

# 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. Control is effected by a pressure regulator with external feedback.

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

**Supply pressure** max. 21 bar

**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  
up to size G½ optionally by handwheel for control panel integration

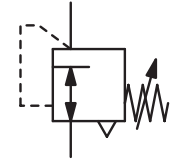
**Relieving function** relieving, optionally non-relieving

**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  
Diaphragm: NBR/Buna-N

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



G¼ up to G3

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

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 0.2 ... 4.0 0.3 ... 9.0 0.5 ... 17.0	R119-02A R119-02B R119-02C R119-02D
70	157	35	1.7	168	2800	G¾	0.2 ... 1.8 0.2 ... 4.0 0.3 ... 9.0 0.5 ... 17.0	R119-03A R119-03B R119-03C R119-03D
83	172	38	3.6	360	6000	G½	0.2 ... 1.8 0.2 ... 4.0 0.3 ... 9.0 0.5 ... 17.0	R119-04A R119-04B R119-04C R119-04D
113	265	49	5.4	540	9000	G¾	0.3 ... 9.0 0.5 ... 17.0	R119-06C R119-06D
113	265	49	6.0	600	10000	G1	0.3 ... 9.0 0.5 ... 17.0	R119-08C R119-08D



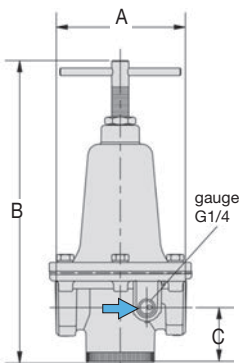
R119-04C  
accessory: gauge



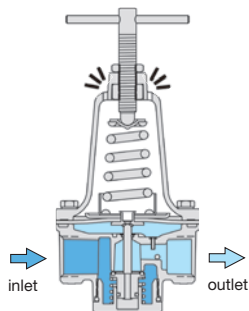
R119-04CP for panel mounting  
accessory: gauge



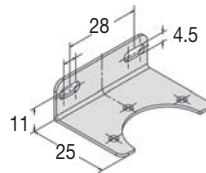
R119-08C  
accessory: gauge



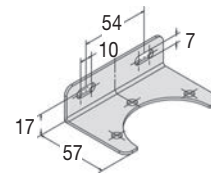
R119-02...-12



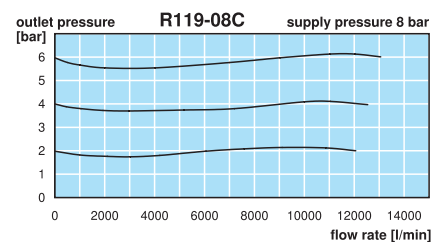
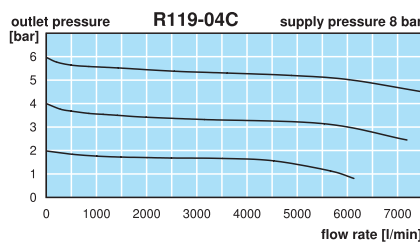
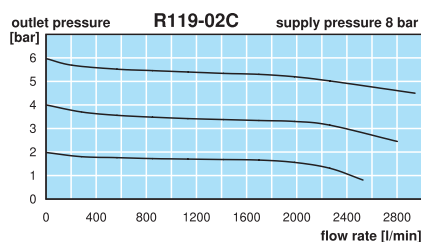
cross section



BW00-22



BW00-23

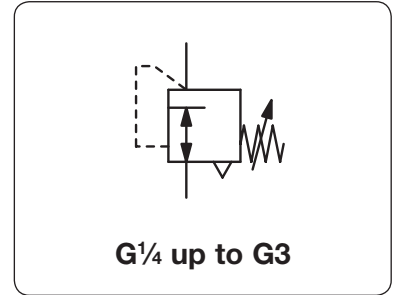


\*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop



**Order example:**  
R119-02A  
China website: www.duray-control.cn

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<b>Media</b>	compressed air or non-corrosive gases		
<b>Supply pressure</b>	max. 21 bar		
<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 up to size 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>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	Inner valve: brass	Bottom screw: reinforced nylon



Standard



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

Standard pressure regulator							supply pressure max. 21 bar, relieving, without pressure gauge	R119
126	275	48	6.6	660	11 000	G1¼	0.3 ... 9.0 0.5 ... 17.0	R119-10C R119-10D
126	275	48	7.2	720	12 000	G1½	0.3 ... 9.0 0.5 ... 17.0	R119-12C R119-12D
186	300	79	35.4	2520	42 000	G2	0.2 ... 1.8 0.2 ... 4.0 0.3 ... 9.0 0.5 ... 17.0	R119-16A R119-16B R119-16C R119-16D
186	300	79	37.1	2640	44 000	G2½	0.2 ... 1.8 0.2 ... 4.0 0.3 ... 9.0 0.5 ... 17.0	R119-20A R119-20B R119-20C R119-20D
214	360	95	56.0	6600	110 000	G3	0.2 ... 1.8 0.2 ... 4.0 0.3 ... 9.0 0.5 ... 17.0	R119-24A R119-24B R119-24C R119-24D



**R119-12C**  
accessory: gauge



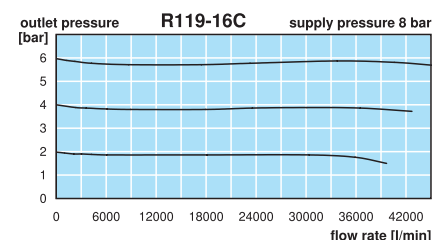
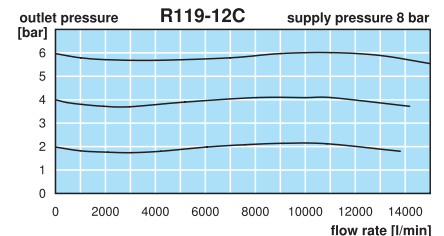
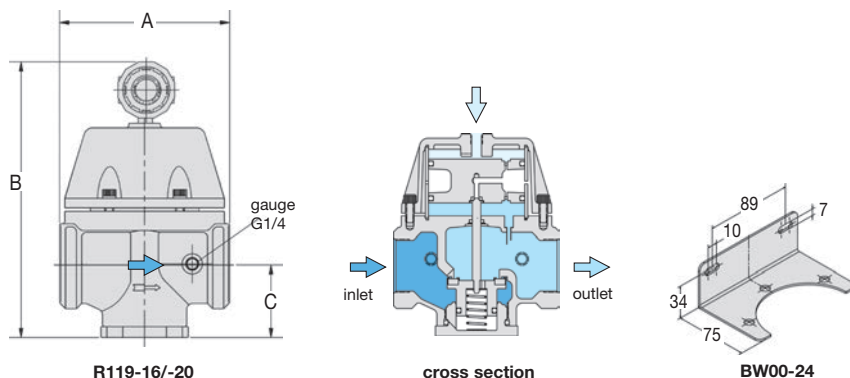
**R119-16C**  
accessory: gauge



**R119-16CF1**  
accessory: gauge

Special options, add the appropriate letter		
<b>NPT</b>	connection thread	R119-...N
<b>non-relieving</b>	without relieving function	R119-...K
<b>FKM elastomer</b>		for G¼ to G1½ R119-...X64
<b>FKM elastomer</b>		for G3 R119-24.X64
<b>panel mounting</b>	with handwheel, diameter of bore 16 mm	for G¼ to G½ R119-...P
<b>flange connection</b>	see chapter for SST units / flange	R119-...F.
<b>PWIS-free</b>	for painting plants	R119-...JA
<b>Quick exhaust</b>	with integrated check valve	R119-...X80

Accessories, enclosed		
<b>pressure gauge</b>	Ø 50 mm, 0...*2 bar, G¼	for G¼ to G½ MA5002-...*2
	Ø 63 mm, 0...*2 bar, G¼	for G¾ to G2½ MA6302-...*2
<b>mounting bracket</b>	made of steel	for G¼ and G¾ BW00-22
		for G½ BW00-23
		for G¾ to G1½ BW00-24



\*1 at 8 bar supply pressure, 6 bar outlet pressure und 1 bar pressure drop  
\*2 02 = 0...2.5 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 25 = 0...25 bar



**Order example:**  
**R119-10C**  
China website: [www.duray-control.cn](http://www.duray-control.cn)