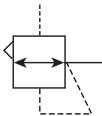


11R Pilot Controlled Regulator – Compact

- Balanced poppet provides quick response and accurate pressure regulation
- Pilot controlled regulators can be mounted “out of reach” with pilot regulator installed in a convenient location
- Solid control piston for extended life
- Two full flow 1/4" gauge ports can be used as additional outlets
- Pilot port 1/4 Inch
- 1/4", 3/8", 1/2" ports (NPT, BSPP)



Port size	Description	Part number
1/4"	Without gauge	11R115PC
1/4"	With 160 psi gauge	11R121PC
3/8"	Without gauge	11R215PC
3/8"	With 160 psi gauge	11R221PC
1/2"	Without gauge	11R315PC
1/2"	With 160 psi gauge	11R321PC

NOTE: 2.0 Dia. (51 mm) hole required for panel mounting.

Operating information

Supply pressure (max):

0 to 250 psig (0 to 17.2 bar)

Operating temperature:

32°F to 175°F (0°C to 80°C)

Flow capacity†:

High flow

1/4"

85 scfm (40 dm³/s, ANR)

3/8"

95 scfm (44.8 dm³/s, ANR)

1/2"

95 scfm (44.8 dm³/s, ANR)

Gauge ports (2):

1/4 inch
(can be used as additional full flow 1/4 inch outlet ports)

Weight:

1.3 lb (0.53 kg)

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

Ordering information:

11R

2

15

P

C

Port Threads

1/4 inch

1

3/8 inch

2

1/2 inch

3

Relief / Gauge Options

Without gauge

Non-relieving piston

14

Relieving piston

15

With gauge *

Non-relieving piston

19

Relieving piston

21

Port Type

Blank

NPT

1

BSPP

Engineering Level

C

Current

Adjustment

P

Pilot operated

* Includes 2" dial face gauge 0 to 300 psig.

Most popular.

For inventory, lead times, and kit lookup, visit www.pdnplu.com

K50

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

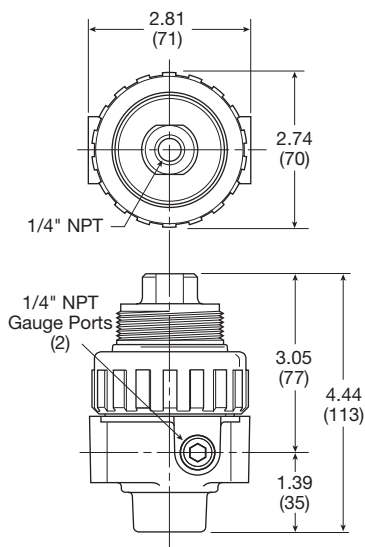
Compact Pilot Controlled Regulators

Material Specifications

Body & pilot cap	Zinc
Piston, valve poppet, & collar	Plastic
Seals	Nitrile
Springs	Steel

Repair and Service Kits

Seat Insert kit	PS713P
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Mounting bracket kit (includes panel mount nut)	PS707P
Panel mount nut, plastic	P04082
Panel mount nut, metal	P04079B
Pilot conversion kit – relieving	PS745P
Non-Relieving	PS747P
Relieving	PS749P

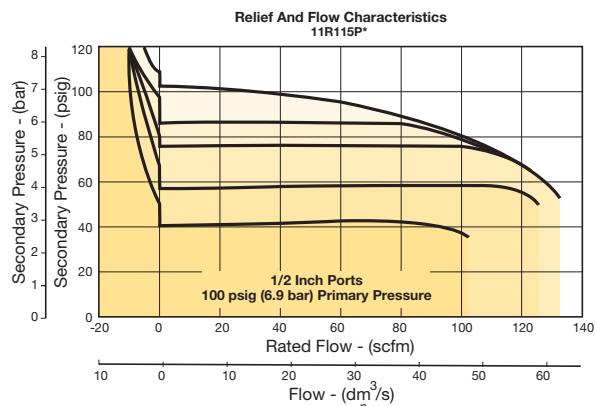


Inches (mm)

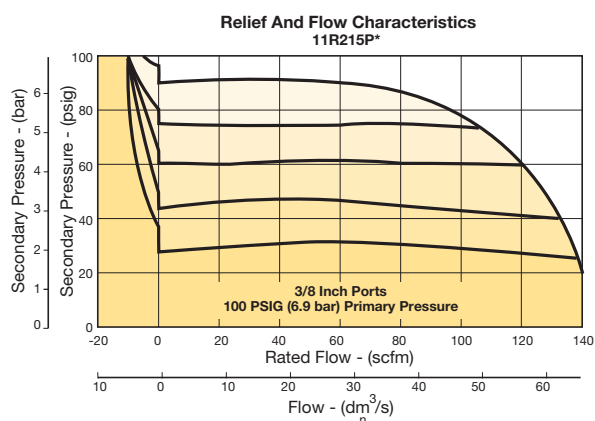
Air Preparation Products Regulator Products

Flow Charts

1/2" Regulator



3/8" Regulator

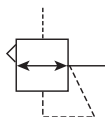


WARNING

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

12R Pilot Controlled Regulator – Standard

- Balanced poppet provides quick response and accurate pressure regulation
- Pilot controlled regulators can be mounted “out of reach” with pilot regulator installed in a convenient location
- Solid control piston for extended life
- Two full flow 1/4" gauge ports can be used as additional outlets
- Pilot port 1/4 Inch
- 1/2", 3/4" ports (NPT, BSPP, BSPT)



Port size	Description	Part number
1/2"	Without gauge	12R315PB
1/2"	With 160 psi gauge	12R321PB
3/4"	Without gauge	12R415PB
3/4"	With 160 psi gauge	12R421PB

NOTE: 2.0 Dia. (51 mm) hole required for panel mounting.

Operating information

Supply pressure (max): 0 to 250 psig (0 to 17.2 bar)

Operating temperature: 32°F to 175°F (0°C to 80°C)

Flow capacity†:

High flow	1/2"	140 scfm (66 dm³/s, ANR)
	3/4"	140 scfm (66 dm³/s, ANR)

Gauge ports (2):

1/4 inch
(can be used as additional full flow 1/4 inch outlet ports)

Weight:

2.0 lb (0.91 kg)

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

Ordering information:

12R	3	15	P	B	
Port Threads					
1/2 inch	3				
3/4 inch	4				
Relief / Gauge Options					
Without gauge					
Non-relieving piston	14				
Relieving piston	15				
With gauge *					
Non-relieving piston	19				
Relieving piston	21				
		Engineering Level			
		B Current			
		Adjustment			
		P Pilot operated			

* Includes 2" dial face gauge 0 to 300 psig.

* Includes 2" dial face gauge 0 to 300 psig.

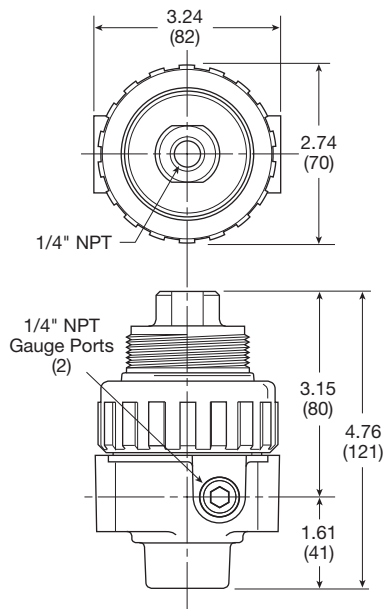
Standard Pilot Controlled Regulators

Material Specifications

Body & pilot cap	Zinc
Piston, valve poppet, & collar	Plastic
Seals	Nitrile
Springs	Steel

Repair and Service Kits

Seat insert kit	PS813P
2" dial face 60 psig (0 to 4.1 bar)	K4520N14060
2" dial face 160 psig (0 to 11.0 bar)	K4520N14160
2" dial face 300 psig (0 to 20.7 bar)	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar)	K4517N14160D
Mounting bracket kit (includes panel mount nut)	PS807P
Panel mount nut, plastic	P04082
Panel mount nut, metal	P04079B
Pilot conversion kit – relieving	PS745P
Non-relieving	PS847P
Relieving	PS849P

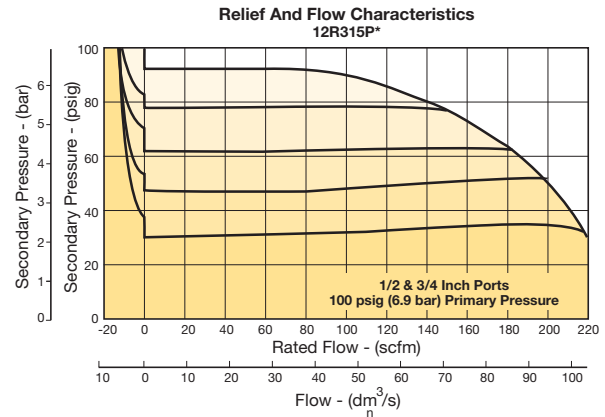


Inches (mm)

Air Preparation Products Regulator Products

Flow Charts

1/2 and 3/4" Regulator

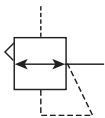


⚠ WARNING

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

P3NR Pilot Controlled Regulator - Hi-Flow

- 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
- 3/4", 1" 1-1/2" ports (NPT, BSPP)



Port size	Description	Part number
3/4"	Without gauge	P3NRA96BPP
1"	Without gauge	P3NRA98BPP
1-1/2" #	Without gauge	P3NRA9PBPP

1" port body with 1-1/2" port block.

Operating information

Supply pressure (max):

250 psig (17.2 bar)

Operating temperature:

32°F to 175°F (0°C to 80°C)

Flow capacity†:

High flow

3/4"	300 scfm (141.6 dm³/s, ANR)
1"	300 scfm (141.6 dm³/s, ANR)
1-1/2"	350 scfm (165.2 dm³/s, ANR)

Gauge ports (2):

1/4 inch

Weight:

3/4", 1"	3.3 lb (1.5 kg)
1-1/2" #	4.4 lb (2.0 kg)

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

1" port body with 1-1/2" port block

Ordering information:

P3N

R

A

9

8

B

P

P

Engineering Level

Current

A

Port Type

G thread (BSPP) female

1*

NPT female

9

Port Size

3/4" (w/o port blocks)

6

1" (w/o port blocks)

8

1-1/2" port blocks (w/ 1" ported body)

P

Pressure Gauge

P

Pilot operator, without gauge

Adjustment

P

Pilot operated

Relief

B

Relieving

* 3/4 & 1 inch meets ISO 1179-1 standard.

Note: BSPP ported units supplied using NPT ported bodies and BSPP port block kits.

Most popular.



For inventory, lead times, and kit lookup, visit www.pdnplu.com

Hi-Flow Pilot Controlled Regulators

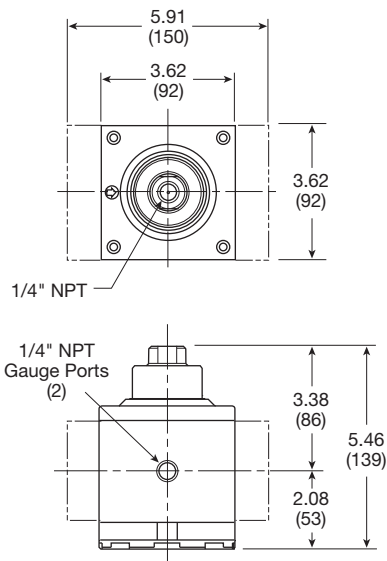
Material Specifications

Adjusting stem	Steel
Body	Aluminum
Bonnet	Aluminum
Piston	Plastic
Poppet assembly	Brass
Seals	Nitrile
Springs – poppet	Steel

Repair and Service Kits

2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Mounting bracket kit*	P3NKA00MW
Relieving	P3NKA00PD

* If 1-1/2 BSPP E02 fittings are required, use P3NKA00BMW.

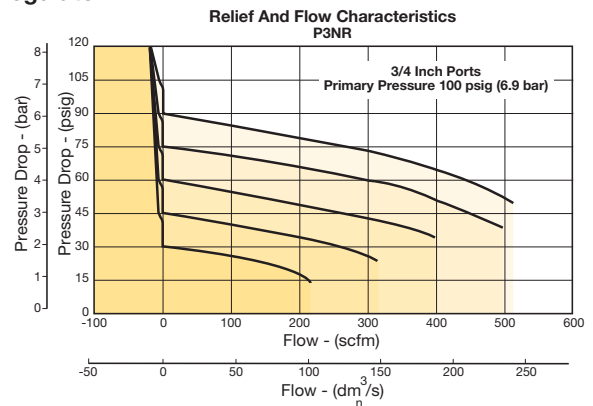


Inches (mm)

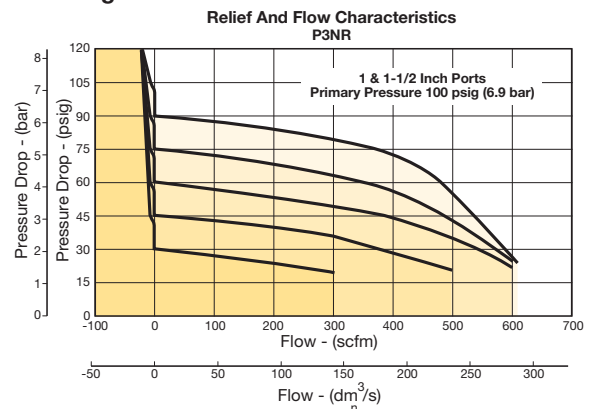
Air Preparation Products Regulator Products

Flow Charts

3/4" Regulator



1" & 1-1/2" Regulator

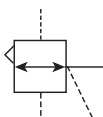


WARNING

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

R119 – Pilot Operated Regulators

- 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
- 1/4", 3/8", 1/2" ports (NPT, BSPP)



Port size	Description (0-125 psig reduced pressure)	Part number
1/4"	Without gauge, relieving, NPT	R119-02J/M2
3/8"	Without gauge, relieving, NPT	R119-03J/M2
1/2"	Without gauge, relieving, NPT	R119-04J/M2

Operating information

Supply pressure (max):	300 psig (0 to 20.7 bar)
Air consumption:	Constant bleed from air pilot chamber: approx. 0.17 scfm (10 scfh)
Operating temperature:	40°F to 125°F (4.4°C to 52°C)
Pilot pressure:	1/4", 3/8" thread - 1/8" 1/2" thread - 1/4"
Reduced pressure range:	Adjustable to within 5 to 7 psig (0.34 to 0.48 bar) of supply pressure
Flow capacity†:	
High flow	1/4" 100 scfm (47.2 dm³/s, ANR) 3/8" 110 scfm (51.9 dm³/s, ANR) 1/2" 150 scfm (70.8 dm³/s, ANR)
Gauge ports (2):	1/4 inch
Weight:	1/4" 1.6 lb (0.73 kg) 3/8" 1.6 lb (0.73 kg) 1/2" 2.6 lb (1.18 kg)

† scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow secondary setting and 20 psig pressure drop.

Ordering information:

R119	-	02	J		/M2	
Port Threads					Engineering Level	
NPT	-				/M2	Current
BSPP	G					
		Port Size		Options		
		1/4 inch	02			
		3/8 inch	03			
		1/2 inch	04			
Reduced Pressure Range		Air pilot operated				Blank
				K		Non-relieving
				X64*		Fluorocarbon o-rings and diaphragm
				X71		Non-bleed (for use with electronic controllers)
				X7		Brass bottom plug
* Brass bottom plug standard with X64 option.						

* Brass bottom plug standard with X64 option.

Most popular.



For inventory, lead times, and kit lookup, visit www.pdnplu.com

K56

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Material Specifications

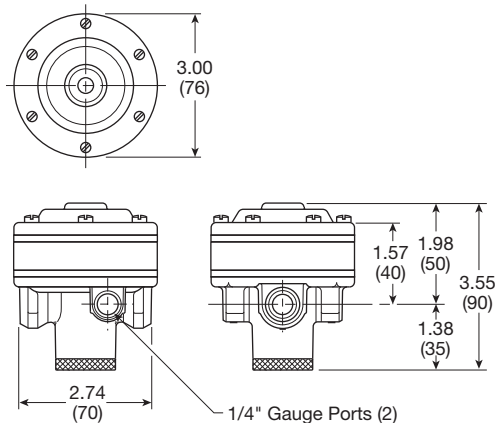
Body, ring, top plate	Zinc
Bottom plug	Nylon
Innervolve	Brass
Seals	Buna N

Repair and Service Kits

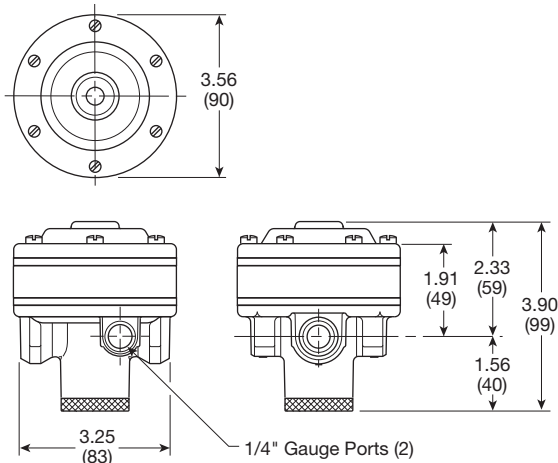
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Non-relieving diaphragm, valve assembly (1/2")	RK118X20A
Non-relieving 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.

R119-02J, R119-03J



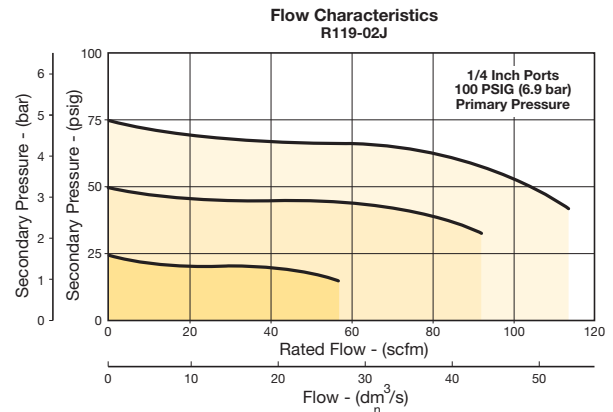
R119-04J



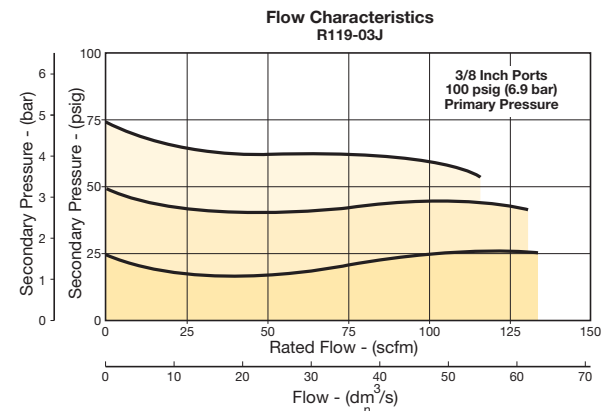
Inches (mm)

Flow Charts

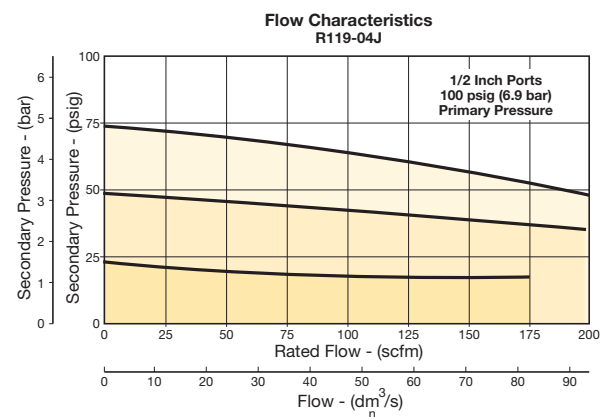
1/4" Regulator



3/8" Regulator



1/2" Regulator

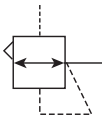


WARNING

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

R119 Pilot Operated Regulators - Hi-Flow

- 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
- 3/4", 1", 1-1/2" ports (NPT, BSPP)



Port size	Description (0-125 psig reduced pressure)	Part number
3/4"	Without gauge, relieving, NPT	R119-06J/M2
1"	Without gauge, relieving, NPT	R119-08J/M2
1-1/2"	Without gauge, relieving, NPT	R119-12J/M2

Operating information

Supply pressure (max):

300 psig (0 to 20.7 bar)

Air consumption:

Constant bleed from air pilot chamber: approx. 0.17 scfm (10 scfh)

Operating temperature:

40°F to 125°F (4.4°C to 52°C)

Reduced pressure range:

Adjustable to within 5 to 7 psig (0.34 to 0.48 bar) of supply pressure

Flow capacity†:

High flow

3/4"

300 scfm (141.6 dm³/s, ANR)

1"

300 scfm (141.6 dm³/s, ANR)

1-1/2"

500 scfm (236 dm³/s, ANR)

Gauge ports (2):

1/4 inch

Weight:

3/4"

5.2 lb (2.36 kg)

1"

5.2 lb (2.36 kg)

1-1/2"

5.6 lb (2.54 kg)

† scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow secondary setting and 20 psig pressure drop.

Ordering information:

R119

-

06

J

/M2

Port Threads

NPT -

BSPP G

Port Size

3/4 inch 06

1 inch 08

1-1/2 inch 12

Reduced Pressure Range

Air pilot operated J

Engineering Level

/M2 Current

Options

Blank None

K Non-relieving

X64* Fluorocarbon o-rings and diaphragm

X71 Non-bleed (for use with electronic controllers)

X80 Reverse flow

* Brass bottom plug standard with X64 option.

Most popular.

For inventory, lead times, and kit lookup, visit www.pdnplu.com

K58

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Hi-Flow Regulators

Material Specifications

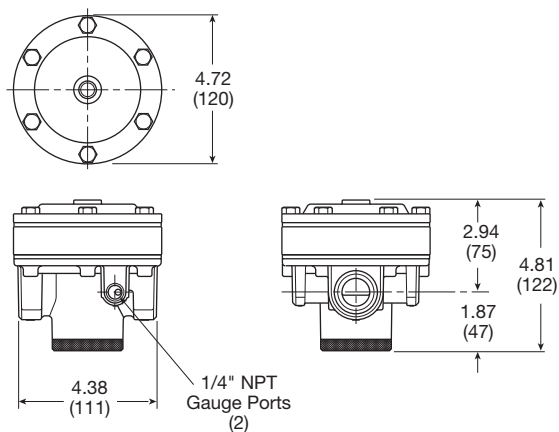
Body, ring, top plate	Zinc
Bottom plug, innervalue	Brass
Seals	Buna N

Repair and Service Kits

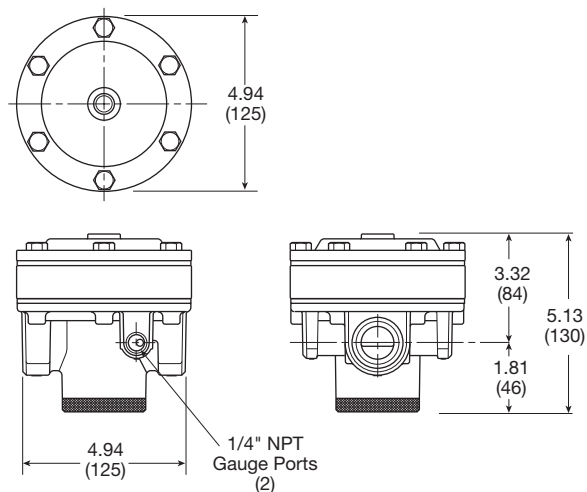
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Non-relieving diaphragm, valve assembly (3/4", 1")	RK118X20B
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.

R119-06J, R119-08J



R119-12J

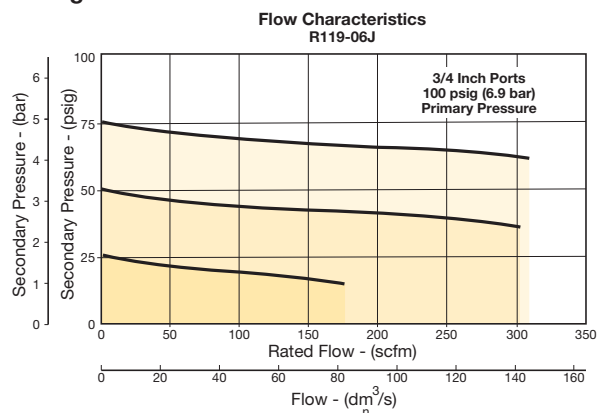


Inches (mm)

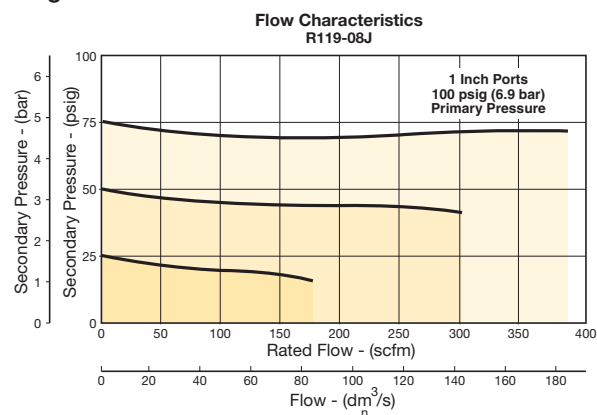
Air Preparation Products Regulator Products

Flow Charts

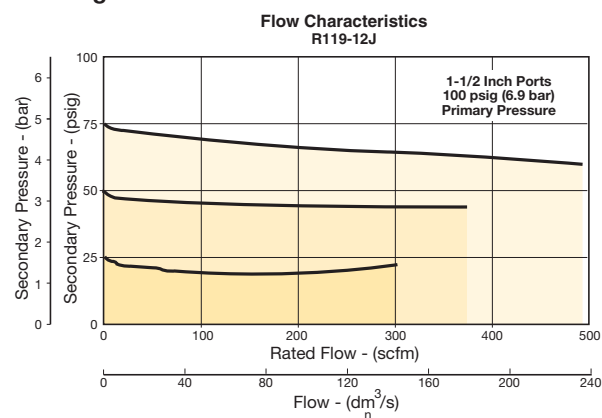
3/4" Regulator



1" Regulator



1-1/2" Regulator



WARNING

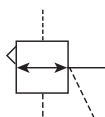
Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed Maximum primary pressure rating.



For inventory, lead time, and kit
lookup, visit www.pdnplu.com

R119 Pilot Operated Regulators - Hi-Flow

- 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
- 2", 2-1/2" ports (NPT, BSPP)



Port size	Description (0-125 psig reduced pressure)	Part number
2"	Without gauge, relieving, NPT	R119-16J
2-1/2"	Without gauge, relieving, NPT	R119-20J

Operating information

Supply pressure (max):	300 psig (0 to 20.7 bar)
Air consumption:	
Constant bleed from	Air pilot chamber: approx. 0.17 scfm (10 scfh)
	Reduced pressure: approx. 0.17 scfm (10 scfh)
Operating temperature:	40°F to 120°F (4.4°C to 48.9°C)
Reduced pressure range:	Adjustable to within 5 to 7 psig (0.34 to 0.48 bar) of supply pressure
Flow capacity†:	
High flow	2" 1800 scfm (850 dm³/s, ANR)
	2-1/2" 1800 scfm (850 dm³/s, ANR)
Gauge ports (2):	
Can be used for full flow	1/4 inch
High pressure outlet for pilot	1/4 inch
Weight:	15 lb (6.8 kg)

† scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow secondary setting and 20 psig pressure drop.

Ordering information:

R119	-	16	J
Port Threads NPT - BSPP G		Port Size 2 inch 16 2-1/2 inch 20	Reduced Pressure Range J Air pilot operated

NOTE: Non-relieving not available.

Most popular.



For inventory, lead times, and kit lookup, visit www.pdnplu.com

K60

Parker Hannifin Corporation
 Pneumatic Division
 Richland, Michigan
www.parker.com/pneumatics

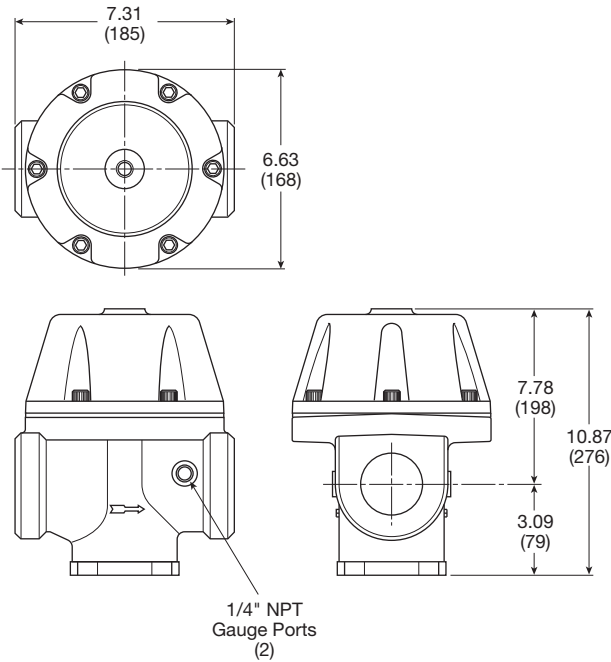
Material Specifications

Body, piston	Aluminum
Seals	Buna N
Innervalue stainless	Brass &

Repair and Service Kits

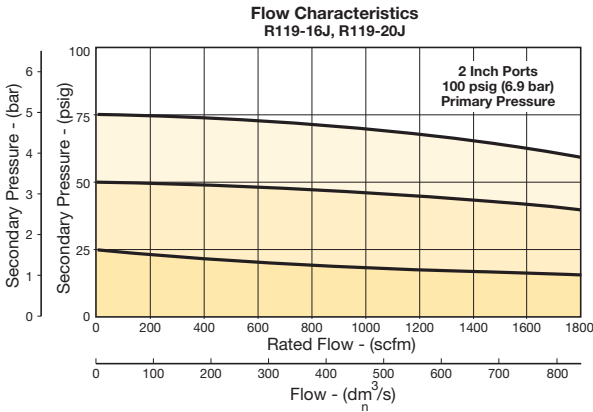
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Piston type regulation (2", 2-1/2")	RK119G

R119-16J, R119-20J



Inches (mm)

Flow Charts

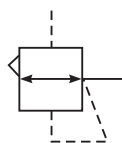


WARNING

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

P3Y Pilot Operated Regulator

- Integral 3/4" or 1" ports (BSPP & NPT)
- Pilot controlled regulators can be mounted "out of reach" with pilot regulator installed in a convenient location
- Constant pilot bleed control for accurate pressure control
- Balanced poppet provides quick response
- High flow



Port size	Description	Part number
3/4"	Pilot operated regulator	P3YRA96BPPN
1"	Pilot operated regulator	P3YRA98BPPN

Operating information

Supply pressure (max):	254 psig (17.5 bar)
Operating temperature:	-40°F to 140°F (-40°C to 60°C)
Flow capacity†:	3/4" 550 scfm (259.6 dm³/s, ANR)
	1" 550 scfm (259.6 dm³/s, ANR)
Fluid:	Compressed air
Weight:	2.6 lb (1.2 kg)
† Inlet pressure 145 psig (10 bar) inlet pressure, 91.4 psig (6.3 bar) set pressure and 7.3 psig (0.5 bar) pressure drop.	

Ordering information

P3YRA		9	6	BPPN	
Basic series		Thread type*		Port size	
Pilot Operated Regulator	P3YRA	BSPP	1	3/4	6
		NPT	9	1	8

* Note: For 1-1/2" ported unit, please order P3YKA*BCP port block kit separately.

Most popular.



For inventory, lead times, and kit lookup, visit www.pdnplu.com

K62

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatics

Pilot Operated Regulators

Material specifications

Body	Aluminium
Body cover	ABS
Valve	Brass / NBR composite
Pilot valve booster	Aluminum
Seals	Nitrile NBR
Screws	Zinc plated steel



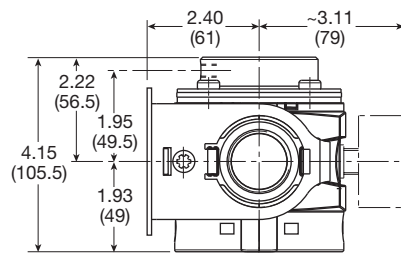
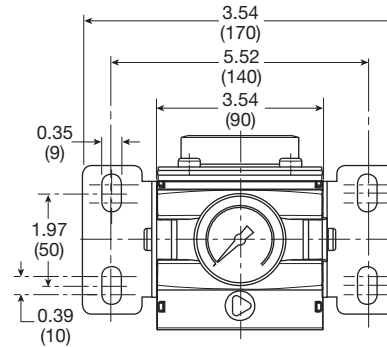
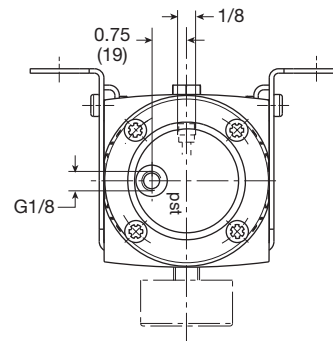
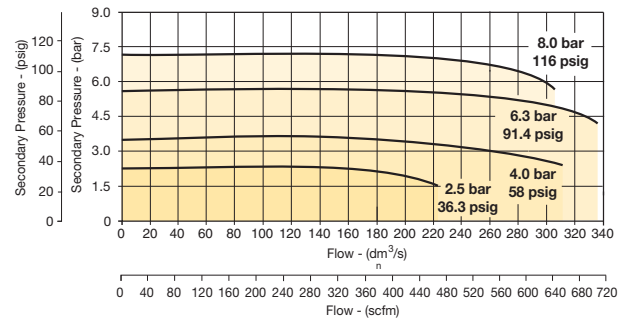
WARNING

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

Air Preparation Products Regulator Products

Flow characteristics

3/4" and 1" Pilot Regulator



Inches (mm)

General

Dial

Pilot

Proportional

Precision

Water

K

Regulator
Products