# 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

## Table: R119-06C, R119-08C Regulator Dimensions

<table>
<thead>
<tr>
<th>Port Size</th>
<th>NPT</th>
<th>Reduced Pressure Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without Gauge 0-125 PSIG Reduced Pressure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>R119-06C</td>
<td>0-125 PSIG</td>
</tr>
<tr>
<td>1&quot;</td>
<td>R119-08C</td>
<td>0-125 PSIG</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>R119-10C</td>
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</tr>
<tr>
<td>1-1/2&quot;</td>
<td>R119-12C</td>
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With Gauge 0-125 PSIG Reduced Pressure

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## Order Information

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<tr>
<th>R</th>
<th>119</th>
<th>06</th>
<th>C</th>
<th>G</th>
<th>**</th>
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</table>

## Options
- Blank
- None
- G Gauge
- K Non-Relieving
- X64‡ Fluorocarbon O-Rings and Diaphragm
- X80† Reverse Flow

## Engineering Level
- * Will be Entered at Factory

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

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‡ Brass Bottom Plug Standard with X64 Option.

† Reverse flow for use downstream of control valves.

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.

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A78
Technical Information

Flow Characteristics

R119-06C

Flow - SCFM

Flow - dm³/s

Secondary Pressure - bar

Secondary Pressure - PSIG

3/4 Inch Ports

100 PSIG (6.9 bar)

Primary Pressure

Flow Characteristics

R119-08C

Flow - SCFM

Flow - dm³/s

Secondary Pressure - bar

Secondary Pressure - PSIG

1 Inch Ports

100 PSIG (6.9 bar)

Primary Pressure

Flow Characteristics

R119-10C

Flow - SCFM

Flow - dm³/s

Secondary Pressure - bar

Secondary Pressure - PSIG

1 1/4 Inch Ports

100 PSIG (6.9 bar)

Primary Pressure

Flow Characteristics

R119-12C

Flow - SCFM

Flow - dm³/s

Secondary Pressure - bar

Secondary Pressure - PSIG

1 1/2 Inch Ports

100 PSIG (6.9 bar)

Primary Pressure

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 ................................................. 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

R119-10, R119-12 .......................................................... 7.2 lb. (3.27 kg) / Unit

25 lb. (11.34 kg) / 4-Unit Master Pack

29 lb. (13.15 kg) / 4-Unit Master Pack

Materials of Construction

Adjusting Screw, Springs .................................................. Steel

Body, Spring Cage .......................................................... Zinc

Bottom Plug, Innervalve ................................................... Brass

Seals ........................................................................... Buna N