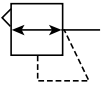
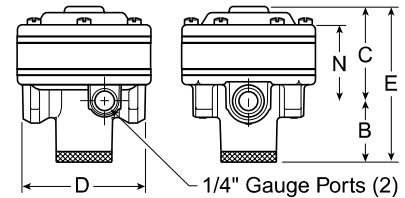
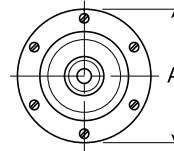


**R119 – Pilot Operated Regulators**



**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"                                      | <b>R119-02J</b> | R119G02J       |
| 3/8"                                      | <b>R119-03J</b> | R119G03J       |
| 1/2"                                      | <b>R119-04J</b> | R119G04J       |

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

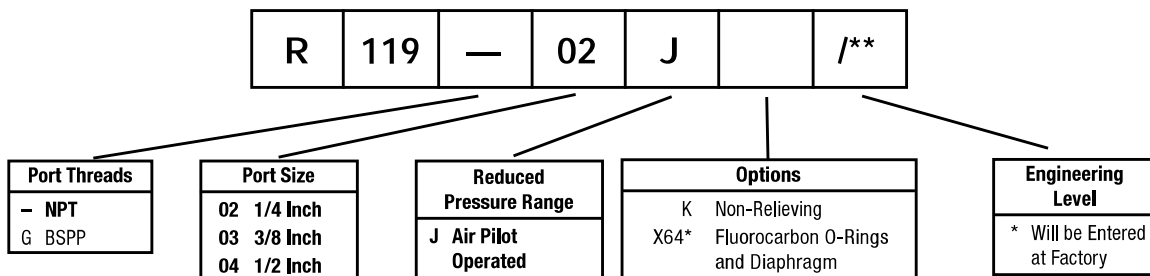
inches  
(mm)

**⚠ 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**



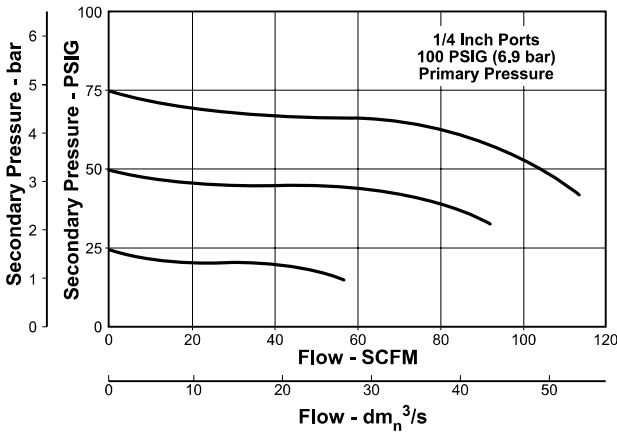
\* Brass Bottom Plug Standard with X64 Option.

BOLD ITEMS ARE MOST POPULAR.

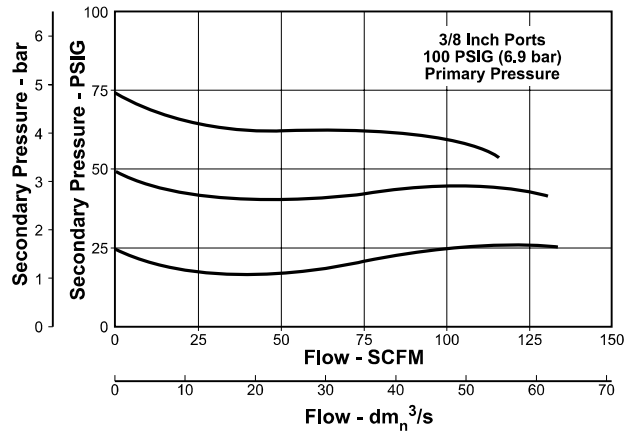


**Technical Information**

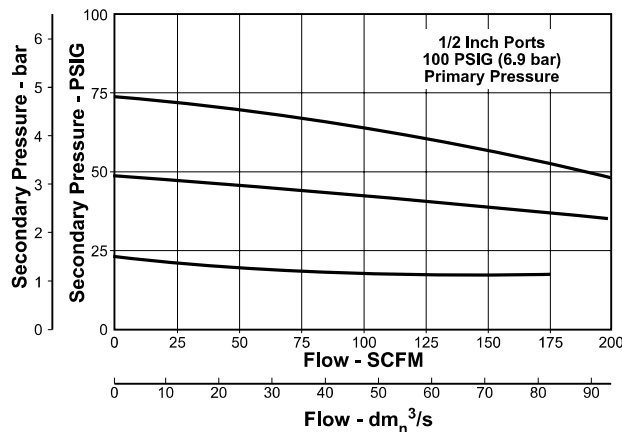
**Flow Characteristics  
R119-02J**



**Flow Characteristics  
R119-03J**



**Flow Characteristics  
R119-04J**



**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**

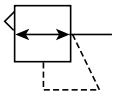
- Gauge Ports (2)** ..... 1/4 Inch
- Port Threads** ..... 1/4, 3/8, 1/2 Inch
- Pilot Port –**
  - 1/4 & 3/8" Threads ..... 1/8"
  - 1/2" Threads ..... 1/4"
- Reduced Pressure Range –**  
Adjustable to within 5 to 7 PSIG of Supply Pressure
- Supply Pressure** ..... 300 PSIG Maximum (20.4 bar)
- Air Consumption –**  
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

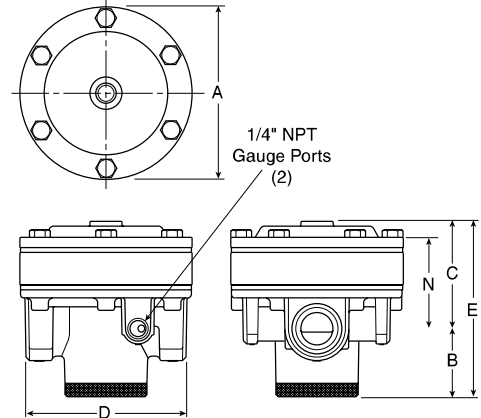


**R119 – Pilot Operated Regulators**



**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"                                      | <b>R119-06J</b> |
| 1"  | <b>R119-08J</b> |
| 1-1/4"                                    | <b>R119-10J</b> |
| 1-1/2"                                    | <b>R119-12J</b> |

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

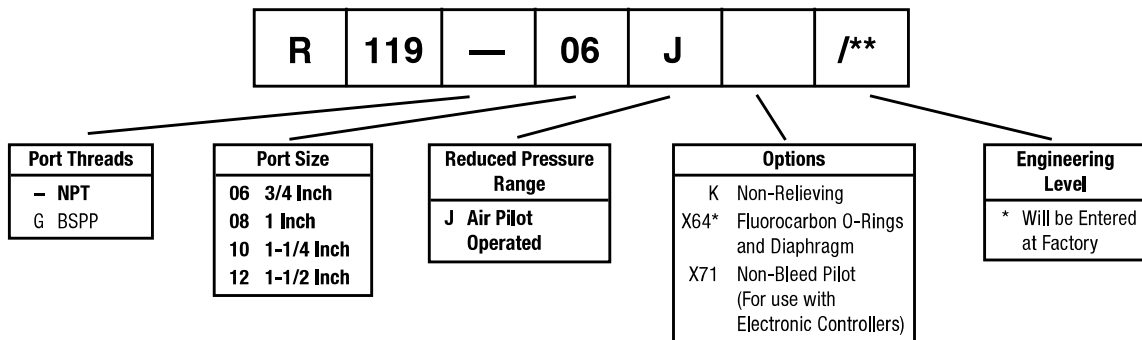
inches (mm)

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**



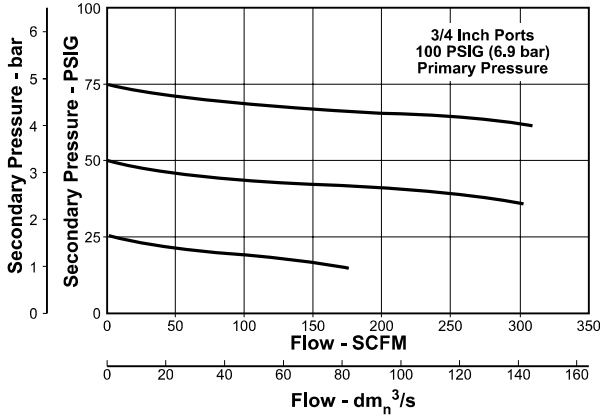
\* Brass Bottom Plug Standard with X64 Option.

**BOLD ITEMS ARE MOST POPULAR.**

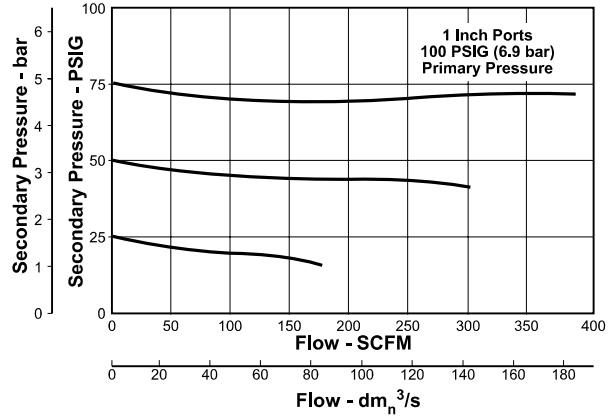


Technical Information

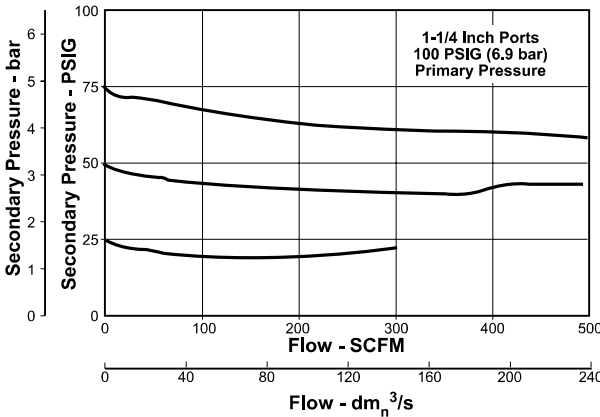
Flow Characteristics  
R119-06J



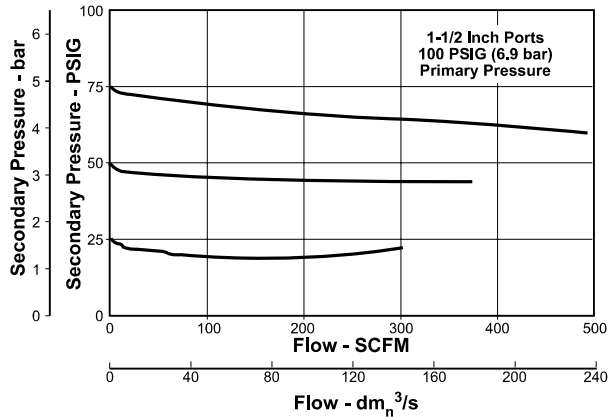
Flow Characteristics  
R119-08J



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

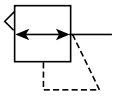
- Gauge Ports (2) ..... 1/4 Inch
- Port Threads ..... 3/4, 1, 1-1/4, 1-1/2 Inch
- Reduced Pressure Range –  
Adjustable to Within 5 to 7 PSIG of Supply Pressure
- Supply Pressure ..... 300 PSIG Maximum (20.4 bar)
- Air Consumption –  
Constant Bleed from Air Pilot Chamber:  
Approximately 0.17 SCFM (10 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, Innervalue ..... Brass
- Seals ..... Buna N

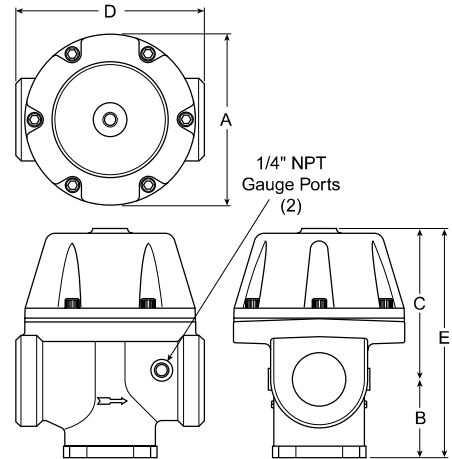


**R119 – Pilot Operated Regulators**



**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<sup>§</sup>



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

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

inches (mm)

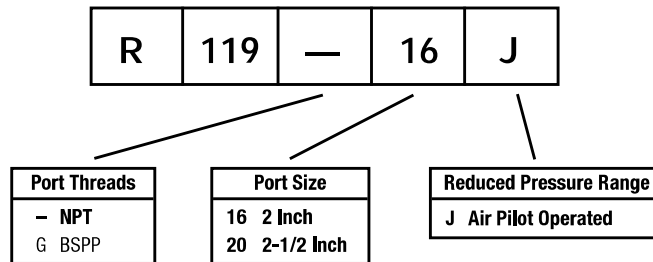
Standard part numbers shown bold.

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.

|  |
|--|
| <b>⚠ WARNING</b>   |
| <p>Product rupture can cause serious injury.<br/>                 Do not connect regulator to bottled gas.<br/>                 Do not exceed maximum primary pressure rating.</p> |

**Ordering Information**

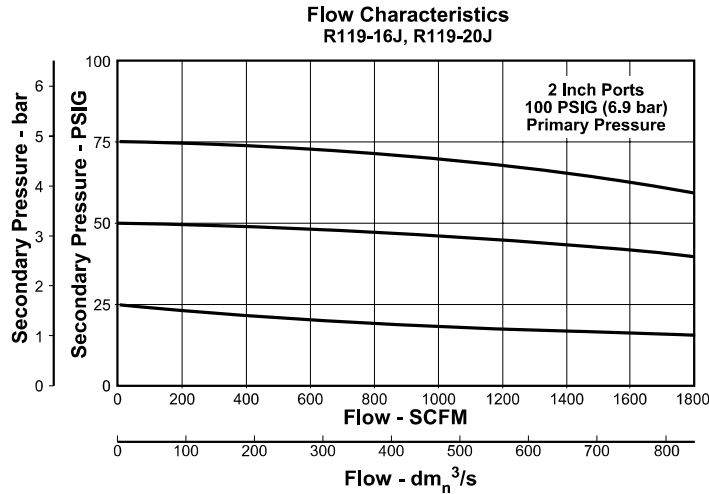


NOTE: Non-Relieving Not Available.

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