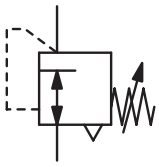
Brass Pressure Regulator up to 50 bar — R120

Description	Pressure regulator of solid design. Made of brass or bronze. Series R120-0.A to -0.E and R120-16 and -32 are equipped with diaphragms, all other are piston-operated.
Media	compressed air, non-corrosive gases or liquids
Supply pressure	see chart, max. 50 bar, for liquids $\Delta p_{max.}$ = 25 bar
Adjustment	by black plastic knob for R120-02, by T-handle for R120-04 to -B6 by hexagonal spindle (spanner size 24 mm) for R120-16, by pilot pressure regulator for R120-32
Relieving function	relieving, optionally non-relieving
Gauge port	G¼ on both sides of the body, one screw plug supplied **Mounting position** any
Temperature range	0 °C bis 80 °C / 32 °F to 176 °F, for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40 °C / -40 °F, optionally high temperature version up to 130 °C / 266 °F
Material	Body: brass at R120-02, -04, bronze at R120-06 to -16, aluminium at R120-32 O-ring: FKM, optionally EPDM Spring cage: brass at R120-02 and -04, aluminum at R120-06 to -32 Inner valve: brass Diagphragm: NBR/Buna-N with PTFE coating



G¼ up to G4
0.1 ... 1.5 / 50 bar

High pressure

4

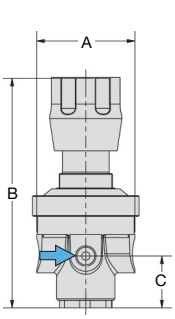
Brass pressure regulator — for compressed air, supply pressure max. 30 / 50 bar, relieving, without pressure gauge — R120

Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread G	Supply max. bar	Pressure range bar	Order number
64	143	34	D	0.35	8	130	G¼	30	0.1 ... 1.5	**R120-02A**
					10	160			0.2 ... 3.0	**R120-02B**
					15	250			0.5 ... 8.0	**R120-02C**
					20	330		50	1 ... 15	**R120-02E**
			P		25	420			2 ... 30	**R120-02F**
					30	500			3 ... 50	**R120-02G**
78	158	37	D	1.0	20	330	G½	30	0.1 ... 1.5	**R120-04A**
					22	360			0.2 ... 3.0	**R120-04B**
					30	500			0.5 ... 8.0	**R120-04C**
					45	750		50	1 ... 15	**R120-04E**
			P		75	1250			2 ... 30	**R120-04F**
					90	1500			3 ... 50	**R120-04G**
116	294	66	D	4.2	60	1000	G¾	30	0.1 ... 1.5	**R120-06A**
					78	1300			0.2 ... 3.0	**R120-06B**
					132	2200			0.5 ... 8.0	**R120-06C**
					222	3700		50	1 ... 15	**R120-06E**
			P		318	5300			2 ... 30	**R120-06F**
					396	6600			3 ... 50	**R120-06G**
116	294	66	D	4.2	60	1000	G1	30	0.1 ... 1.5	**R120-08A**
					78	1300			0.2 ... 3.0	**R120-08B**
					132	2200			0.5 ... 8.0	**R120-08C**
					222	3700		50	1 ... 15	**R120-08E**
			P		318	5300			2 ... 30	**R120-08F**
					396	6600			3 ... 50	**R120-08G**
180	385	128	P	9.6	240	4000	G1½	30	0.1 ... 1.5	**R120-12A**
					402	6700			0.2 ... 3.0	**R120-12B**
					600	10000			0.5 ... 8.0	**R120-12C**
					900	15000		50	1 ... 15	**R120-12E**
					1000	16700			2 ... 30	**R120-12F**
					1200	20000			3 ... 50	**R120-12G**

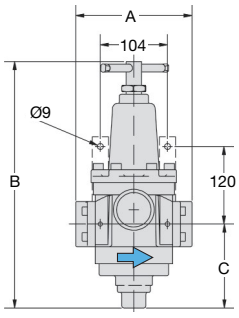
R120-02C
accessory: gauge

R120-04E
accessory: gauge

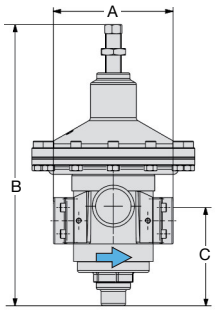
R120-08E
accessory: gauge



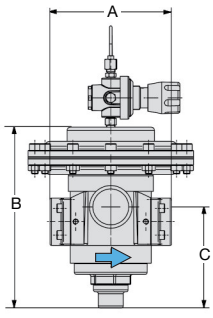
R120-02



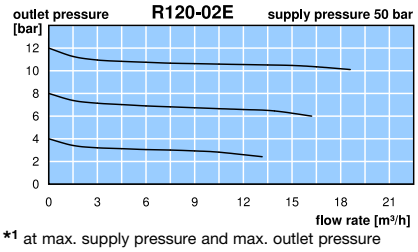
R120-12/-16

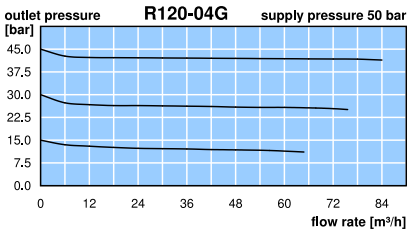


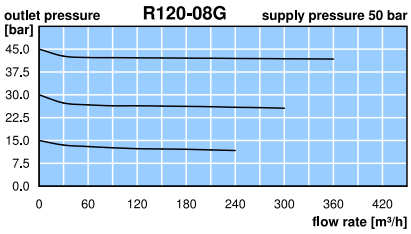
R120-16A/C



R120-16D







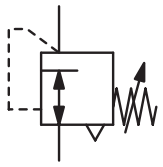
*1 at max. supply pressure and max. outlet pressure

PDF CAD
www.aircom.net

Order example:
R120-02A

Brass Pressure Regulator up to 50 bar R120

Description	Pressure regulator of solid design. Made of brass or bronze. Series R120-0.A to -0.E and R120-16 and -32 are equipped with diaphragms, all other are piston-operated.
Media	compressed air, non-corrosive gases or liquids
Supply pressure	see chart, max. 50 bar, for liquids $\Delta p_{max.}$ = 25 bar
Adjustment	by black plastic knob for R120-02, by T-handle for R120-04 to -B6 by hexagonal spindle (spanner size 24 mm) for R120-16, by pilot pressure regulator for R120-32
Relieving function	relieving, optionally non-relieving
Gauge port	G¼ on both sides of the body, one screw plug supplied **Mounting position** any
Temperature range	0 °C bis 80 °C / 32 °F to 176 °F, for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40 °C / -40 °F, optionally high temperature version up to 130 °C / 266 °F
Material	Body: brass at R120-02, -04, bronze at R120-06 to -16, aluminium at R120-32 O-ring: FKM, optionally EPDM Spring cage: brass at R120-02 and -04, aluminum at R120-06 to -32 Inner valve: brass Diagphragm: NBR/Buna-N with PTFE coating



G¼ up to G4
0.1 ... 1.5 / 50 bar

R120-B6G
accessory: gauge

R120-16A
accessory: gauge

Brass pressure regulator

for compressed air, supply pressure max. 30 / 50 bar, relieving, without pressure gauge

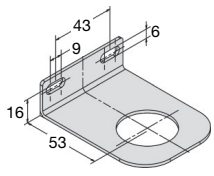
Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread G	Supply max. bar	Pressure range bar	Order number
180	385	128	P	9.6	240	4000	G2	30	0.1 ... 1.5	**R120-B6A**
					402	6700			0.2 ... 3.0	**R120-B6B**
					600	10000			0.5 ... 8.0	**R120-B6C**
					900	15000		50	1 ... 15	**R120-B6E**
					1000	16700			2 ... 30	**R120-B6F**
					1200	20000			3 ... 50	**R120-B6G**
180	425	128	D	13.2	1000	16700	G2	30	0.1 ... 1.5	**R120-16A**
					1500	25000			0.3 ... 6.0	**R120-16C**
					2200	36700			1 ... 15	**R120-16D**
373	442	125	D	24.5	2400	40000	flange	20	0.1 ... 1.5	**R120-32AF**
					4400	73300	DN100		0.3 ... 6.0	**R120-32CF**
					4600	76600			1 ... 15	**R120-32DF**

Special options, add the appropriate letter or number

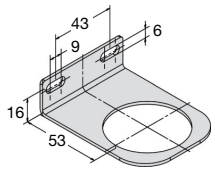
NPT	connection thread						R120-. . . **N**
non-relieving	without relieving function						R120-. . . **K**
up to - 40 °C	low temperature version down to -40°C / -40 °F					up to R120-04	R120-. . .**X51**
up to 130 °C	high temperature version up to 130 °C / 266 °F					up to R120-04	R120-. . .**X54**
EPDM o-ring	PTFE diaphragm						R120-. . . **E**
T-handle	instead of plastic knob					for R120-02	R120-02. **T**
PWIS-free	for painting plants						R120-. . . **LA**
flange connection	standard for R120-32, otherwise see chapter SST devices / flanges						R120-. . . **F.**
nitrogen	N_2:	**07**	**carbon dioxide**	CO_2:	**03**	**argon**	Ar: R120-. . . **05**
helium	He:	**09**	**hydrogen**	H_2:	**11**	**methane**	CH_4: R120-. . . **13**
oxygen	O_2:	**15**	**propane**	C_3H_6:	**16**	**nitrous oxide**	N_2O: R120-. . . **17**
						water	H_2O: R120-. . . **W**

Accessories

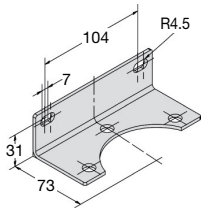
pressure gauges	Ø 50 mm, 0...*2 bar, G¼	for G¼ and G½	**MA5002-. .** *2
	Ø 50 mm, 0...60 bar, G¼	for G¼ and G½	**MA5002-60**
	Ø 63 mm, 0...*2 bar, G¼	for G¾ to G4	**MA6302-. .** *2
	Ø 63 mm, 0...60 bar, G¼	for G¾ to G4	**MA6302-60**
gauge up to 130 °C	Ø 63 mm, 0...*2 bar, G¼ , stainless steel		**MS6302-. .** *2
mounting bracket	made of stainless steel	for G¼	**BW35-01S**
mounting nut	made of stainless steel	for G¼	**M35x1,5S**
mounting bracket	made of stainless steel	for G½	**BW50-01S**
mounting nut	made of stainless steel	for G½	**M50x1,5S**
mounting bracket	made of steel	for G¾ and G1	**BW00-42**
		for G1½ and G2	**BW00-43**



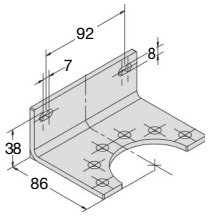
BW35-01S



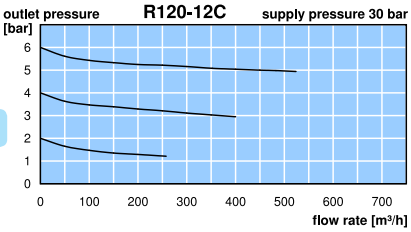
BW50-01S

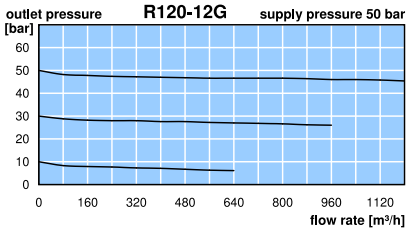


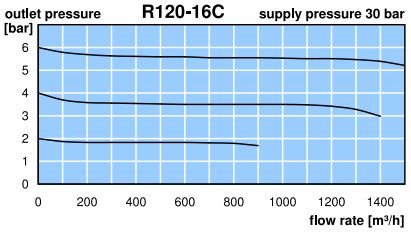
BW00-42



BW00-43







*1 at max. supply pressure and max. outlet pressure
*2 **02** = 0...2.5 bar, **04** = 0...4 bar, **06** = 0...6 bar, **10** = 0...10 bar, **16** = 0...16 bar

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
R120-B6A

High pressure
4