

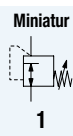
MINIATURE PRESSURE REGULATOR



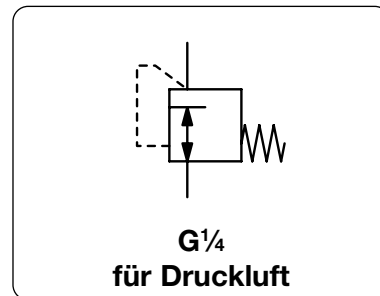
	DESCRIPTION		PRESSURE RANGE		CONNECTION	SERIES	PAGE
			bar		thread		
FACTORY-SET OUTLET PRESSURE	higher accuracy		2 / 3 / 4 / 6		G¼ fm	233F	1.02
	without exhaust	17 x 25	2 / 3 / ...	/ 10	G¼ fm	R13	1.03
	for compressed air	34 x 52	1 / 2 / ...	/ 8	G¼	231	1.04
	for liquids	34 x 52	1 / 2 / ...	/ 8	G¼	239A	1.05
	for drinking water	34 x 52	1 / 2 / ...	/ 8	G¼	239K	9.03
	for oxygen	34 x 52	1 / 2 / ...	/ 8	G¼	239M	1.05
	for oxygen	34 x 52	1 / 2 / ...	/ 9	G¼	234KM	1.06
	relieving		2 / 3 / ...	/ 8	G¼ - G¾	232	1.07
SLIM DESIGN	extremely small	19 x 40	0.2 ... 2	/ 8	M5	RR-M5	1.08
	also with FKM and EPDM	18 x 65	0.2 ... 1.4	/ 7	M5 / ½" NPT	MAR	1.18
VERY ACCURATE	very lightweight		0.03 ... 0.24 / 6		½" NPT	R800	1.09
	very lightweight		0.03 ... 0.24 / 6		10-32" and flange	R900	1.09
	interlockable		0.01 ... 0.7 / 7		M5, G½, G¼, SS	R7	1.10
	FDA approved		0.1 ... 1 / 12		G½ u. G¼	R037	1.11
	plastic		0.1 ... 1 / 12		G½ u. G¼	R039	1.12
	inlet pressure compensated		0.1 ... 3 / 16		G½ u. G¼	R310	1.13
	slim design		0 ... 0.35 / 7		M5 and flange	RT	1.19
	very accurate		0.05 ... 2 / 8		G½ / ½" NPT	R90	5.02
STANDARD	increased accuracy		0.1 ... 1 / 12		G½ u. G¼	R039	1.12
	also for water,	brass	0.1 ... 1 / 11		G½ u. G¼	R364	1.14
	made of aluminium		0.1 ... 1 / 11		G½ u. G¼	R374	1.14
	even for oxygen		0.2 ... 2.5 / 8		G½	R307	1.15
	even for oxygen		0 ... 0.25 / 8		flange	R308	1.16
CARTRIDGE	up to 260 l/min		1 ... 8		G½ u. G¼	RC	1.17
STAINLESS STEEL	also for water		0.2 ... 1.8 / 9		G¼	R364-S	15.03



1



Beschreibung	Der In-Line Druckregler hat einen fest eingestellten Ausgangsdruck, der z. B. 10 bar auf 4 bar reduziert. Er hat eine Ausgangsgenauigkeit von $\leq \pm 30\%$ und ist daher für grobe Druckregelung geeignet.		
Medium	Druckluft oder neutrale Gase		
Eingangsdruck	max. 12 bar		
Einstellung	Der Druckregler ist mit dem gewünschten Ausgangsdruck auszuwählen. Nachträgliche Veränderung des Ausgangsdruckes ist nicht möglich. Dies dient zur Sicherheit gegen ungewollte Verstellung.		
Rücksteuerung	ohne Sekundärentlüftung		
Temperaturbereich	-20 °C bis 60 °C		
Gehäuse:	Messing	Stößel:	Messing
Elastomere:	NBR	Filter:	Edelstahl



A	Volumen- strom	Eingangs- druck	Anschluss- gewinde	Ausgangs- druck	Bestell- Nummer
mm	l/min*1	max. bar	G	bar*2	

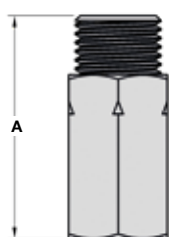
Ausgangsdruck		eingestellt	P _i : max. 12 bar, nicht rücksteuerbar, Ausgangsdruckgenauigkeit *2	233F	
24	15	12	G $\frac{1}{4}$ ia	2	233F0220
				3	233F0230
				4	233F0240
				6	233F0260



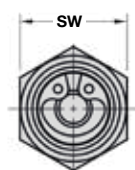
233F

Wahlweise Ausführung, es ist der entsprechende Buchstabe

NPT	Anschlussgewinde	ES2.0
FKM-Elastomere		ES2.0
öl- und fettfrei	speziell gereinigt, für Sauerstoff geeignet	ES1.0

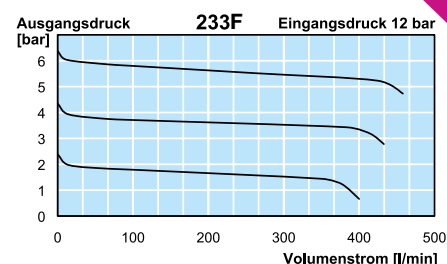


233F



*1 P_e = 12 bar; Δp = 0,5 bar

*2 Toleranz: 2 bar ± 0,6 bar (Luft, P_e = 6 bar, 10 NI/min)
4 bar ± 0,8 bar (Luft, P_e = 6 bar, 10 NI/min)
6 bar ± 1,0 bar (Luft, P_e = 10 bar, 10 NI/min)



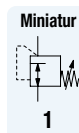
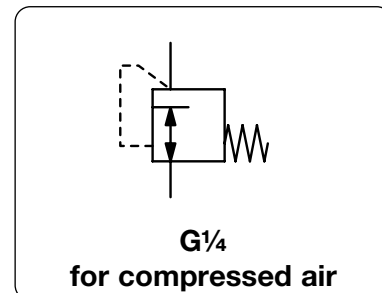
* Product group

PDF CAD
www.aircom.net



Bestellbeispiel:
233F0220

Description	In-line pressure regulator with factory-set non-adjustable outlet pressure, reducing from e.g. 10 bar to 5 bar. The regulator R13 is suited for basic pressure control only with an outlet pressure tolerance of $\pm 30\%$. The outlet pressure stated below is valid for 15 bar inlet pressure. For other inlet pressure please refer to the according item from the diagram.
Benefits	• Higher safety through lower pressure. Tools and equipment protected against pressure damages. • Cost reduction through substantially reduced air consumption. Longer service life. • Noise reduction for tools.
Media	compressed air or non-corrosive gases
Supply pressure	max. 15 bar
Adjustment	Select the pressure regulator according to the desired outlet pressure.
Relieving function	The outlet pressure cannot be subsequently adjusted. This safeguards against tampering.
Temperature range	non-relieving, therefore not recommended for applications such as nailers
Material	0 °C to 60 °C / 32 °F to 140 °F, for appropriately conditioned compressed air down to -30 °C / -22 °F
	Body: brass
	Elastomer: NBR/Buna-N, optionally FKM



Dimensions			Flow rate	Supply pressure	Connection thread	Outlet pressure	Order number
ØA	B	A/F	l/min*	max. bar	G	bar	
mm	mm	mm					

Basic accuracy regulator			P: max. 15 bar, non-relieving, outlet pressure accuracy $\pm 30\%$, made of brass		R13		
17	34	17	300	15	G¼ fm	2	R13-02D
						3	R13-02E
						4	R13-02F
						5	R13-02G
						6	R13-02H
						7	R13-02I
						8	R13-02K
						10	R13-02M



R13

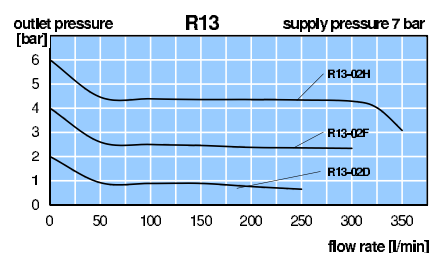
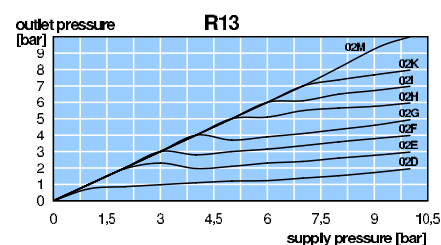
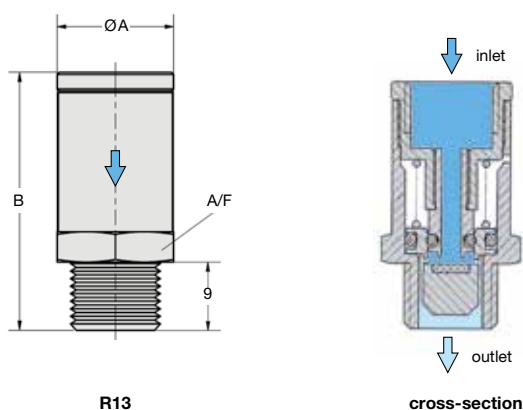
Special options, add the appropriate letter

FKM elastomer

R13-02 . V



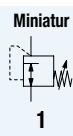
R13



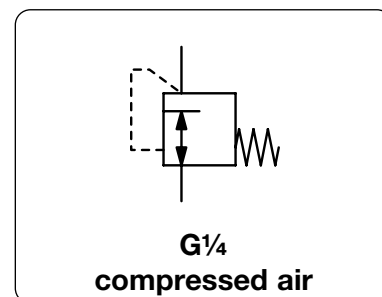
*1 at 7 bar supply pressure, 6 bar outlet pressure and 2 bar pressure drop

* Product group





Description	In-line pressure regulator with factory-set non-adjustable outlet pressure, reducing from e.g. 15 bar to 5 bar. The regulator is suited for basic pressure control only with an outlet pressure tolerance of approx. $\pm 10\%$. Non-relieving function, therefore not recommended for applications such as nailers.		
Benefits	• Higher safety through lower pressure. Tools and equipment protected against pressure damages • Cost reduction through substantially reduced air consumption • Noise reducing for tools		
Media	compressed air, non-corrosive gases		
Supply pressure	max. 18 bar		
Adjustment	Select the pressure regulator according to the desired outlet pressure. The outlet pressure cannot be subsequently adjusted. This safeguards against tampering.		
Relieving function	non-relieving		
Temperature range	0 °C to 60 °C / 32 °F to 140 °F		
Material	Body: zinc	Diaphragm: NBR/Buna-N	
	Seat: PP, Santoprene	O-ring: NBR/Buna-N	



Dimensions			Flow rate	Supply pressure	Connection thread	Outlet pressure	Order number
ØA	B	A/F	l/min*1	max. bar	G	bar*2	
mm	mm	mm					



Regulator for air „SaveAir®“

P: max. 18 bar, non-relieving, accuracy *2, made of zinc

231

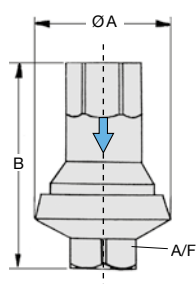
34	52	17	400	18	G1/4	1	231A0210
			600			2	231A0220
			700			3	231A0230
			700			4	231A0240
			700			5	231A0250
			800			6	231A0260
			800			7	231A0270
			800			8	231A0280



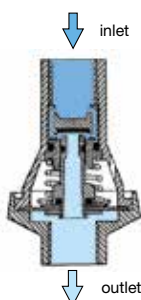
231

Special options, add the appropriate letter

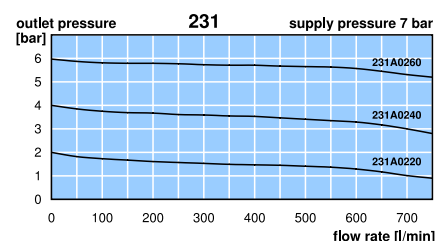
NPT	connection thread	231A 1 2 . .
deviant pressure range	indicate on order	231A . 2XX



231



cross-section


*1 $P_0 = 12 \text{ bar}$; $\Delta p = 0.5 \text{ bar}$

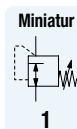
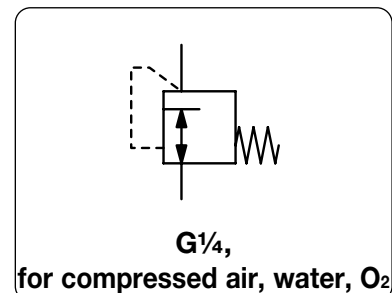
*2 Tolerance: $< 4 \text{ bar} \pm 0.3 \text{ bar}$ (air, $P_0 = 6 \text{ bar}$, 10 l/min)
 $\geq 4 \text{ bar} \pm 10\%$ (air, $P_0 = 10 \text{ bar}$, 10 l/min)

* Product group

PDF CAD
www.aircom.net

Order example:
231A0210

General information	In-line pressure regulator with factory-set outlet pressure, reducing from e.g. 10 bar to 5 bar. The regulator is suited for basic pressure control only with an outlet pressure tolerance of approx. ±10% ^{*2} . The outlet pressure cannot be subsequently adjusted. This safeguards against tampering.		
Description	239A:	regulator for liquids, compressed air and non-corrosive gases	
	239M:	medical industry and pharmaceuticals	
Application	water, hydraulic and sprinkler systems, cooler, cleaning systems		
Supply pressure	max. 10 bar for liquids or oxygen max. 18 bar for compressed air and non-corrosive gases		
Temperature range	0 °C to 60 °C / 32 °F to 140 °F		
Material	Body:	nickel-plated brass	Seat: PP, Santoprene
	Inner parts:	stainless steel DIN 1.4404/AISI 316L	O-ring: NBR/Buna-N for 239A
	Diaphragm:	NBR/Buna-N for 239A, FPM for 239M	



Dimensions			Flow rate		Supply pressure	Connection thread	Outlet pressure	Order number	
Ø A	B	A/F	water	air	max. bar	G	bar*2		A*
mm	mm	mm	l/min*1						

Regulator for compr. air / watermade of brass, P₁: max. 18 bar / 10 bar, NBR/Buna-N, outlet pressure accuracy *2**239A**

34	52	17	10	400	18/10	G1/4	1	239A0210
			10	600			2	239A0220
			10	700			3	239A0230
			10	700			4	239A0240
			10	700			5	239A0250
			10	800			6	239A0260
			10	800			7	239A0270
			10	800			8	239A0280



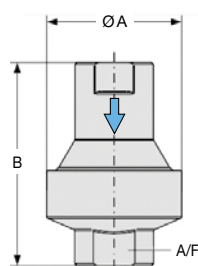
239A / 239M

Regulator for oxygenmade of brass, P₁: max. 10 bar, FKM, outlet pressure accuracy *2**239M**

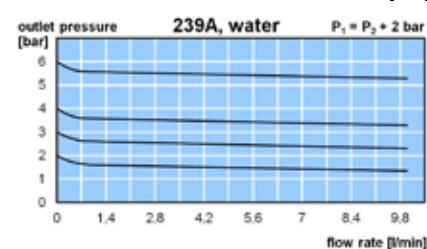
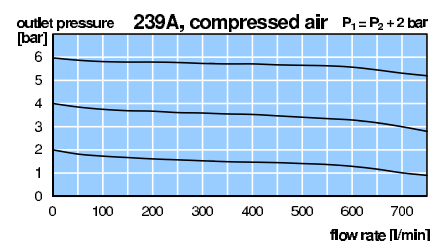
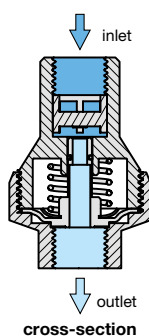
34	52	17	-	400	10	G1/4	1	239M0210
			-	600			2	239M0220
			-	700			3	239M0230
			-	700			4	239M0240
			-	700			5	239M0250
			-	800			6	239M0260
			-	800			7	239M0270
			-	800			8	239M0280

Special options, add the appropriate letter

NPT	connection thread	239A1 . . .
deviant pressure range	indicate on order	239 . . 2XX



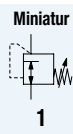
239A / 239M

*1 P₁ = 10 bar; Δp = 0.8 bar*2 Tolerance: < 4 bar ± 0.3 bar (air, P₀ = 6 bar, 10 NI/min)
≥ 4 bar ± 10% (air, P₀ = 10 bar, 10 NI/min)

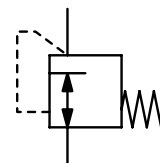
* Product group

PDF CAD
www.aircom.netOrder example:
239A0210

IN-LINE-DRUCKREGLER MIT FEST EINGESTELLTEM AUSGANGSDRUCK FÜR SAUERSTOFF 234KM



Allgemein	Der In-Line-Druckregler "OXYREG" hat einen fest eingestellten Ausgangsdruck der z. B. 10 bar auf 5 bar reduziert. Eine nachträgliche Veränderung des Ausgangsdruckes ist nicht möglich. Dies dient zur Sicherheit gegen ungewolltes Verstellen.
Beschreibung	Druckregler für Sauerstoff, Druckluft oder neutrale Gase
Anwendung	Lebensmittelindustrie, Medizintechnik, Verpackungstechnik
Eingangsdruck	max. 18 bar
Genauigkeit	± 0,3 bar bei Druckluft P ₁ : 6 bar und 10 NL/min (bis 3 bar Ausgangsdruck) ± 10 % bei Druckluft P ₁ : 10 bar und 10 NL/min (ab 4 bar Ausgangsdruck)
Temperaturbereich	0 °C bis 60 °C
Werkstoffe	Gehäuse: Grivory® GV-5 FWA Innentteile: Edelstahl DIN 1.4404 / AISI 316L Membrane: FPM



**G1/4
für Sauerstoff**

Abmessungen			Volumenstrom	Eingangs-	Anschluss-	Ausgangs-	Bestell-
ØA	B	SW	Luft	druck	gewinde	druck	Nummer
mm	mm	mm	l/min*1	max. bar	G	bar*2	

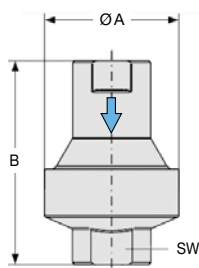
Druckregler für Sauerstoff					Grivory®, Ausgangsdruckgenauigkeit *2	P1: max. 18 bar,	234KM
34	52	17	400	18	G1/4	1	234KM0210
			600			2	234KM0220
			700			3	234KM0230
			700			4	234KM0240
			700			5	234KM0250
			800			6	234KM0260
			800			7	234KM0270
			800			8	234KM0280
			800			9	234KM0290



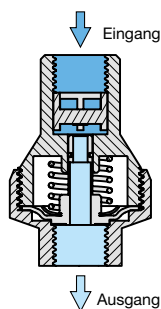
234KM

Wahlweise Ausführung, es ist der entsprechende Buchstabe hinzuzufügen

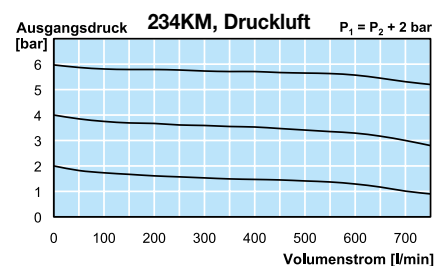
NPT	Anschlussgewinde	234KM1 . . .
andere Druckbereiche	Druckbereich im Klartext angeben	234KM . . XX



239KM



Schnittbild



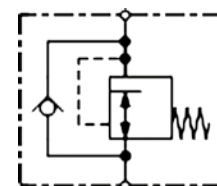
*1 P₁ = 10 bar; Δp = 0,8 bar

*2 Toleranz: < 4 bar ± 0,3 bar (Luft, P₀ = 6 bar, 10 NL/min)
≥ 4 bar ± 10% (Luft, P₀ = 10 bar, 10 NL/min)

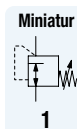
* Produktgruppe



Description	In-line pressure regulator with factory-set outlet pressure, reducing from e.g. 15 bar to 6 bar. With an outlet pressure tolerance of only $\pm 10\%$ ² it is especially suitable for nailing machines.
Benefits	• Higher safety through lower pressure. Tools and equipment protected against pressure damages. • Cost reduction through substantially reduced air consumption. Longer service life. • Noise reduction for tools.
Media	compressed air or non-corrosive gases
Supply pressure	max. 25 bar
Adjustment	Select the pressure regulator according to the desired outlet pressure. The outlet pressure cannot be subsequently adjusted. This safeguards against tampering.
Relieving function	relieving at removal of supply pressure
Temperature range	0 °C to 80 °C / 32 °F to 176 °F
Material	Body: aluminium Elastomer: NBR/Buna-N



**G¹/₄ up to G³/₄
compressed air**



Dimensions				Flow rate	Supply pressure	Connection thread	Outlet pressure	Order number
Ø A	B	A/F 1	A/F 2	l/min*1	max. bar	G	bar*2	
mm	mm	mm	mm					

Regulator with relieving function				P ₁ : max. 25 bar, accuracy*2, aluminium		232		
19	69	17	19	500	25	G ¹ / ₄ ia	2	232F0220
				550			3	232F0230
				600			4	232F0240
				650			5	232F0250
				700			6	232F0260
				750			7	232F0270
				800			8	232F0280
19	59	17	19	500	25	G ¹ / ₄	2	232A0220
				550			3	232A0230
				600			4	232A0240
				650			5	232A0250
				700			6	232A0260
				750			7	232A0270
				800			8	232A0280
25	63	22	25	1400	25	G ³ / ₈	2	232A0320
				1600			3	232A0330
				1800			4	232A0340
				2000			5	232A0350
				2200			6	232A0360
				2400			7	232A0370
				2600			8	232A0380
30	68	27	30	1400	25	G ¹ / ₂	2	232A0420
				1600			3	232A0430
				1800			4	232A0440
				2000			5	232A0450
				2200			6	232A0460
				2400			7	232A0470
				2600			8	232A0480
40	102	34	40	2500	25	G ³ / ₄	2	232A0520
				3200			4	232A0540
				3900			6	232A0560
				4600			8	232A0580



232F
with female / male thread

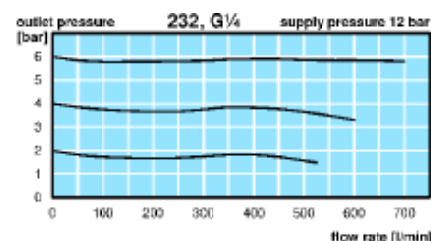
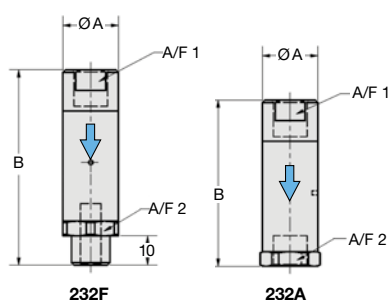


232A
with female thread

Special options, add the appropriate letter

NPT connection thread
deviant pressure range indicate on order

232. 1 . . .
232. . . X X



*1 P_s = 12 bar; Δp = 0.5 bar

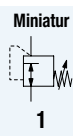
*2 Tolerance: < 4 bar $\pm$ 0.3 bar (air, P_s = 6 bar, 10 l/min)
≥ 4 bar $\pm$ 10% (air, P_s = 10 bar, 10 l/min)

* Product group

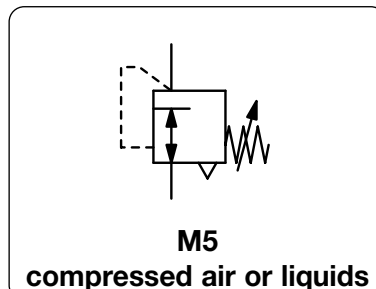
PDF CAD
www.aircom.net



Order example:
232F0220



Description	Highly compact piston-operated regulator, suitable for panel mounting and basic pressure regulation.
Media	compressed air, non-corrosive gases or liquids
Supply pressure	max. 6 bar at 0.2 ... 2 bar pressure range, max. 10 bar at 1 ... 8 bar pressure range
Adjustment	by knurled-head screw with locknut
Relieving function	relieving for air, non-relieving for water
Gauge port	not available
Mounting position	any
Temperature range	0 °C to 60 °C / 32 °F to 140 °F, for appropriately conditioned compressed air down to -30 °C / -22 °F
Material	Body: nickel-plated brass Elastomer: NBR/Buna-N Inner valve: stainless steel and brass



Dimensions			Flow rate	Supply pressure	Connection thread	Pressure range	Order number
A	B	A/F	l/min*1	max. bar	M5	bar	
mm	mm	mm					

Pressure regulator for air				supply pressure max. 6 / 10 bar, relieving	RR-M5
19	40	17	70	6	RR-M5A
17	40	17	70	10	RR-M5C



RR-M5

Pressure regulator for water				supply pressure max. 6 / 10 bar, non-relieving	RR-M5
19	40	17	1.2	6	RR-M5AK
17	40	17	1.2	10	RR-M5CK



RR-M5

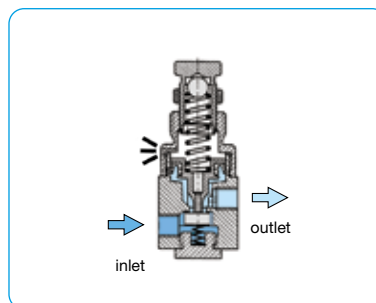
Special options, add the appropriate letter

for oxygen specially cleaned, with oxygen grease minimum purchase 50 pieces RR-M5 . . K15

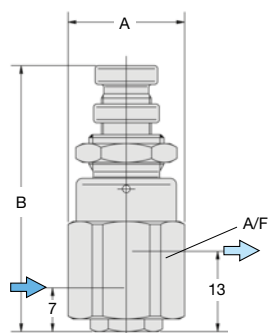
Accessories, enclosed

plastic panel nut

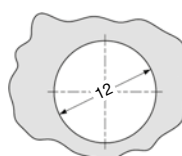
M12x1K



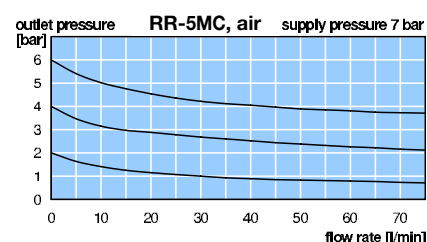
cross-section



RR-M5



panel cut-out



*1 for compressed air: 7 bar supply pressure and 6 bar outlet pressure and 2 bar pressure drop for water: supply pressure 2 bar above outlet pressure

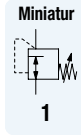
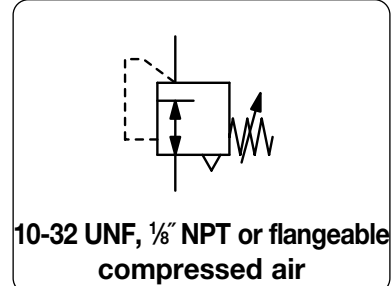
* Product group

PDF CAD
www.aircom.net



Order example:
RR-M5A

Description	Miniature precision regulator with high supply sensitivity. small dimension, low weight. Hysteresis-free adjustment up to 20 turns.														
Media	compressed air or non-corrosive gases														
Supply pressure	max. 10 bar														
Accuracy	<table><tr><th></th><th>R800 / R900 / R901</th><th>R810 / R910 / R911</th></tr><tr><td>at supply pressure variation of 1 bar:</td><td>< 7 mbar pressure deviation</td><td>< 20 mbar pressure deviation</td></tr><tr><td>at supply pressure removal/reapplication:</td><td>< 7 mbar pressure deviation</td><td>< 17 mbar pressure deviation</td></tr><tr><td>setting accuracy:</td><td>< 2.5 mbar</td><td>< 5 mbar</td></tr></table>				R800 / R900 / R901	R810 / R910 / R911	at supply pressure variation of 1 bar:	< 7 mbar pressure deviation	< 20 mbar pressure deviation	at supply pressure removal/reapplication:	< 7 mbar pressure deviation	< 17 mbar pressure deviation	setting accuracy:	< 2.5 mbar	< 5 mbar
	R800 / R900 / R901	R810 / R910 / R911													
at supply pressure variation of 1 bar:	< 7 mbar pressure deviation	< 20 mbar pressure deviation													
at supply pressure removal/reapplication:	< 7 mbar pressure deviation	< 17 mbar pressure deviation													
setting accuracy:	< 2.5 mbar	< 5 mbar													
Air consumption	0.35 l/min at 7 bar supply pressure increase for flow <20 ml/min														
Relieving function	relieving, optionally non-relieving														
Relief capacity	15 l/min at 0.35 bar outlet above set-point														
Temperature range	4 °C to 66 °C / 40 °F to 150 °F														
Material	Body: polysulfones Inner valve: stainless steel and acetal														
	Gauge port	not available													
	Elastomer:	NBR/Buna-N													



Dimensions			Pressure adjustment	Flow rate	Pressure range	Order number for manifold with o-ring	Order number 10-32 UNF standard
A	B	C					
mm	mm	mm	by	l/min*1	bar		

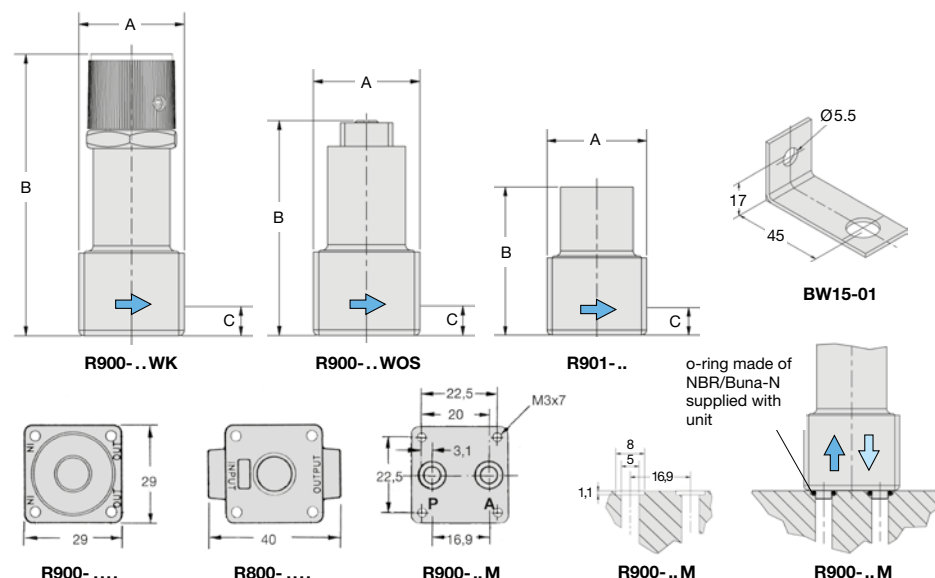
Precision pressure regulator						supply pressure max. 10 bar, relieving, with constant bleed	R900
29	78	8	knob	65	0.03 ... 0.24	R900-3,5MWK	R900-3,5WK
					0.03 ... 0.7	R900- 10MWK	R900- 10WK
					0.03 ... 2.1	R900- 30MWK	R900- 30WK
					0.03 ... 4.2	R900- 60MWK	R900- 60WK
					0.03 ... 6.2	R900- 90MWK	R900- 90WK
29	60	8	spindle	65	0.03 ... 0.24	R900-3,5MWOS	R900-3,5WOS
					0.03 ... 0.7	R900- 10MWOS	R900- 10WOS
					0.03 ... 2.1	R900- 30MWOS	R900- 30WOS
					0.03 ... 4.2	R900- 60MWOS	R900- 60WOS
					0.03 ... 6.2	R900- 90MWOS	R900- 90WOS
29	43	8	preset	65	to be indicated	R901- .. M	R901- ..

Special options, add the appropriate letter

1/8" NPT	connection thread, width 40 mm	R8...W...
non-relieving	without constant bleed	R.1.....
for oxygen	specially cleaned	R.....15

Accessories, enclosed

mounting bracket made of steel for R800 and R900 BW15-01



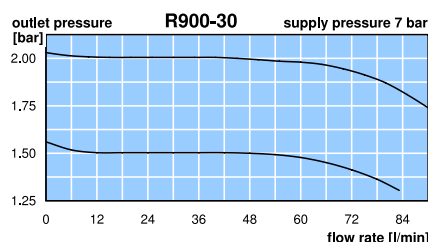
R800-..WK mounting nut incl. R900-..WK mounting nut incl.



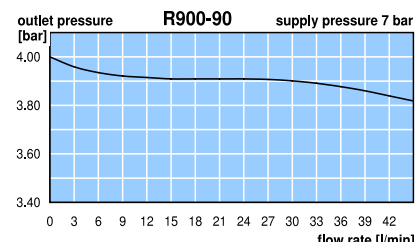
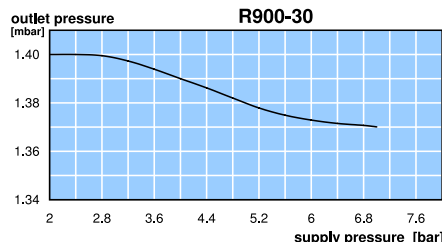
R910-..WOS mounting nut incl.



R901-.. R900-..MWOS mounting nut incl.



*1 at 7 bar supply pressure and max. outlet pressure

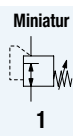


* Product group

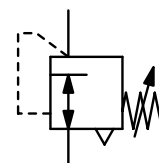
PDF CAD
www.aircom.net



Order example:
R900-3,5MWK



Description	Miniature pressure regulator with unique modular dovetail design allowing its individual use or assembly into a modular combination of pneumatic components through connector slides.	
Identification marking	The item no. includes a four-digit number starting with the input port and continuing counterclockwise. The digit corresponds with the type of connector slide, e.g. 1 for G $\frac{1}{8}$, 2 for G $\frac{1}{4}$ or B for blank.	
Pressure regulator R7	Designed for precise regulation of pressure. The regulator possesses a 20 turn adjustment range and excellent repeatability. The valve seat is protected by a filter/strainer at the input port.	
Media	5 μ m filtered compressed air and non-corrosive gases	Supply pressure max. 10 bar
Accuracy	at supply pressure variation of 1 bar: at supply pressure removal/reapplication: at variations in temperature of 25 °C / K:	< 10 mbar pressure deviation < 10 mbar pressure deviation < 10 mbar pressure deviation
Air consumption	0.3 l/min at 7 bar supply pressure	Adjustment by knob
Relieving function	relieving	Mounting position any
Gauge port	G $\frac{1}{8}$ via threaded slide	



M5, G $\frac{1}{8}$, G $\frac{1}{4}$ or quick connector

Dimensions			Flow rate	Supply pressure	Connection thread	Pressure range	Order number	C*
A	B	C						
mm	mm	mm	l/min*1	max. bar	G	bar		

Precision regulator

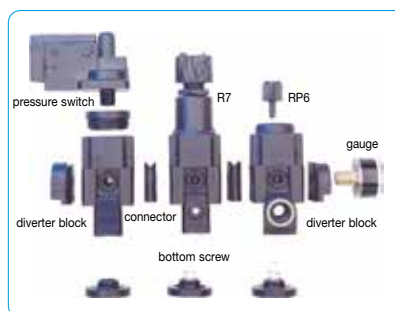
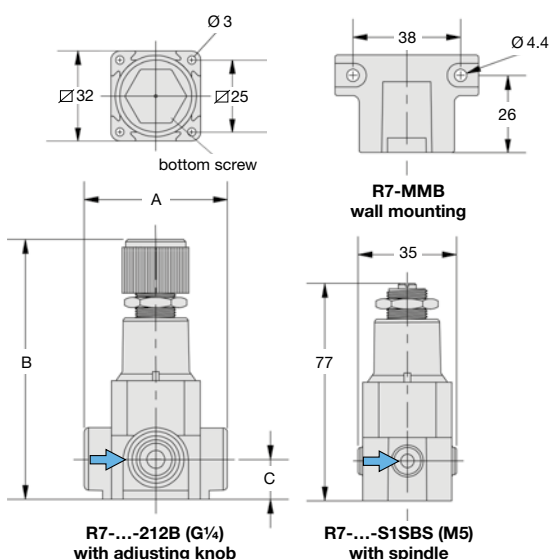
			Flow rate	Supply pressure	Connection thread	Pressure range	Order number
with adjusting knob, relieving, gauge port G $\frac{1}{8}$ on one side							
47	92	14	140	10	G $\frac{1}{8}$	0.01 ... 0.7 0.02 ... 2.1 0.03 ... 4.1 0.03 ... 7.0	R7-010-111B R7-030-111B R7-060-111B R7-100-111B
51	92	14	140	10	G $\frac{1}{4}$	0.01 ... 0.7 0.02 ... 2.1 0.03 ... 4.1 0.03 ... 7.0	R7-010-212B R7-030-212B R7-060-212B R7-100-212B

Special options, add the appropriate letter or number

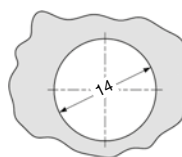
with spindle	screwdriver adjustment, height 77 mm	R....-...S
thread	M5 connection thread	R....-S...
	G$\frac{1}{8}$	R....-1...
	G$\frac{1}{4}$	R....-2...
quick connector	Ø 4 external diameter of hose	R....-4...
	Ø 6	R....-6...
	Ø 8	R....-8...
breach plate		R....-B...
connection plate	with permanent pressure supply	R....-U...
	without passage, modular combination of two devices	R....-C...
wall mounting	at breach plate	R....-W...

Accessories, enclosed

pressure gauge	Ø 23 mm, 0... ^{*2} bar, G $\frac{1}{8}$	MA2301-...^{*2}
-----------------------	--	--------------------------------



example for assembly



panel cut-out



R7-...-1B1B, G $\frac{1}{8}$



R7-...-2B2BS, G $\frac{1}{4}$



R7-...-SBSBS with spindle, M5
R7-...-4B4B w/ quick connector Ø 4

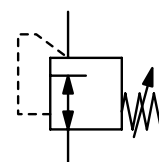


example for assembly

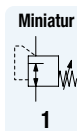
*1 at 7 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop
*2 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar



Description	Diaphragm miniature pressure regulator made of plastic and of small and lightweight design. All parts coming into contact with the medium are approved by the FDA.
Application area	food industry and water circulation, e.g. for dialysis devices
Media	compressed air, non-corrosive gases, deionized water or other liquids
Supply pressure	max. 16 bar
Adjustment	by plastic knob with snap-lock
Relieving function	non-relieving
Gauge port	not available
Mounting position	any
Temperature range	0 °C to 50 °C / 32 °F to 122 °F
Material	Body: POM technopolymer with thread insert of SST 316, approved by FDA and WRAS Elastomer: EPDM with thread insert of SST 316, approved by FDA and KTW Valve and O-ring: Hytrel and EPDM, FDA-approved Grease: Klüber, UH184-201



**G¹/₈, FDA, deionized water
compressed air or liquids**



Dimensions			Flow rate		Connection	Pressure	Order
A	B	C	water	air	thread	range	number
mm	mm	mm	l/min*1	l/min	G	bar	

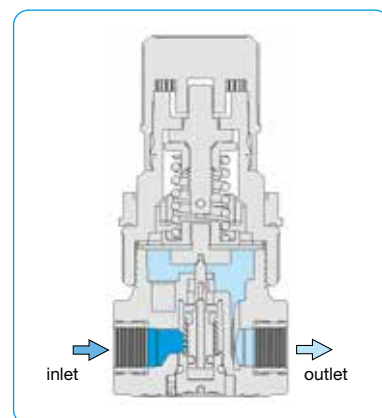
Pressure regulator w. FDA approval			supply pressure max. 16 bar, non-relieving EPDM, with inlet pressure compensation		R037		
41	86	11	5	350	G ¹ / ₈	0,1 ... 1	R037-010K
						0,1 ... 2	R037-01AK
						0,2 ... 4	R037-01BK
						0,3 ... 8	R037-01CK
						0,4 ... 12	R037-01DK
41	86	11	5	380	G ¹ / ₄	0,1 ... 1	R037-020K
						0,1 ... 2	R037-02AK
						0,2 ... 4	R037-02BK
						0,3 ... 8	R037-02CK
						0,4 ... 12	R037-02DK



R037

Special options, add the appropriate letter or number

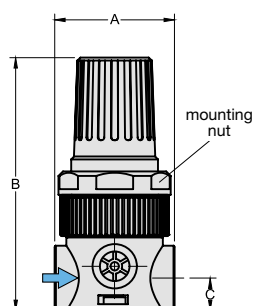
for oxygen specially cleaned, with oxygen grease R037-0...K15



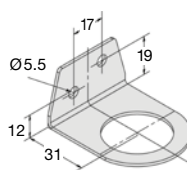
cross-section

Accessories, enclosed

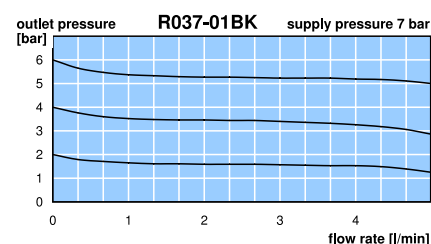
mounting bracket	made of steel	BW30-02
mounting nut	made of plastic	M30x1,5K
	made of aluminium	M30x1,5A



R037



BW30-02



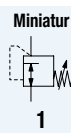
*1 supply pressure 1 bar above outlet pressure

* Product group

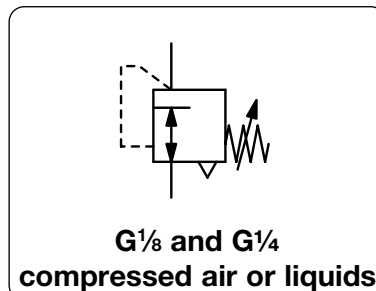


PRECISION PRESSURE REGULATOR MADE OF PLASTIC

R039



Description	Diaphragm miniature pressure regulator of small and lightweight design. The regulator has increased accuracy due to a rolling diaphragm and a piston compensated to inlet pressure.	
Media	compressed air, non-corrosive gases or liquids	
Supply pressure	max. 16 bar	
Air consumption	R039 without constant bleed	R039-F with max. 3 l/min air consumption
Adjustment	by plastic knob with snap-lock	
Relieving function	relieving for compressed air, red adjusting knob	black adjusting knob
	non-relieving for liquids, black adjusting knob	
Gauge port	G $\frac{1}{8}$ on both sides of the body, screw plugs supplied	
Mounting position	any	
Temperature range	0 °C to 50 °C / 32 °F to 122 °F for NBR/Buna-N	
Material	Body: POM with brass thread insert	
	Elastomer: NBR/Buna-N	
	Inner valve: brass	



Dimensions			Flow rate		Connection	Pressure	Order number	Order number
A	B	C	water	air	thread	range	for water	for compressed air
mm	mm	mm	l/min*1	l/min*1	G	bar	non-relieving	relieving

Regulator w. increased accuracy

supply pressure max. 16 bar,
w. rolling diaphragm, inlet pressure-compensated

41	86	11	5	350	G $\frac{1}{8}$	0.1 ... 1	R039-010K	R039-010
						0.2 ... 2	R039-01AK	R039-01A
						0.2 ... 4	R039-01BK	R039-01B
						0.3 ... 8	R039-01CK	R039-01C
						0.3 ... 12	R039-01DK	R039-01D
41	86	11	5	380	G $\frac{1}{4}$	0.1 ... 1	R039-020K	R039-020
						0.2 ... 2	R039-02AK	R039-02A
						0.2 ... 4	R039-02BK	R039-02B
						0.3 ... 8	R039-02CK	R039-02C
						0.3 ... 12	R039-02DK	R039-02D



Precision pressure regulator

with air consumption, P_i: max. 16 bar,
w. rolling diaphragm, inlet pressure-compensated

41	86	11	5	350	G $\frac{1}{8}$	0.1 ... 1	R039-010F	R039-010F
						0.2 ... 2	R039-01AF	R039-01AF
						0.2 ... 4	R039-01BF	R039-01BF
						0.3 ... 8	R039-01CF	R039-01CF
						0.3 ... 12	R039-01DF	R039-01DF
41	86	11	5	380	G $\frac{1}{4}$	0.1 ... 1	R039-020F	R039-020F
						0.2 ... 2	R039-02AF	R039-02AF
						0.2 ... 4	R039-02BF	R039-02BF
						0.3 ... 8	R039-02CF	R039-02CF
						0.3 ... 12	R039-02DF	R039-02DF



Special options, add the appropriate letter

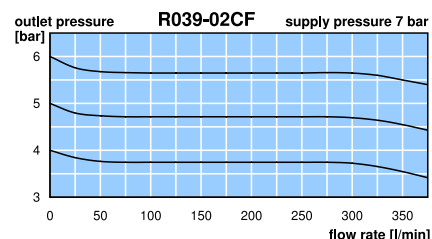
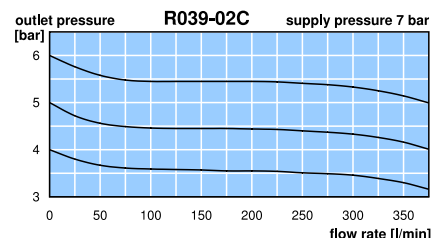
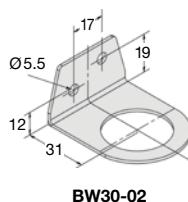
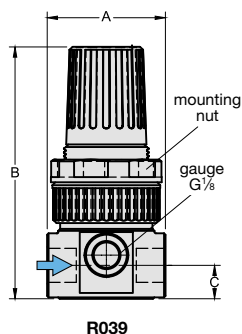
adjustment lock	non-adjustable knob	R039-0...T
without gauge port		R039-0...X02
for oxygen	pecially cleaned, with oxygen grease	R039-0...K15
	not for R039-0..F	

Accessories, enclosed

pressure gauge
mounting bracket
mounting nut

Ø 40 mm, 0...^{*2} bar, G $\frac{1}{8}$
made of steel
made of plastic
made of aluminium

MA4001-...^{*2}
BW30-02
M30x1,5K
M30x1,5A



*1 at 7 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop, for water: supply pressure 2 bar above outlet pressure
*2 02 = 0...2.5 bar, 04 = 0...4 bar, 10 = 0...10 bar, 16 = 0...16 bar

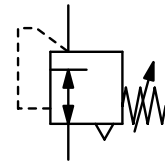
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

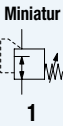


Order example:
R039-010K

Description	R310: Diaphragm pressure regulator made of brass without constant bleed.		
Media	compressed air, non-corrosive gases or liquids		
Supply pressure	max. 25 bar, max. 14 bar for the oxygen version		
Adjustment	by plastic knob with snap-lock		
Relieving function	relieving, optionally non-relieving for R310		
Gauge port	R310: G $\frac{1}{8}$ on both sides of the body, one screw plug supplied		R309: not available
Mounting position	any		
Temperature range	0 °C to 60 °C / 32 °F to 140 °F for NBR / Buna-N 0 °C to 80 °C / 32 °F to 176 °F for FKM or EPDM for appropriately conditioned compressed air down to -30 °C / -22 °F		
Material	Body: brass Spring cage: POM	Elastomer: NBR/Buna-N, optionally FKM or EPDM, e.g. for brake fluid Inner valve: stainless steel and brass	



**G $\frac{1}{8}$ and G $\frac{1}{4}$
compressed air or liquids**



Dimensions			Flow rate	Supply pressure	Connection thread	Pressure range	Order number	
A	B	C	l/min*1	max. bar	G	bar		
mm	mm	mm						

Pressure regulator			supply pressure max. 25 bar, relieving, gauge port G $\frac{1}{8}$, inlet pressure-compensated				R310
40	80	16.5	220	25	G $\frac{1}{8}$	0.1... 3	R310-01B
						0.4... 10	R310-01D
						0.5... 16	R310-01E
40	80	16.5	220	25	G $\frac{1}{4}$	0.1... 3	R310-02B
						0.4... 10	R310-02D
						0.5... 16	R310-02E



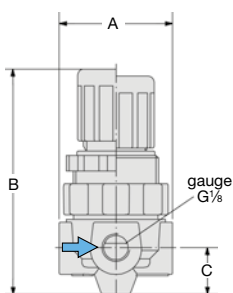
R310

Special options, add the appropriate letter or number

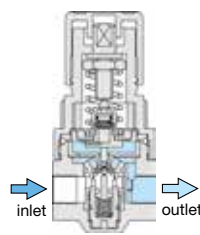
non-relieving	without relieving function	R310-0...K
for oxygen	specially cleaned, P ₁ : max. 14 bar, P ₂ : max. 10 bar	R310-0...K15
FKM elastomer		R310-0...V
EPDM elastomer	non-relieving, e.g. for brake fluid	R310-0...KE

Accessories, enclosed

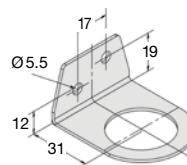
pressure gauge	Ø 40 mm, 0... ^{*2} bar, G $\frac{1}{8}$	R310 only	MA4001-... ^{*2}
mounting bracket	made of steel		BW30-02
mounting nut	made of plastic		M30x1,5K
	made of brass		M30x1,5M



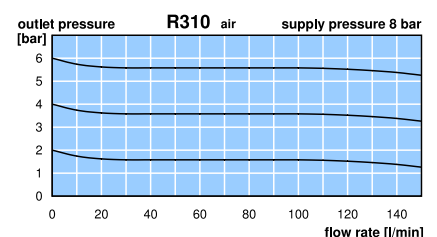
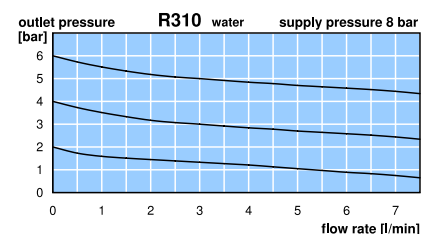
R310



cross-section



BW30-02

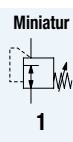


*1 for compressed air: 8 bar supply pressure, 4 bar outlet pressure and 1 bar pressure drop
 *2 01 = 0...1 bar, 04 = 0...4 bar, 10 = 0...10 bar, 16 = 0...16 bar

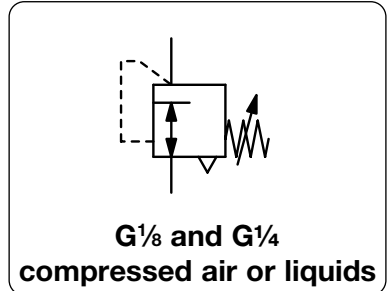


MINIATURE PRESSURE REGULATOR

R364 / R374



Description	Compact regulator with diaphragm
Media	compressed air, non-corrosive gases or liquids (by R364)
Supply pressure	max. 21 bar
Adjustment	by plastic knob with snap-lock
Relieving function	relieving, optionally non-relieving
Gauge port	G $\frac{1}{8}$ on both sides of the body, screw plugs supplied
Mounting position	any
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: brass at R364, aluminium at R374 Spring cage: glass fibre reinforced plastic, optionally brass Elastomer: NBR/Buna-N, optionally FKM Inner valve: brass, optionally stainless steel



Dimensions			Flow rate		Connection thread	Pressure range	Order number
A	B	C	m 3 /h*1	l/min*1	G	bar	
mm	mm	mm					

Brass pressure regulator			supply pressure max. 21 bar, relieving		R364		
35	76	12	27	450	G $\frac{1}{8}$	0.1 ... 1.0	R364-010
						0.2 ... 1.8	R364-01A
						0.2 ... 4.0	R364-01B
						0.3 ... 9.0	R364-01C
						0.5 ... 11	R364-01D
35	76	12	27	450	G $\frac{1}{4}$	0.1 ... 1.0	R364-020
						0.2 ... 1.8	R364-02A
						0.2 ... 4.0	R364-02B
						0.3 ... 9.0	R364-02C
						0.5 ... 11	R364-02D



R364
made of brass

Aluminium pressure regulator			supply pressure max. 21 bar, relieving		R374		
35	76	12	27	450	G $\frac{1}{8}$	0.1 ... 1.0	R374-010
						0.2 ... 1.8	R374-01A
						0.2 ... 4.0	R374-01B
						0.3 ... 9.0	R374-01C
						0.5 ... 11	R374-01D
35	76	12	27	450	G $\frac{1}{4}$	0.1 ... 1.0	R374-020
						0.2 ... 1.8	R374-02A
						0.2 ... 4.0	R374-02B
						0.3 ... 9.0	R374-02C
						0.5 ... 11	R374-02D



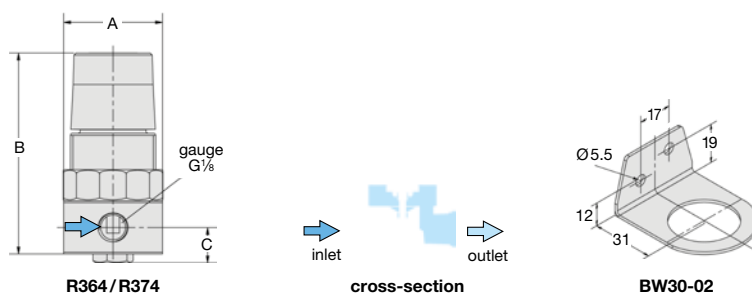
R374
made of aluminium

Special options, add the appropriate letter

non-relieving	without relieving function	R3.4-0...K
adjustment lock	socket wrench adjustment, height 64 mm	R3.4-0...T
free of grease and oil	specially cleaned, suitable for oxygen	R3.4-0...L
FKM elastomer	inner parts made of brass	R3.4-0...X64
	inner parts made of stainless steel	R3.4-0...X08

Accessories, enclosed

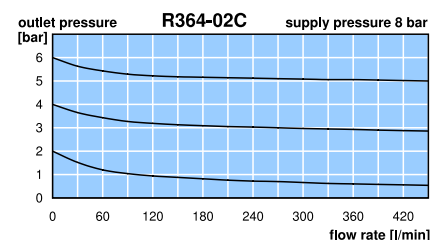
pressure gauge	Ø 40 mm, 0... ^{*2} bar, G $\frac{1}{8}$	MA4001-... ^{*2}
mounting bracket	made of steel	BW30-02
mounting nut	made of plastic	M30x1,5K
	made of aluminium	M30x1,5A



*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop
*2 01 = 0...1 bar, 02 = 0...2,5 bar, 04 = 0...4 bar, 10 = 0...10 bar, 16 = 0...16 bar



R364-02CT with adjustment lock
R364-02CX82 brass throughout



* Product group

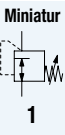
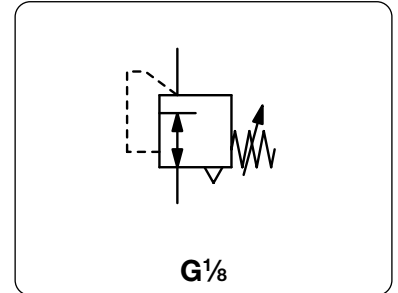
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net



Order example:
R364-010

Description	Precision pressure regulator made of plastic, with diaphragm, with tamper-proof knob and without constant bleed. Excellent for portable systems thanks to small size and light weight of only 70 g.
Media	compressed air or non-corrosive gases
Supply pressure	max. 10 bar
Adjustment	by plastic knob with snap-lock
Relieving function	relieving, optionally non-relieving
Gauge port	G $\frac{1}{8}$ on both sides of the body, one screw plug supplied
Mounting position	any
Temperature range	0 °C to 60 °C / 32 °F to 140 °F
Material	Body: POM Elastomer: NBR/Buna-N Inner valve: brass



Dimensions			Flow rate	Supply pressure	Connection thread	Pressure range	Order number
A	B	C	l/min*1	max. bar	G	bar	
mm	mm	mm					

Miniature pressure regulator					supply pressure max. 10 bar, relieving, without constant bleed	R307	
30	64	8	360	10	G $\frac{1}{8}$	0.2 ... 2.5 0.2 ... 3.5 0.2 ... 8.0	R307-01B R307-01C R307-01D

Special options, add the appropriate letter

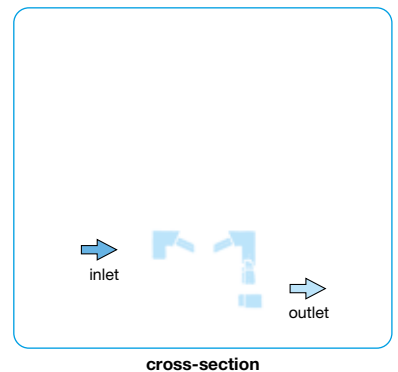
non-relieving	without relieving function	R307-01 . K
for oxygen	specially cleaned, with oxygen grease	R307-01 . K15



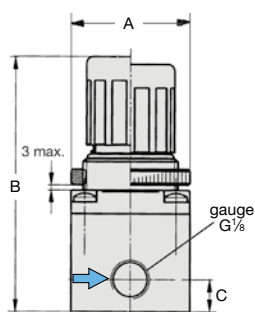
R307

Accessories, enclosed

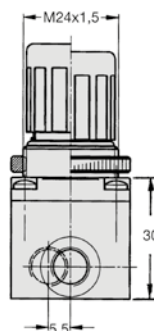
pressure gauge	Ø 23 mm, 0...*2 bar, G $\frac{1}{8}$	MA2301-...*2
mounting nut	made of brass	M24x1,5M



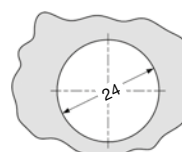
cross-section



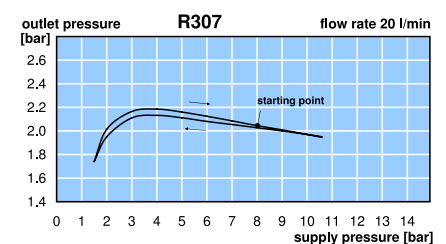
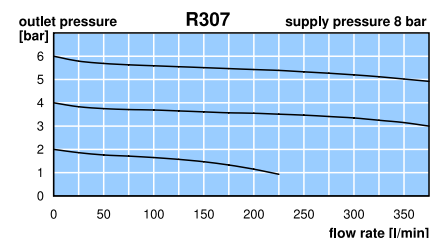
R307



R307

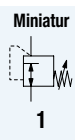


panel cut-out

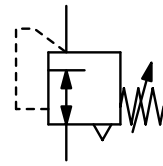


*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop
*2 04 = 0...4 bar, 10 = 0...10 bar





Description	Precision pressure regulator, made of plastic, with diaphragm, with tamper-proof knob and without constant bleed. Excellent for portable systems thanks to small size and light weight of only 70 g.	
Media	compressed air or non-corrosive gases	
Supply pressure	max. 10 bar	
Adjustment	by plastic knob with snap-lock	
Relieving function	relieving, optionally non-relieving	
Gauge port	not available	
Mounting position	any	
Temperature range	0° C to 60 °C / 32 °F to 140 °F	
Material	Body:	POM
	Elastomer:	NBR/Buna-N
	Inner valve:	brass



flangeable

Dimensions		Flow rate	Supply pressure	Connection	Pressure range	Order number	
A	B	l/min*1	max. bar	flange	bar		
mm	mm						

Precision regulator with flange

supply pressure max. 10 bar, relieving, without constant bleed

R308

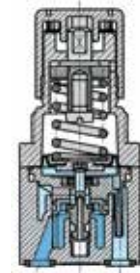
30	64	200	10	flange	0 ... 0.25	R308-P00
					0.2 ... 2.5	R308-P0B
					0.2 ... 3.5	R308-P0C
					0.2 ... 8.0	R308-P0D



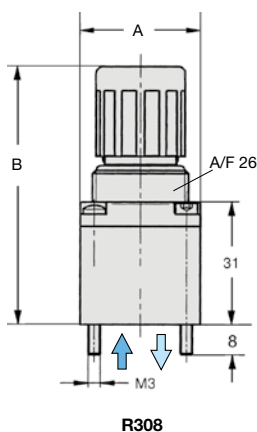
R308 flangeable

Special options, add the appropriate letter

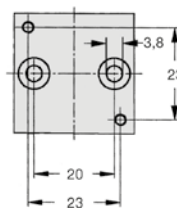
non-relieving	without relieving function	R308-P0. K
or oxygen	specially cleaned, with oxygen grease	R308-P0. K15



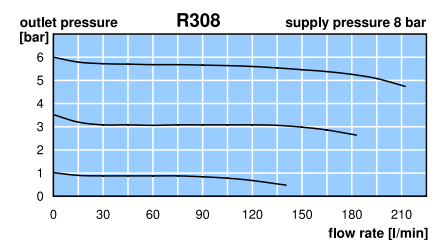
cross-section



R308



R308



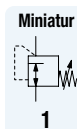
*1 for compressed air: 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

* Product group



Description	Piston-operated cartridge pressure regulator suitable for assembly block.
Media	compressed air filtered to 50 µm, lubricated or unlubricated
Supply pressure	max. 10 bar
Adjustment	by knurled-head screw with locknut
Relieving function	relieving
Gauge port	not available
Mounting position	any
Temperature range	0 °C to 60 °C / 32 °F to 140 °F, for appropriately conditioned compressed air down to -30 °C / -22 °F
Material	Body: nickel-plated brass Elastomer: NBR/Buna-N

G $\frac{1}{8}$ and G $\frac{1}{4}$



Dimensions				Flow rate	Supply pressure	Connection thread	Pressure range	Order number	
A	B	C	A/F	l/min*1	max. bar	G	bar		
mm	mm	mm	mm						

Cartridge regulator

supply pressure max. 10 bar, relieving,
without constant bleed

RC

15	57	15	14	150	10	G $\frac{1}{8}$	1...8 bar	RC-01C
19	63	18	17	260	10	G $\frac{1}{4}$	1...8 bar	RC-02C



RC-01C

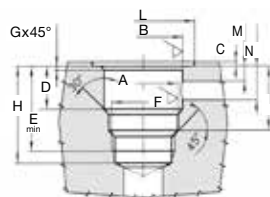
Step drill for cartridge seat

RCS

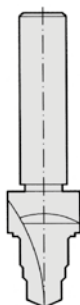
16	-	-	-			G $\frac{1}{8}$		RCS-01
20	-	-	-			G $\frac{1}{4}$		RCS-02



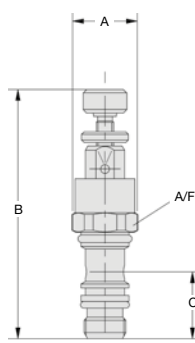
RC-02C



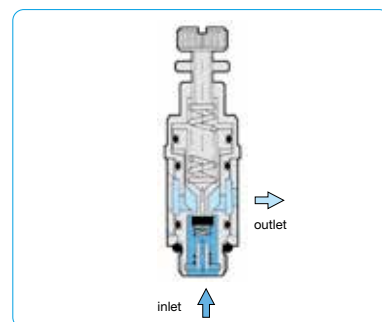
drilled hole



RCS



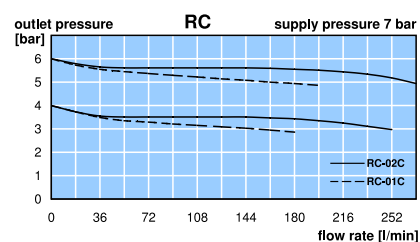
RC



cross-section

drill	F	A	B	C	D
RCS-01	$\frac{1}{8}$	9.8 - 0.1/-0	11.2 ± 0.05	0.5 ± 0.5	15.6 ± 0.07
RCS-02	$\frac{1}{4}$	13.5 + 0.1/-0	14.4 ± 0.05	0.5 ± 0.5	17.5 ± 0.07

drill	E	G	H	I	L	M	N
RCS-01	24.6	0.3	27	18.1 ± 0.2	15.4	3.5	12
RCS-02	28	0.4	31.2	20.8 ± 0.2	19.4	3.5	13.5



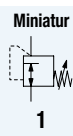
*1 at 7 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

* Product group

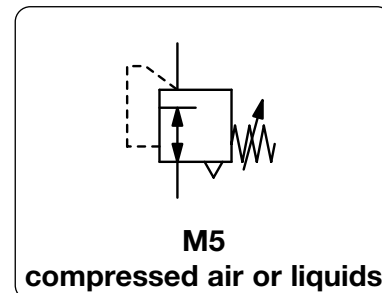
PDF CAD
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Order example:
RC-01C



Description	Piston-operated compact pressure regulator with special seals for applications in the chemical and medical industry. Mounting nut included.
Media	compressed air, non-corrosive gases or liquids
Supply pressure	max. 21 bar
Adjustment	by knurled-head screw
Relieving function	relieving or non-relieving
Gauge port	not available
Mounting position	any
Temperature range	0 °C to 80 °C / 32 °F to 176 °F for NBR/Buna-N 0 °C to 110 °C / 32 °F to 230 °F for EPDM for appropriately conditioned compressed air down to -30°C / -22°F
Material	Body: brass Elastomer: NBR/Buna-N, optionally FKM or EPDM Inner valve: stainless steel and brass



Dimensions			Description	Flow rate	Connection thread		Pressure range	Order number
A	B	A/F			Inlet	Outlet		
mm	mm	mm		l/min*1	M5 / NPT	M5 / 10-32"	bar	

Regulator with male thread				supply pressure max. 21 bar			MAR-1P	
18	71	9.5	relieving	120	1/8" NPTa	10-32"	0.2 ... 1.4	MAR-1P-20
							0.2 ... 3.5	MAR-1P-50
							0.2 ... 7.0	MAR-1P
18	71	9.5	non-relieving	120	1/8" NPTa	M5	0.2 ... 1.4	MAR-1PNR-20
							0.2 ... 3.5	MAR-1PNR-50
							0.2 ... 7.0	MAR-1PNR



MAR-1P, with male thread

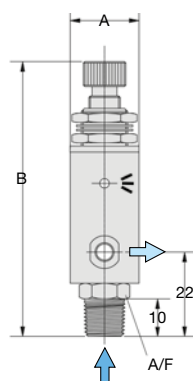
Regulator with female thread				supply pressure max. 21 bar			MAR-1	
18	65	9.5	relieving	120	M5	M5	0.2 ... 1.4	MAR-1-20
							0.2 ... 3.5	MAR-1-50
							0.2 ... 7.0	MAR-1
18	65	9.5	non-relieving	120	M5	M5	0.2 ... 1.4	MAR-1NR-20
							0.2 ... 3.5	MAR-1NR-50
							0.2 ... 7.0	MAR-1NR



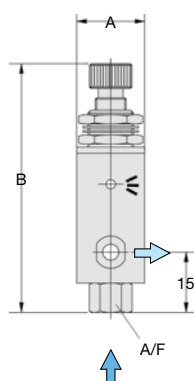
MAR-1, with female thread

Special options, add the appropriate letter

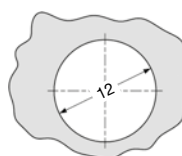
for oxygen	specially cleaned, with oxygen grease	MAR- . NR- ..15
FKM elastomer		MAR-V
EPDM elastomer		MAR-E
chemically nickel-plated	throughout	MAR-X13



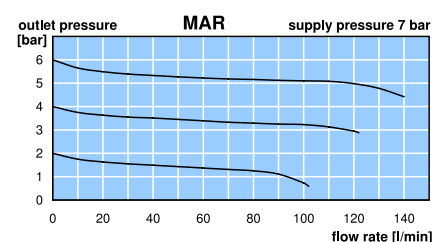
MAR-1P



MAR-1



panel cut-out

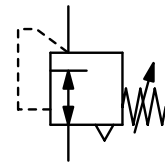


*1 at 7 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

* Product group



Description	Compact, high-precision, diaphragm-operated pressure regulator for panel-mounting.	
Media	non-corrosive gases, filtered, lubricated or unlubricated compressed air	
Supply pressure	max. 17 bar	
Air consumption	ca 1.5 l/min at 7 bar supply pressure	
Adjustment	by handwheel with locknut	
Relieving function	relieving	
Gauge port	RT-M5: gauge port M5	RT-MF: not available
Mounting position:	any	
Temperature range	0 °C to 70 °C / 32 °F to 158 °F, for appropriately conditioned compressed air down to -30 °C / -22 °F	
Material	Body: anodized aluminium Elastomer: FKM Inner valve: stainless steel and brass	



**M5 or flangeable
0...350 mbar/7 bar**



Dimensions			Flow rate	Supply pressure	Connection thread	Pressure range	Order number	C*
A	B	C						
mm	mm	mm	l/min*1	max. bar	M5 / Flansch	bar		

Pressure regulator M5				supply pressure max. 17 bar, with constant bleed		RT	
25	83	14.5	100	17	M5	0 ... 0.35	RT-M5A
						0 ... 1.1	RT-M5B
						0 ... 2.1	RT-M5C
						0 ... 4.2	RT-M5D
						0 ... 7.0	RT-M5E



**RT-M5C
with mounting nut**

Regulator with flange				supply pressure max. 17 bar, with constant bleed		RT	
25	83	–	100	17	flange	0... 0.35	RT-MFA
						0... 1.1	RT-MFB
						0... 2.1	RT-MFC
						0... 4.2	RT-MFD
						0... 7.0	RT-MFE



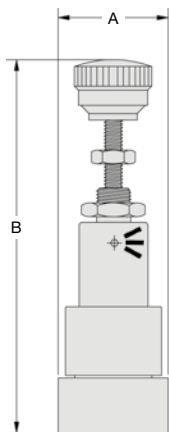
**RT-MFC
with flange and mounting nut**

Special options, add the appropriate letter

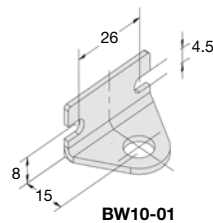
side connection	M5 or o-ring	RT-M . .X14
1/16" NPT	ports with female threads	RT-M . .X61

Accessories, enclosed

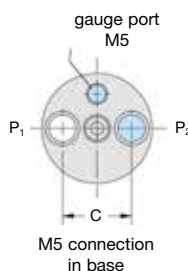
mounting bracket	made of steel, mounting nut at the device	BW10-01
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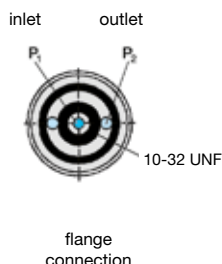
RT-M5



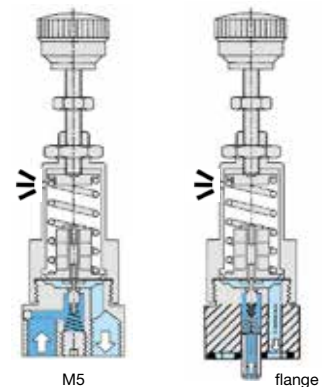
BW10-01



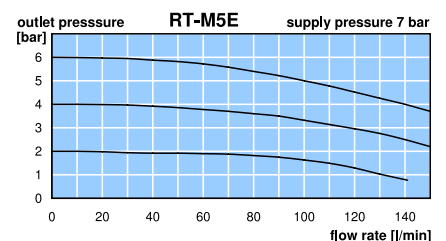
RT-M5



RT-MF



cross section



*1 for compressed air: 7 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

* Product group

