

# „STANDARD“ PRESSURE REGULATOR

R119

**Description** High-capacity diaphragm regulator of solid design suitable for many applications. Ideal for installations where constant line pressure at wide flow variations. From size G2 on it is a pilot-operated piston regulator with an excellent regulation characteristic curve.

**Media** compressed air or non-corrosive gases

**Supply pressure** max. 21 bar, max. 16 bar by R119-16B/-20B/-24B

**Air consumption** from size G2 on the regulator's air consumption is about 0.1 l/min.

**Adjustment** by T-handle with locknut  
from size G2 on by plastic knob with snap-lock on the pilot regulator  
for G½ optionally by handwheel, for control panel integration

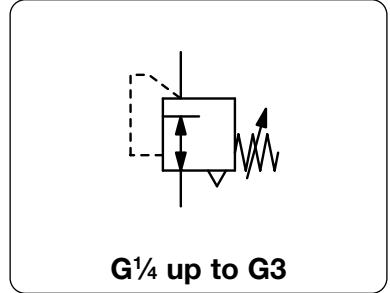
**Relieving function** relieving, optionally non-relieving

**Gauge port** G¼ on both sides of the body, screw plugs supplied

**Temperature range** 0 °C to 50 °C / 32 °F to 122 °F, for appropriately conditioned compressed air down to -30 °C / -22 °F

**Material** Body: zinc die-cast, aluminium by G2 to G3  
Diaphragm: NBR/Buna-N

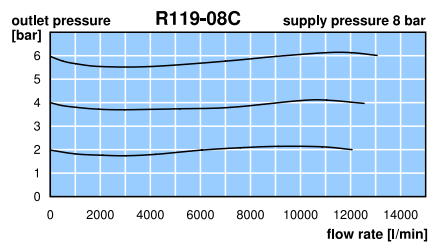
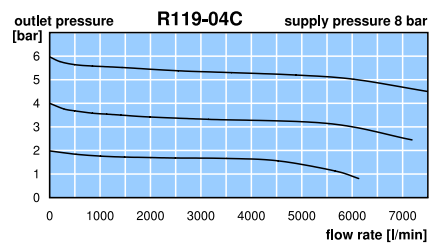
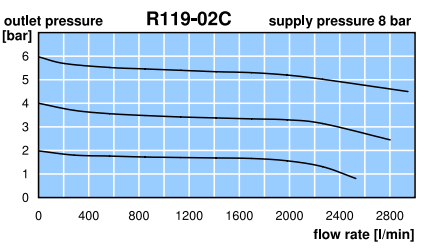
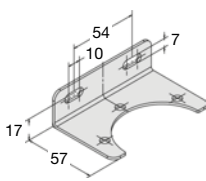
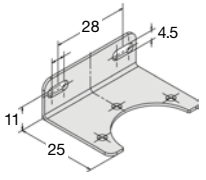
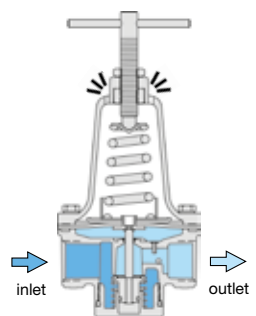
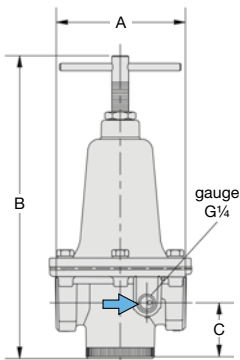
**Mounting position** any  
Inner valve: brass  
Bottom screw: reinforced nylon



Standard  
2

Dimensions			K <sub>v</sub> -value (m³/h)	Flow rate		Connection thread G	Pressure range bar	Order number
A	B	C		m³/h*1	l/min*1			

„Standard“ pressure regulator								supply pressure max. 21 bar, relieving, without pressure gauge	R119
70	157	35	1.5	150	2500	G¼	0.2 ... 1.8	R119-02A	
							0.2 ... 4.0	R119-02B	
							0.3 ... 9.0	R119-02C	
							0.5 ... 17	R119-02D	
83	172	38	3.6	360	6000	G¾*3	0.2 ... 1.8	R119-03A	
							0.2 ... 4.0	R119-03B	
							0.3 ... 9.0	R119-03C	
							0.5 ... 17	R119-03D	
83	172	38	3.6	360	6000	G½	0.2 ... 1.8	R119-04A	
							0.2 ... 4.0	R119-04B	
							0.3 ... 9.0	R119-04C	
							0.5 ... 17	R119-04D	
113	265	49	5.4	540	9000	G¾	0.3 ... 9.0	R119-06C	
							0.5 ... 17	R119-06D	
113	265	49	6.0	600	10000	G1	0.3 ... 9.0	R119-08C	
							0.5 ... 17	R119-08D	



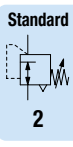
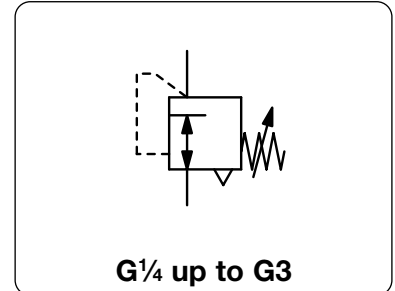
\*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop  
\*3 reduced by the next larger pressure regulator

\* Product group

PDF CAD  
www.aircom.net

Order example:  
R119-02A

<b>Description</b>	High-capacity diaphragm regulator of solid design suitable for many applications. Ideal for installations where constant line pressure at wide flow variations. From size G2 on it is a pilot-operated piston regulator with an excellent regulation characteristic curve.	
<b>Media</b>	compressed air or non-corrosive gases	
<b>Supply pressure</b>	max. 21 bar, max. 16 bar by R119-16B/-20B/-24B	
<b>Air consumption</b>	from size G2 on the regulator's air consumption is about 0.1 l/min.	
<b>Adjustment</b>	by T-handle with locknut from size G2 on by plastic knob with snap-lock on the pilot regulator for G½ optionally by handwheel, for control panel integration	
<b>Relieving function</b>	relieving, optionally non-relieving	
<b>Gauge port</b>	G¼ on both sides of the body, screw plugs supplied	<b>Mounting position</b> any
<b>Temperature range</b>	0 °C to 50 °C / 32 °F to 122 °F, for appropriately conditioned compressed air down to -30 °C / -22 °F	
<b>Material</b>	Body: zinc die-cast, aluminium by G2 to G3 Diaphragm: NBR/Buna-N	Inner valve: brass Bottom screw: reinforced nylon



Dimensions			K <sub>v</sub> -value (m³/h)	Flow rate		Connection thread G	Pressure range bar	Order number
A	B	C		m³/h*1	l/min*1			
mm	mm	mm						

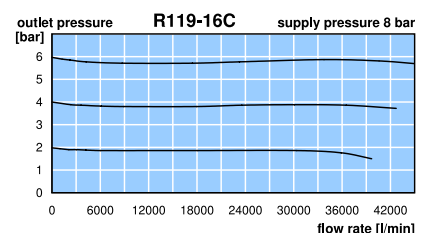
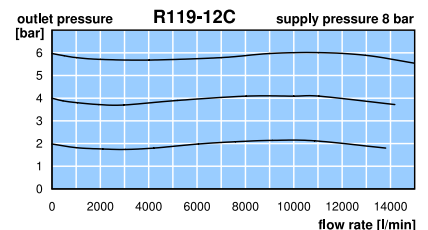
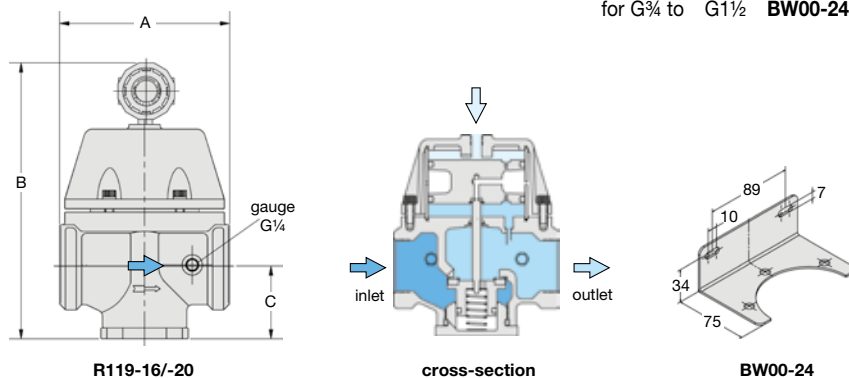
„Standard“ pressure regulator								supply pressure max. 21 bar, relieving, without pressure gauge	R119
126	275	48	6.6	660	11 000	G1¼*3	0.3... 9.0	R119-10C	
							0.5... 17	R119-10D	
126	275	48	7.2	720	12 000	G1½	0.3... 9.0	R119-12C	
							0.5... 17	R119-12D	
186	300	79	35.4	2520	42 000	G2	0.2... 7.0	R119-16B	
							0.8... 8.0	R119-16C	
							1.5... 15	R119-16D	
186	300	79	37.1	2640	44 000	G2½	0.2... 7.0	R119-20B	
							0.8... 8.0	R119-20C	
							1.5... 15	R119-20D	
214	360	95	56.0	6600	110 000	G3	0.2... 7.0	R119-24B	
							0.8... 8.0	R119-24C	
							1.5... 15	R119-24D	



Special options, add the appropriate letter			
<b>NPT</b>	connection thread	for G2 to G3	R119-...N
<b>non-relieving</b>	without relieving function		R119-...K
<b>FKM elastomer</b>		for G¼ to G1½	R119-...X64
		for G3	R119-24.X64
<b>panel mounting</b>	with handwheel, hole diameter 16 mm	for G½	R119-...P
<b>flange connection</b>	see chapter SST devices / flanges		R119-...F.
<b>PWIS-free</b>	for painting plants		R119-...LA

### Accessories, enclosed

<b>pressure gauge</b>	Ø 50 mm, 0...*2 bar, G¼	for G¼ to G½	<b>MA5002-...*2</b>
	Ø 63 mm, 0...*2 bar, G¼	for G¾ to G3	<b>MA6302-...*2</b>
<b>mounting bracket</b>	made of steel	for G¼ and G¾	<b>BW00-22</b>
		for G½	<b>BW00-23</b>
		for G¾ to G1½	<b>BW00-24</b>



\*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop  
\*2 02 = 0...2.5 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar  
\*3 reduced by the next larger pressure regulator

Gauges: see chapter for measuring devices

PDF CAD  
www.aircom.net

\* Product group  
Order example:  
**R119-10C**