Nut –**
 Plastic.....R05X51-P
 Aluminum.....R05X51-A
- Repair Kits –**
 Non-Relieving Piston, Valve Assembly RKR30K
 Relieving Piston, Valve AssemblyRKR30

Specifications

- Gauge Ports (2)**1/8 Inch
Port Threads 1/8 & 1/4 Inch
Supply Pressure300 PSIG Max. (20,4 bar)
Temperature Rating40°F to 125°F (4.4°C to 52°C)
Weight0.82 lbs. (.37 kg) / Unit
 19.8 lbs. (8.98 kg) / 24-Unit Master Pack

Materials of Construction

- Adjusting Knob** Acetal
BodyZinc
Bottom Plug Glass-Filled Acetal
Cage Plastic
Elastomers Buna N

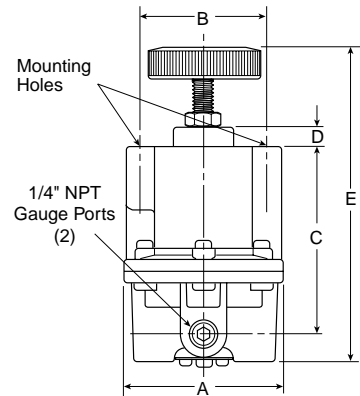


R230 High Flow Precision Regulator



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



| R230 Regulator Dimensions | | | | |
|---------------------------|--------------|--------------|---------------|--------------|
| A | B | C | D | E |
| 3.00 (76) | 0.38 (10) | 3.40 (86) | 6.06 (154) | 2.25 (57) |

inches
(mm)

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

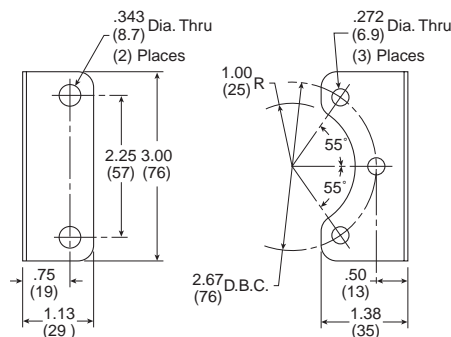
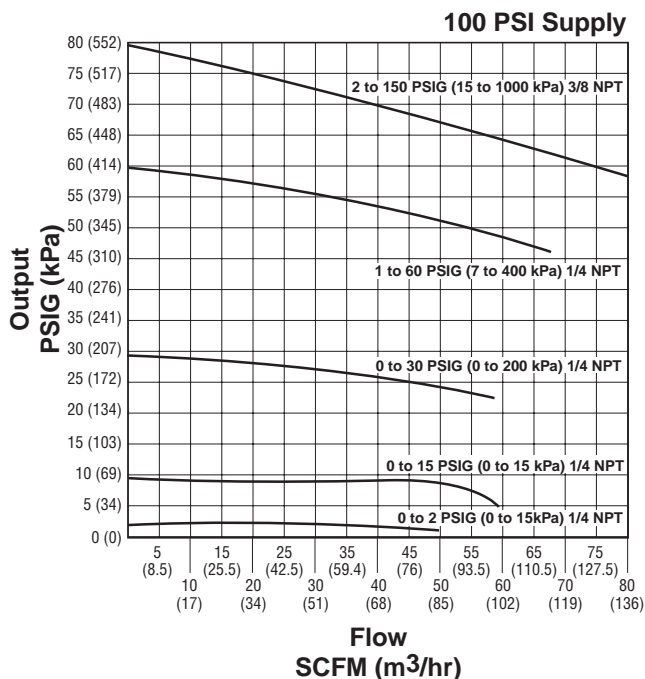
The R230 regulators are an ideal choice for any application that calls for accurately maintained output pressure under high flow conditions. This includes, but is not limited to such applications as:

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

Ordering Information

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

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

- Constant Bleed Rate** 1.0 to 12.5 SCFM
 (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** –
 At 100 PSIG (6.89 bar) Supply,
 80 PSIG (5.5 bar) Outlet 80 SCFM (37.8 dm³/s)
- Operating Temperature Range** -40°C to 71°C
 (-40°F to 160°F)

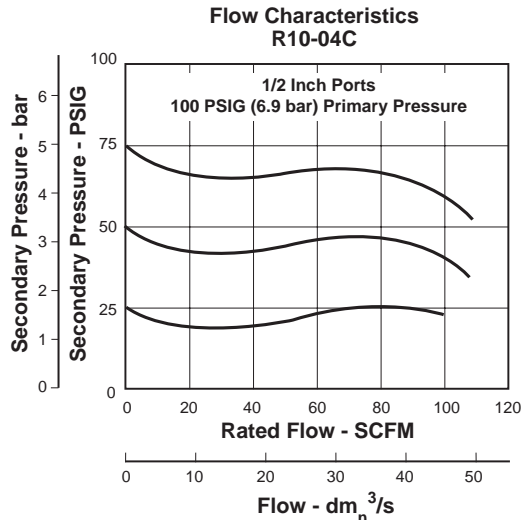
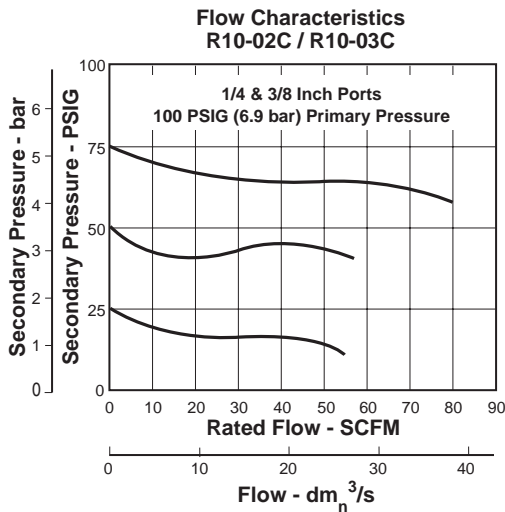
- Operating Pressure Range** –
PRIMARY – Maximum **PSIG** 250 **bar** 17
- Port Threads** 1/4"
- Exhaust (Relief) Capacity** 4.0 SCFM
 (Downstream pressure 5 PSI above set pressure)
- Repeatability / Sensitivity** ±0.010 PSIG (±0.00068 bar)
 Inches of Water Column = 1/4"
- Response** 250 ms
 The valve will open to full flow and fill a volume of 1250 cm³
- Weight** 1 lb. 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



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.

R10 / R11 Regulator Kits & Accessories

- Control Knob (R10) R10Y54
- Tee Handle (R11) SA16Y53
- Gauges –
 - 2" Dial Size, 1/4" Back Connection
0 to 60 PSIG (0 to 400 kPa) K4520N14060
 - 2" Dial Size, 1/4" Back Connection
0 to 160 PSIG (0 to 1100 kPa) K4520N14160
 - 2" Dial Size, 1/4" Back Connection
0 to 300 PSIG (0 to 2068 kPa) K4520N14300
- Mounting Bracket Kit SAR10Y57
- Panel Mount Nut –
 - Plastic R10X51-P
 - Aluminum R10X51-A
- Repair Kits –
 - Non-Relieving RKR10KY
 - Non-Relieving (Viton) RKR10KYX64
 - Relieving RKR10Y
 - Relieving (Viton) RKR10YX64
- Cage Kit –
 - R10 CKR10Y
 - R11 CKR11Y

Specifications

- Gauge Ports (2) 1/4 Inch
- Port Threads 1/4, 3/8, 1/2 Inch
- Supply Pressure 300 PSIG Maximum (20.4 bar)
- Temperature Rating 40°F to 125°F (4.4°C to 52°C)
- Weight 1.3 lb. (0.59 kg) / Unit
32 lb. (14.51 kg) / 24-Unit Master Pack

Materials of Construction

- Adjusting Knob –
 - R10 Acetal
 - R11 (Tee Handle) Steel
- Body Zinc
- Bottom Plug Nylon
Optional Brass
- Elastomers Buna N
- Spring Case –
 - R10 Acetal
 - R11 Zinc

