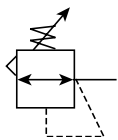
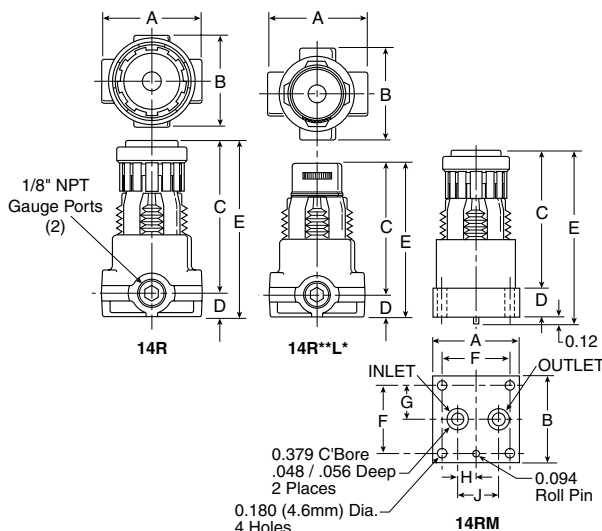


14R Regulators – Miniature



Features

- Unbalanced poppet standard
- Solid control piston with lip seal for extended life
- Non-rising adjusting knob
- Compact, 2.88 Inch (73.2mm) high by 1.65 Inch (42mm) wide
- Easily serviced
- High flow: 1/8" – 13 SCFM[§]
1/4" – 15 SCFM[§]



Port Size	NPT
Without Gauge	
1/8"	14R013F*
1/4"	14R113F*
With Gauge	
1/8"	14R018F*
1/4"	14R118F*

14R Regulator Dimensions					
	A	B	C	D	E
14R	1.65 (42)	1.56 (40)	2.50 (63.5)	.38 (10)	2.88 (73)
14R**L*	1.65 (42)	1.56 (40)	2.28 (57.9)	.38 (10)	2.68 (68)
14RM	A	B	C	D	E
	1.50 (38)	1.50 (38)	2.36 (60)	.50 (13)	2.98 (73)
	F	G	H	J	
	1.188 (30)	.594 (15)	.325 (8)	.725 (18)	

Bold Items are Most Popular.

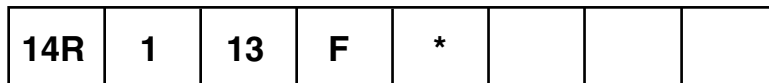
For other models refer to ordering information below.

NOTE: 1.218 Dia. (31mm) hole required for panel mounting.

[§] SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.

Inches (mm)

Ordering Information



Port Size 0 1/8 Inch Pipe, 1/8 Inch Gauge Port 1 1/4 Inch Pipe, 1/8 Inch Gauge Port B 1/4 Inch Pipe, 1/4 Inch Gauge Port C 1/8 Inch Pipe, No Gauge Port M Manifold Mounting	Pressure Range Without Gauge Yellow Knob Black Knob 10 30 PSIG B0 30 PSIG 11 60 PSIG B1 60 PSIG 12 15 PSIG B2 15 PSIG 13 125 PSIG B3 125 PSIG With Gauge 15 30 PSIG B5 30 PSIG 16 60 PSIG B6 60 PSIG 17 15 PSIG B7 15 PSIG 18 125 PSIG B8 125 PSIG	Relief F Relieving G Non-Relieving H Low Temp. Relieving J Low Temp. Non-Relieving	Port Type Blank NPT 1 BSPP 2 BSPT	Options Blank No Options L [†] Preset Non-Adjustable P [†] Preset Adjustable S [†] Pressure Limiter Max. Adjustable T Pressure Limiter Max. Non-Adjustable	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)
--	---	--	--	--	---

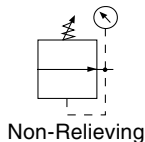
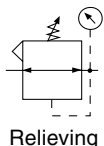
Spring Type by Preset / Limited Pressure:

- For Preset / Limited Pressure 10 to 25 use 30 PSI Spring
- For Preset / Limited Pressure 26 to 50 use 60 PSI Spring
- For Preset / Limited Pressure 51 to 90 use 125 PSI Spring

BOLD ITEMS ARE MOST POPULAR.



R34 Regulators – Miniature



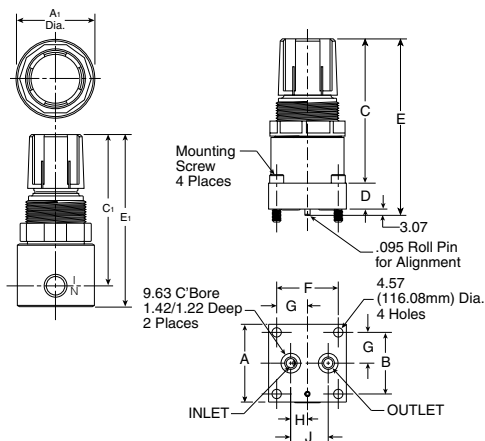
R344-02C



R342-0MC

Features

- Diaphragm operated for fast operation
- Large Diaphragm to valve area ratio for precise regulation and high flow capacity
- Balanced valve design for precise regulation
- Available in 2 or 4 port design
- Available with a manifold mount to minimize plumbing
- Suitable for low temperature applications
- Non-rising adjusting knob
- 1/8" - 17 SCFM*
- 1/4" - 19 SCFM*



R34 Miniature Regulator Dimensions				
A	A1	B	B1	C
1.50 (38.1)	1.54 (39.2)	1.20 (30.5)	1.56 (39.6)	2.75 (69.9)
C1	D	E	E1	F
2.70 (68.6)	.50 (12.7)	3.25 (82.6)	3.25 (82.6)	1.20 (30.5)
G	H	J		
.60 (15.2)	.32 (8.1)	.73 (18.5)		

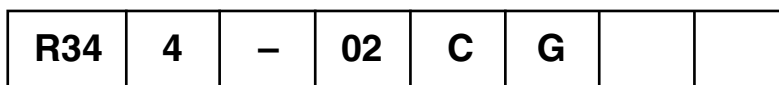
Model Type	Port Size	Without Gauge	Without Gauge	Without Gauge	With Gauge	With Gauge	With Gauge
		0 to 30 psig (0.0 to 2.1 bar)	0 to 60 psig (0.0 to 4.1 bar)	0 to 125 psig (0.0 to 8.6 bar)	0 to 30 psig (0.0 to 2.1 bar)	0 to 60 psig (0.0 to 4.1 bar)	0 to 125 psig (0.0 to 8.6 bar)
Relieving	1/8"	R344-01A	R344-01B	R344-01C	R344-01AG	R344-01BG	R344-01CG
	1/4"	R344-02A	R344-02B	R344-02C	R344-02AG	R344-02BG	R344-02CG
	Manifold Mount	R342-0MA	R342-0MB	R342-0MC	—	—	—

Standard part numbers shown bold.

For other models refer to ordering information below.

* SCFM = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.

Ordering Information



Number of Ports	Thread	Port	Pressure Range	Options	Options	Preset / Pressure Limited
2 2 Ports 4* 4 Ports	- NPT G BSPP	01 1/8" 02 1/4" 0M Manifold Mount	A 0-30 PSI B 0-60 PSI C 0-125 PSI	Blank No Options G Gauge K Non-Relieving Diaphragm P Panel Mount Nut	Blank No Options L† Preset Non-Adjustable M† Preset Adjustable	Blank None XXX* Preset Pressure XXX* Pressure Limited

* Not Available with Manifold Mount.

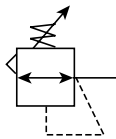
† Inlet Pressure is 100 psig. For other pressures, contact factory.

* 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.

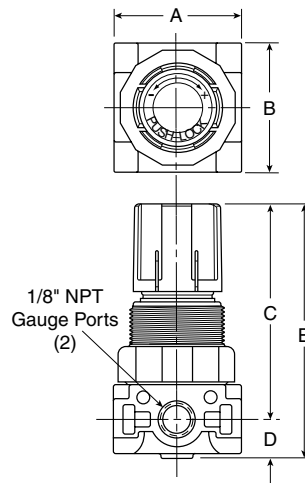


R24, R25 Regulators – Miniature (Air / Water Service)



Features

- Lightweight plastic body
- Constructed with a combination of N.S.F. and F.D.A. approved materials
- Unbalanced poppet standard
- Non-rising, push-to-lock adjusting knob
- Compact, 3.10 inch (79mm) high by 1.60 inch (41mm) wide
- Lightweight
- Diaphragm operated



Port Size	NPT	
	Air Service Relieving	Water Service Non-Relieving
	Relieving, 0-125 Reduced Pressure, Without Gauge	
1/8"	R25-01C	R24-01CK
1/4"	R25-02C	R24-02CK

R24, R25 Regulator Dimensions		
A	B	C
1.60 (41)	1.60 (41)	2.61 (66)
D	E	
0.49 (13)	3.10 (79)	

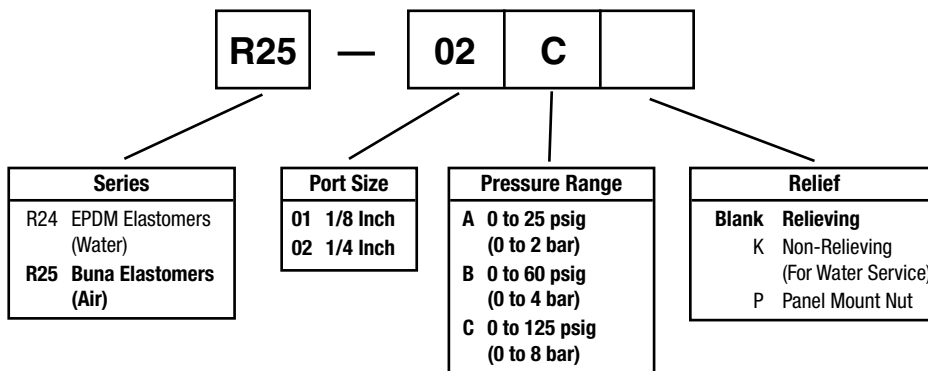
Bold Items are Most Popular.

For other models refer to ordering information below.

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

Inches (mm)

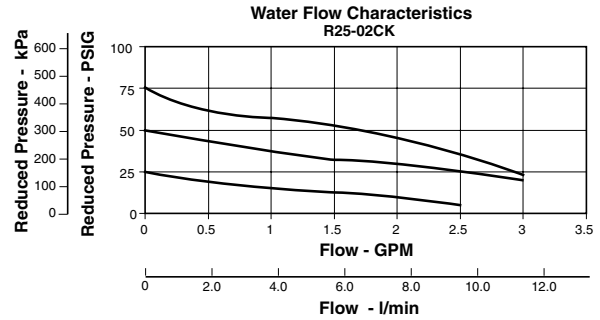
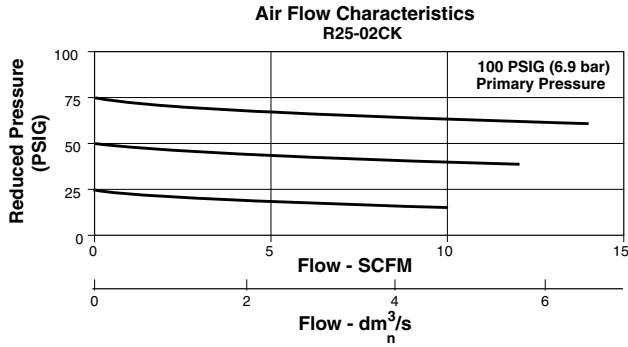
Ordering Information



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.

R24, R25 Regulator Kits and Accessories

- Panel Mount Nut –
 - PlasticR05X51-P
 - AluminumR05X51-A
- Mounting Bracket and Nut SA161X57
- Service Kits –
 - Relieving (Buna) RKR25Y
 - Non-Relieving (Buna) RKR25KY
 - Relieving (EPDM) RKR24Y
 - Non-Relieving (EPDM) RKR24KY
- Springs –
 - 0-25 psig SpringSPR-375-1
 - 0-60 psig SpringSPR-376
 - 0-125 psig SpringSPR-377

Specifications

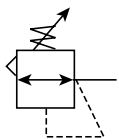
- Gauge Ports (2) 1/8 Inch
Can be used for full flow)
- Pressure Rating – Maximum Inlet Pressure 150 psig.....(10.0 bar)
- Port Threads1/8, 1/4 Inch
- Temperature Rating40°F to 125°F (4°C to 52°C)
- Weight0.25 lb. (0.11 kg)

Materials of Construction

- Adjusting Screw Steel
- Body Acetal
- Bonnet and Seat Acetal
- Diaphragm (R25)..... Buna N
- Diaphragm (R24)..... EPDM
- Seals (R25) Buna N
- Seals (R24) EPDM
- Springs Stainless Steel
- Valve Poppet (R25)..... Buna N
- Valve Poppet (R24)..... EPDM

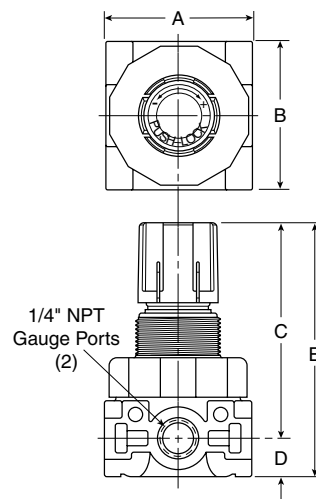


R45, R46 Regulators – Miniature (Air / Water Service)



Features

- Lightweight plastic body
- Constructed with a Combination of N.S.F. and F.D.A. approved materials
- Unbalanced poppet standard
- Non-rising, push-to-lock adjusting knob
- Compact, 3.43 inch (87.1mm) high by 2.06 inch (52.3mm) wide
- Lightweight
- Diaphragm operated



Port Size	NPT	
	Air Service Relieving	Water Service Non-Relieving
	Relieving, 0-125 Reduced Pressure, Without Gauge	
1/4"	R45-02C	R46-02CK
3/8"	R45-03C	R46-03CK

R45, R46 Regulator Dimensions		
A	B	C
2.06 (52)	2.06 (52)	2.90 (74)
D	E	
0.53 (14)	3.43 (87)	

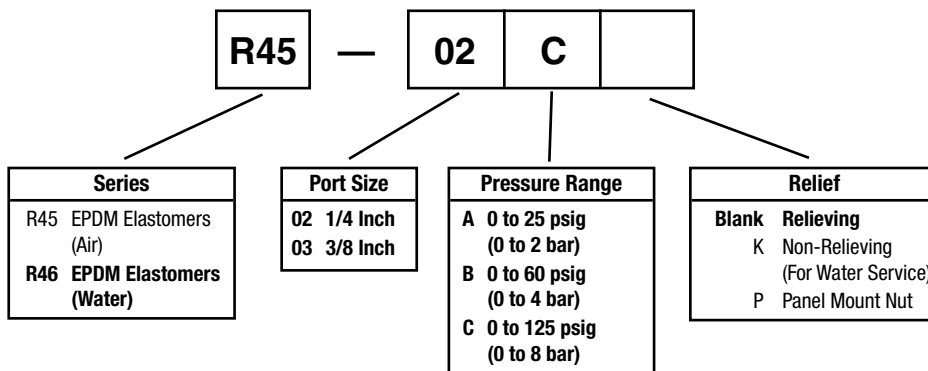
Bold Items are Most Popular.

For other models refer to ordering information below.

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

Inches (mm)

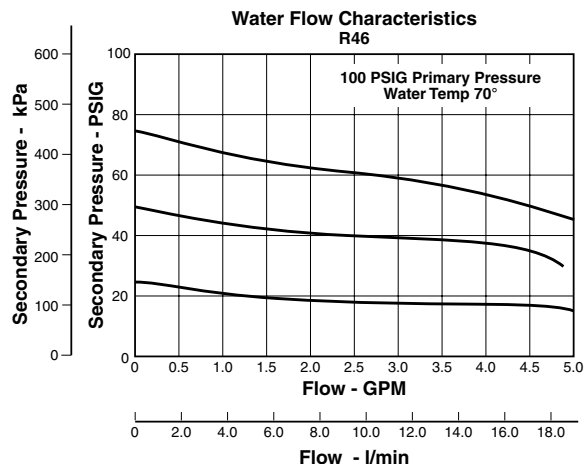
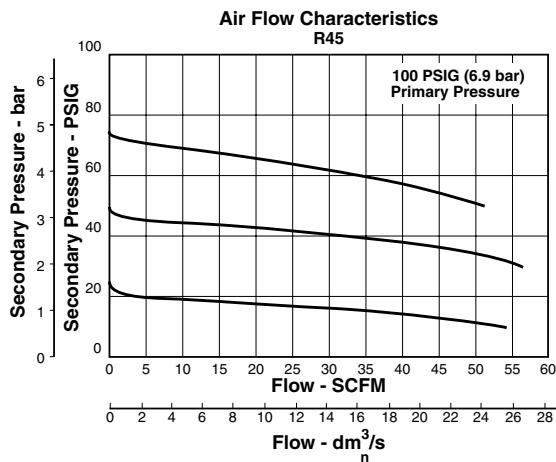
Ordering Information



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.

R45, R46 Regulator Kits and Accessories

- Panel Mount Nut –
 - Plastic R05X51
 - Aluminum R05X51-A
- Mounting Bracket and Nut SA161X57
- Service Kits –
 - Relieving RKR45Y
 - Non-Relieving RKR45KY
- Springs –
 - 0-25 psig Spring SPR-346
 - 0-60 psig Spring SPR-47
 - 0-125 psig Spring SPR-48

Specifications

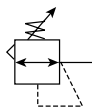
- Gauge Ports (2) 1/4 Inch
Can be used for full flow)
- Pressure Rating – Maximum Inlet Pressure 150 psig..... (10.0 bar)
- Port Threads 1/4, 3/8 Inch
- Temperature Rating 40°F to 125°F (4°C to 52°C)
- Weight 0.38 lb. (0.17 kg)

Materials of Construction

- Adjusting Screw Steel
- Body Acetal
- Bonnet and Seat Acetal
- Diaphragm (R45)..... Buna N
- Diaphragm (R46)..... EPDM
- Seals (R45)..... Buna N
- Seals (R46)..... EPDM
- Springs Stainless Steel
- Valve Poppet (R45)..... Buna N
- Valve Poppet (R46)..... EPDM

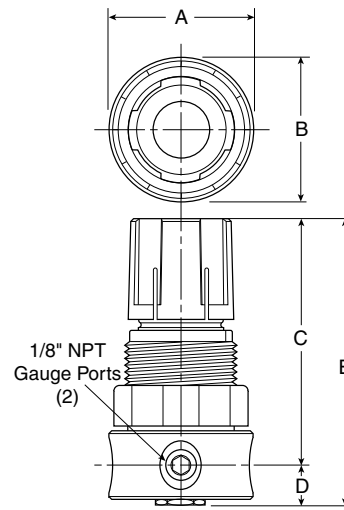


R364, R374 Regulators – Miniature



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)	

Standard part numbers shown bold.

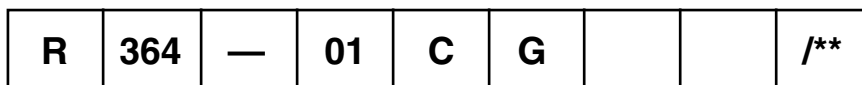
For other models refer to ordering information below.

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



<p>Series</p> <p>R364 Brass R374 Aluminum</p>	<p>Port Threads</p> <p>– NPT G BSPP</p>	<p>Reduced Pressure Range</p> <p>A 0-25 PSIG B 0-60 PSIG C 0-125 PSIG</p>	<p>Options</p> <p>G Gauge K Non-Relieving P Panel Mount Nut T Tamperproof X64 Fluorocarbon O-Rings and Diaphragm X42 Constant Bleed Innevalve X21 High Flow Innevalve X10 Max. Pressure Limiting Adjusting Screw X82 Brass Spring Cage / Adjusting Screw</p>	<p>Pressure Preset Options</p> <p>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.</p>	<p>Engineering Change Designator</p> <p>Will be entered at factory.</p>
<p>PortSize</p> <p>01 1/8 Inch 02 1/4 Inch</p>			<p>Preset / Pressure Limited</p> <p>Blank None XXX* Preset Pressure XXX* Pressure Limited</p>		

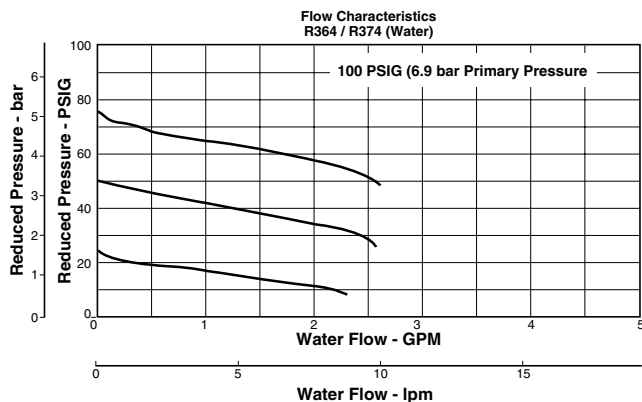
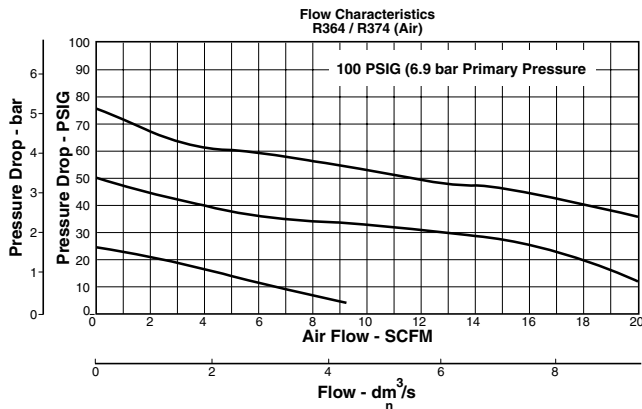
* Available Preset / Pressure Limited Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory. (Example: 065 = 65 PSIG)

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

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** – Plastic.....R05X51-P
 Aluminum.....R05X51-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
 Fluorocarbon –
 Non-Relieving Diaphragm, Valve Assembly RKR164KX64
 Relieving Diaphragm, Valve Assembly RKR164X64

Specifications

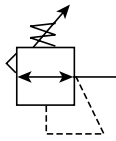
- Gauge Ports (2)** 1/8 Inch
- Port Threads** 1/8, 1/4 Inch
- Primary Pressure Rating** 2 to 125 PSIG (-15 to 8.5 bar)
- Supply Pressure** 300 PSIG Maximum (20.4 bar)
- Temperature Rating** 40°F to 125°F (4.4°C to 52°C)
- Weight** – Brass Body 0.5 lb. (0.23 kg) / Unit
 25 lb. (11.34 kg) / 48-Unit Master 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
 BottomStainless Steel
- Spring Cage** Acetal
- Bottom Plug, Innervale, Diaphragm Bottom** Brass

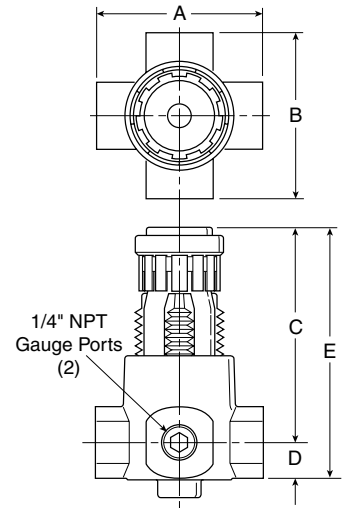


15R Regulators – Economy



Features

- Solid control piston with resilient seat for service-free operation
- Non-rising “locking” adjusting knob
- Compact, 3.30 inch (84mm) high by 2.12 inch (54mm) wide
- Easily serviced
- High flow: 1/4" – 21 SCFM[§]
 3/8" – 28 SCFM[§]



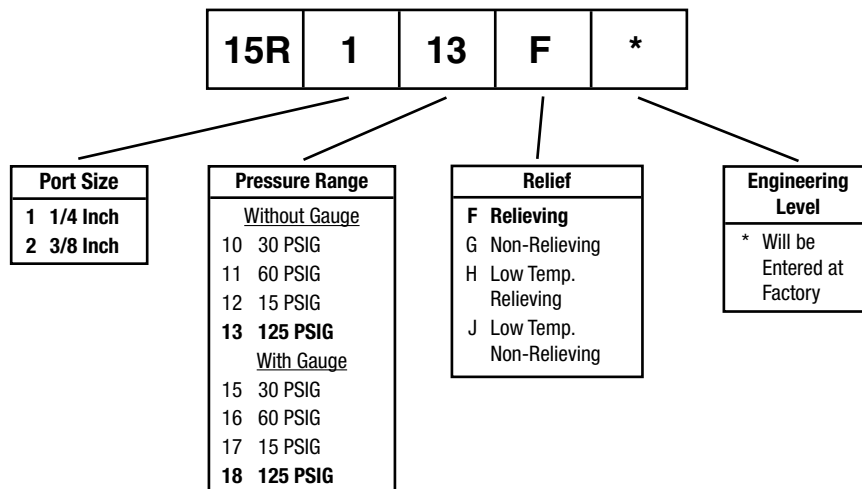
Port Size	NPT
Without Gauge	
1/4"	15R113F*
3/8"	15R213F*
With Gauge	
1/4"	15R118F*
3/8"	15R218F*

15R Regulator Dimensions		
A	B	C
2.12 (54)	2.00 (51)	2.60 (66)
D	E	
0.70 (18)	3.30 (84)	

Inches (mm)

Standard part numbers shown bold.
 For other models refer to ordering information below.
 NOTE: 1.218 Dia. (31mm) hole required for panel mounting.
[§] SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.

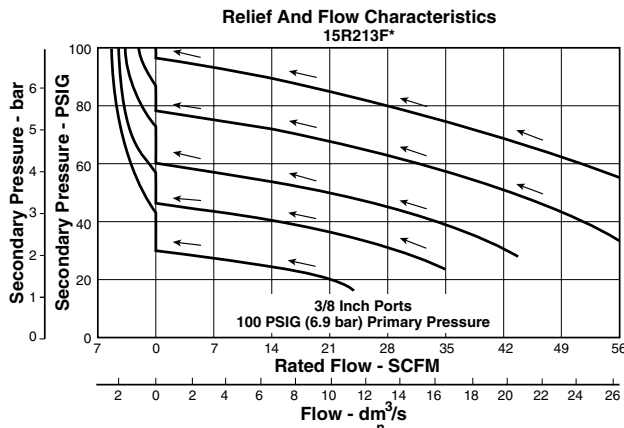
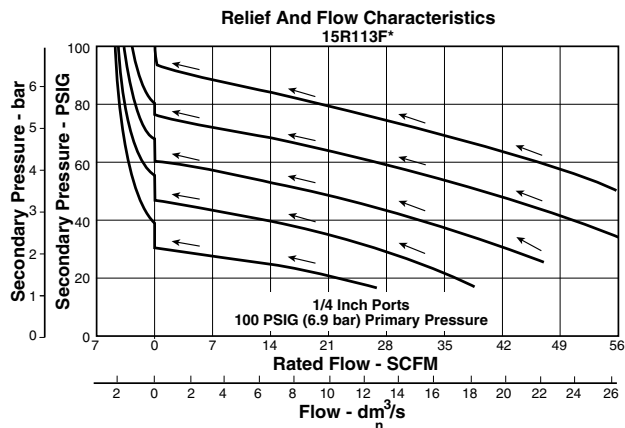
Ordering Information



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.

15R Regulator Kits & Accessories

- Body Service Kit – Unbalanced PS424B
- Bonnet Assembly Kit L01369
- Gauges – 30 PSIG, 1/8" NPT (0 to 2.1 bar) K4515N18030
- 60 PSIG, 1/8" NPT (0 to 4.1 bar) K4515N18060
- 160 PSIG, 1/8" NPT (0 to 11.0 bar) K4515N18160
- 60 PSIG, 1/4" NPT (0 to 4.1 bar) K4520N14060
- 160 PSIG, 1/4" NPT (0 to 11.0 bar) K4520N14160
- Mounting Bracket Kit* (Includes Panel Mount Nut)..... PS417B
- Panel Mount Nuts* – Plastic..... P78652
- Metal P01531
- Service Kits – Non-Relieving PS422
- Relieving PS423
- Springs – 1-15 PSIG Range (Yellow) P01176
- 1-30 PSIG Range (Black) P01175
- 1-60 PSIG Range (White) P01174
- 2-125 PSIG Range (Gold) P01173

*Tighten panel mount nut 2.8 to 3.4 Nm (25 to 30 in-lbs) of torque.

Specifications

- Gauge Ports (2) 1/4 Inch
(Can be used for Full Flow)
- Port Threads 1/4, 3/8 Inch
- Pressure Ratings 0 to 250 PSIG (0 to 17.2 bar)
- Secondary Pressure Ranges –
- Standard Pressure..... 2 to 125 PSIG (0 to 8.6 bar)
- Medium Pressure 1 to 60 PSIG (0 to 4.1 bar)
- Medium Pressure 1 to 30 PSIG (0 to 2.1 bar)
- Low Pressure..... 1 to 15 PSIG (0 to 1 bar)
- Temperature Ratings..... 32°F to 125°F (0°C to 52°C)
- Low Temperature -4°F to 125°F (-20°C to 52°C)
- Weight 0.5 lb. (0.23 kg)

Materials of Construction

- Adjusting Nut Brass
- Adjusting Stem & Spring Steel
- Body Zinc
- Bonnet, Seat, Piston & Valve Poppet Plastic
- Seals Nitrile

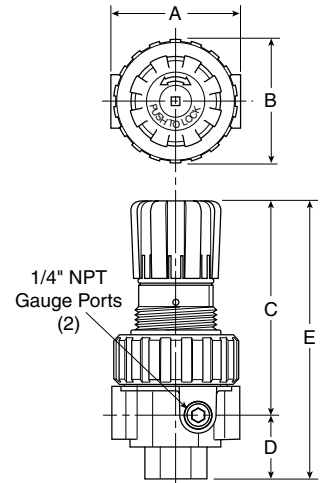


R10 Regulators – Compact



Features

- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Rolling diaphragm for extended life
- Two high flow 1/4" gauge ports can be used as additional outlets
- Easily serviced
- Removable non-rising knob for panel mounting and tamper resistance
- High flow: 1/4" – 53 SCFM[§]
 3/8" – 60 SCFM[§]
 1/2" – 75 SCFM[§]



Port Size	NPT
Without Gauge	
1/4"	R10-0211A*
3/8"	R10-0311A*
1/2"	R10-0411A*
With 160 PSI Gauge	
1/4"	R10-0218A*
3/8"	R10-0318A*
1/2"	R10-0418A*

R10 Regulator Dimensions				
A	B	C	D	E
2.81 (71)	2.74 (70)	4.69 (119)	1.39 (35)	6.08 (154)

inches (mm)

Standard part numbers shown bold.

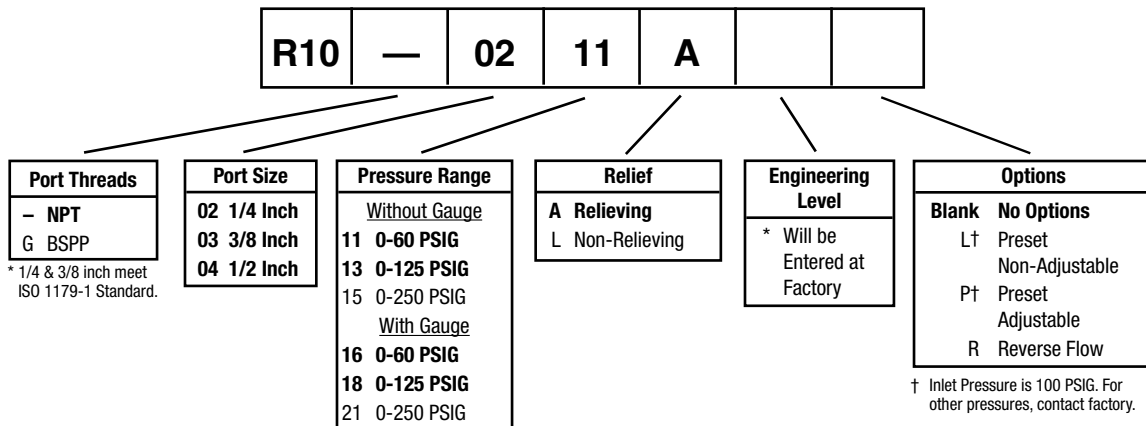
For other models refer to ordering information below.

NOTE: 2.00 Dia. (51mm) hole required for panel mounting.

§ SCFM = Standard cubic feet per minute at 100 psig inlet,

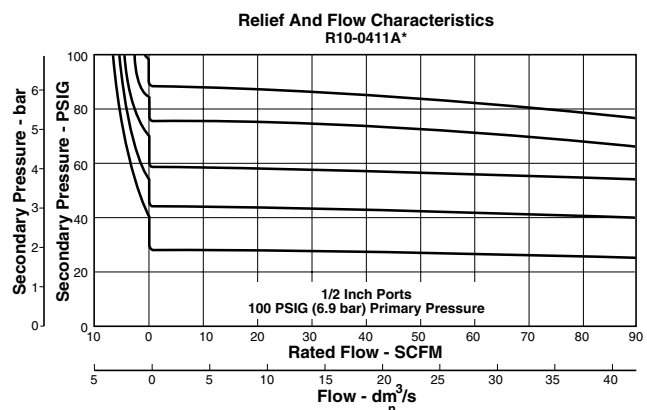
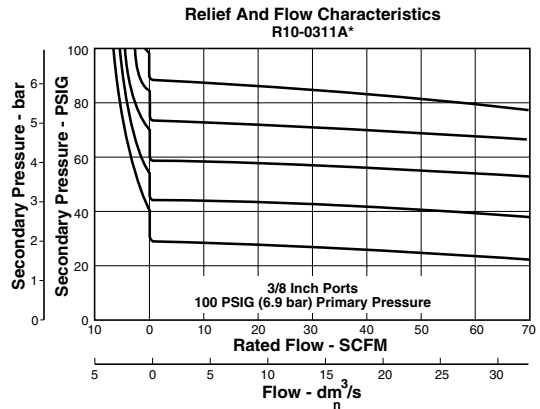
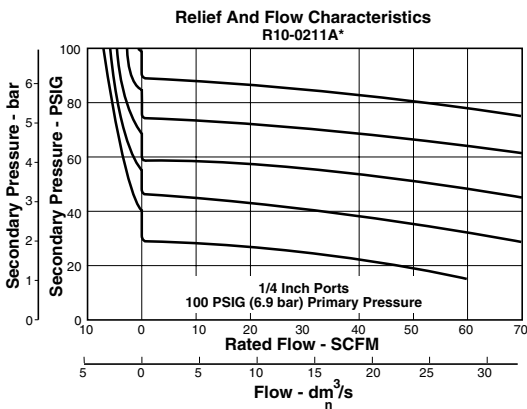
90 psig no flow secondary setting and 10 psig pressure drop.

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.

R10 Regulator Kits & Accessories

- Bonnet Assembly Kit PS715
- Control Knob P04069B
- Gauges – 60 psig (0 to 4.1 bar)..... K4520N14060
- 160 psig (0 to 11.0 bar)..... K4520N14160
- 300 psig (0 to 20.0 bar)..... K4520N14300
- Mounting Bracket Kit (Includes Panel Mount Nut)..... PS707
- Panel Mount Nut – Plastic P04082
- Metal..... P04079B
- Reverse Flow Service Conversion Kit –
 Relieving PS708R
- Service Kit – Relieving (Includes Poppet) PS708
- Non-Relieving (Includes Poppet)..... PS709
- Springs – 1-30 psig Range..... P01698
- 1-60 psig Range..... P04062
- 2-125 psig Range..... P04063
- 5-250 psig Range..... P04064
- Tamperproof Kit PS737

Specifications

- Gauge Ports (2) 1/4 Inch
 (Can be used as additional High Flow 1/4 Inch Outlet Ports)
- Port Threads 1/4, 3/8, 1/2 Inch

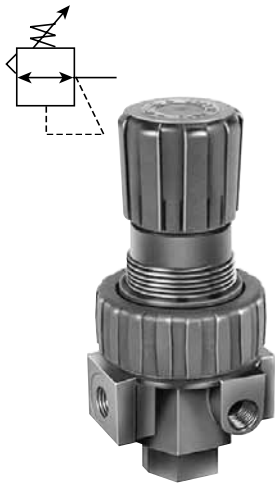
- Primary Pressure Rating –
 Maximum Primary Pressure 250 psig (17.2 bar)
- Secondary Pressure Ranges –
 Standard Pressure..... 2 to 125 psig (0 to 8.6 bar)
- Low Pressure..... 1 to 60 psig (0 to 4.1 bar)
- High Pressure..... 5 to 250 psig (0.4 to 17.2 bar)
- Temperature Rating 32°F to 175°F (0°C to 80°C)
- Low Temperature -4°F to 125°F (-20°C to 52°C)
- Weight 1.6 lb. (0.7 kg)

Materials of Construction

- Adjusting Stem Steel
- Body Zinc
- Bonnet, Piston Stem, Valve Poppet & Cap Plastic
- Collar, Knob..... Plastic
- Diaphragm Nitrile
- Seals Nitrile
- Springs – Poppet Stainless
- Control..... Steel

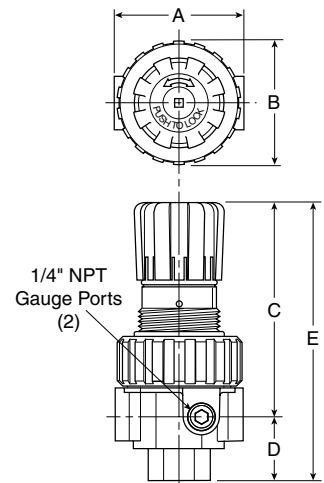


R10 Regulators – Standard



Features

- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Rolling diaphragm for extended life
- Two high flow 1/4" gauge ports can be used as additional outlets
- Easily serviced
- Removable non-rising knob for panel mounting and tamper resistance
- High flow: 3/4" – 90 SCFM[§]



Port Size	NPT
Without Gauge	
3/4"	R10-0611A*
With 160 PSI Gauge	
3/4"	R10-0618A*

R10 Regulator Dimensions				
A	B	C	D	E
3.24 (82)	2.74 (70)	4.79 (122)	1.61 (41)	6.40 (163)

inches (mm)

Standard part numbers shown bold.

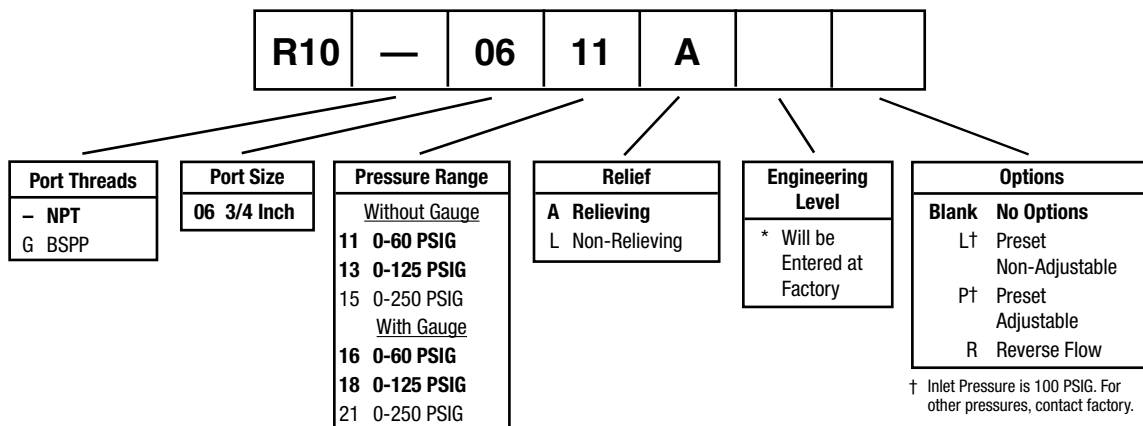
For other models refer to ordering information below.

NOTE: 2.00 Dia. (51mm) hole required for panel mounting.

§ SCFM = Standard cubic feet per minute at 100 psig inlet,

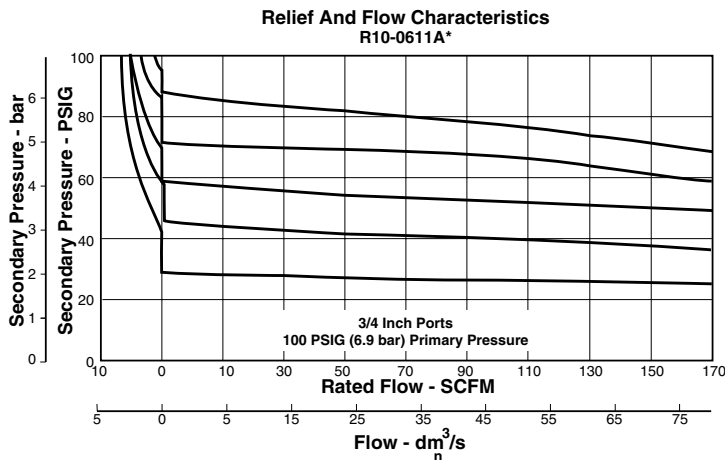
90 psig no flow secondary setting and 10 psig pressure drop.

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.

R10 Regulator Kits & Accessories

- Bonnet Assembly Kit PS715
- Control Knob P04069B
- Gauges – 60 psig (0 to 4.1 bar) K4520N14060
- 160 psig (0 to 11.0 bar) K4520N14160
- 300 psig (0 to 20.0 bar) K4520N14300
- Mounting Bracket Kit (Includes Panel Mount Nut)..... PS807
- Panel Mount Nut – Plastic..... P04082
- Metal P04079B
- Reverse Flow Service Conversion Kit –
 Relieving..... PS808R
- Service Kit – Relieving (Includes Poppet)..... PS808
- Non-Relieving (Includes Poppet) PS809
- Springs – 1-30 psig Range P01698
- 1-60 psig Range P04062
- 2-125 psig Range P04063
- 5-250 psig Range P04064
- Tamperproof Kit PS737

Specifications

- Gauge Ports (2) 1/4 Inch
 (Can be used as additional High Flow 1/4 Inch Outlet Ports)
- Port Threads 1/2, 3/4 Inch
- Primary Pressure Rating –
 Maximum Primary Pressure 250 psig (17.2 bar)
- Secondary Pressure Ranges –
 Standard Pressure 2 to 125 psig (0 to 8.6 bar)
- Low Pressure 1 to 60 psig (0 to 4.1 bar)
- High Pressure 5 to 250 psig (0.4 to 17.2 bar)
- Temperature Rating 32°F to 175°F (0°C to 80°C)
- Low Temperature -4°F to 125°F (-20°C to 52°C)
- Weight 2.5 lb. (1.1 kg)

Materials of Construction

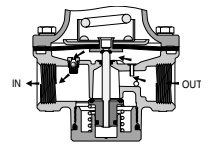
- Adjusting Stem Steel
- Body Zinc
- Bonnet, Piston Stem, Valve Poppet & Cap Plastic
- Collar, Knob Plastic
- Diaphragm Nitrile
- Seals Nitrile
- Springs – Poppet Stainless
- Control Steel

R119 Regulators – Standard

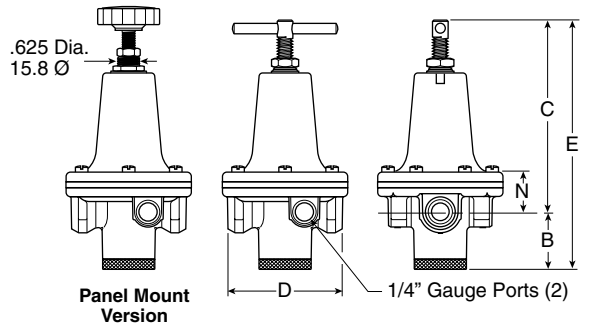
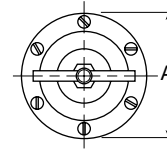


Features

- 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§



X80 Reverse Flow Option



Port Size	NPT Relieving	BSPP 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	—

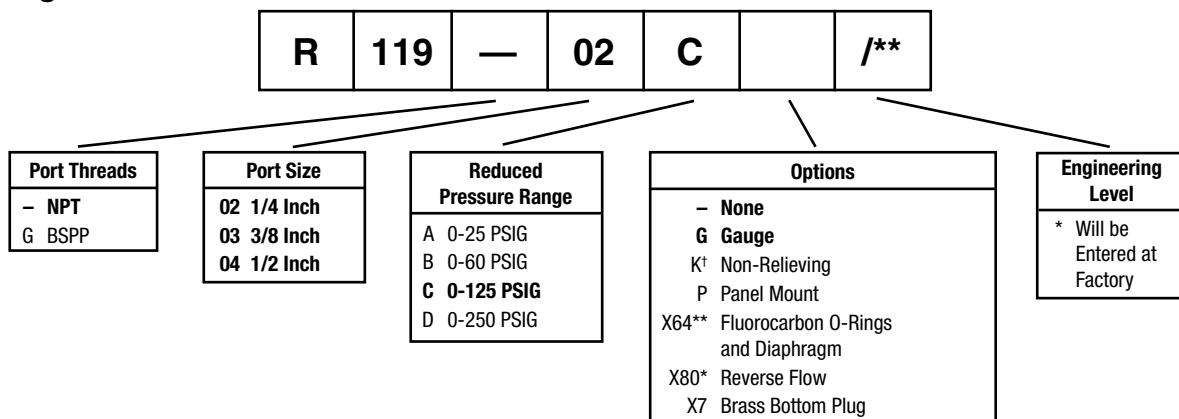
R119 Regulator Dimensions					
A	B	C	D	E	N
R119-02C, R119-03C					
3.00 (76)	1.38 (35)	5.29 (134)	2.74 (70.5)	6.67 (169)	.90 (24)
R119-04C					
3.56 (90)	1.56 (40)	5.34 (136)	3.25 (83)	6.90 (175)	1.45 (37)

inches (mm)

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 20 PSIG pressure drop.

Ordering Information



* Reverse flow for use downstream of control valves.

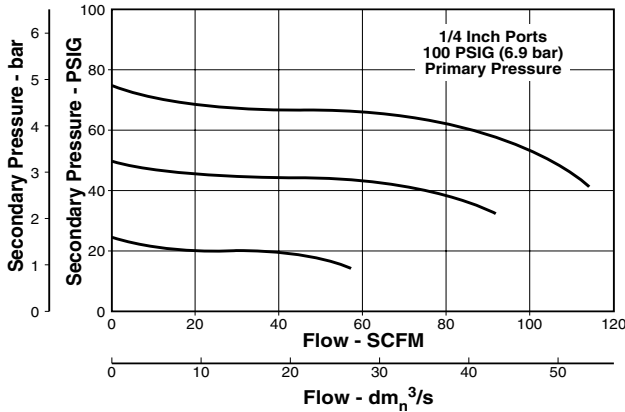
** Brass Bottom Plug Standard with X64 Option.

† Not available with 250 PSIG spring

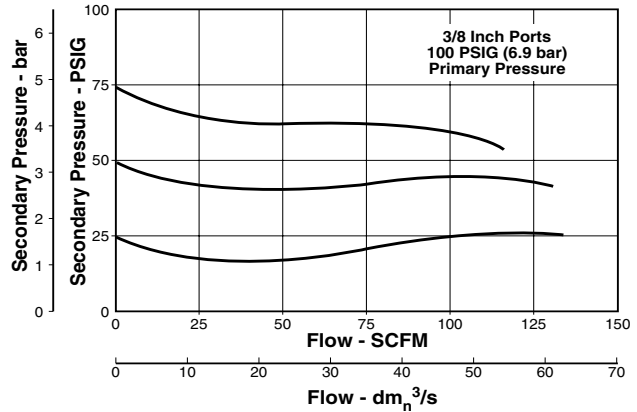
BOLD ITEMS ARE MOST POPULAR.

Technical Information

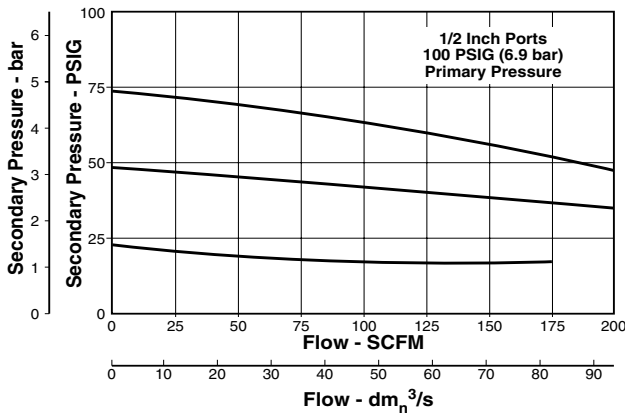
Flow Characteristics
R119-02C



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
 - Spring Cage & T-Handle Kit (1/4 & 3/8).....RKC119Y
 - Spring Cage & Insert Only Kit (1/2) SAC18A3/BK
- 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 CageZinc
- Bottom Plug Nylon
- Innervalve Brass
- Seals Buna N

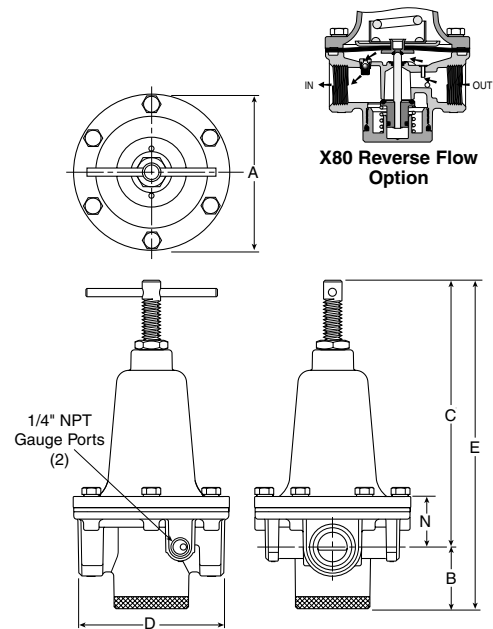


R119 Regulators – Hi-Flow



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
- High flow: 3/4" 300 SCFM
 1" 400 SCFM
 1-1/4" & 1-1/2" 500 SCFM



X80 Reverse Flow Option

Port Size	NPT Relieving
Without Gauge 0-125 PSIG Reduced Pressure	
3/4"	R119-06C
1"	R119-08C
1-1/4"	R119-10C
1-1/2"	R119-12C
With Gauge 0-125 PSIG Reduced Pressure	
3/4"	R119-06CG
1"	R119-08CG
1-1/4"	R119-10CG
1-1/2"	R119-12CG

R119 Regulator Dimensions					
A	B	C	D	E	N
R119-06C, R119-08C					
4.69 (119)	1.87 (47)	8.15 (207)	4.38 (111)	10.02 (255)	1.61 (41)
R119-10C, R119-12C					
4.94 (125)	1.81 (46)	8.53 (217)	4.94 (125)	10.34 (263)	1.99 (50.6)

inches (mm)

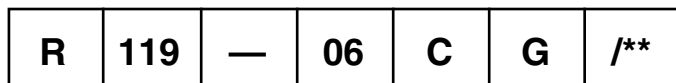
⚠ WARNING

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

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 20 PSIG pressure drop.

Ordering Information



Port Threads
- NPT
G BSPP

Port Size
06 3/4 Inch
08 1 Inch
10 1-1/4 Inch
12 1-1/2 Inch

Reduced Pressure Range
C 0-125 PSIG
D 0-250 PSIG

Options
- None
G Gauge
K Non-Relieving
X64** Fluorocarbon O-Rings and Diaphragm
X80* Reverse Flow
X7 Brass Bottom Plug

Engineering Level
* Will be Entered at Factory

* Reverse flow for use downstream of control valves.

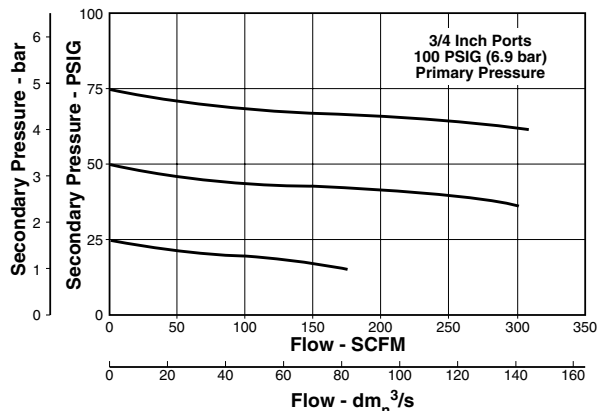
** Brass Bottom Plug Standard with X64 Option.

BOLD ITEMS ARE MOST POPULAR.

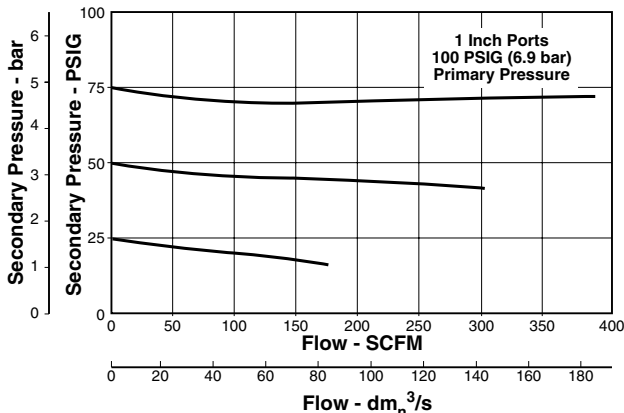


Technical Information

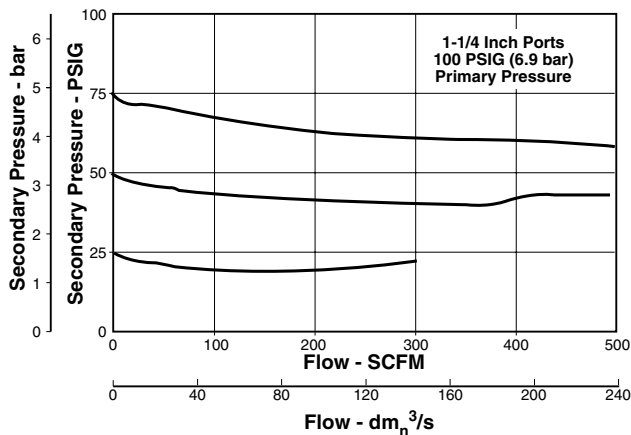
Flow Characteristics
R119-06C



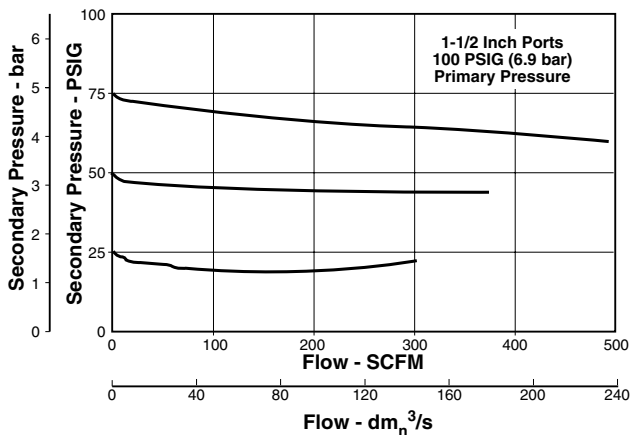
Flow Characteristics
R119-08C



Flow Characteristics
R119-10C



Flow Characteristics
R119-12C



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 18B57

Repair Kits –

- Non-Relieving Diaphragm,
Valve Assembly (3/4", 1") RK118B
- Non-Relieving Diaphragm,
Valve Assembly (1-1/4", 1-1/2") RK118D
- Relieving Diaphragm,
Valve Assembly (3/4", 1") RK119B
- Relieving Diaphragm,
Valve Assembly (1-1/4", 1-1/2") RK119D

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

Specifications

- Gauge Ports (2) 1/4 Inch
- Port Threads 3/4, 1, 1-1/4, 1-1/2 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 –
 - R119-06, R119-08 6.2 lb. (2.81 kg) / Unit
25 lb. (11.34 kg) / 4-Unit Master Pack
 - R119-10, R119-12 7.2 lb. (3.27 kg) / Unit
29 lb. (13.15 kg) / 4-Unit Master Pack

Materials of Construction

- Adjusting Screw, Springs Steel
- Body, Spring Cage Zinc
- Bottom Plug, Inner Valve Brass
- Seals Buna N

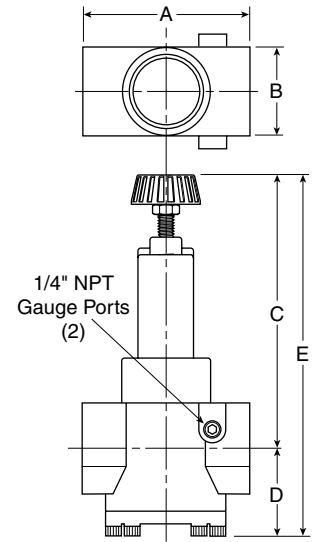


09R Regulators – Hi-Flow



Features

- Piston design for reduced downtime
- High flow
- Balanced poppet for quick and accurate regulation
- Two full flow 1/4" gauge ports which can be used as additional outlets
- Self relieving piston standard
- High flow: 2" – 1000 SCFM§



Port Size	NPT
Without Gauge	
2"	09R813B*

09R Regulator Dimensions				
A	B	C	D	E
5.30 (135)	3.60 (91)	9.10 (231)	2.80 (71)	11.90 (302)

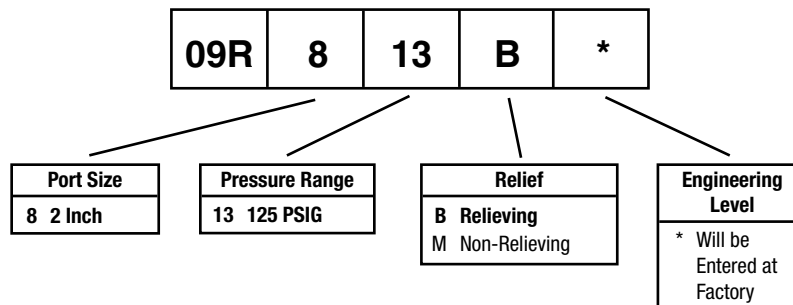
Inches (mm)

Standard part numbers shown bold.

For other models refer to ordering information below.

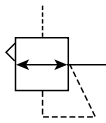
§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.

Ordering Information



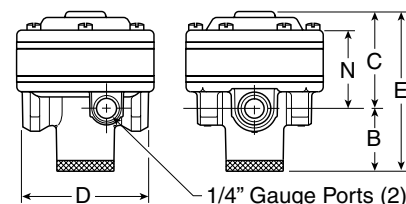
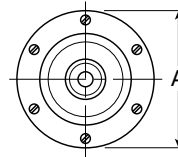
BOLD ITEMS ARE MOST POPULAR.

R119 – Pilot Operated Regulators



Features

- Adapted for control by a remote or distant small pilot regulator. Ideal for maximum capacity requirements in applications where units are not readily accessible
- 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 and constant bleed pilot for quick and accurate regulation.
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Reverse flow available
- High flow: 1/4" - 100 SCFM[§]
 3/8" - 110 SCFM[§]
 1/2" - 150 SCFM[§]



Port Size	NPT Relieving	BSPP Relieving
Without Gauge 0-125 PSIG Reduced Pressure		
1/4"	R119-02J	R119G02J
3/8"	R119-03J	R119G03J
1/2"	R119-04J	R119G04J

R119 Regulator Dimensions					
A	B	C	D	E	N
R119-02J, R119-03J					
3.00 (76)	1.38 (35)	1.98 (50)	2.74 (70)	3.55 (90)	1.57 (40)
R119-04J					
3.56 (90)	1.56 (40)	2.33 (59)	3.25 (83)	3.90 (99)	1.91 (49)

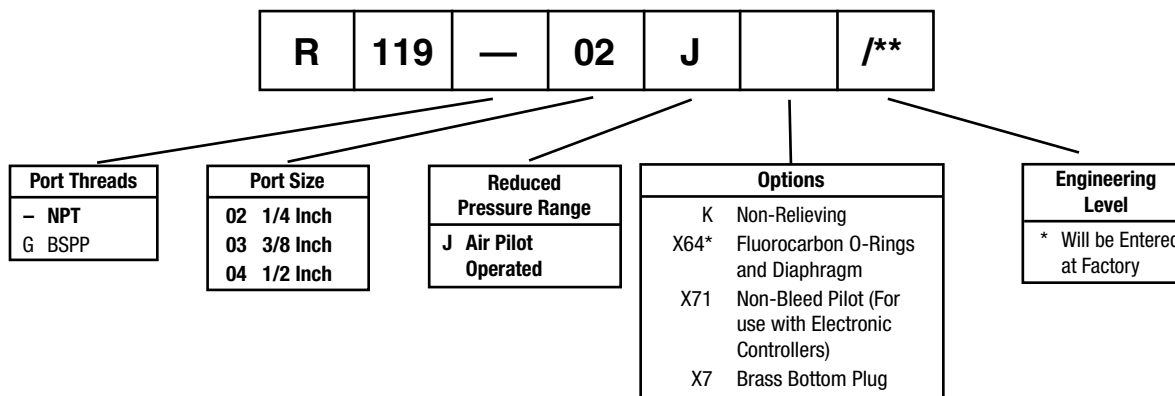
inches
(mm)

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 20 PSIG Pressure Drop.

⚠ WARNING

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

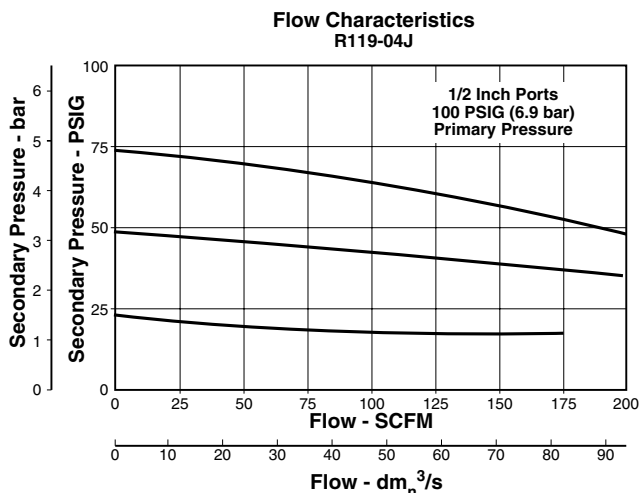
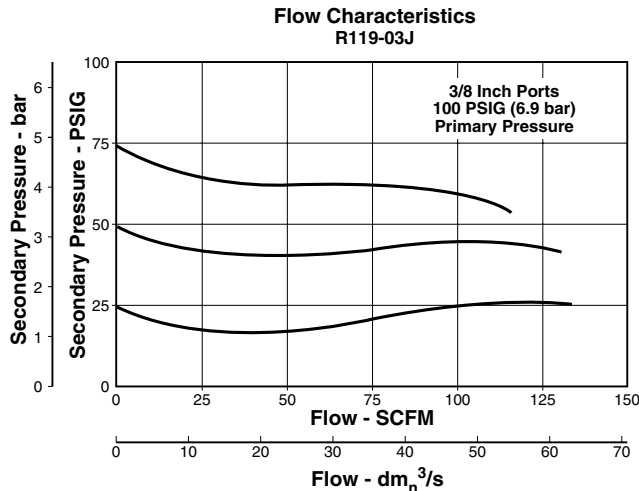
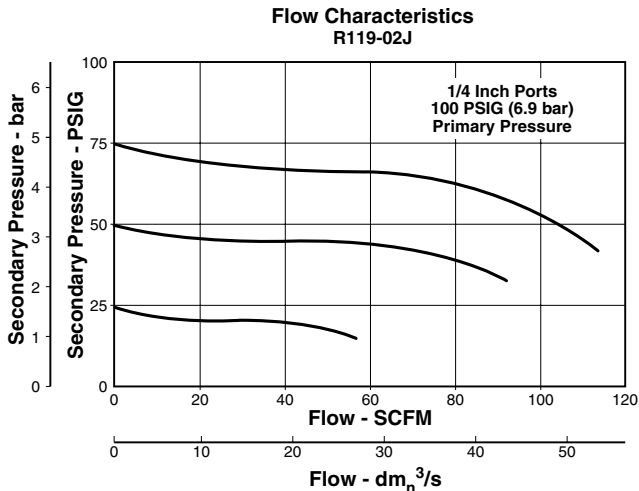
Ordering Information



* Brass Bottom Plug Standard with X64 Option.

BOLD ITEMS ARE MOST POPULAR.

Technical Information



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

Repair Kits –

- Non-Relieving Diaphragm,
Valve Assembly (1/2")RK118X20A
- Non-Relieving Diaphragm,
Valve Assembly (1/4", 3/8")RK118X20Y
- Relieving Diaphragm,
Valve Assembly (1/2")RK119X20A
- Relieving Diaphragm,
Valve Assembly (1/4", 3/8")RK119X20Y

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

For Non-Bleed Pilot Repair Kits, add X71 to Kit Number suffix.

Specifications

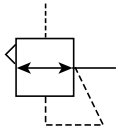
- Gauge Ports (2)** 1/4 Inch
- Port Threads** 1/4, 3/8, 1/2 Inch
- Pilot Port –**
 - 1/4 & 3/8" Threads1/8"
 - 1/2" Threads.....1/4"
- Reduced Pressure Range –**
Adjustable to within 5 to 7 PSIG of Supply Pressure
- Supply Pressure** 300 PSIG Maximum (20.4 bar)
- Air Consumption –**
Constant bleed from air pilot chamber: approx. 0.17 SCFM (10 SCFH)
- Temperature Rating** 40°F to 125°F (4.4°C to 52°C)
- Weight –**
 - R119-02J, R119-03J 1.6 lb. (0.73 kg) / Unit
19 lb. (8.62 kg) / 12-Unit Master Pack
 - R119-04J 2.6 lb. (1.18 kg) / Unit
21 lb. (9.53 kg) / 8-Unit Master Pack

Materials of Construction

- Body, Ring, Top Plate**Zinc
- Bottom Plug** Nylon
- Innervalve** Brass
- Seals** Buna N

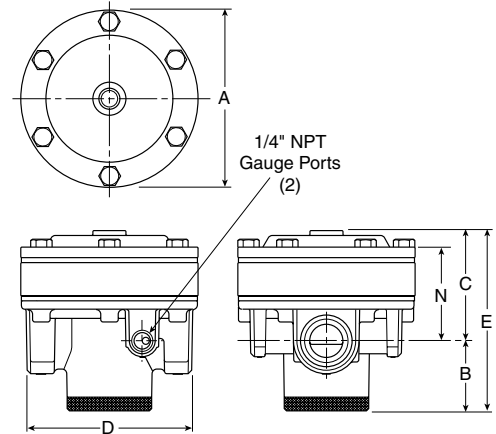


R119 – Pilot Operated Regulators



Features

- Adapted for control by a remote or distant small pilot regulator. Ideal for maximum capacity requirements in applications where units are not readily accessible
- 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 and constant bleed pilot for quick and accurate regulation
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Reverse flow version available
- High flow: 3/4" & 1" – 300 SCFM[§]
 1-1/4" & 1-1/2" – 500 SCFM[§]



Port Size	NPT
	Relieving
Without Gauge 0-125 PSIG Reduced Pressure	
3/4"	R119-06C
1"	R119-08C
1-1/4"	R119-10C
1-1/2"	R119-12C

R119-06J, R119-08J Pilot Regulator Dimensions					
A	B	C	D	E	N
4.72 (120)	1.87 (47)	2.94 (75)	4.38 (111)	4.81 (122)	2.47 (63)
R119-10J, R119-12J Pilot Regulator Dimensions					
A	B	C	D	E	N
4.94 (125)	1.81 (46)	3.32 (84)	4.94 (125)	5.13 (130)	2.88 (736)

inches (mm)

Standard part numbers shown bold.

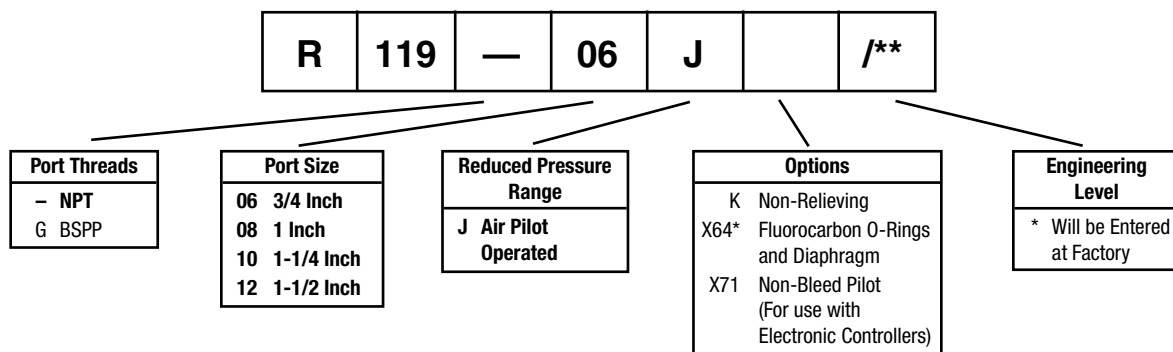
For other models refer to ordering information below.

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

⚠ WARNING

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

Ordering Information

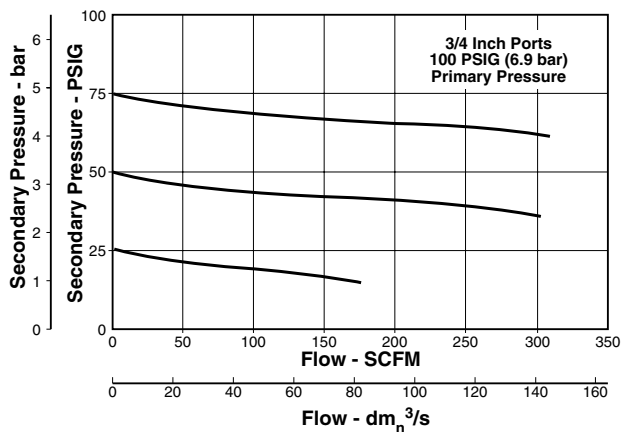


* Brass Bottom Plug Standard with X64 Option.

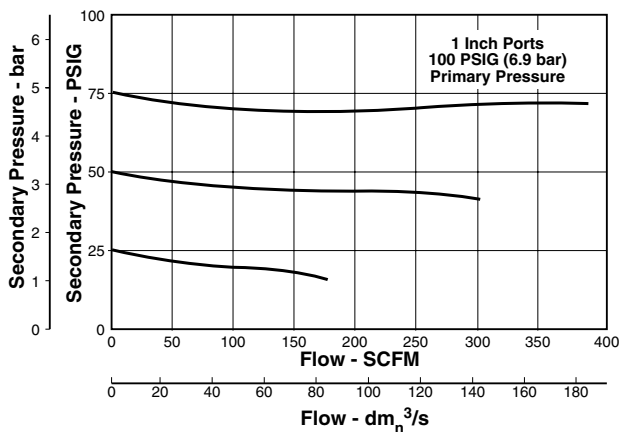
BOLD ITEMS ARE MOST POPULAR.

Technical Information

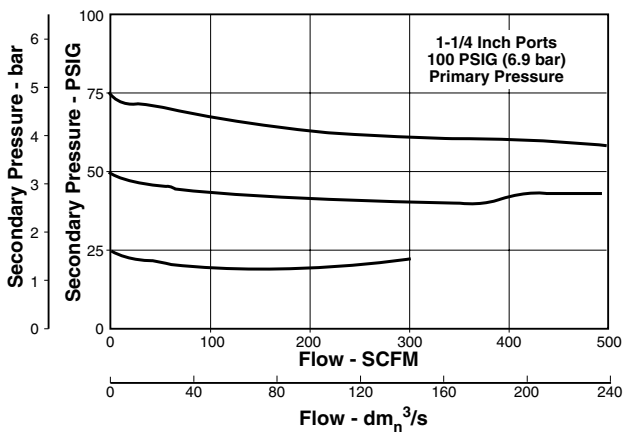
Flow Characteristics
R119-06J



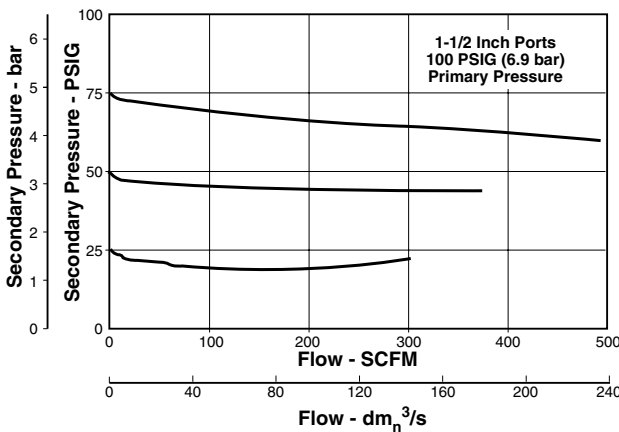
Flow Characteristics
R119-08J



Flow Characteristics
R119-10J



Flow Characteristics
R119-12J



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

Repair Kits –

- Non-Relieving Diaphragm,
Valve Assembly (3/4", 1") RK118X20B
- Non-Relieving Diaphragm,
Valve Assembly (1-1/4", 1-1/2") RK118X20D
- Relieving Diaphragm,
Valve Assembly (3/4", 1") RK119X20B
- Relieving Diaphragm,
Valve Assembly (1-1/4", 1-1/2") RK119X20D

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

For Non-Bleed Pilot Repair Kits, add X71 to Kit Number suffix.

Specifications

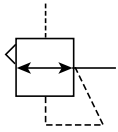
- Gauge Ports (2) 1/4 Inch
- Port Threads 3/4, 1, 1-1/4, 1-1/2 Inch
- Reduced Pressure Range –
Adjustable to Within 5 to 7 PSIG of Supply Pressure
- Supply Pressure 300 PSIG Maximum (20.4 bar)
- Air Consumption –
Constant Bleed from Air Pilot Chamber:
Approximately 0.17 SCFM (10 SCFH)
- Temperature Rating 40°F to 125°F (4.4°C to 52°C)
- Weight –
R119-06J, R119-08J 5.2 lb. (2.36 kg) / Unit
42 lb. (19.05 kg) / 8-Unit Master Pack
R119-10J, R119-12J 5.6 lb. (2.54 kg) / Unit
46 lb. (20.87 kg) / 8-Unit Master Pack

Materials of Construction

- Body, Ring, Top Plate Zinc
- Bottom Plug, Innervale Brass
- Seals Buna N

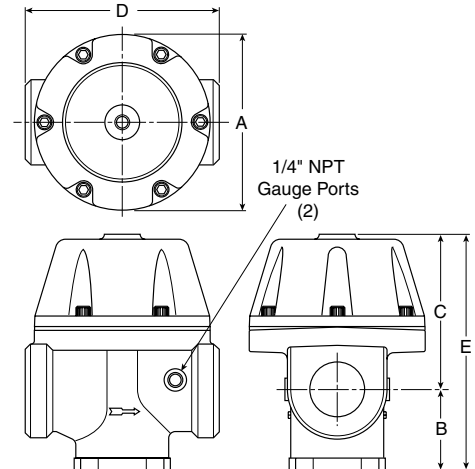


R119 – Pilot Operated Regulators



Features

- Adapted for control by a remote or distant small pilot regulator. Ideal for maximum capacity requirements in applications where units are not readily accessible
- High flow performance featuring rugged design for the most demanding applications
- Ideal for those installations calling for constant pressure with wide variation in flow
- Piston operated design with balanced poppet and dual constant bleed for quick and accurate regulation
- High flow: 2" & 2-1/2" – 1800 SCFM§



Port Size	NPT
	Relieving
Without Gauge 0-125 PSIG Reduced Pressure	
2"	R119-16J
2-1/2"	R119-20J

R119-16J, R119-20J Pilot Regulator Dimensions				
A	B	C	D	E
6.63 (168)	3.09 (79)	7.78 (147)	7.31 (185)	10.87 (276)

inches (mm)

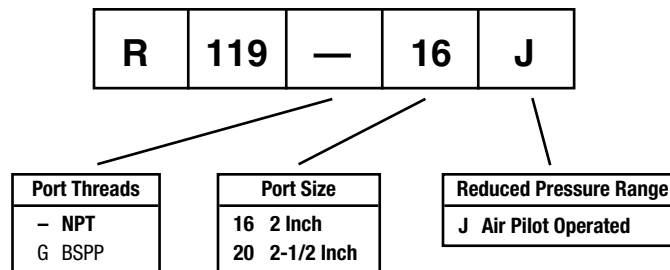
Standard part numbers shown bold.

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 20 PSIG Pressure Drop.

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

Ordering Information

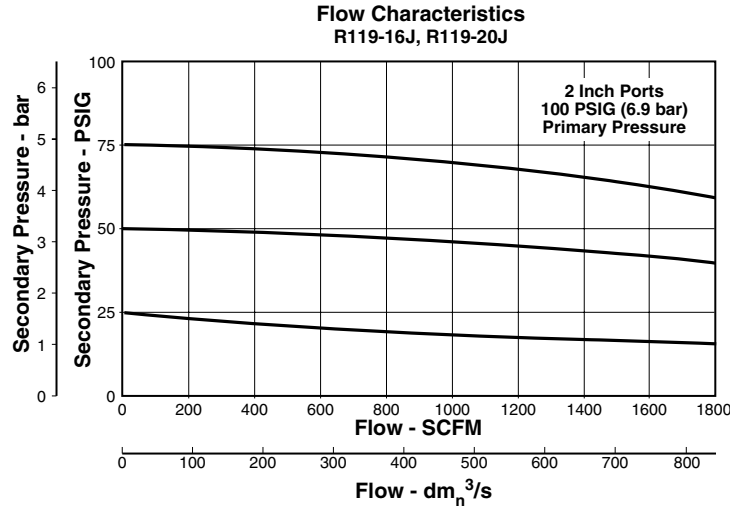


NOTE: Non-Relieving Not Available.

BOLD ITEMS ARE MOST POPULAR.



Technical Information



R119 Regulator Kits & Accessories

Gauges –

- 2" Dial Size, 1/4" Back Connection
0 to 60 PSIG (0 to 400 kPa)275Y60S
- 2" Dial Size, 1/4" Back Connection
0 to 160 PSIG (0 to 1100 kPa)275Y160S
- 2" Dial Size, 1/4" Back Connection
0 to 300 PSIG (0 to 2068 kPa)275Y300S

Repair Kits –

- Piston Type Regulation (2", 2-1/2")RK119G
- Piston & Cylinder Kit.....SA119-0291
- Cylinder Only Kit.....118F29

Specifications

- Gauge Ports (2)** 1/4 Inch
(Can be used for Full Flow)
High Pressure Outlet for Pilot (Not seen in photo) 1/4 Inch
- Port Threads**2, 2-1/2 Inch
- Reduced Pressure Range –**
Adjustable to Within 5 to 7 PSIG of Supply Pressure
- Supply Pressure**300 PSIG Maximum (20.4 bar)
- Air Consumption –**
Constant Bleed from Air Pilot Chamber:
Approximately 0.17 SCFM (10 SCFH)
Constant Bleed from Reduced Pressure:
Approximately 0.17 SCFM (10 SCFH)
- Temperature Rating** 40°F to 120°F (4.4°C to 48.9°C)
- Weight –**
R119-16J, R119-20J 11 lb. (4.99 kg) / Unit
12 lb. (5.44 kg) / 1-Unit Master Pack

Materials of Construction

- Body, Piston**Aluminum
- Seals**Buna N
- Innervalve**.....Brass & Stainless