

LOW PRESSURE REGULATORS

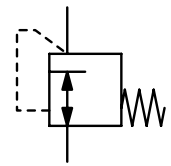
	DESCRIPTION	SUPPLY PRESSURE	PRESSURE RANGE		CONNECTION	SERIES	PAGE
		max. bar	mbar				
STANDARD	also for propane and other gases	16	factory-set	50	G¼ u. G½	R01	3.02
	miniature, manually adjustable	16	25 ...	50 / 1400	G¼ u. G¾	R01-5/-6	3.03
	miniature	10	20 ...	150	G½	R01-4	3.03
	for many different gases	0.4	2 ...	16 / 160	G½ - G2	RGDJ	3.04
	for many different gases	4	5 ...	12 / 350	G½ - G1½	RGB4	3.05
	for many different gases	10	5 ...	45 / 1500	G½ - G2	R160/R161	3.06
	for many different gases	20	10 ...	18 / 4400	G1 - flange DN50	RZ	3.08
PRECISE	with relieving function	10	2 ...	45 / 350	G¾ - G¾	R4100	3.09
	relatively small	10	2 ...	35 / 800	G¼ - G½	R110	5.11
MADE OF STAINLESS STEEL	for many different gases	7	5 ...	45 / 3000	G½ - G2	R3100	15.13
VOLUM. BOOSTER	for many different gases	20	10 ...	350 / 1000	G1 - G2	RZ-J	6.10
	for many different gases	0.4	2 ...	55 / 100	G½ - G2	RGDJ-J	6.11
	for many different gases	4	5 ...	350	G½ - G1½	RGB4-J	6.11
BACK PRESSURE REGUL.	precise	10	2 ...	35 / 800	G¼ - G½	DB110	8.08
	precise	6	5 ...	45 / 3000	G½ - G2	DBC	8.11



LOW PRESSURE REGULATOR WITH FACTORY-SET OUTLET PRESSURE OF 50 MBAR

R01

Description	Low pressure regulator with factory-set outlet pressure of 50 mbar and an integrated safety valve, (except for regulator R01-415), which opens at approx. 130-150 mbar. Therefore not for gas pressure regulation in closed rooms.		
Media	compressed air, propane, butane or other non-corrosive gases		
Supply pressure	max. 16 bar at R01-415, R01-405, max. 2.5 bar bei R01-319/-604/-641		
Accuracy	at max. supply pressure and flow: < 15 % FS pressure deviation at max. supply pressure without flow: < 25 % FS pressure deviation at min. supply pressure and flow: < 5 % FS pressure deviation		
Air consumption	without constant bleed		
Relieving function	non-relieving		
Gauge port	G $\frac{1}{4}$ on one side of the body, except on R01-319/-415		
Mounting position	any		
Temperature range	-20 °C to 60 °C / -4 °F to 140 °F		
Material	Body: zinc die-cast, chrome-plated	Inner valve: brass	
	Elastomer: NBR/Buna-N		



G $\frac{1}{4}$ and G $\frac{1}{2}$
50 mbar

Dimensions			Flow rate		Supply pressure	Connection thread	Outlet pressure	Order number	
A	B	ØT	m³/h	l/min	max. bar	G	mbar		
mm	mm	mm							

Low pressure regulator					supply pressure max. 2.5 / 16 bar, non-relieving, 50 mbar factory-set			R01
100	44	86	1.2	20	16	G $\frac{1}{4}$	50	R01-415
138	92	118	3.0	50	2.5	G $\frac{1}{2}$	50	R01-604
138	117	118	9.6	160	2.5	G $\frac{1}{2}$	50	R01-641
160	133	145	19.8	330	2.5	G $\frac{1}{2}$	50	R01-319
138	92	118	3.0	50	16	G $\frac{1}{2}$	50	R01-405



R01-415



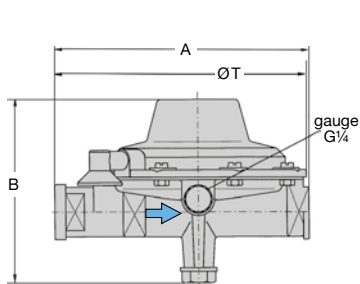
R01-319

Accessories, enclosed

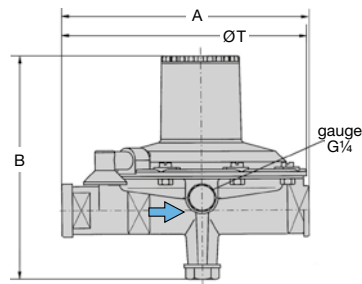
pressure gauge	Ø 63 mm, 0...60 mbar, G $\frac{1}{4}$	not for R01-319/-415	MA6302-B6
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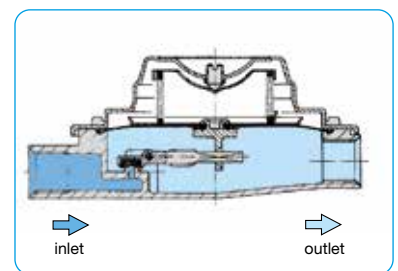
R01-604



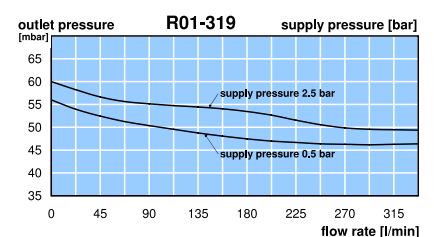
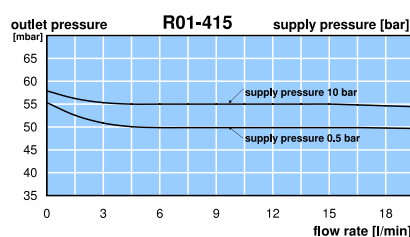
R01-405 / -604



R01-641



cross-section



Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

* Product group



Order example:
R01-415

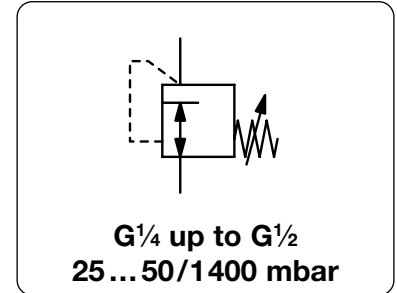
Description	The low pressure regulator is manually adjustable. Version R01-4 has an integrated safety valve which opens at a pressure of 1.5 times of the max. outlet pressure, thus not suitable for gas pressure regulation in closed rooms.		
Media	compressed air, propane, butane or other non-corrosive gases		
Supply pressure	max. 16 bar at R01-5/-6, max. 10 bar at R01-4		
Accuracy	at min. supply pressure and flow: < 5% FS pressure deviation at max. supply pressure and flow: < 15% FS pressure deviation at max. supply pressure without flow: < 25% FS pressure deviation		
Air consumption	without constant bleed	Mounting position any	
Adjustment	R01-5/-6: R01-4	by adjusting knob a. dial enabling eleven settings for different outlet pressures by T-handle with locknut	
Relieving function	non-relieving		
Gauge port	G½ on one side of the body, except on R01-5/-6		
Temperature range	-20 °C to 60 °C / -4 °F to 140 °F		
Material	Body: zinc die-cast	Elastomer: NBR/Buna-N	Inner valve: brass

Dimensions			Flow rate	Supply pressure	Connection thread	Pressure range	Order number	D*
A	B	ØT						
mm	mm	mm	l/min	empfohlen	G	mbar		

Low pressure regulator			supply pressure max. 16 bar, non-relieving, without gauge port			R01-5/-6		
100	68	68	13	2.5	G $\frac{1}{4}$	25 ... 50	R01-524-00	
100	68	68	7	6.0	G $\frac{1}{4}$	20 ... 200	R01-524-05	
100	68	68	26	6.0	G $\frac{1}{4}$	70 ... 200	R01-522-01	
100	68	68	50	2.5	G $\frac{1}{4}$	30 ... 200	R01-524-06	
103	50	83	40	6.0	G $\frac{3}{8}$ *1	350 ... 1400	R01-626	
103	50	83	140	6.0	G $\frac{3}{8}$ *1	350 ... 1400	R01-627	

Low pressure regulator			supply pressure max. 10 bar, non-relieving			R01-4		
138	127	117	140	2.5	G $\frac{1}{2}$	20 ... 150	R01-411-01	

Accessories, enclosed								
pressure gauge	Ø 63 mm, 0 ... 250 mbar, G $\frac{1}{4}$, capsule type		for R01-411-01	MA6302-C3				



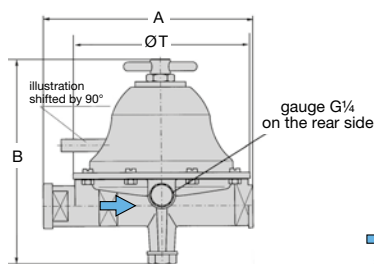
R01-524-00



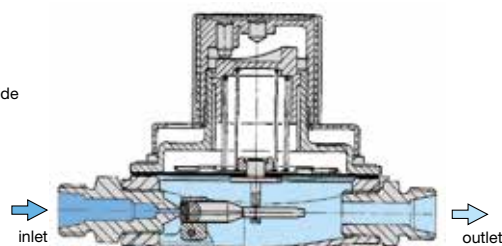
R01-627



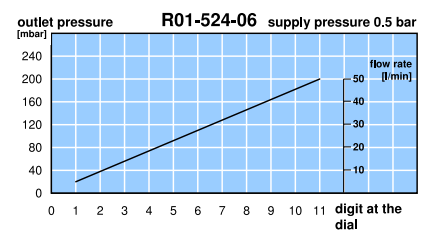
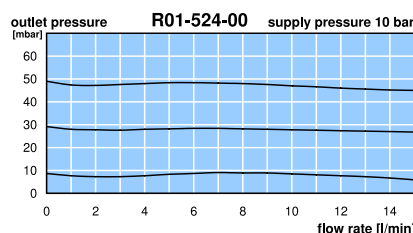
R01-411-01



R01-411



cross-section



*1 G $\frac{1}{4}$ eingangsseitig *2 G $\frac{1}{2}$ eingangsseitig

* Product group

Gauges: see chapter for measuring devices

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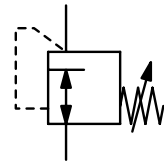


Order example:
R01-524-00

LOW PRESSURE REGULATOR, SUPPLY PRESSURE MAX. 400 MBAR

RGDJ

Description	Highly sensitive low pressure regulator with inlet pressure compensation for high precision regulation. Zero shut-off prevents outlet pressure from increasing.		
Media	compressed air or non-corrosive gases, dryly biogas H ₂ S < 200 ppm		
Supply pressure	max. 400 mbar		
Air consumption	without constant bleed		
Adjustment	manual by turning the spindle under the cover of the spring cage		
Relieving function	non-relieving		
Accuracy	at maximum volume flow: < 20% FS pressure deviation		
Gauge port	none as standard, optionally gauge port G $\frac{1}{4}$ on one side from size R $\frac{3}{4}$ " on		
Mounting position	any, preferably bonnet upwards		
Temperature range	-20 °C to 70 °C / -4 °F to 158 °F		
Material	Body: aluminium Elastomer: NBR/Buna-N	Inner valve: aluminium and plastic	



R $\frac{1}{2}$ " up to R2"
2... 16/160 mbar

Dimensions			Nominal size	K _v -value	Flow rate		Connection thread	Pressure range	Order number
A	B	C	DN	(m ³ /h)	m ³ /h*1	l/min*1	R	mbar	
mm	mm	mm							



Low pressure regulator

supply pressure max. 400 mbar, non-relieving

RGDJ

100	120	30	15	0.66	12	200	1/2"	2... 16	RGDJ-04A
								10... 20	RGDJ-04B
								16... 28	RGDJ-04C
								22... 40	RGDJ-04D
								40... 55	RGDJ-04E
125	166	34	20	1.49	27	450	3/4"	5... 15	RGDJ-06A
								12... 25	RGDJ-06B
								22... 35	RGDJ-06C
								30... 50	RGDJ-06D
								45... 65	RGDJ-06E
								60... 80	RGDJ-06G
								75... 100	RGDJ-06I
								100... 160	RGDJ-06L
125	166	34	25	2.6	51	850	1"	pressure range see R3/4	RGDJ-08.
155	194	45	40	4.9	90	1500	1 1/2"	5... 15	RGDJ-12A
								12... 25	RGDJ-12B
								22... 35	RGDJ-12C
								30... 50	RGDJ-12D
								45... 65	RGDJ-12E
								60... 80	RGDJ-12G
								75... 100	RGDJ-12I
								100... 160	RGDJ-12L
200	219	52	50	6.6	120	2000	2"	5... 15	RGDJ-16A
								12... 25	RGDJ-16B
								22... 35	RGDJ-16C
								30... 50	RGDJ-16D
								45... 65	RGDJ-16E
								60... 80	RGDJ-16G
								75... 100	RGDJ-16I



RGDJ-04



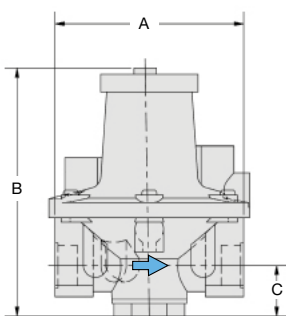
RGDJ-12

Special options, add the appropriate letter

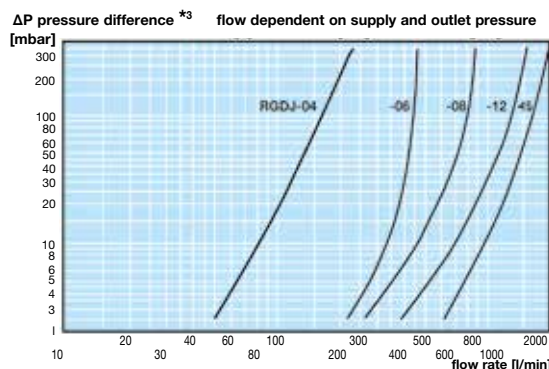
Connection thread G $\frac{1}{4}$ for pressure gauge not for R $\frac{1}{2}$ " RGDJ-... M

Accessories, enclosed

pressure gauge Ø 63 mm, 0...*2 mbar, G $\frac{1}{4}$ from R $\frac{3}{4}$ " MA6302-..*2

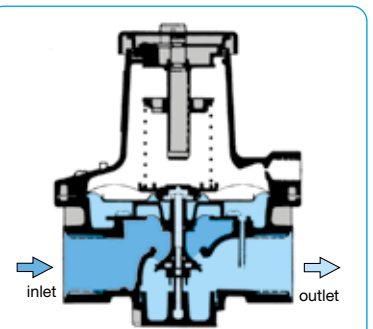


RGDJ



*1 at 350 mbar supply pressure and 100 mbar outlet pressure
*2 B6 = 0...60 mbar, C2 = 0...160 mbar

*3 $\Delta p = P_1 - P_2$, difference between supply and outlet pressure



cross-section

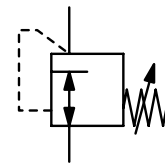
Gauges: see chapter for measuring devices

PDF CAD
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Order example:
RGDJ-04A

Description	Highly sensitive low pressure regulator with inlet pressure compensation for high precision regulation. Zero shut-off prevents outlet pressure from increasing.	
Media	compressed air or non-corrosive gases	
Supply pressure	max. 4 bar	
Air consumption	without constant bleed	
Adjustment	manual by turning the spindle under the cover of the spring cage	
Relieving function	non-relieving	
Accuracy	max. < 20% pressure drop at full flow	
Gauge port	G¼ on one site at R1½"	optionally G¼ at R½" and R1"
Mounting position	any, preferably bonnet upwards	
Temperature range	-15 °C to 60 °C / 5 °F to 140 °F	
Material	Body: aluminium Elastomer: NBR/Buna-N	Inner valve: aluminium and plastic



R1½" up to R1½"
5 ... 12/350 mbar

Dimensions			Nominal size	Kv-value	Flow rate		Connection thread	Pressure range	Order number
A	B	C	DN	(m³/h)	m³/h*1	l/min*1	R	mbar	
mm	mm	mm							

Low pressure regulator RGB4

supply pressure max. 4 bar, non-relieving									
148	174	24	15	0.62	42	700	½"	5 ... 12	RGB4-04A
								10 ... 30	RGB4-04C
								25 ... 45	RGB4-04D
								40 ... 60	RGB4-04E
								55 ... 75	RGB4-04F
								70 ... 90	RGB4-04G
								85 ... 105	RGB4-04H
								100 ... 160	RGB4-04I
								150 ... 230	RGB4-04K
								220 ... 350	RGB4-04L
192	230	33	25	2.5	168	2800	1"	5 ... 12	RGB4-08A
								10 ... 30	RGB4-08C
								25 ... 45	RGB4-08D
								40 ... 60	RGB4-08E
								55 ... 75	RGB4-08F
								70 ... 90	RGB4-08G
								85 ... 105	RGB4-08H
								100 ... 160	RGB4-08I
								150 ... 230	RGB4-08K
								220 ... 350	RGB4-08L
150	265	55	40	5	336	5600	1½"	5 ... 12	RGB4-12A
								10 ... 30	RGB4-12C
								25 ... 45	RGB4-12D
								40 ... 60	RGB4-12E
								55 ... 75	RGB4-12F
								70 ... 90	RGB4-12G
								85 ... 105	RGB4-12H
								100 ... 160	RGB4-12I
								150 ... 230	RGB4-12K
								220 ... 350	RGB4-12L



RGB4-04



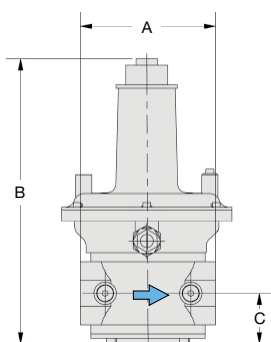
RGB4-08

Special options, add the appropriate letter

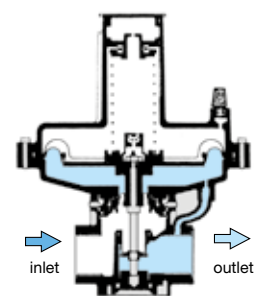
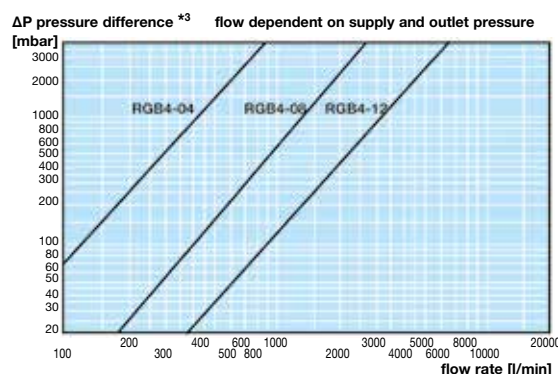
connection thread G¼ for pressure gauge for R½" and R1" RGB4-...M

Accessories, enclosed

pressure gauge Ø 63 mm, 0...*2 mbar, G¼ MA6302-..*2



RGB4



cross-section

*1 at 4 bar supply pressure and 100 mbar outlet pressure

*2 B6 = 0...60 mbar, C2 = 0...160 mbar, C3 = 0...250 mbar, C4 = 0...400 mbar

*3 ΔP = P₁ - P₂ difference between supply and outlet pressure

Gauges: see chapter for measuring devices

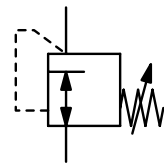
PDF CAD
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* Product group



Order example:
RGB4-04A

Description	Low pressure regulator with large diaphragm for good accuracy and high sensitivity.	
Media	compressed air or non-corrosive gases	
Supply pressure	max. 15 bar, min. 1 bar	
Air consumption	without constant bleed	
Adjustment	with handwheel by R161	with adjusting screw on R160-06 to -1A (A, B, C), -12 and -16
	with T-handle by R160-06 to 1A (D, E)	by hexagon head screw with locknut
Relieving function	non-relieving	
Gauge port	G $\frac{1}{4}$ on both sides of the body, screw plug supplied	
Temperature range	-20 °C to 80 °C / -4 °F to 176 °F	
Material	Body: aluminium coated O-rings: FKM by G $\frac{1}{2}$ up to G1 $\frac{1}{2}$ (-1A), all other NBR/Buna-N, optionally FKM or EPDM Diaphragm: NBR/Buna-N with PTFE coating Inner valve: brass / aluminium Spring cage: stainless steel	
Mounting position	any	



G $\frac{1}{2}$ up to G2
5 ... 45/1500 mbar

Dimensions			K _v -value (m ³ /h)	Flow rate		Connection thread G	Pressure range mbar	Order number
A	B	C		m ³ /h*1	l/min*1			
mm	mm	mm						



Low pressure regulator

supply pressure max. 15 bar, non-relieving,
without constant bleed

R160/R161

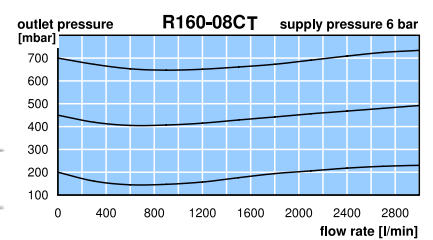
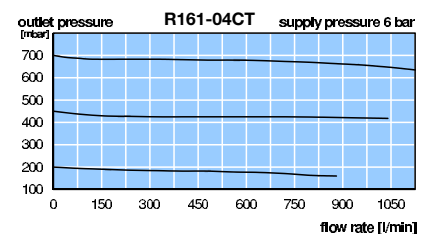
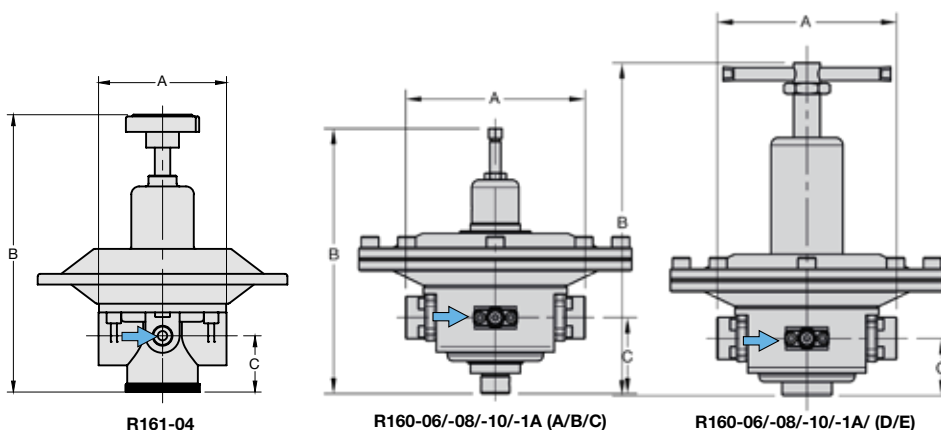
82	191	40	1.4	60	1000	G $\frac{1}{2}$	5 ... 45	R161-04AT
							10 ... 400	R161-04BT
							20 ... 1000	R161-04CT
							50 ... 1500	R161-04DT
154	233	69	1.4	84	1400	G $\frac{3}{4}$	5 ... 45	R160-06AT
							10 ... 120	R160-06BT
							10 ... 400	R160-06CT
154	292	53	8.4	576	9600		15 ... 700	R160-06DT
							200 ... 1200	R160-06ET
154	233	69	1.4	84	1400	G1	5 ... 45	R160-08AT
							10 ... 120	R160-08BT
							10 ... 400	R160-08CT
154	292	53	8.4	576	9600		15 ... 700	R160-08DT
							200 ... 1200	R160-08ET
265	233	69	1.4	84	1400	G1 $\frac{1}{4}$	5 ... 45	R160-10AT
							10 ... 120	R160-10BT
							10 ... 400	R160-10CT
265	292	53	8.4	576	9600		15 ... 700	R160-10DT
							200 ... 1200	R160-10ET
265	233	69	1.4	84	1400	G1 $\frac{1}{2}$	5 ... 45	R160-1AAT
							10 ... 120	R160-1ABT
							10 ... 400	R160-1ACT
265	292	53	8.4	576	9600		15 ... 700	R160-1ADT
							200 ... 1200	R160-1AET



R161-04



R160-06/-08/-10/-1A (A/B/C)



*1 at 6 bar supply pressure and max. outlet pressure

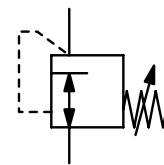
* Product group

PDF CAD
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Order example:
R161-04AT

Description	Low pressure regulator with large diaphragm for good accuracy and high sensitivity.	
Media	compressed air or non-corrosive gases	
Supply pressure	max. 15 bar, min. 1 bar	
Air consumption	without constant bleed	
Adjustment	with handwheel by R161	with adjusting screw on R160-06 to -1A (A, B, C), -12 and -16
	with T-handle by R160-06 to 1A (D, E)	by hexagon head screw with locknut
Relieving function	non-relieving	
Gauge port	G $\frac{1}{4}$ on both sides of the body, screw plug supplied	Mounting position any
Temperature range	-20 °C to 80 °C / -4 °F to 176 °F	
Material	Body: aluminium coated O-rings: FKM by G $\frac{1}{2}$ up to G $\frac{1}{2}$ (-1A), all other NBR/Buna-N, optionally FKM or EPDM Diaphragm: NBR/Buna-N with PTFE coating Inner valve: brass / aluminium Spring cage: stainless steel	



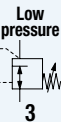
G $\frac{1}{2}$ up to G2
5 ... 45/1500 mbar

Dimensions			K _v -value	Flow rate		Connection thread	Pressure range	Order number
A	B	C		m ³ /h	l/min ^{*1}			
mm	mm	mm	(m ³ /h)	m ³ /h ^{*1}	l/min ^{*1}	G	mbar	

Low pressure regulator							supply pressure max. 7 / 10 bar, non-relieving, without constant bleed		R160
192	468	128	6.2	420	7000	G $\frac{1}{2}$	20 ...	50	R160-12A
							50 ...	150	R160-12B
							150 ...	300	R160-12C
			25	1680	28000		100 ...	1000	R160-12D
192	468	128	6.2	420	7000	G2	20 ...	50	R160-16A
							50 ...	150	R160-16B
							150 ...	300	R160-16C
			25	1680	28000		100 ...	1000	R160-16D



R160-12/-16

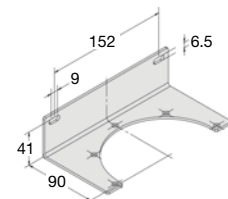


Special options, add the appropriate letter

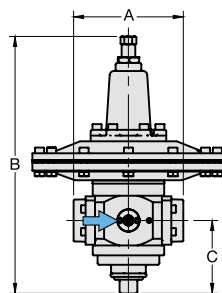
NPT	connection thread, A=141 mm	for G $\frac{1}{2}$	R16...N
NPT	connection thread	for G $\frac{3}{4}$ to G2	R16...N
SST inner parts	for ammonia NH ₃		R16...02
FKM -O-ring	PTFE diaphragm	for G $\frac{1}{2}$ (-12) to G2	R16...T
EPDM-O-ring			R16...TE
EPDM-O-ring	FDA-approval		R16...TD
carbon dioxide CO ₂			R16...03
argon	Ar		R16...05
nitrogen	N ₂		R16...07
helium	He		R16...09
hydrogen	H ₂		R16...11
methane	CH ₄		R16...13
natural gas ^{*4}			R16...14
oxygen	O ₂	for G $\frac{1}{2}$ to G $\frac{1}{2}$ (1A)	R16...15
propane	C ₃ H ₈		R16...16
nitrous oxide	N ₂ O		R16...17
flange connection	see chapter for stainless steel devices		R16...F.

Accessories, enclosed

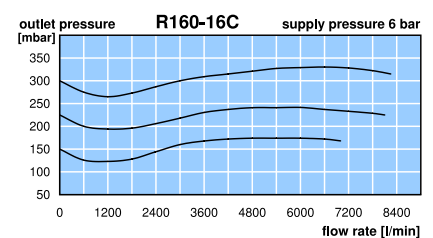
pressure gauge	Ø 63 mm, 0... ^{*2} mbar, G $\frac{1}{4}$, capsule type, connection parts required	MA6302-...^{*2}
	Ø 63 mm, 0... ^{*2} bar, G $\frac{1}{4}$, Bourdon tube, connection parts required	MA6302-...^{*2}
connection parts	press. gauge, brass, not for NH ₃ , extension G $\frac{1}{4}$ -G $\frac{1}{4}$ i for G $\frac{1}{2}$	AM-01
connection parts	press. gauge, stainl. steel, for NH ₃ , extension G $\frac{1}{4}$ -G $\frac{1}{4}$ i for G $\frac{1}{2}$	AM-03S
mounting bracket	made of stainless steel	for G $\frac{1}{2}$ BW00-26S



BW00-26S



R160-12/-16



^{*1} at 6 bar supply pressure and max. outlet pressure

^{*2} B6 = 0...60 mbar, C2 = 0...160 mbar, C3 = 0...250 mbar, C4 = 0...400 mbar, 01 = 0...1 bar, 01.6 = 0...1,6 bar

^{*4} without DVGW approval

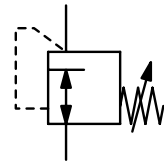
* Product group



LOW PRESSURE REGULATOR, SUPPLY PRESSURE MAX. 20 BAR

RZ

Description	Highly sensitive diaphragm pressure regulator.		
Media	compressed air or non-corrosive gases		
Supply pressure	max. 20 bar depending on the accuracy range max. 10 bar at pressure range < 120 mbar AR: the smaller P ₁ the higher the accuracy, min. 1 bar		
Accuracy	at maximum volume flow without constant bleed < e.g. 10% FS pressure deviation		
Air consumption	manual by turning the spindle under the cover of the spring cage		
Adjustment	non-relieving, optionally relieving		
Relieving function	Can be adjusted independently of outlet pressure. On non-relieving designs: blocked exhaust valve.		
Relief capacity	not available		
Gauge port	any		
Temperature range	-20 °C to 60 °C / -4 °F to 140 °F		
Material	Body: SG cast iron GGG50, GGG40 at DN50	Elastomer: NBR/Buna-N, optionally FKM	
	Spring cage: aluminium	Inner valve: brass and stainless steel	



G1 up to flange DN50
15...20/4400 mbar

Dimensions	Accuracy	Nominal size	Flow rate	P ₁ max.	Connection thread	Pressure range	Order number
A B C	%	DN	l/min*1	bar*2	G	mbar	
mm mm mm							

Low press. regulator w. positioning spring

P₁: max. 20 bar, non-relieving

RZ

100	245	30	10	17	1800	10	G1	15 ... 20	RZ1-08A
			10		1800	10		20 ... 30	RZ1-08B
			10		1800	10		30 ... 40	RZ1-08C
			10		1800	10		40 ... 70	RZ1-08D
			10		1800	10		70 ... 110	RZ1-08E
			10		3300	16/20		110 ... 180	RZ2-08F
			10		3300	16/20		180 ... 300	RZ2-08G
			5		4100	16/20		300 ... 700	RZ3-08H
100	245	30	10	17	2700	10	G1½*3	15 ... 20	RZ1-12A
			10		2700	10		20 ... 30	RZ1-12B
			10		2700	10		30 ... 40	RZ1-12C
			10		2700	10		40 ... 70	RZ1-12D
			10		2700	10		70 ... 110	RZ1-12E
			10		5000	16/20		110 ... 180	RZ2-12F
			10		5000	16/20		180 ... 300	RZ2-12G
			5		5000	16/20		300 ... 700	RZ3-12H
254	460	80	5	22	15000	10	flange	10 ... 18	RZ1-16AF
			5		15000	10	DN50	15 ... 30	RZ1-16BF
			5		15000	10		25 ... 49	RZ1-16CF
			5		25000	10		40 ... 75	RZ1-16DF
			5		25000	10		62 ... 120	RZ1-16EF
			5		25000	10		100 ... 170	RZ1-16FF
			5		25000	20		145 ... 270	RZ1-16GF
			5		25000	20		230 ... 350	RZ1-16HF
			5	34	28000	20		280 ... 720	RZ2-16IF
			5		28000	20		840 ... 1250	RZ2-16KF



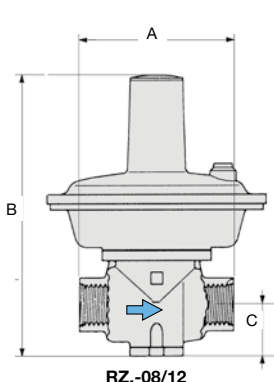
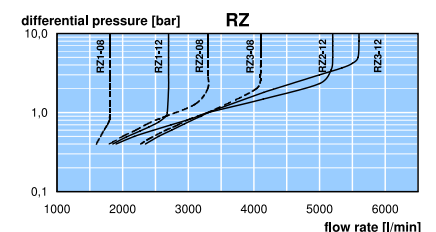
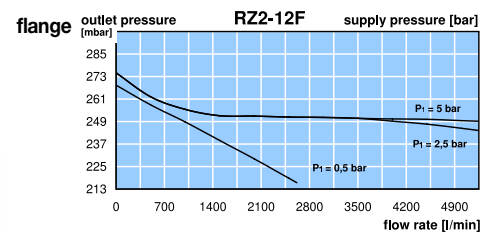
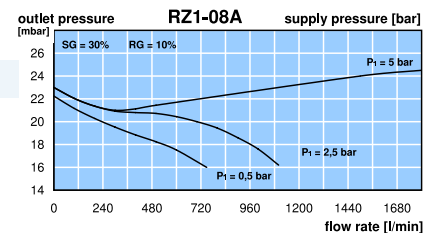
RZ2-08F



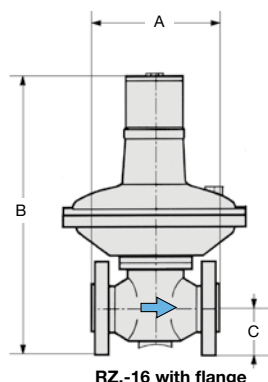
RZ1-16AF

Special options, add the appropriate letter

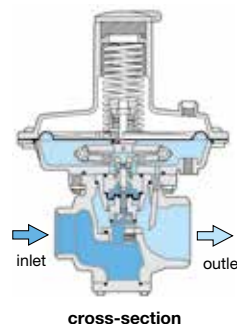
further ranges	RZ3-08 / -12	700 ... 1100	I	1100 ... 2000	J	2000 ... 3000	RZ3-... K
further ranges	RZ2-16	1050 ... 2300	L			2000 ... 4400	RZ3-16M
relieving		with relieving function, adjustable					RZ-... R
FKM elastomer							RZ-... V
nitrogen	N ₂ : 07	carbon dioxide	CO ₂ : 03	argon	Ar: RZ-... 05		
helium	He: 09	hydrogen	H ₂ : 11	methane	CH ₄ : RZ-... 13		
oxygen	O ₂ : 15 (max. 16 bar)	propane	C ₃ H ₈ : 16	nitrous oxide	N ₂ O: RZ-... 17		
connection	see chapter for stainless steel devices / flanges			RZ-... F.			



RZ-08/12



RZ-16 with flange



cross-section

*1 at 4 bar supply pressure and max. outlet pressure

*2 see description above

*3 G1 thread at inlet

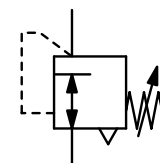
* Product group

PDF CAD
www.aircom.net



Order example:
RZ1-08A

Description	High precision diaphragm pressure regulator with high flow, without zero shut-off (counterpressure is required).
Media	compressed air or non-corrosive gases
Supply pressure	max. 10 bar
Accuracy	sensitivity < 2 mbar
Air consumption	without constant bleed
Adjustment	by handwheel with locknut
Relieving function	relieving
Gauge port	G $\frac{1}{4}$ on both sides of the body, screw plug supplied
Mounting position	any
Temperature range	0 °C to 90 °C / 32 °F to 194°F, for appropriately conditioned compressed air down to -40 °C / -40 °F
Material	Body: aluminium die-cast Elastomer: NBR/Buna-N Inner valve: stainless steel, brass, aluminium and steel



G $\frac{3}{8}$ up to G $\frac{3}{4}$
2...45/350 mbar

Dimensions			K _v -value	Flow rate		Connection thread	Pressure range	Order number
A	B	C		m ³ /h*1	l/min*1			
mm	mm	mm	(m ³ /h)			G	mbar	

Precision low pressure regulator

							P1: max. 10 bar, relieving, without constant bleed	R4100
87	219	40	0.24	30	500	G $\frac{3}{8}$	2... 45	R4100-03A
								R4100-03B
								R4100-03C
								R4100-03D
87	219	40	0.27	36	600	G $\frac{1}{2}$	2... 45	R4100-04A
								R4100-04B
								R4100-04C
								R4100-04D
87	219	40	0.30	42	700	G $\frac{3}{4}$	2... 45	R4100-06A
								R4100-06B
								R4100-06C
								R4100-06D

Special options, add the appropriate letter

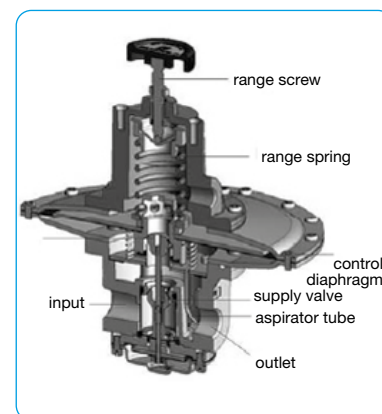
NPT	connection thread	R4100-...N
tapped exhaust	connection thread G $\frac{1}{4}$	R4100-...X12
tamper-proof cap	made of aluminium, adjustment by screwdriver, height 295 mm	R4100-...T
FKM elastomer		R4100-...V
flange connection	see chapter for stainless steel devices / flanges	R4100-...F.

Accessories, enclosed

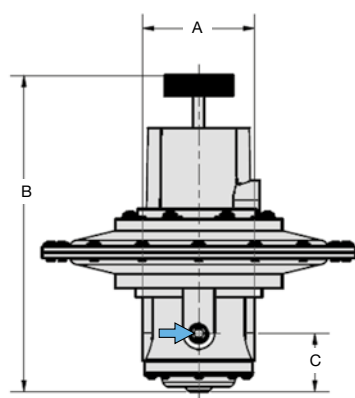
pressure gauge	Ø 63 mm, 0...*2 mbar, G $\frac{1}{4}$	MA6302-...*2
mounting bracket	made of steel	BW00-47



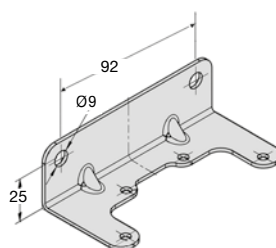
R4100



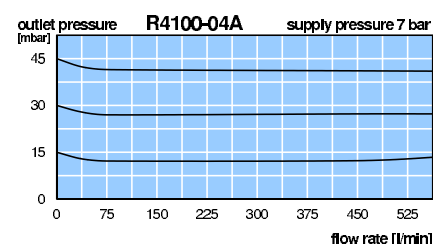
cross-section



R4100



BW00-47



*1 at 10 bar supply pressure and max. outlet pressure *2 B6 = 0...60 mbar, C2 = 0...160 mbar, C3 = 0...250 mbar, C4 = 0...400 mbar

* Product group

