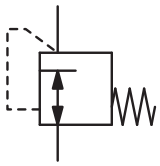
	Description	Supply pressure max. bar	Pressure range mbar	Connection thread	Device	Page
standard	also for propane and other gases	16	factory-set 50	G¼ - G½	R01	**3.02**
	miniature, manually adjustable	16	25 ... 50 / 1400	G¼ and G⅜	R01-5/-6	**3.03**
	miniature	10	20 ...1500 / 500	G½ and G¾	R01-2/-4	**3.03**
	for oil	10	preset 100 / 2500	G¼ and G⅜	RL13	**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	7	5 ... 45 / 3000	G½ - G2	R160	**3.06**
	for many different gases	20	10 ... 18 / 4400	G1 - flange DN50	RZ	**3.08**
precise	with relieving function	10	2 ... 45 / 350	G⅜ - G¾	R4100	**3.09**
	for pure gases 5.0	20	5 ... 50 / 1500	G½	RR	**3.10**
	Nullmatic	35	2 ... 120 / 31000	¼"NPT	R40	5.12
	relatively small	10	2 ... 35 / 800	G¼ - G½	R110	5.15
made of stainless steel	for many different gases	7	5 ... 45 / 3000	G½ - G2	R3100	15.12
volume booster	for many different gases	20	10 ... 350 / 1000	G1 - G2	RZ	6.10
	for many different gases	0.4	2 ... 55 / 100	G½ - G2	RGDJ-J	6.13
	for many different gases	4	5 ... 350	G½ - G1½	RGB4-J	6.13
back pressure regul.	precise	10	2 ... 35 / 800	G¼ - G½	DB110	8.08
	precise	6	5 ... 45 / 3000	G½ - G2	DBC	8.11

3

Low Pressure Regulators

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), thus 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, R01-310/-405/-406, max. 2.5 bar bei R01-319/-407/-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	G¼ 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



G¼ and G½
50 mbar

Low pressure regulator

supply pressure max. 2.5 / 16 bar, non-relieving, 50 mbar factory-set

Dimensions A mm	B mm	ØT mm	Flow rate m³/h	l/min	Supply pressure max. bar	Connection thread G	Outlet pressure mbar	Order number R01
100	44	86	1.2	20	16	G¼	50	**R01-415**
138	92	118	3.0	50	2.5	G½	50	**R01-604**
138	92	118	4.8	80	2.5	G½	50	**R01-407**
138	117	118	9.6	160	2.5	G½	50	**R01-641**
160	133	145	19.8	330	2.5	G½	50	**R01-319**
138	92	118	3.0	50	16	G½	50	**R01-405**
138	92	118	4.8	80	16	G½	50	**R01-406**

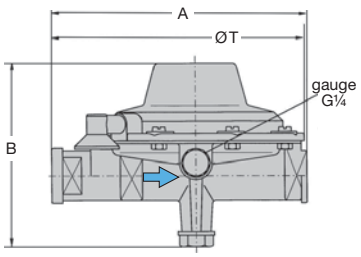
R01-415

R01-319

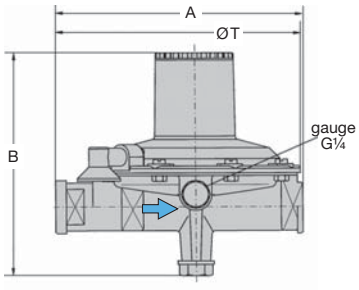
Accessory

pressure gauge	Ø 63 mm, 0...60 mbar, G¼	not for R01-319/-415	**MA6302-B6**

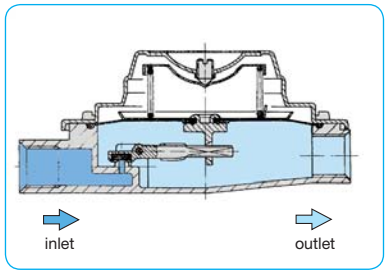
R01-406



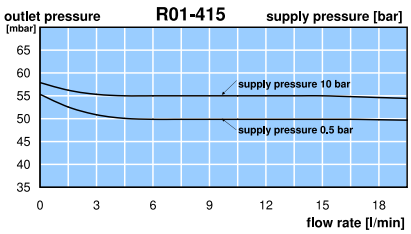
R01-405 / -406 / -604

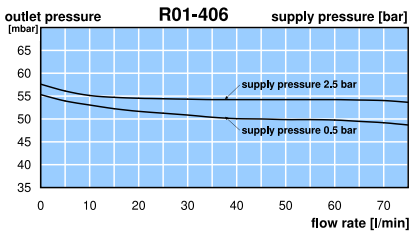


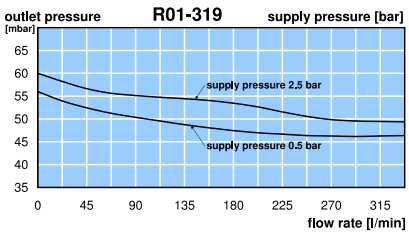
R01-641



cross-section







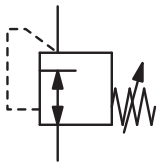
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
R01-415

Low Pressure Regulator from 20 mbar, also for Oil R01 / RL13

Description	The low pressure regulator is manually adjustable. Version R01-2/-3/-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 as well as oil
Supply pressure	max. 16 bar at R01-5/-6, max. 10 bar at R01-2/-3/-4 and RL13-5, max. 6 bar at RL13-0
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	RL13-0: no individual settings R01-5/-6: by adjusting knob a. dial enabling eleven settings for different outlet pressures R01-2/-3/-4 and RL13-5: by T-handle with locknut
Relieving function	non-relieving
Gauge port	G¼ on one side of the body, except on R01-5/-6 and RL13-0
Temperature range	-20 °C to 60 °C / -4 °F to 140 °F
Material	Body: zinc die-cast Elastomer: NBR/Buna-N Inner valve: brass



G¼ up to G¾
25…50/1400 mbar

Dimensions A mm	B mm	ØT mm	Flow rate l/min	Supply pressure empfohlen	Connection thread G	Pressure range mbar	Order number
Low pressure regulator			supply pressure max. 16 bar, non-relieving, without gauge port		**R01-5/-6**		
100	68	68	13	2.5	G¼	25… 50	**R01-524-00**
100	68	68	7	6.0	G¼	20… 200	**R01-524-05**
100	68	68	26	6.0	G¼	70… 200	**R01-522-01**
100	68	68	50	2.5	G¼	30… 200	**R01-524-06**
100	68	68	7	2.5	G¼	20…1400	**R01-524-08**
103	50	83	40	6.0	G⅜*1	350…1400	**R01-626**
103	50	83	140	6.0	G⅜*1	350…1400	**R01-627**
Low pressure regulator			supply pressure max. 10 bar, non-relieving		**R01-2/-3/-4**		
138	127	117	140	2.5	G½	20… 150	**R01-411-01**
138	127	117	140	2.5	G½	20… 500	**R01-211**
160	136	145	280	2.5	G¾*2	50… 500	**R01-321**
Oil pressure regulator			supply pressure max. 6/10 bar, non-relieving		**RL13**		
65	32	59	0.3	max. 6	G¼	fest 100	**RL13-001**
65	70	68	3.0	max. 10	G⅜*1	0…2500	**RL13-504**

R01-524-00

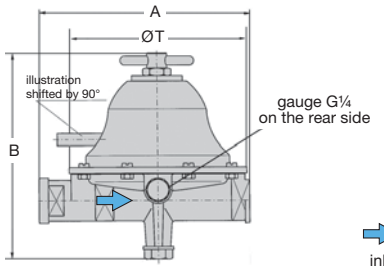
R01-627

R01-411-01
accessory: gauge

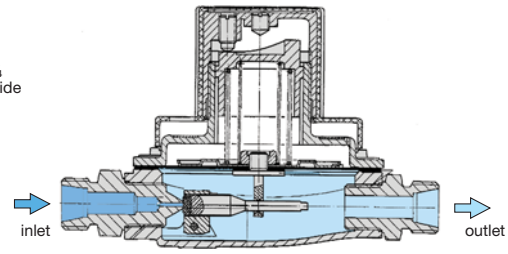
RL13-504
accessory: gauge

Accessory

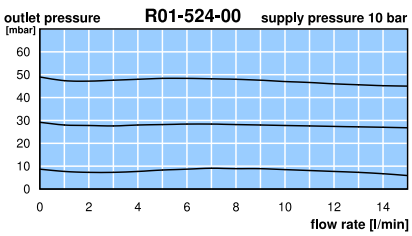
pressure gauge	Ø 50 mm, 0…4 bar,	G¼, Bourdon tube	for RL13-504	**MA5002-04**
	Ø 63 mm, 0…250 mbar,	G¼, capsule type	for R01-411-01	**MA6302-C3**
	Ø 63 mm, 0…0.6 bar,	G¼, Bourdon tube	for R01-2/-3	**MA6302-C6**

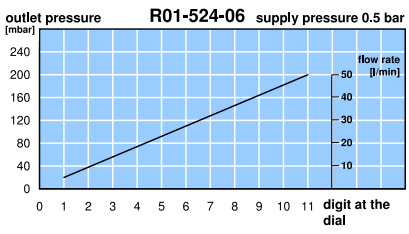


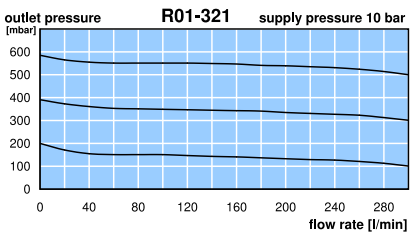
R01-211 / -321 / -411



cross-section







*1 G¼ eingangsseitig *2 G½ eingangsseitig

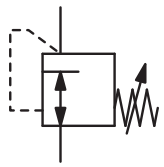
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

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_2S < 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 G¼ on one side from size R¾ on
Mounting position	any, preferably bonnet upwards
Temperature range	-20 °C to 70 °C / -4 °F to 158 °F
Material	Body: aluminium Inner valve: aluminium and plastic Elastomer: NBR/Buna-N



R½″ up to R2″
2…16/160 mbar

Dimensions A mm	B mm	C mm	Nominal size DN	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread R	Pressure range mbar	Order number
Low pressure									
Low pressure regulator					supply pressure max. 400 mbar, non-relieving				**RGDJ**
100	120	30	15	0.66	12	200	½″	2… 16	**RGDJ-04A**
								10… 20	**RGDJ-04B**
								16… 28	**RGDJ-04C**
								22… 40	**RGDJ-04D**
								40… 55	**RGDJ-04E**
134	166	34	20	1.49	27	450	¾″	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**
134	166	34	25	2.6	51	850	1″	pressure range see R3/4	**RGDJ-08.**
185	194	45	40	4.9	90	1 500	1½″	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**
234	219	52	50	6.6	120	2 000	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

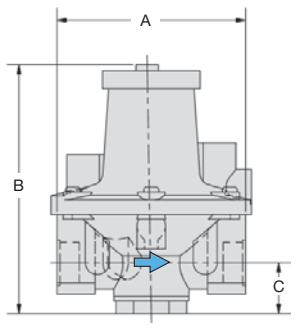
RGDJ-12

Special options, add the appropriate letter

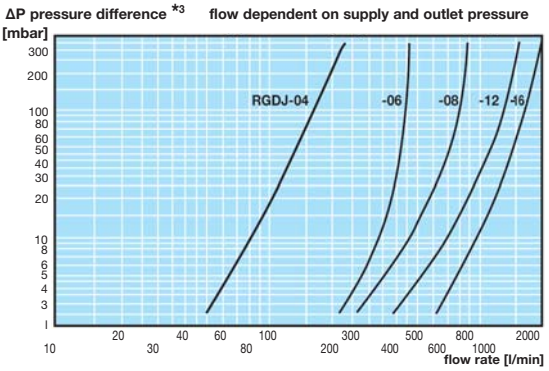
Connection thread G¼	for pressure gauge	not for R½″	RGDJ-. . . **M**

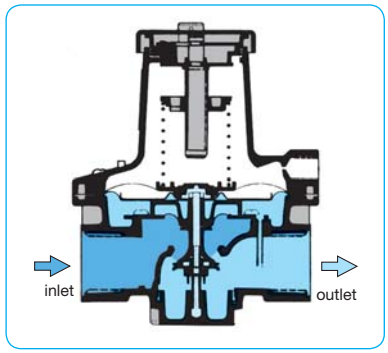
Accessory

pressure gauge	Ø 63 mm, 0…*2 mbar, G¼	from R¾″	**MA6302-..*2**



RGDJ





cross-section

*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

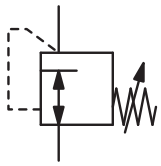
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example: RGDJ-04A

Low Pressure Regulator, Supply Pressure max. 4 bar RGB4

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	none as standard, optionally gauge port G¼ on one side at R½″ and R1″, standard G¼ at R1½″
Mounting position	any, preferably bonnet upwards
Temperature range	-15 °C to 60 °C / 5 °F to 140 °F
Material	Body: aluminium Inner valve: aluminium and plastic Elastomer: NBR/Buna-N



R½″ up to R1½″
5…12/350 mbar

Dimensions A mm	B mm	C mm	Nominal size DN	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread R	Pressure range mbar	Order number
Low pressure regulator supply pressure max. 4 bar, non-relieving									**RGB4**
132	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**
190	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**
190	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**

RGB4-04CM
accessory: gauge

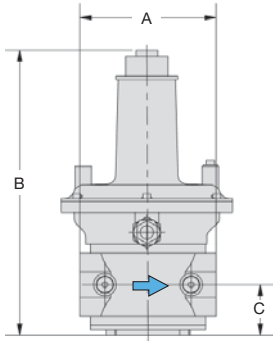
RGB4-12CM
accessory: gauge

Special options, add the appropriate letter

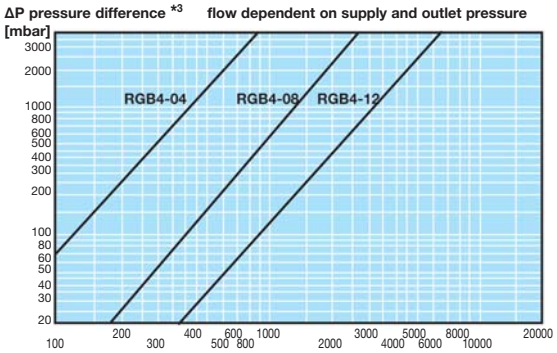
connection thread G¼	for pressure gauge	for R½″ and R1″	RGB4-. . .**M**

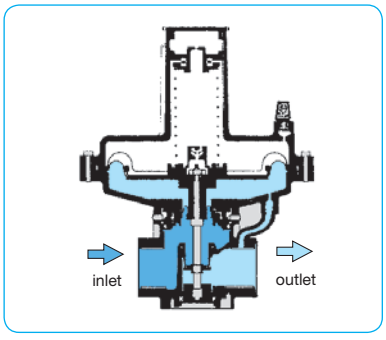
Accessory

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 $\Delta P = P_1 - P_2$ difference between supply and outlet pressure

Gauges: see chapter for measuring devices

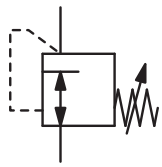
PDF CAD
www.aircom.net

Order example:
RGB4-04A

Low pressure
3

Low Pressure Regulator, Supply Pressure max. 7 bar R160

Description	Low pressure regulator with large diaphragm for good accuracy and high sensitivity.
Media	compressed air or non-corrosive gases
Supply pressure	max. 7 bar, min. 1 bar
Air consumption	without constant bleed
Adjustment	for G½ and G¾: by handwheel with locknot fron G1: by hexagon head screw with locknut
Relieving function	non-relieving
Gauge port	G¼ 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: NBR/Buna-N, optionally FKM or EPDM Diaphragm: NBR/Buna-N with PTFE coating Inner valve: stainless steel / brass Spring cage: stainless steel



G½ up to G2
5…45/3000 mbar

Low pressure
3

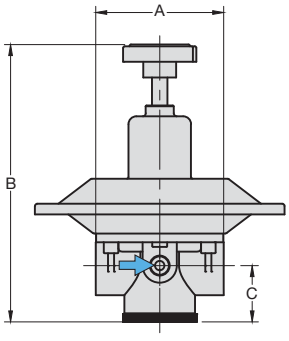
Low pressure regulator

supply pressure max. 6 / 7 bar, non-relieving, without constant bleed

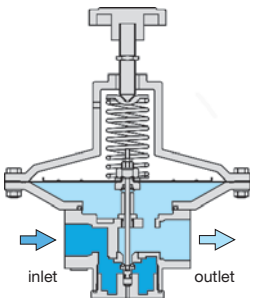
Dimensions A mm	B mm	C mm	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	P_1 max. bar	Connection thread G	Pressure range mbar	Order number R160
82	188	38	0.4	60	1000	6	G½*3	5… 45	R160-04A
								20… 200	R160-04B
								150… 700	R160-04C
154	233	69	1.8	180	3000	7	G¾	5… 45	R160-06A
								10… 120	R160-06B
								10… 400	R160-06C
154	292	53						15… 700	R160-06D
								200…1200	R160-06E
154	233	69	1.8	180	3000	7	G1	5… 45	R160-08A
								10… 120	R160-08B
								10… 400	R160-08C
154	292	53						15… 700	R160-08D
								200…1200	R160-08E
263	233	69	1.8	180	3000	7	G1¼	5… 45	R160-10A
								10… 120	R160-10B
								10… 400	R160-10C
263	292	53						15… 700	R160-10D
								200…1200	R160-10E
263	233	69	1.8	180	3000	7	G1½	5… 45	R160-1AA
								10… 120	R160-1AB
								10… 400	R160-1AC
263	292	53						15… 700	R160-1AD
								200…1200	R160-1AE

R160-04
Zubehör Manometer

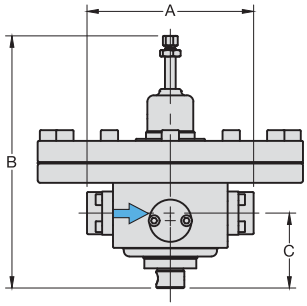
R160-06 /-08 /-10 /-1A



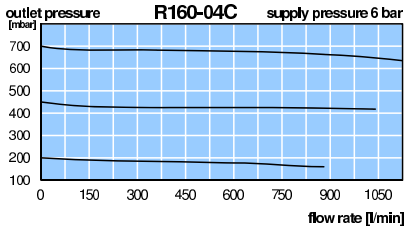
R160-04

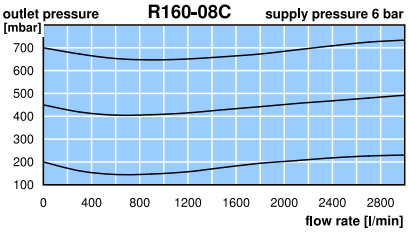


cross-section



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





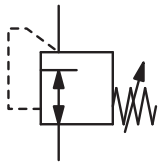
*1 at 6 bar supply pressure and max. outlet pressure *2 see description above *3 thread at outlet G¾

PDF CAD
www.aircom.net

Order example:
R160-04A

Low Pressure Regulator, Supply Pressure max. 7 bar R160

Description	Low pressure regulator with large diaphragm for good accuracy and high sensitivity.
Media	compressed air or non-corrosive gases
Supply pressure	max. 7 bar, min. 1 bar
Air consumption	without constant bleed
Adjustment	for G½ and G¾: by handwheel with locknot fron G1: by hexagon head screw with locknut
Relieving function	non-relieving
Gauge port	G¼ 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: NBR/Buna-N, optionally FKM or EPDM Diaphragm: NBR/Buna-N with PTFE coating Inner valve: stainless steel / brass Spring cage: stainless steel



G½ up to G2
5…45/3000 mbar

Dimensions A mm	B mm	C mm	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	P_1 max. bar	Connection thread G	Pressure range mbar	Order number
Low pressure regulator supply pressure max. 6 / 7 bar, non-relieving, without constant bleed									**R160**
215	472	128	5.7	480	8000	6	G1½	20… 50	**R160-12A**
								50… 150	**R160-12B**
								150… 300	**R160-12C**
								300…3000	**R160-12D**
215	472	128	5.7	480	8000	6	G2	20… 50	**R160-16A**
								50… 150	**R160-16B**
								150… 300	**R160-16C**
								300…3000	**R160-16D**

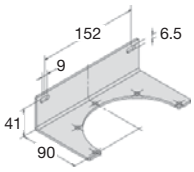
R160-12/-16

Special options, add the appropriate letter

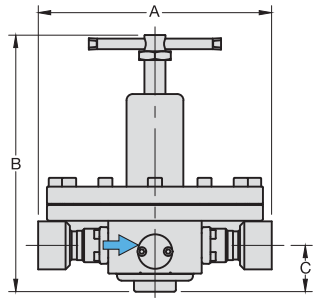
NPT	connection thread	for G1	to G2	R160-. . . **N**
SST inner parts	for ammonia NH_3	for G½	and G1½ (-1A)	R160-. . . **.02**
		for G1½ (-12)	and G2	R160-1. . **.02**
FKM -o-ring	PTFE diaphragm			R160-. . . **T**
EPDM-o-ring				R160-. . . **TE**
EPDM-o-ring	FDA-approval			R160-. . . **TD**
carbon dioxide CO_2				R160-. . . **03**
argon Ar				R160-. . . **05**
nitrogen N_2				R160-. . . **07**
helium He				R160-. . . **09**
hydrogen H_2				R160-. . . **11**
methane CH_4				R160-. . . **13**
natural gas *4				R160-. . . **14**
oxygen O_2				R160-. . . **15**
propane C_3H_6				R160-. . . **16**
nitrous oxide N_2O				R160-. . . **17**
flange connection	see chapter for stainless steel devices			R160-. . . **F.**

Accessory

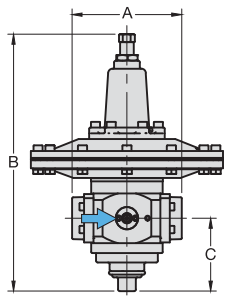
pressure gauge	Ø 63 mm, 0…*2 mbar, G¼, capsule type, connection parts required		**MA6302-. .** *2
	Ø 63 mm, 0…*2 bar, G¼, Bourdon tube, connection parts required		**MA6302-. .** *2
connection parts	for pressure gauge, made of brass, not for NH_3	for G½	**AM-01**
connection parts	for pressure gauge, made of stainless steel, for NH_3	for G½	**AM-03S**
mounting bracket	made of stainless steel	for G½	**BW00-26S**



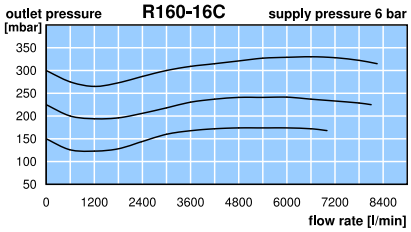
BW00-26S



R160-06/-08/-10/-1A/ (D/E)



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, **04** = 0...4 bar, **06** = 0...6 bar
*4 without DVGW approval

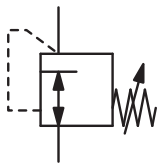
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
R160-12A

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 AR: the smaller P_1 the higher the accuracy, min. 1 bar max. 10 bar at pressure range < 120 mbar
Accuracy	at maximum volume flow < e.g. 10% FS pressure deviation
Air consumption	without constant bleed
Adjustment	manual by turning the spindle under the cover of the spring cage
Relieving function	non-relieving, optionally relieving
Relief capacity	Can be adjusted independently of outlet pressure. On non-relieving designs: blocked exhaust valve.
Gauge port	not available **Mounting position** 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

Low press. regulator w. positioning spring

P1: max. 20 bar, non-relieving

RZ

Dimensions A mm	B mm	C mm	Accuracy %	Nominal size DN	Flow rate l/min*1	P_1 max. bar*2	Connection thread G	Pressure range mbar	Order number
185	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**
185	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**

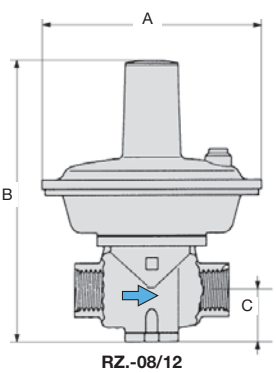
RZ2-08F

RZ1-16AF

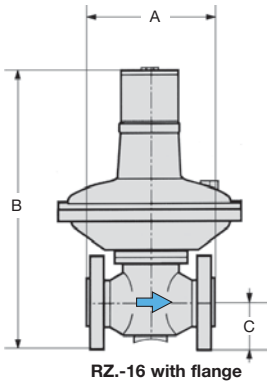
Special options, add the appropriate letter

further ranges	RZ3-08 / -12	700…1100 **I**	1100…2000 **J**	2000…3000	RZ3-. . **K**
further ranges	RZ2-16	1050…2300 **L**		2000…4400	RZ3-16**M**
relieving	with relieving function, adjustable				RZ .-. . . **R**
FKM elastomer					RZ .-. . . **V**
flange connection	see chapter for stainless steel devices / flanges				RZ .-. . . **F.**

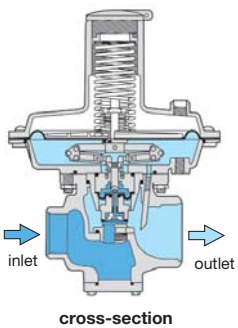
nitrogen	N_2:	**07**	**carbon dioxide**	CO_2:	**03**	**argon**	Ar:	RZ .-. . . **05**
helium	He:	**09**	**hydrogen**	H_2:	**11**	**methane**	CH_4:	RZ .-. . . **13**
oxygen	O_2:	**15**	**propane**	C_3H_6:	**16**	**nitrous oxide**	N_2O:	RZ .-. . . **17**



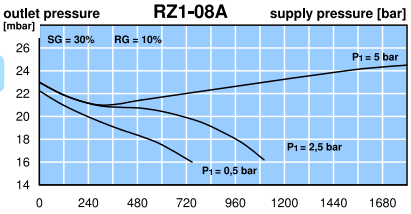
RZ.-08/12

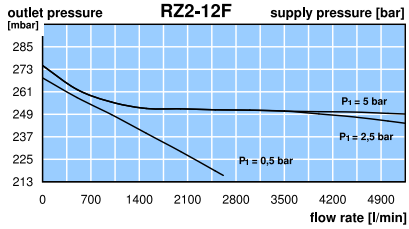


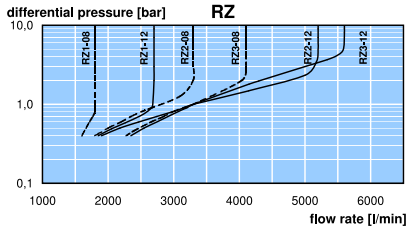
RZ.-16 with flange



cross-section







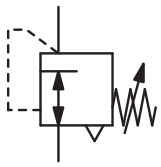
*1 at 4 bar supply pressure and max. outlet pressure *2 see description above *3 G1 thread at inlet

PDF CAD
www.aircom.net

Order example:
RZ1-08A

Precision Low Pressure Regulator, with relieving function R4100

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	G¼ 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



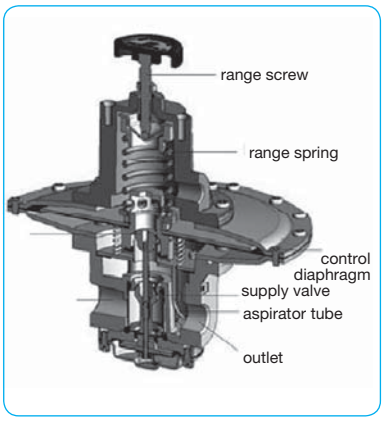
G⅜ up to G¾
2…45/350 mbar

Precision low pressure regulator

P1: max. 10 bar, relieving, without constant bleed

Dimensions A mm	B mm	C mm	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread G	Pressure range mbar	Order number
87	219	40	0.24	30	500	G⅜	2… 45	**R4100-03A**
							2… 95	**R4100-03B**
							5…210	**R4100-03C**
							5…350	**R4100-03D**
87	219	40	0.27	36	600	G½	2… 45	**R4100-04A**
							2… 95	**R4100-04B**
							5…210	**R4100-04C**
							5…350	**R4100-04D**
87	219	40	0.30	42	700	G¾	2… 45	**R4100-06A**
							2… 95	**R4100-06B**
							5…210	**R4100-06C**
							5…350	**R4100-06D**

R4100



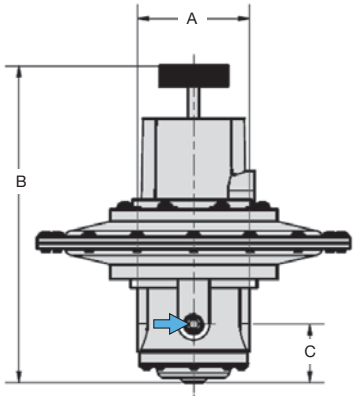
cross section

Special options, add the appropriate letter

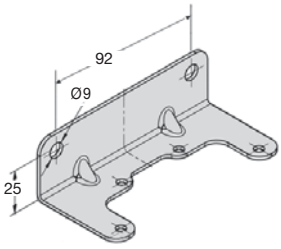
NPT	connection thread	R4100-. . .**N**
tapped exhaust	connection thread G¼	R4100-. . .**X12**
tamper-proof cap	made of aluminium, adjustment by screwdriver, height 295 mm	R4100-. . .**T**
FKM elastomer		R4100-. . .**V**
flange connection	see chapter for stainless steel devices / flanges	R4100-. . .**F.**

Accessory

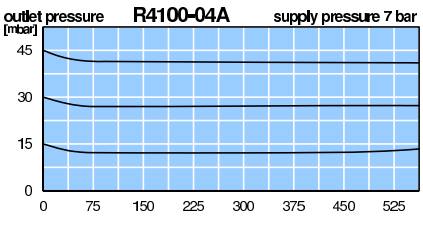
pressure gauge	Ø 63 mm, 0…*2 mbar, G¼	**MA6302-. .***2
mounting bracket	made of steel	**BW00-47**



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

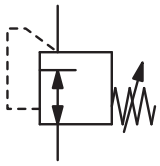
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example: R4100-03A

Precision Low Pressure Regulator for Pure Gases up to 5.0 purity RR

Description	Precision regulator in mbar range without auxiliary power. Accurate and reliable regulation with large diaphragm for high sensitivity
Media	compressed air or non-corrosive gases up to 5.0 purity (99.999% vol.)
Supply pressure	max. 20 bar
Air consumption	without constant bleed
Adjustment	by handwheel with locknut
Relieving function	non-relieving
Gauge port	G½ on the bottom side of the body, screw plug supplied
Mounting position	any
Temperature range	-20 °C to 70 °C / -4 °F to 158 °F, for CO_2 up to 40 °C / 104 °F
Material	Body: grey-coated brass Diaphragm: EPDM with PTFE coating O-rings: NBR/Buna-N Inner valve: brass



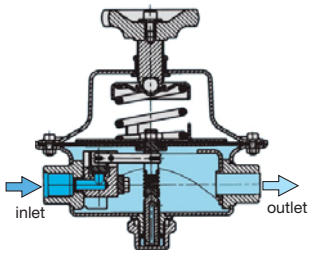
G½
5…50/1500 mbar

Low pressure regulator

supply pressure max. 20 bar, non-relieving, without constant bleed — **RR**

Dimensions A mm	B mm	C mm	Flow rate m³/h*1	l/min*1	Connection thread G	Pressure range mbar/bar	Order number
164	156	41	5	75	G½	5 … 50 mbar	**RR-04A**
			12	200		10 … 100 mbar	**RR-04B**
			30	500		50 … 500 mbar	**RR-04C**
			45	750		0.1 … 1 bar	**RR-04D**
			51	850		0.2 … 1.5 bar	**RR-04E**

RR



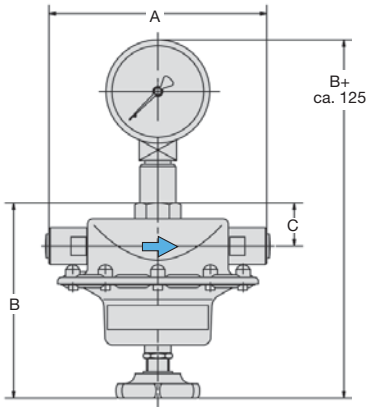
cross-section

Special options, add the appropriate letter

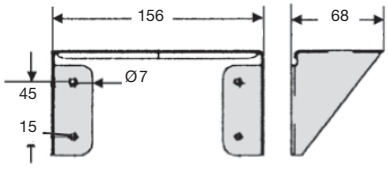
free of grease and oil	suitable for oxygen and flammable gases	RR- . . . **L**
pressure gauge	Ø 100 mm, 0… bar, handwheel at the bottom	RR- . . . **G**

Accessory

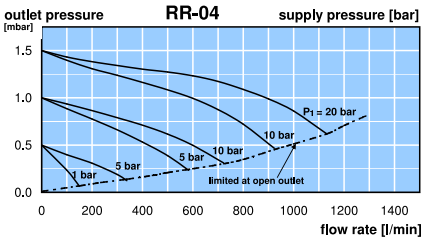
mounting bracket	made of steel	for RR-04	**BW00-64**

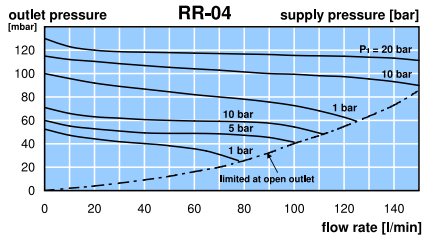


RR-04 with gauge



BW00-64





*1 at 6 bar supply pressure and open outlet

PDF CAD
www.aircom.net

Order example:
RR-04A