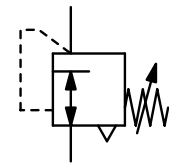


Description	High-capacity diaphragm regulator of solid design suitable for many applications. Ideal for installations where constant line pressure at wide flow variations. From size G2 on it is a pilot-operated piston regulator with an excellent regulation characteristic curve.	
Media	compressed air or non-corrosive gases	
Supply pressure	max. 21 bar	
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			Kv-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
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
70	157	35	1.7	168	2800	G¾	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



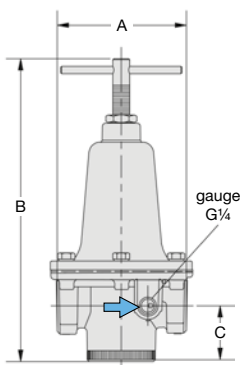
R119-04



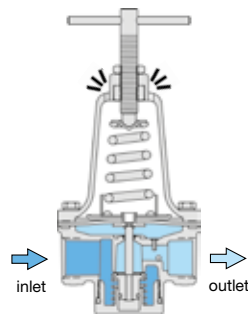
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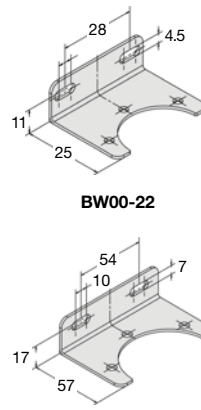
R119-08



R119-02 ... -12

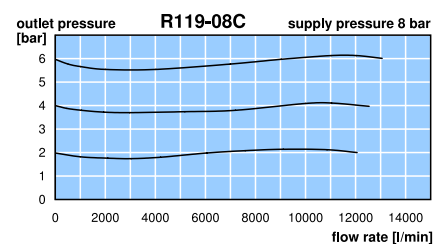
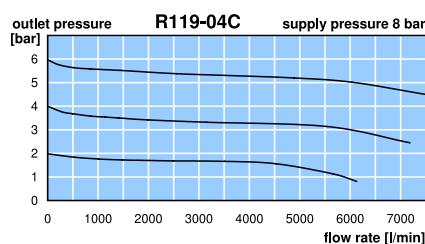
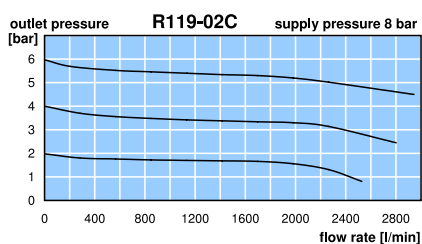


cross-section



BW00-22

BW00-23



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

PDF CAD
www.aircom.net



Order example:
R119-02A

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	
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

Standard

2

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

„Standard“ pressure regulator								R119
supply pressure max. 21 bar, relieving, without pressure gauge								
126	275	48	6.6	660	11 000	G1¼*3	0.3 ... 9.0 0.5 ... 17	R119-10C R119-10D
126	275	48	7.2	720	12 000	G1½	0.3 ... 9.0 0.5 ... 17	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	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	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	R119-24A R119-24B R119-24C R119-24D



R119-12



R119-16

Special options, add the appropriate letter

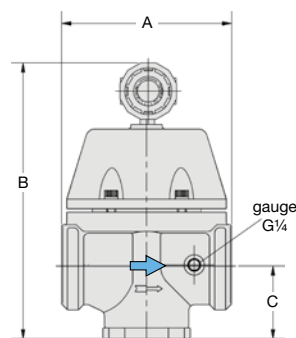
NPT	connection thread	R119-...N
non-relieving	without relieving function	for G¼ to G2½ for G3 R119-...K R119-24.K
FKM elastomer		for G¼ to G1½ for G3 R119-...X64 R119-24.X64
panel mounting	with handwheel, hole diameter 16 mm	for G¼ to G½ R119-...P
flange connection	see chapter SST devices / flanges	R119-...F.
PWIS-free	for painting plants	R119-...LA



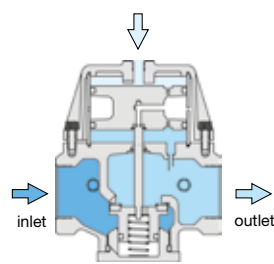
R119-16CF1
accessory: gauge

Accessories, enclosed

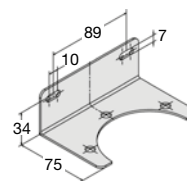
pressure gauge	Ø 50 mm, 0...*2 bar, G¼ Ø 63 mm, 0...*2 bar, G¼	for G¼ to G½ for G¼ to G2½ for G¼ and G¾ for G½	MA5002-...*2 MA6302-...*2
mounting bracket	made of steel	for G¾ to G1½	BW00-22 BW00-23 BW00-24



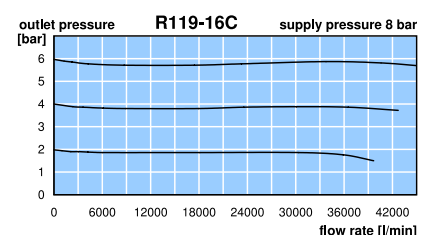
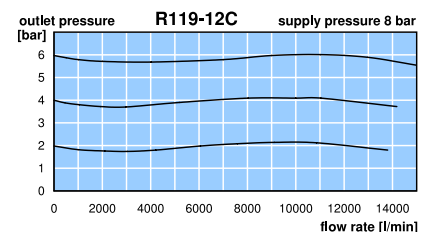
R119-16/-20



cross-section



BW00-24



*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

Order example:
R119-10C