

WATER PRESSURE REGULATORS

	DESCRIPTION	SUPPLY PRESSURE max. bar	PRESSURE RANGE bar	CONNECTION thread	SERIES	PAGE
MINIATURE	made of plastic	11	0 ... 1.0 / 9	G $\frac{1}{8}$ u. G $\frac{1}{4}$	R25	9.02
	made of plastic	11	0 ... 1.8 / 9	G $\frac{1}{4}$ u. G $\frac{3}{8}$	R45	9.02
	preset, for drinking water	15	1 / 2 / 3... 8	G $\frac{1}{4}$	239K	9.03
STANDARD	female thread	60	0.2 ... 2 / 45	G $\frac{1}{4}$ - G2	RWI	9.04
	male thread	25	0.2 ... 2 / 20	R $\frac{1}{2}$ " - R $2\frac{1}{2}$ "	RWA	9.06
	flange	40	0.2 ... 2 / 20	DN 8-DN125	RWF	9.08
	stainless steel, flange	40	0.2 ... 2 / 20	DN15-DN50	RAF	9.10
	stainless steel, female thread	40	0.2 ... 2 / 20	G $\frac{1}{2}$ - G2	RAI	9.12
STEAM PRES. REGULATOR	spheroidal graphite iron	19	0.14 ... 1.7 / 9	G $\frac{1}{2}$ - G2, Flansch	RU	9.14
	red brass	17	0.14 ... 1.7 / 9	G $\frac{1}{2}$ - G2, Flansch	RU-R	9.14
	stainless steel	19	0.14 ... 1.7 / 9	G $\frac{1}{2}$ - G2, Flansch	RU-S	9.14



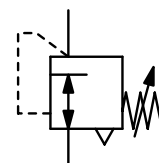
9

Special



9

Description	Miniature pressure regulator with diaphragm, designed for compressed air and water applications. All internal wetted sections are corrosion-resistant, lead free and without any brass components. Regulator for modular application with many integrated fixing holes.		
Media	compressed air, non-corrosive gases or water		
Supply pressure	max. 11 bar		
Adjustment	by plastic knob with snap-lock		
Relieving function	relieving for air, non-relieving for water		
Gauge port	G $\frac{1}{8}$ on both sides of R25,		G $\frac{1}{4}$ on both sides of R45, screw plugs supplied
Mounting position	any		
Temperature range	0 °C to 50 °C / 32 °F to 122 °F		
Material	Body: glass fibre-reinforced acetal Inner valve: glass fibre-reinforced acetal		Elastomer: NBR/Buna-N



G $\frac{1}{8}$ to G $\frac{3}{8}$
compressed air or water

Dimensions			Flow rate		Connection	Pressure	Order no.	Order no. for
A	B	C	water	air	thread	range	for water	compressed air
mm	mm	mm	l/min*1	l/min*1	G	bar	non-relieving	relieving

Pressure regulator

supply pressure max. 11 bar

R25

40	78	12	3	150	G $\frac{1}{8}$	0...1.0	R25-010K	R25-010
						0...1.8	R25-01AK	R25-01A
						0...4.0	R25-01BK	R25-01B
						0...9.0	R25-01CK	R25-01C
40	78	12	3	150	G $\frac{1}{4}$	0...1.0	R25-020K	R25-020
						0...1.8	R25-02AK	R25-02A
						0...4.0	R25-02BK	R25-02B
						0...9.0	R25-02CK	R25-02C



R25

Pressure regulator for high flow

supply pressure max. 11 bar

R45

52	87	14	10	680	G $\frac{1}{4}$	0...1.8	R45-02AK	R45-02A
						0...4.0	R45-02BK	R45-02B
						0...9.0	R45-02CK	R45-02C
52	87	14	13	960	G $\frac{3}{8}$	0...1.8	R45-03AK	R45-03A
						0...4.0	R45-03BK	R45-03B
						0...9.0	R45-03CK	R45-03C



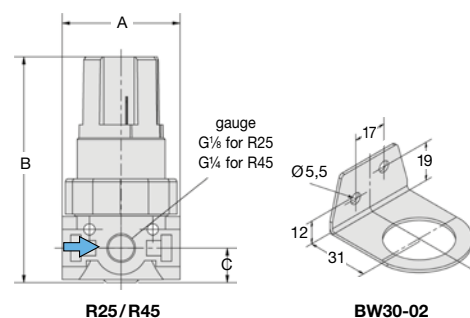
R45

Special options, add the appropriate letter

adjustment lock	socket wrench adjustment, height 64 mm	R25 only R25-0...T
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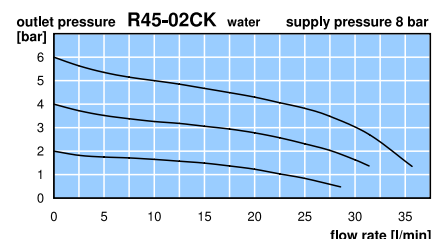
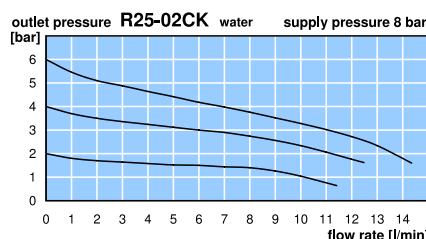
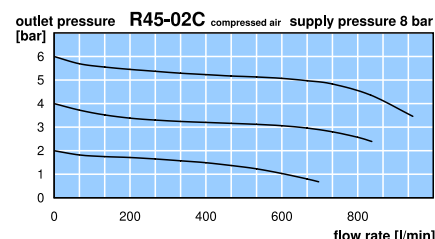
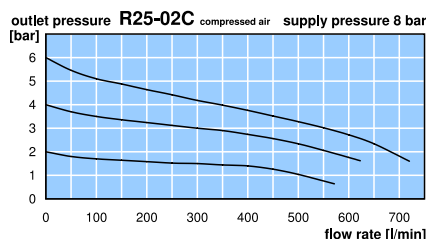
Accessories, enclosed

pressure gauge	Ø 40 mm, 0... ^{*2} bar, G $\frac{1}{8}$	for R25 MA4001-..^{*2}
	Ø 50 mm, 0... ^{*2} bar, G $\frac{1}{4}$	for R45 MA5002-..^{*2}
mounting bracket	made of steel	BW30-02
mounting nut	made of plastic	R05X51
	made of aluminium	R05X51-A



R25/R45

BW30-02



*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop, for water supply pressure 2 bar above outlet pressure
*2 01 = 0...1 bar, 02 = 0...2.5 bar, 04 = 0...4 bar, 10 = 0...10 bar

Gauges: see chapter for measuring devices

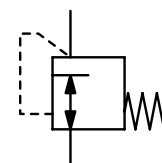
PDF CAD
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* Product group



Order example:
R25-010K

General	In-Line pressure regulator with factory-set outlet pressure, reducing from e.g. 10 bar to 5 bar. The outlet pressure cannot be subsequently adjusted. This safeguards against tampering.		
Description	regulator for drinking water certified according to NSF 61, 372		
Application	applications areas such as drinking water, food and medical industry		
Supply pressure	max. 15 bar		
Accuracy	± 0.3 bar, for compressed air P ₁ : 6 bar and 10 l/min		
Temperature range	4 °C to 60 °C / 39.2 °F to 140 °F		
Material	Body: Grivory® GV-5 FWA Inner parts: Stainless steel DIN 1.4404 / AISI 316L Diaphragm: EPDM	Seat: PP, Santoprene O-ring: FKM	



G¼
for drinking water / NSF

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

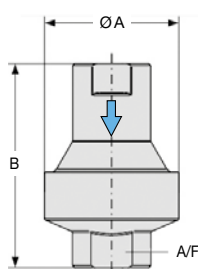
Regulator for drinking water					Grivory, accuracy *2	P1: max. 15 bar,	239K
34	52	17	10	15	G¼	1	239K0210
			10			2	239K0220
			10			3	239K0230
			10			4	239K0240
			10			5	239K0250
			10			6	239K0260
			10			7	239K0270
			10			8	239K0280



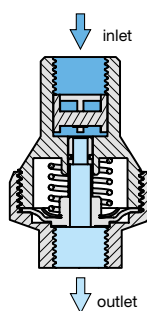
239K

Special options, add the appropriate letter

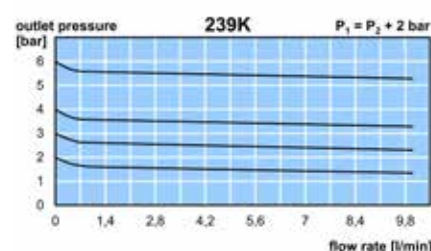
NPT	connection thread	239K1 . . .
deviant pressure range	indicate on order	239K . . XX



239K



cross-section



*1 P₁ = 10 bar; Δp = 0.8 bar

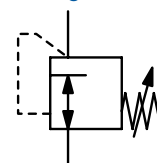
*2 Tolerance: < 4 bar ± 0.3 bar (air, P_e = 6 bar, 10 l/min)
≥ 4 bar ± 10% (air, P_e = 10 bar, 10 l/min)

* Product group



Description	Regulator independent of inlet pressure, made of gunmetal, with strainer of stainless steel. Regulators up to 10 bar outlet pressure equipped with diaphragm, all others are piston-operated. particularly all regulators RWI...C with outlet range 1.5 ...6 bar		
Drinking water	preferably water or drinking water, but also compressed air, neutral liquids and non-corrosive gases. Especially suitable for compressed air are regulators RWI...D. It has to be considered that these regulators are non-relieving.		
Media			
Pressure difference	1 bar, between inlet and outlet pressure	Mounting position	any, preferably vertical
Reduction ratio	between supply and outlet pressure should not be greater than: 20:1 for RWI...A, 10:1 for RWI...D, 6:1 for RWI...G/H, 3:1 for RWI...I		
Gauge port	G¼ on both sides of the body for outlet pressure, ports are closed with screw plugs.		
ATEX	according to ATEX2014/34/EU, EN1127, EN13463 for zone 1, 2, 21 and 22		
PED	according to EU directives DGRL/PED for liquids and gases of group 2		
Temperature range	0 °C to 80 °C / 32 °F to 176 °F	Screw standard	according to DIN ISO 228
Material	see opposite page		

drinking water



G¼ up to G2
0.2... 2/45 bar

Dimensions			Flow rate	Kvs-	Nominal	Connection	Pressure		Order
A	B	C	recommended	value	size	thread	inlet	outlet	number
mm	mm	mm	(m³/h)*1	(m³/h)*2	DN	G	max. bar	bar	



Regulator with female thread

gunmetal, NBR/Buna-N
drinking water: RWI...C

RWI

70	186	46	0.2	0.5	DN8	G¼	25	0.2 ... 2	RWI-02A
	167	47					25	1.5 ... 8	RWI-02D
	188	47					40	2.0 ... 20	RWI-02H
	191	48					60	20 ... 45	RWI-02I
70	186	46	0.2	0.6	DN10	G¾	25	0.2 ... 2	RWI-03A
	167	47					25	1.5 ... 8	RWI-03D
	188	47					40	2.0 ... 20	RWI-03H
	191	48					60	20 ... 45	RWI-03I
85	154	27	1.3	2.9	DN15	G½	16	0.2 ... 2	RWI-04A
	168	27	1.3	2.9			25	0.5 ... 4	RWI-04B
	168	27	1.3	2.9			25	1.5 ... 6	RWI-04C
	189	47	0.5	1.2			25	1.5 ... 8	RWI-04D
	163	27	1.3	2.9			25	1.5 ... 10	RWI-04E
	182	27	1.3	2.9			25	1.5 ... 12	RWI-04F
	233	27	1.3	2.9			25	2.0 ... 20	RWI-04G
	229	47	0.5	1.2			40	2.0 ... 20	RWI-04H
	218	47	0.5	1.2			60	20 ... 45	RWI-04I
95	157	27	2.3	3.9	DN20	G¾	16	0.2 ... 2	RWI-06A
	169	27	2.3	3.8			25	0.5 ... 4	RWI-06B
	169	27	2.3	3.9			25	1.5 ... 6	RWI-06C
	190	47	0.6	1.3			25	1.5 ... 8	RWI-06D
	164	27	2.3	3.9			25	1.5 ... 10	RWI-06E
	182	27	2.3	3.9			25	1.5 ... 12	RWI-06F
	234	27	2.3	3.9			25	2.0 ... 20	RWI-06G
	229	47	0.6	1.3			40	2.0 ... 20	RWI-06H
85	224	48	0.6	1.3			60	20 ... 45	RWI-06I
105	156	29	3.6	5.4	DN25	G1	16	0.2 ... 2	RWI-08A
	105	170	29	5.2			25	0.5 ... 4	RWI-08B
	105	170	29	5.4			25	1.5 ... 6	RWI-08C
	95	242	56	0.7	1.6		25	1.5 ... 8	RWI-08D
	105	164	29	3.6	5.4		25	1.5 ... 10	RWI-08E
	105	184	29	3.6	5.4		25	1.5 ... 12	RWI-08F
	105	235	29	3.6	5.4		25	2.0 ... 20	RWI-08G
	95	256	55	0.7	1.6		40	2.0 ... 20	RWI-08H



RWI-02...-03A

RWI-04...-10A

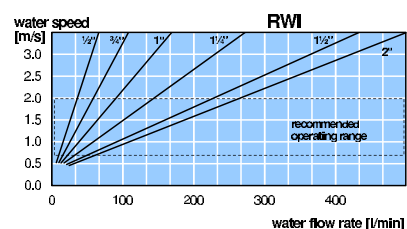
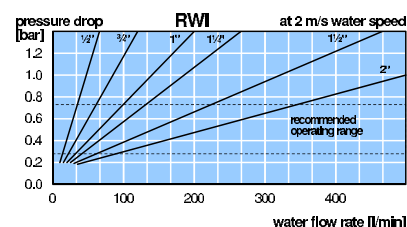


RWI-02...-08D

RWI-02...-08H/I



RWI-02...-10B/C/E/F/G

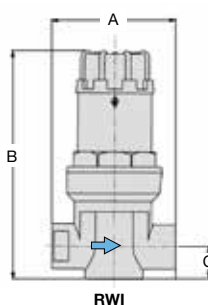


* Product group

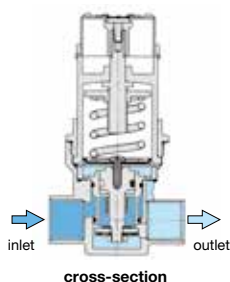


Order example:
RWI-02A

Special



RWI



cross-section

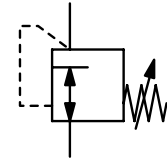
*1 at 2 m/s water speed

*2 for compressed air the flow is 70 times greater

PDF CAD
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Material											
Regulator	RW	RWI...A		RWI...B	RWI...C	RWI...D	RWI...E	RWI...F	RWI...G	RWI...H	RWI...I
Nominal size	DN	DN8-10	DN15-80	DN15-50	DN15-50	DN8-50	DN15-50	DN15-50	DN15-50	DN8-50	DN8-20
Body	all	gunmetal CnSn5Zn5Pb2-C-GS / CC499K (Rg5)									
Spring cage	< DN32	Ms (< DN25)	PA	Ms	PA	Ms (< DN25)	Ms	Ms	Ms (< DN25)		
	> DN40	-	Rg		GG	GG (> DN32)	GG	GG	GG (> DN32)		
Seals	all		NBR/Buna N			NBR/Buna N			NBR/Buna-N		
Diaphragm	< DN25	CR	NBR/Buna N			CR	NBR/Buna-N		piston / NBR/Buna-N		
	> DN32		NBR/Buna N			CR	NBR/Buna-N		piston / NBR/Buna-N		
Spring cage	< DN32	Ms	Ms, SS, Ho			Ms	Ms, SS, Ho (< DN25 Ms)		Ms	Ms	
	> DN40	-	Ms, SS			Ms, Rg, SS	Ms, SS		Ms, Rg, SS		-
Reg. assembly	< DN32	cartridge				valve seat	cartridge	valve seat			
removable	> DN40	valve seat									
Legend:	Ms: brass	SS: stainless steel			Rg: gunmetal		GG: grey cast iron		Ho: Hostaform C		

drinking water



G $\frac{1}{4}$ up to G2
0.2...2/45 bar

Dimensions			Flow rate	Kvs-	Nominal	Connection	Pressure		Order	
A	B	C	recommended	value	size	thread	inlet	outlet	number	
mm	mm	mm	(m ³ /h)*1	(m ³ /h)*2	DN	G	max. bar	bar		B*

Regulator with female thread

gunmetal, NBR/Buna-N
drinking water: RWI...C

RWI

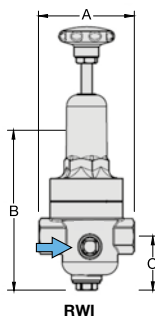
120	174	47	5.8	6.1	DN32	G1 $\frac{1}{4}$	16	0.2 ... 2	2	RWI-10A
120	187	47	5.8	6.0			25	0.5 ... 4	4	RWI-10B
120	186	47	5.8	6.1			25	1.5 ... 6	6	RWI-10C
104	323	61	3.0	4.2			25	1.5 ... 8	8	RWI-10D
120	182	47	5.8	6.1			25	1.5 ... 10	10	RWI-10E
120	200	47	5.8	6.1			25	1.5 ... 12	12	RWI-10F
120	252	47	5.8	6.1			25	2.0 ... 20	20	RWI-10G
104	385	61	3.0	4.2			40	1.5 ... 20	20	RWI-10H
150	371	60	9.0	9.0	DN40	G1 $\frac{1}{2}$	16	0.2 ... 2	2	RWI-12A
150	301	60	9.0	9.0			25	0.5 ... 4	4	RWI-12B
150	293	52	9.0	9.0			25	1.5 ... 6	6	RWI-12C
108	323	61	3.2	4.5			25	1.5 ... 8	8	RWI-12D
150	365	52	9.0	9.0			25	1.5 ... 10	10	RWI-12E
150	361	60	9.0	9.0			25	1.5 ... 12	12	RWI-12F
150	386	60	9.0	9.0			25	2.0 ... 20	20	RWI-12G
108	392	61	3.2	4.5			40	1.5 ... 20	20	RWI-12H
160	371	60	14	13	DN50	G2	16	0.2 ... 2	2	RWI-16A
160	301	60	14	13			25	0.5 ... 4	4	RWI-16B
160	293	52	14	13			25	1.5 ... 6	6	RWI-16C
147	378	72	6.9	7.2			25	1.5 ... 8	8	RWI-16D
160	365	52	14	13			25	1.5 ... 10	10	RWI-16E
160	361	60	14	13			25	1.5 ... 12	12	RWI-16F
160	386	60	14	13			25	2.0 ... 20	20	RWI-16G
147	421	72	6.9	7.2			40	1.5 ... 20	20	RWI-16H

Special options, add the appropriate letter

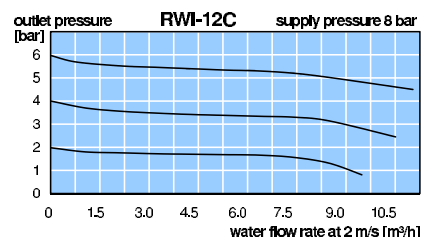
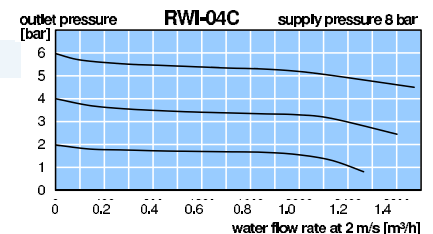
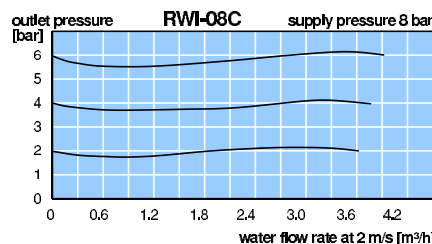
NPT	connection thread	RWI-...N
Elastomer	CR: C FKM: V	RWI-...V
for different media	warm-, hot-, and see water, acids, bases, oil, petrol glue, food, foam, gases etc.	RWI-...X

Accessories, enclosed

pressure gauge	Ø 50 mm, 0... ^{*3} bar, G $\frac{1}{4}$	up to G $\frac{1}{2}$ MA5002-... ^{*3}
	Ø 63 mm, 0... ^{*3} bar, G $\frac{1}{4}$	from G $\frac{3}{4}$ MA6302-... ^{*3}



RWI



*1 at 2 m/s water speed *2 for compressed air the flow is 70 times greater
*3 02 = 0...2 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar, 25 = 0...25 bar, 60 = 0...60 bar

Gauges: see chapter for measuring devices

PDF CAD
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* Product group



Order example:
RWI-10A

Special



9

Description

Drinking water



Media

Pressure difference

Gauge port

Mounting position

ATEX

PED

Temperature range

Material

Regulator independent of inlet pressure, made of gunmetal, with strainer of stainless steel. Regulators up to 10 bar outlet pressure equipped with diaphragm, all others are piston-operated. particularly all regulators RWA-...C with pressure range 1.5 ...6 bar. Regulators with DN15 up to DN25 have the same constructions dimensions as D06F from Honeywell, according to DVGW up to DN32.

preferably water or drinking water, but also compressed air, neutral liquids and non-corrosive gases. It has to be considered that these regulators are non-relieving.

1 bar, between inlet and outlet pressure

G $\frac{1}{4}$ on both sides of the body for outlet pressure, ports are closed with screw plugs.

any, preferably vertical

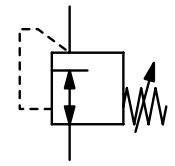
according to ATEX2014/34/EU, EN1127, EN13463 for zone 1, 2, 21 and 22

according to EU directives DGRL/PED for liquids and gases of group 2

0 °C to 80 °C / 32 °F to 176 °F

see opposite page

drinking water



R $\frac{1}{2}$ " up to R2 $\frac{1}{2}$ "
0.2 ... 2 / 20 bar

Dimensions			Flow rate	K _{vs} -	Nominal	Connection	Pressure		Order	
A	B	C	recommended	value	size	thread	inlet	outlet	number	
mm	mm	mm	(m ³ /h)*1	(m ³ /h)*2	DN	R	max. bar	bar		B*

Regulator with male thread

gunmetal, NBR/Buna-N
drinking water: RWA-...C

RWA

137	154	27	1,3	2.9	DN15	1/2"	16	0.2 ... 2	RWA-04A
	163						25	0.5 ... 4	RWA-04B
	168						25	1.5 ... 6	RWA-04C
	163						25	1.5 ... 10	RWA-04E
	182						25	1.5 ... 12	RWA-04F
	233						25	2.0 ... 20	RWA-04G
141	156	27	2,3	3.9	DN20	3/4"	16	0.2 ... 2	RWA-06A
	163						25	0.5 ... 4	RWA-06B
	168						25	1.5 ... 6	RWA-06C
	163						25	1.5 ... 10	RWA-06E
	182						25	1.5 ... 12	RWA-06F
	233						25	2.0 ... 20	RWA-06G
161	155	29	3,6	5.4	DN25	1"	16	0.2 ... 2	RWA-08A
	164						25	0.5 ... 4	RWA-08B
	168						25	1.5 ... 6	RWA-08C
	164						25	1.5 ... 10	RWA-08E
	182						25	1.5 ... 12	RWA-08F
	233						25	2.0 ... 20	RWA-08G
177	156	47	5,8	6.1	DN32	1 1/4"	16	0.2 ... 2	RWA-10A
	219						25	0.5 ... 4	RWA-10B
	222						25	1.5 ... 6	RWA-10C
	219						25	1.5 ... 10	RWA-10E
	234						25	1.5 ... 12	RWA-10F
	252						25	2.0 ... 20	RWA-10G



DN15-32

RWA-04B/C/E



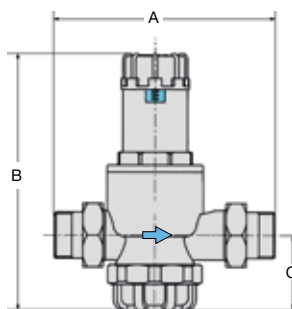
DN15-32

RWA-04A

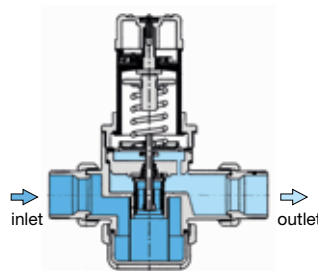


DN15-32

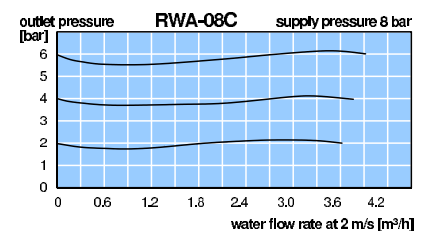
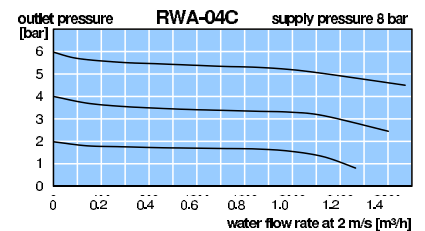
RWA-04F/G



RWA



cross-section



* Product group

*1 at 2 m/s water speed

*2 for compressed air the flow is 70 times greater

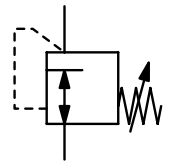
PDF CAD
www.aircom.net



Order example:
RWA-04A

Material							
Regulator	RW	RWA-..A	RWA-..B	RWA-..C	RWA-..E	RWA-..F	RWA-..G
Nominal size	DN	DN15-65	DN15-65	DN15-65	DN15-65	DN15-100	DN15-65
Body	all	gunmetal CnSn5ZN5Pb2-C-GS / CC499K (Rg5)					
Spring cage	< DN32 > DN40	PA Rg	Ms GG	PA	Ms GG	Ms (< DN25) GG (> DN32)	
Seals	all	NBR/Buna N					
Diaphragm	< DN25 > DN32	NBR/Buna N NBR/Buna N			NBR/Buna-N piston / NBR/Buna-N		
Inner valve	< DN32 > DN40	Ms, SS, Ho Ms, SS			Ms, SS, Ho (< DN25 Ms) Ms, SS		
Reg. assembly	< DN32	cartridge				valve seat	
removable	> DN40	valve seat				valve seat	
Legend:	Ms: brass	SS: stainless steel	Rg: gunmetal	GG: grey cast iron	Ho: Hostaform C	NBR/Buna-N: nitrile rubber	

drinking water



R $\frac{1}{2}$ " up to R2 $\frac{1}{2}$ "
0.2 ... 2 / 20 bar

Dimensions			Flow rate	K _{vs}	Nominal Connection		Pressure		Order
A	B	C	recommended	value	size	thread	inlet	outlet	number
mm	mm	mm	(m ³ /h)*1	(m ³ /h)*2	DN	R	max. bar	bar	

Regulator with male thread

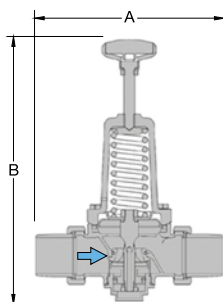
							gunmetal, NBR/Buna-N drinking water: RWA-..C	RWA
210	370	59	9,0	9.0	DN40	1½"	16	0.2 ... 2 RWA-12A
	301	51					25	0.5 ... 4 RWA-12B
	293	51					25	1.5 ... 6 RWA-12C
	361	51					25	1.5 ... 10 RWA-12E
	361	51					25	1.5 ... 12 RWA-12F
	386	51					25	2.0 ... 20 RWA-12G
210	372	61	14	13	DN50	2"	16	0.2 ... 2 RWA-16A
	372	61					25	0.5 ... 4 RWA-16B
	294	53					25	1.5 ... 6 RWA-16C
	363	53					25	1.5 ... 10 RWA-16E
	364	53					25	1.5 ... 12 RWA-16F
	388	53					25	2.0 ... 20 RWA-16G
273	394	68	24	20	DN65	2½"	16	0.2 ... 2 RWA-20A
	324						25	0.5 ... 4 RWA-20B
	324						25	1.5 ... 6 RWA-20C
	392						25	1.5 ... 10 RWA-20E
	384						25	1.5 ... 12 RWA-20F
	408						25	2.0 ... 20 RWA-20G

Special options, add the appropriate letter

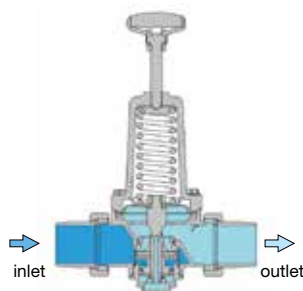
NPT	connection thread	RWA-.. .N
Elastomer	CR: C	RWA-.. .V
for different media	FKM: V	RWA-.. .X
	warm-, hot-, and see water, acids, bases, oil, petrol glue, food, foam, gases etc.	

Accessories, enclosed

pressure gauge	Ø 50 mm, 0... ^{*3} bar, G $\frac{1}{4}$	G $\frac{1}{2}$ MA5002-..^{*3}
	Ø 63 mm, 0... ^{*3} bar, G $\frac{1}{4}$	up to G $\frac{3}{4}$ MA6302-..^{*3}



RWA



cross-section

*1 at 2 m/s water speed *2 for compressed air the flow is 70 times greater
*3 02 = 0...2 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar, 25 = 0...25 bar

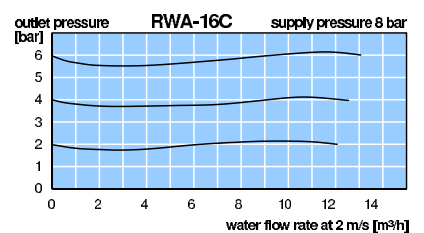
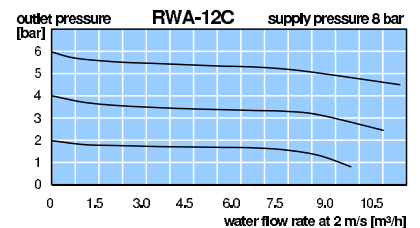
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

* Product group



Order example:
RWA-12A



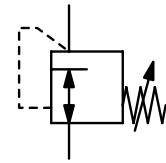
Special



9

Description	Regulator independent of inlet pressure, made of gunmetal, with strainer of stainless steel. Regulators up to 10 bar outlet pressure equipped with diaphragm, all others are piston-operated.
Drinking water	particularity all regulators RWF-...C with pressure range 1.5 ... 6 bar.
Media	preferably water or drinking water, but also compressed air, neutral liquids and non-corrosive gases. It has to be considered that these regulators are non-relieving.
Pressure difference	1 bar, between inlet and outlet pressure
Gauge port	G¼ on both sides of the body for outlet pressure, ports are closed with screw plugs.
Mounting position	any, preferably vertical
ATEX	according to ATEX2014/34/EU, EN1127, EN13463 for zone 1, 2, 21 and 22
PED	according to EU directives DGRL/PED for liquids and gases of group 2
Flanges	according to DIN 1092. length according to DIN558-1
Temperature range	0 °C to 80 °C / 32 °F to 176 °F
Material	see opposite page

drinking water



DN8 up to DN125
0.2 ... 2/20 bar

Dimensions				Flow rate		Kvs- value (m³/h)	Nominal size DN	Pressure		Order number	
A	B	C	D	recommended	(m³/h)*1			inlet max. bar	outlet bar		
mm	mm	mm	mm								



Pressure regulator with flange

gunmetal, NBR/Buna N, w/o gauge
drinking water: RWF-...C

RWF

130	178	48	80	0.2	0.5	DN8	25	0.8 ... 8	RWF-02D
							40	1.5 ... 20	RWF-02G
				0.2	0.5	DN10	25	0.8 ... 8	RWF-03D
							40	1.5 ... 20	RWF-03G
130	175	48	95	1.3	2.9	DN15	16	0.2 ... 2	RWF-04A
	187						25	0.5 ... 4	RWF-04B
	189							1.5 ... 6	RWF-04C
	174							1.5 ... 10	RWF-04E
	178							1.5 ... 12	RWF-04F
	254							2.0 ... 20	RWF-04G
150	183	53	105	2.3	3.9	DN20	16	0.2 ... 2	RWF-06A
	193						25	0.5 ... 4	RWF-06B
	195							1.5 ... 6	RWF-06C
	190							1.5 ... 10	RWF-06E
	203							1.5 ... 12	RWF-06F
	263							2.0 ... 20	RWF-06G
160	185	58	115	3.6	5.4	DN25	16	0.2 ... 2	RWF-08A
	197						25	0.5 ... 4	RWF-08B
	199							1.5 ... 6	RWF-08C
	194							1.5 ... 10	RWF-08E
	213							1.5 ... 12	RWF-08F
	264							2.0 ... 20	RWF-08G
180	197	70	140	5.8	6.1	DN32	16	0.2 ... 2	RWF-10A
	210						25	0.5 ... 4	RWF-10B
	210							1.5 ... 6	RWF-10C
	205							1.5 ... 10	RWF-10E
	223							1.5 ... 12	RWF-10F
	275							2.0 ... 20	RWF-10G
200	386	75	150	9.0	9.0	DN40	16	0.2 ... 2	RWF-12A
	316						25	0.5 ... 4	RWF-12B
	316							1.5 ... 6	RWF-12C
	388							1.5 ... 10	RWF-12E
	377							1.5 ... 12	RWF-12F
	401							2.0 ... 20	RWF-12G



DN8-25

RWF-02...-08D/G



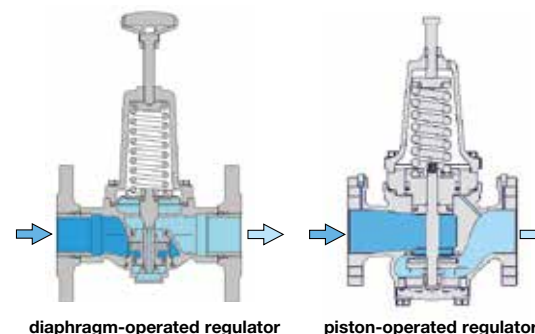
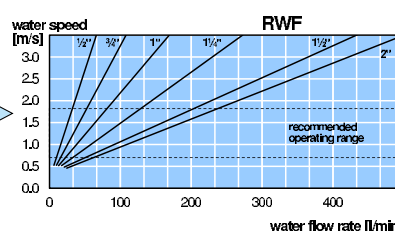
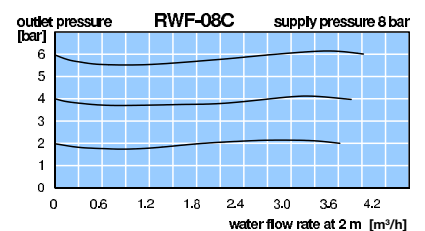
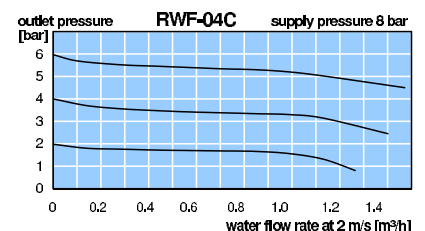
DN32-50

RWF-10...-16G



DN80

RWF-24A
accessories: pressure gauge



diaphragm-operated regulator

piston-operated regulator

*1 at 2 m/s water speed

* for compressed air the flow is 70 times greater

* Product group

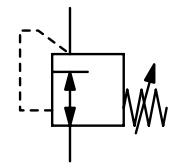
PDF CAD
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Order example:
RWF-02D

Material								
Regulator	RW	RWF-...A		RWF-...B	RWF-...C	RWF-...E	RWF-...F	RWF-...G
Nominal size	DN	DN8-10	DN15-80	DN15-125	DN15-125	DN15-125	DN15-100	DN8-80
Body	all	gunmetal CnSn5Zn5Pb2-C-GS / CC499K (Rg5)						
Spring cage	< DN32 > DN40	Ms (< DN25) -	PA Rg	Ms	PA	Ms	Ms (< DN25) GG (> DN32)	
Seals	all	NBR/Buna-N						
Diaphragm	< DN25 > DN32	CR	NBR/Buna-N				piston / NBR/Buna-N piston / NBR/Buna-N	
Inner valve	< DN32 > DN40	Ms -	Ms, SS, Ho Ms, SS			Ms, SS, Ho (< DN25 Ms) Ms, SS		
Reg. assembly removable	< DN32 > DN40	cartridge					valve seat	
Legend: Ms: brass SS: stainless steel Rg: gunmetal GG: grey cast iron Ho: Hostaform C CR: chloroprene rubber, NBR/Buna-N: nitrile rubber								

drinking water



DN8 up to DN125
0.2... 2/20 bar

Dimensions				Flow rate	K _{vs} -	Nominal	Pressure		Order	
A	B	C	D	recommended	value	size	inlet	outlet	number	B*
mm	mm	mm	mm	(m³/h)*1	(m³/h)	DN	max. bar	bar		

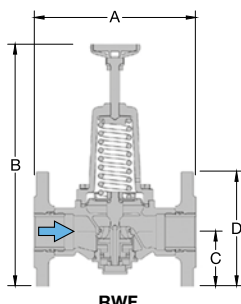
Pressure regulator with flange						gunmetal, NBR/Buna N, w/o gauge drinking water: RWF-..C	RWF				
230	394	83	165	14	13	DN50	16	0.2 ... 2	2	RWF-16A	
324							25	0.5 ... 4	4	RWF-16B	
324								1.5 ... 6	6	RWF-16C	
396								1.5 ... 10	10	RWF-16E	
384								1.5 ... 12	12	RWF-16F	
411								2.0 ... 20	20	RWF-16G	
290	420	93	185	24	20	DN65	16	0.2 ... 2	2	RWF-20A	
349							25	0.5 ... 4	4	RWF-20B	
349								1.5 ... 6	6	RWF-20C	
418								1.5 ... 10	10	RWF-20E	
411								1.5 ... 12	12	RWF-20F	
429								2.0 ... 20	20	RWF-20G	
310	427	100	200	26	24	DN80	16	0.2 ... 2	2	RWF-24A	
	518	136		60	60			0.5 ... 4	4	RWF-24B	
	356	100		26	24			1.5 ... 6	6	RWF-24C	
	518	136		60	60			1.5 ... 6	6	RWF-25C	
	521			60	60			3.0 ... 10	10	RWF-24E	
	545			60	60		25	4.0 ... 12	12	RWF-24F	
	436			24	24		25	2.0 ... 20	20	RWF-24G	
350	540	140	200	80	80	DN100	16	0.5 ... 4	4	RWF-32B	
	540							1.5 ... 6	6	RWF-32C	
	542							3.0 ... 10	10	RWF-32E	
	600	135						4.0 ... 12	12	RWF-32F	
400	730	165	270	130	130	DN125	16	0.5 ... 4	4	RWF-40B	
	540							1.5 ... 6	6	RWF-40C	
	542							3.0 ... 10	10	RWF-40E	

Special options, add the appropriate letter

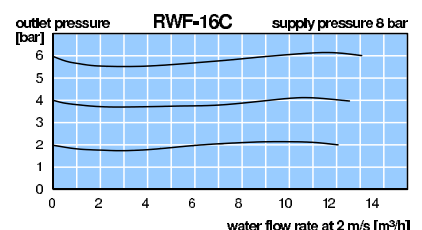
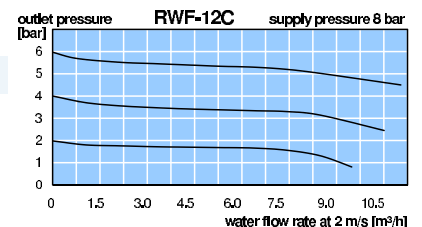
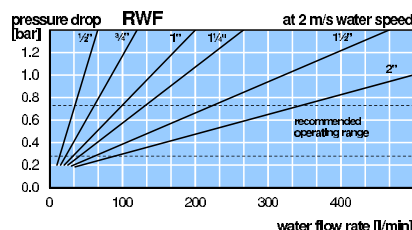
Elastomer	EPDM: E	CR: C	FKM: V	RWF-.. V
flange connection	ANSI			RWF-.. F6
for different media	warm-, hot-, and see water, acids, bases, oil, petrol glue, food, foam, gases etc.			RWF-.. X

Accessories, enclosed

pressure gauge Ø 63 mm, vertical 0...*2 bar, G $\frac{1}{4}$ MT6302-..*2



RWF



*1 at 2 m/s water speed * for compressed air the flow is 70 times greater
*2 02 = 0...0.2 bar, 04 = 0...0.4 bar, 06 = 0...0.6 bar, 10 = 0...1.0 bar, 16 = 0...1.6 bar, 25 = 0...2.5 bar

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

* Product group



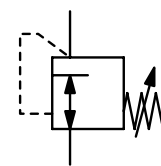
Order example:
RWF-16A

Special



9

Description	Pressure regulator made of stainless steel throughout. Even when spindle is unscrewed the indicated minimum outlet pressure is existent. Inner parts are replaceable.
Medium	With stainless-steel dirt-trap / strainer
Supply pressure	aggressive liquids, compressed air or non-corrosive gases. Not suitable for steam!
Minimum press. difference	see chart, max. 40 bar
Adjustment	$P_1 : P_2 = 1$ bar
Relieving function	with hexagon socket, with locknut
Gauge port	non-relieving
Mounting position	$G\frac{1}{4}$ on both sides of the body, one screw plug supplied
Flange	any, preferably vertical
Temperature range	according DIN 1092, overall length according DIN 558-1
Material	0 °C to 190 °C / 32 °F to 374 °F for FKM for media and ambient temperature
	0 °C to 130 °C / 32 °F to 266 °F for EPDM for media and ambient temperature
	Body, spring cage, inner valve: stainless steel 1.4408 / V4A / 316 L
	Elastomer and seals: FKM / FPM, optionally EPDM



DN 15 up to DN 50
liquids or gases

Dimensions	K _v -value	Flow rate	Supply	Mounting	Pressure	Order	
A B C	value	water	pressure	flange	range	number	
mm mm mm	(m³/h)*1	l/min*2	max. bar	DN	bar		C*

Regulator with flange					for liquids, supply pressure max. 25/40 bar non-relieving, 1.4408 / V4A / 316L, FKM			RAF
130	137	95	2.9	50	25	DN15	0.2 ... 2	RAF-04A
	118	40			0.5 ... 4		RAF-04B	
	118	40			1.5 ... 6		RAF-04C	
	118	40			1.5 ... 10		RAF-04D	
	136	40			2.0 ... 20		RAF-04F	
150	137	105	3.9	65	25	DN20	0.2 ... 2	RAF-06A
	118	40			0.5 ... 4		RAF-06B	
	118	40			1.5 ... 6		RAF-06C	
	118	40			1.5 ... 10		RAF-06D	
	137	40			2.0 ... 20		RAF-06F	
160	150	115	5.4	90	25	DN25	0.2 ... 2	RAF-08A
	118	40			0.5 ... 4		RAF-08B	
	118	40			1.5 ... 6		RAF-08C	
	118	40			1.5 ... 10		RAF-08D	
	137	40			2.0 ... 20		RAF-08F	
180	150	140	6.1	102	25	DN32	0.2 ... 2	RAF-10A
	118	40			0.5 ... 4		RAF-10B	
	118	40			1.5 ... 6		RAF-10C	
	118	40			1.5 ... 10		RAF-10D	
	137	40			2.0 ... 20		RAF-10F	



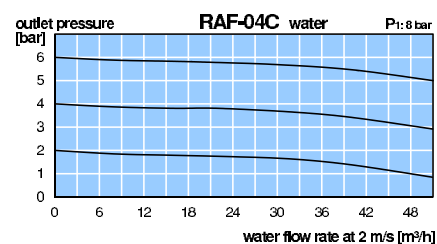
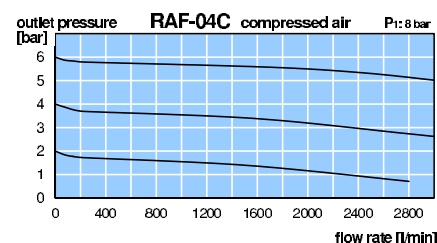
RAF-04...-10A



RAF-04...-10B/C/D



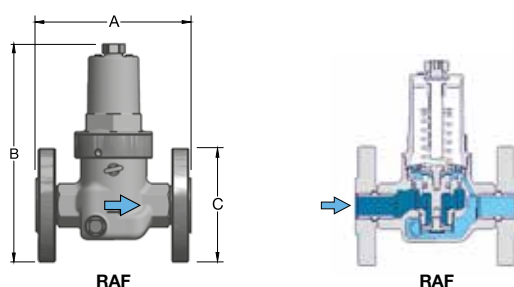
RAF-04...-10F



* Product group

Order example:
RAF-04A

Spezial



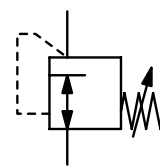
*1 at 2 m/s water speed
*2 for compressed air the flow is 70 times greater
*3 02 = 0...2 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar, 25 = 0...25 bar

Gauges: see chapter for measuring devices

PDF CAD
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Description	Pressure regulator made of stainless steel throughout. Even when spindle is unscrewed the indicated minimum outlet pressure is existent. Inner parts are replaceable.
Medium	With stainless-steel dirt-trap / strainer
Supply pressure	aggressive liquids, compressed air or non-corrosive gases. Not suitable for steam!
Minimum press. difference	see chart, max. 40 bar
Adjustment	P ₁ : P ₂ = 1 bar
Relieving function	with hexagon socket, with locknut
Gauge port	non-relieving
Mounting position	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied
Flange	any, preferably vertical
Temperature range	according DIN 1092, overall length according DIN 558-1
Material	0 °C to 190 °C / 32 °F to 374 °F for FKM for media and ambient temperature
	0 °C to 130 °C / 32 °F to 266 °F for EPDM for media and ambient temperature
	Body, spring cage, inner valve: stainless steel 1.4408 / V4A / 316 L
	Elastomer and seals: FKM / FPM, optionally EPDM



**DN 15 up to DN 50
liquids or gases**

Dimensions			K _v - value	Flow rate water	Supply pressure	Mounting flange	Pressure range	Order number	C*
A	B	C							
mm	mm	mm	(m ³ /h)*1	l/min*2	max. bar	DN	bar		

Regulator with flange

for liquids, supply pressure max. 25/40 bar
non-relieving, 1.4408 / V4A / 316L, FKM

RAF

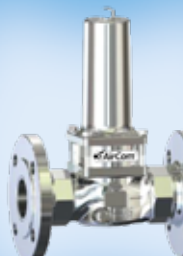
200	269	150	9.0	150	25	DN40	0.2 ... 2	RAF-12A
	219				40		0.5 ... 4	RAF-12B
	219				40		1.5 ... 6	RAF-12C
	219				40		1.5 ... 10	RAF-12D
	247				40		2.0 ... 20	RAF-12F
230	269	165	13	216	25	DN50	0.2 ... 2	RAF-16A
	219				40		0.5 ... 4	RAF-16B
	219				40		1.5 ... 6	RAF-16C
	219				40		1.5 ... 10	RAF-16D
	247				40		2.0 ... 20	RAF-16F



RAF-12/-16A



RAF-12/-16B/C/D



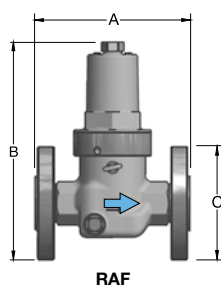
RAF-12/-16F

Special options, add the appropriate letter

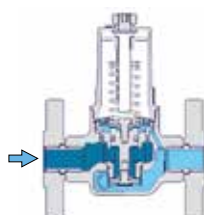
EPDM Elastomer membrane and seals, FDA approval **RAF-...TD**

Accessories, enclosed

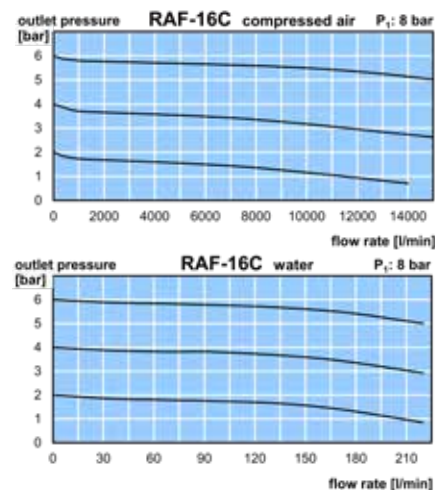
SST pressure gauge Ø 50 mm, 0...^{*3} bar, G $\frac{1}{4}$, for DN 15 **MS5002-...^{*3}**
Ø 63 mm, 0...^{*3} bar, G $\frac{1}{4}$, and all the rest of them **MS6302-...^{*3}**



RAF



RAF



*1 at 2 m/s water speed *2 for compressed air the flow is 70 times greater

*3 02 = 0...2 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar, 25 = 0...25 bar

PDF CAD
www.aircom.net



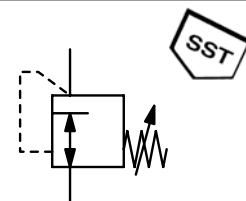
Order example:
RAF-12A

Special



9

Description	Pressure regulator made of stainless steel throughout. Even when spindle is unscrewed the indicated minimum outlet pressure is existent. Inner parts are replaceable. With stainless-steel dirt-trap / strainer
Medium	aggressive liquids, compressed air or non-corrosive gases. Not suitable for steam!
Supply pressure	see chart, max. 40 bar
Minimum press. difference	$P_1 : P_2 = 1$ bar
Adjustment	with hexagon socket, with locknut
Relieving function	non-relieving
Gauge port	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied
Mounting position	any, preferably vertical
Temperature range	0 °C to 190 °C / 32 °F to 374 °F medium and ambient temperature
Material	Body, spring cage, inner valve: stainless steel 1.4408 / V4A / 316 L Elastomer and seals: FKM/FPM



G $\frac{1}{2}$ up to G2
liquids or gases

Dimensions			K _v -value	Flow rate	Supply pressure	Nominal size	Connection thread	Pressure-range	Order number	
A	B	C		water	max. bar	DN	G	bar		
mm	mm	mm	(m ³ /h)*1	l/min						

Regulator with female thread

for liquids, supply pressure max. 25/40 bar
non-relieving, 1.4408 / V4A / 316L, FKM

RAI

95	166	29	2,9	50	25	DN15	G $\frac{1}{2}$	0.2 ... 2	RAI-04A
95	147	29			40			0.5 ... 4	RAI-04B
95	147	29			40			1.5 ... 6	RAI-04C
95	147	29			40			1.5 ... 10	RAI-04D
95	165	29			40			2.0 ... 20	RAI-04F
95	166	29	3,9	65	25	DN20	G $\frac{3}{4}$	0.2 ... 2	RAI-06A
95	147	29			40			0.5 ... 4	RAI-06B
95	147	29			40			1.5 ... 6	RAI-06C
95	147	29			40			1.5 ... 10	RAI-06D
95	165	29			40			2.0 ... 20	RAI-06F
110	189	39	5,4	90	25	DN25	G1	0.2 ... 2	RAI-08A
110	157	39			40			0.5 ... 4	RAI-08B
110	157	39			40			1.5 ... 6	RAI-08C
110	157	39			40			1.5 ... 10	RAI-08D
110	176	39			40			2.0 ... 20	RAI-08F
120	189	39	6,1	102	25	DN32	G1 $\frac{1}{4}$	0.2 ... 2	RAI-10A
120	157	39			40			0.5 ... 4	RAI-10B
120	157	39			40			1.5 ... 6	RAI-10C
120	157	39			40			1.5 ... 10	RAI-10D
120	176	39			40			2.0 ... 20	RAI-10F



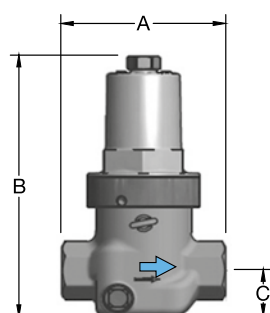
RAI-04...-10A



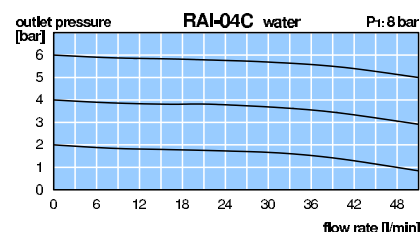
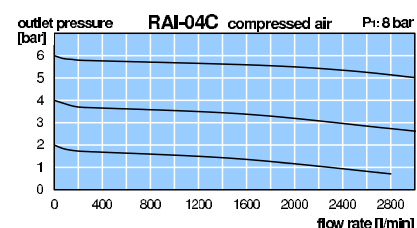
RAI-04...10B/C/D



RAI-04...-10D



RAI



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

*2 for compressed air the flow is 65 times greater

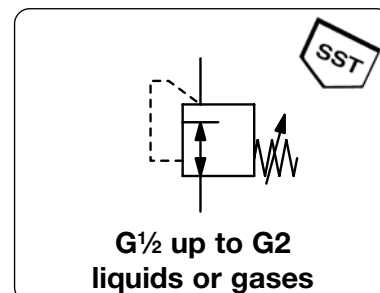
* Product group

PDF CAD
www.aircom.net



Order example:
RAI-04A

Description	Pressure regulator made of stainless steel throughout. Even when spindle is unscrewed the indicated minimum outlet pressure is existent. Inner parts are replaceable. With stainless-steel dirt-trap / strainer
Medium	aggressive liquids, compressed air or non-corrosive gases. Not suitable for steam!
Supply pressure	see chart, max. 40 bar
Minimum press. difference	$P_1 : P_2 = 1$ bar
Adjustment	with hexagon socket, with locknut
Relieving function	non-relieving
Gauge port	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied
Mounting position	any, preferably vertical
Temperature range	0 °C to 190 °C / 32 °F to 374 °F medium and ambient temperature
Material	Body, spring cage, inner valve: stainless steel 1.4408 / V4A / 316 L Elastomer and seals: FKM/FPM



Dimensions			K _v -value	Flow rate	Supply pressure	Nominal size	Connection thread	Pressure-range	Order number	
A	B	C	(m³/h)*1	l/min	max. bar	DN	G	bar		
mm	mm	mm								C*

Regulator with female thread						for liquids, supply pressure max. 25/40 bar non-relieving, 1.4408 / V4A / 316L, FKM		RAI		
150	306	37	9,0	150	25	DN40	G1½	0.2 ... 2	RAI-12A	
150	256	37			40			0.5 ... 4	RAI-12B	
150	256	37			40			1.5 ... 6	RAI-12C	
150	256	37			40			1.5 ... 10	RAI-12D	
150	284	37			40			2.0 ... 20	RAI-12F	
160	306	37	13	216	25	DN50	G2	0.2 ... 2	RAI-16A	
160	256	37			40			0.5 ... 4	RAI-16B	
160	256	37			40			1.5 ... 6	RAI-16C	
160	256	37			40			1.5 ... 10	RAI-16D	
160	284	37			40			2.0 ... 20	RAI-16F	



RAI-12/-16A



RAI-12/-16B/C/D

Special options, add the appropriate letter

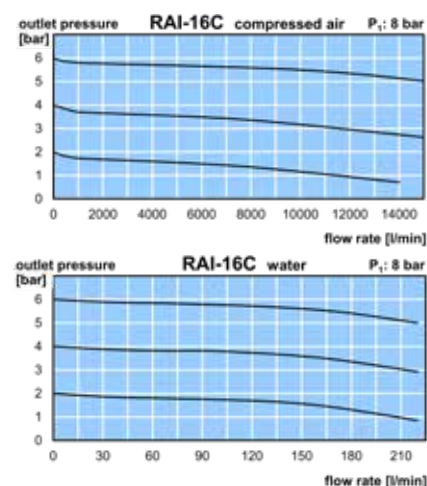
EPDM Elastomer	membrane and seals, FDA approval	RAF- . . .TD
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Accessories, enclosed

SST pressure gauge	Ø 50 mm, 0...*3 bar, G $\frac{1}{4}$, for DN 15	MS5002-..*3
	Ø 63 mm, 0...*3 bar, G $\frac{1}{4}$, and all the rest of them	MS6302-..*3



RAI-12/-16F



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

*2 for compressed air the flow is 65 times greater

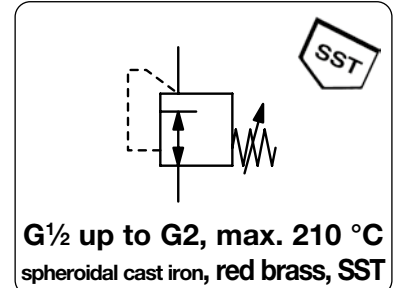
* Product group



PRESSURE REGULATOR FOR STEAM UP TO 210 °C / 410 °F

RU

Description	Directly acting pressure regulator with stainless steel inner parts suitable for steam and compressed air.		
Media	compressed air, non-corrosive gases or steam with dryness of at least 98%		
Supply pressure	RUG: max. 19 bar at 210 °C / 410 °F, max. 17 bar for red brass version RUH: max. 10 bar at 184 °C / 363 °F		
Air consumption	without constant bleed		
Adjustment	by plastic knob	Relieving function	non-relieving
Gauge port	not available	Mounting position	any
Temperature range	RUG: max. 210 °C / 410 °F,		RUH: max. 184 °C / 363 °F
Material	Body:	spheroidal cast iron EN-GJS-400-18-LT (GGG40.3), optionally red brass Rg5 or stainless steel 1.4404 at RUG	
	Spring cage:	epoxy-coated aluminium, nickel-plated aluminium at RUG	
	Inner valve / bellows:	stainless steel 1.4404 and 1.4571	
	O-ring / seal:	EPDM and PTFE	



Dimensions			Nominal size	K _v -value	P ₁ max.	Connection thread	Pressure range	Order number
A	B	C	DN	(m³/h)	bar	G	bar	
mm	mm	mm						

Pressure regulator for steam

supply pressure max. 10 / 19 bar, non-relieving, spheroidal cast iron

RU

83	190	60	15	1.5	19	G1/2	0.14 ... 1.7 1.4 ... 4.0 3.5 ... 8.6	RUG-04A RUG-04B RUG-04C
96	190	60	20	2.5	19	G3/4	0.14 ... 1.7 1.4 ... 4.0 3.5 ... 8.6	RUG-06A RUG-06B RUG-06C
108	190	60	25	3.0	19	G1	0.14 ... 1.7 1.4 ... 4.0 3.5 ... 8.6	RUG-08A RUG-08B RUG-08C
134	220	67	25	6.8	10	G1	0.14 ... 1.7 1.4 ... 4.0 3.5 ... 9.0	RUH-08A RUH-08B RUH-08C
134	220	67	40	11.5	10	G1 1/2	0.14 ... 1.7 1.4 ... 4.0 3.5 ... 9.0	RUH-12A RUH-12B RUH-12C
134	220	67	50	15.0	10	G2	0.14 ... 1.7 1.4 ... 4.0 3.5 ... 9.0	RUH-16A RUH-16B RUH-16C



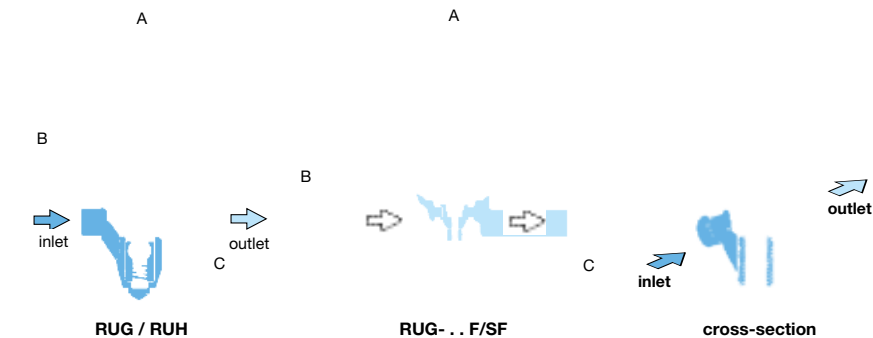
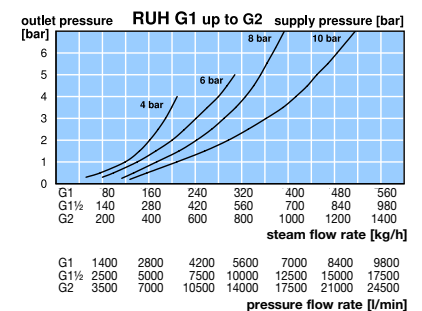
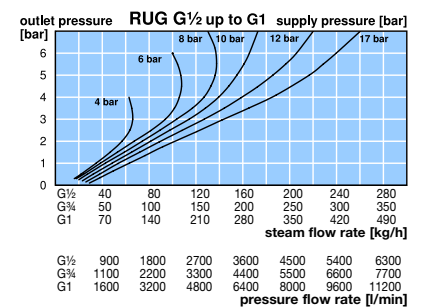
RUG-04A



RUG-04BSF
made of stainless steel, with flange

Special options, add the appropriate letter

stainless steel 1.4404	body with connection thread	for RUG	RUG-0...S
	body with flange	for RUG	RUG-0...SF
red brass Rg5	body of red brass Rg5, P ₁ max. 17 bar	for RUG	RUG-0...R
flange of spheroidal cast iron	GGG40.3	for RUG	RUG-0...F



Model	A	B	C
RUG-04R/S	83	192	62
RUG-06R/S	96	192	62
RUG-08R/S	108	192	62

Model	A	B	C
RUG-04F/SF	150	182/192	55/62
RUG-06F/SF	150	192/192	55/62
RUG-08F/SF	160	192/192	55/62

* Product group

PDF CAD
www.aircom.net



Order example:
RUG-04A