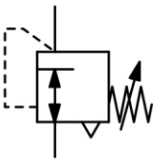
R120 - Régulateur haute pression, universel, G1/8 à G4, 30/50 bar

R120 - Brass pressure regulator up to 50 bar

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	R120-01/-A2: with adjusting screw, at R120-02 with black knob R120-04 to -B6: with T-handle R120-16: with hexangonal spindel (spanner size 24 mm) R120-16/-24/-32: by pilot pressure regulator
Relieving function	R120-B6: relieving R120-16/-24/-32: non-relieving
Gauge port	R120-01/-A2: G⅛ on both sides of the body, all others 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 O-ring: FKM, optionally EPDM Spring cage: brass at R120-01 to -04, aluminum at R120-06 to -32 Inner valve: brass Diaphragm: NBR/Buna-N with PTFE coating



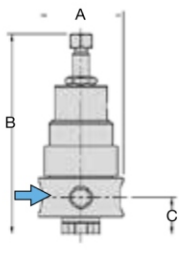
G⅛ up to G4
0.1 ... 1.5 / 50 bar

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	P_1 max. bar	Pressure range bar	Order number
Brass pressure regulator			for compressed air, supply pressure max. 30 / 50 bar, relieving, without pressure gauge							**R120**
40	98	18	D	0.35	8	130	G⅛	30	0.1 ... 1.5	**R120-01A**
			D		10	160		30	0.2 ... 3.0	**R120-01B**
			D		15	250		30	0.5 ... 8.0	**R120-01C**
			D		20	330		30	1 ... 15	**R120-01E**
40	98	18	D	0.35	8	130	G¼	30	0.1 ... 1.5	**R120-A2A**
			D		10	160		30	0.2 ... 3.0	**R120-A2B**
			D		15	250		30	0.5 ... 8.0	**R120-A2C**
			D		20	330		30	1 ... 15	**R120-A2E**
69	146	35	D	1.4	16	260	G¼	30	0.1 ... 1.5	**R120-02A**
			D		20	320		30	0.2 ... 3.0	**R120-02B**
			D		30	500		30	0.5 ... 8.0	**R120-02C**
			D		40	660		50	1 ... 15	**R120-02E**
69	161	35	P		50	840		50	2 ... 30	**R120-02F**
			P		60	1 000		50	3 ... 50	**R120-02G**
69	146	35	D	0.35	16	260	G⅜	30	0.1 ... 1.5	**R120-03A**
			D		20	320		30	0.2 ... 3.0	**R120-03B**
			D		30	500		30	0.5 ... 8.0	**R120-03C**
			D		40	660		50	1 ... 15	**R120-03E**
69	161	35	P		50	840		50	2 ... 30	**R120-03F**
			P		60	1 000		50	3 ... 50	**R120-03G**

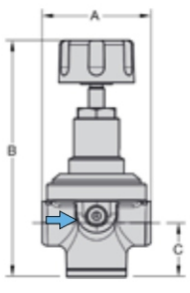
R120-01/-A2

R120-02/-03

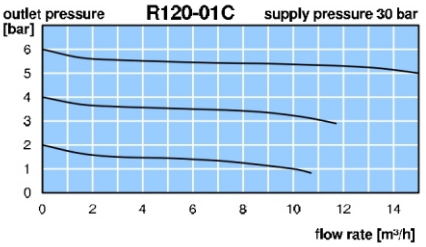
Special options and Accessories, see separate page

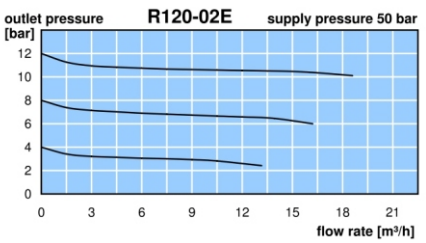


R120-01/-A2



R120-02/-03





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

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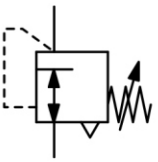
R120 - Régulateur haute pression, universel, G1/8 à G4, 30/50 bar

R120 - Brass pressure regulator up to 50 bar

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	R120-01/-A2: with adjusting screw, at R120-02 with black knob R120-04 to -B6: with T-handle R120-16: with hexangonal spindel (spanner size 24 mm) R120-16/-24/-32: by pilot pressure regulator
Relieving function	R120-B6: relieving R120-16/-24/-32: non-relieving
Gauge port	R120-01/-A2: G⅛ on both sides of the body, all others 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 O-ring: FKM, optionally EPDM Spring cage: brass at R120-01 to -04, aluminum at R120-06 to -32 Inner valve: brass Diaphragm: NBR/Buna-N with PTFE coating



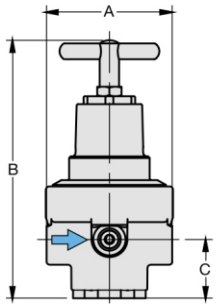
G⅛ up to G4
0.1 ... 1.5 / 50 bar

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	P_1 max. bar	Pressure range bar	Order number
Brass pressure regulator for compressed air, supply pressure max. 30 / 50 bar, relieving, without pressure gauge										**R120**
78	171	37	D	3.0	27	450	G½	30	0.1 ... 1.5	**R120-04A**
			D		30	600		30	0.2 ... 3.0	**R120-04B**
			D		40	830		30	0.5 ... 8.0	**R120-04C**
			D		60	1250		50	1 ... 15	**R120-04E**
78	171	37	P		100	2080		50	2 ... 30	**R120-04F**
			P		120	2500		50	3 ... 50	**R120-04G**
114	290	66	D	9.8	75	1250	G¾*2	30	0.1 ... 1.5	**R120-06A**
			D		98	1600		30	0.2 ... 3.0	**R120-06B**
			D		170	2800		30	0.5 ... 8.0	**R120-06C**
			D		280	4600		50	1 ... 15	**R120-06E**
114	315	66	P		400	6600		50	2 ... 30	**R120-06F**
			P		500	8300		50	3 ... 50	**R120-06G**
114	290	66	D	9.8	75	1250	G1	30	0.1 ... 1.5	**R120-08A**
			D		98	1600		30	0.2 ... 3.0	**R120-08B**
			D		170	2800		30	0.5 ... 8.0	**R120-08C**
			D		280	4600		50	1 ... 15	**R120-08E**
114	315	66	P		400	6600		50	2 ... 30	**R120-08F**
			P		500	8300		50	3 ... 50	**R120-08G**

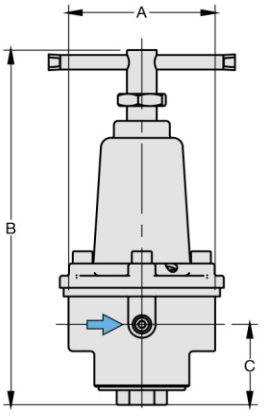
R120-04

R120-06/-08

Special options and Accessories, see separate page

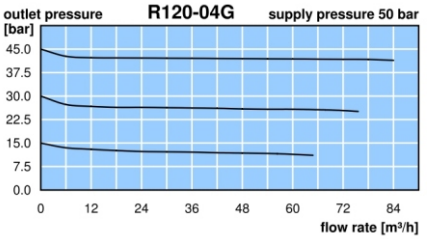


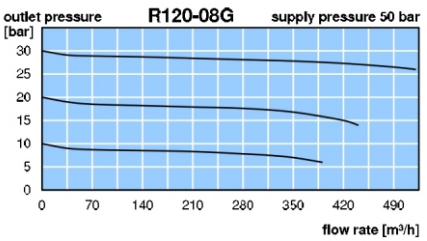
R120-04



R120-06/-08

*1 at max. supply pressure and max. outlet pressure
*2 reduced from next bigger thread





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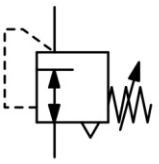
R120 - Régulateur haute pression, universel, G1/8 à G4, 30/50 bar

R120 - Brass pressure regulator up to 50 bar

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	R120-01/-A2: with adjusting screw, at R120-02 with black knob R120-04 to -B6: with T-handle R120-16: with hexangonal spindel (spanner size 24 mm) R120-16/-24/-32: by pilot pressure regulator
Relieving function	R120-B6: relieving R120-16/-24/-32: non-relieving
Gauge port	R120-01/-A2: G⅛ on both sides of the body, all others 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 O-ring: FKM, optionally EPDM Spring cage: brass at R120-01 to -04, aluminum at R120-06 to -32 Inner valve: brass Diaphragm: NBR/Buna-N with PTFE coating



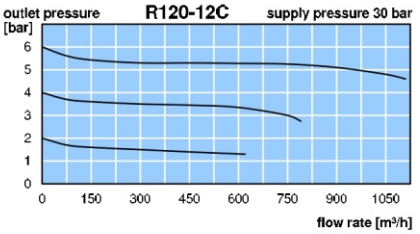
G⅛ up to G4
0.1 ... 1.5 / 50 bar

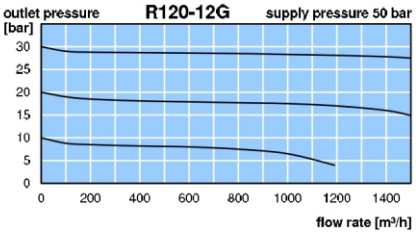
Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread G	P_1 max. bar	Pressure range bar	Order number
Brass pressure regulator			for compressed air, supply pressure max. 30 / 50 bar, relieving, without pressure gauge							**R120**
174	386	122	P	25	400	6600	G1½	30	0.1 ... 1.5	**R120-12A**
			P		670	11000		30	0.2 ... 3.0	**R120-12B**
			P		1000	16600		30	0.5 ... 8.0	**R120-12C**
			P		1500	25000		50	1 ... 15	**R120-12E**
			P		1600	27000		50	2 ... 30	**R120-12F**
			P		2000	33000		50	3 ... 50	**R120-12G**
174	386	122	P	25	400	6600	G2	30	0.1 ... 1.5	**R120-B6A**
			P		670	11000		30	0.2 ... 3.0	**R120-B6B**
			P		1000	16600		30	0.5 ... 8.0	**R120-B6C**
			P		1500	25000		50	1 ... 15	**R120-B6E**
			P		1600	27000		50	2 ... 30	**R120-B6F**
			P		2000	33000		50	3 ... 50	**R120-B6G**
180	421	128	D	25	1800	30000	G2	30	0.1 ... 1.5	**R120-16AK**
			D		2100	35000		30	0.2 ... 3.0	**R120-16BK**
			D		2500	40000		30	0.3 ... 6.0	**R120-16CK**
180	403	128	D		3500	50000		30	1 ... 15	**R120-16DK**
389	434	118	D	65	2400	40000	flange	30	0.1 ... 1.5	**R120-24AKF**
			D		5000	83000		30	0.2 ... 3.0	**R120-24BKF**
			D		5000	83000	DN80	30	0.3 ... 6.0	**R120-24CKF**
			D		6000	99000		30	1 ... 15	**R120-24DKF**
389	434	118	D	65	2400	40000	flange	30	0.1 ... 1.5	**R120-32AKF**
			D		3700	61000		30	0.2 ... 3.0	**R120-32BKF**
			D		5000	83000	DN100	30	0.3 ... 6.0	**R120-32CKF**
			D		6000	99000		30	1 ... 15	**R120-32DKF**

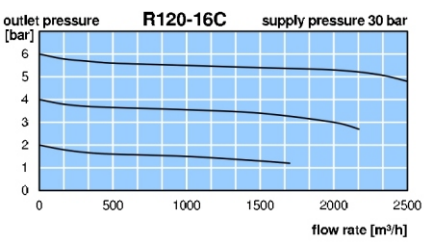
R120-12/-B6

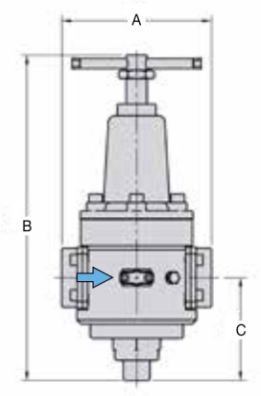
R120-16DK

Special options and Accessories, see separate page

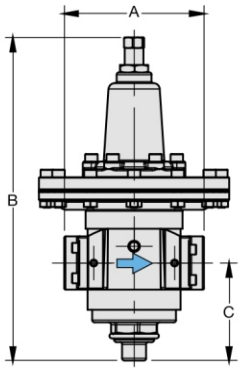




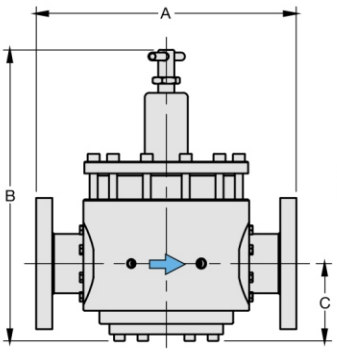




R120-12/-B6



R120-16 (A, B, C)



R120-24/-32

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

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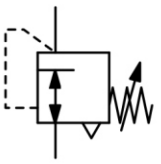
R120 - Régulateur haute pression, universel, G1/8 à G4, 30/50 bar

R120 - Brass pressure regulator up to 50 bar

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	R120-01/-A2: with adjusting screw, at R120-02 with black knob R120-04 to -B6: with T-handle R120-16: with hexangonal spindel (spanner size 24 mm) R120-16/-24/-32: by pilot pressure regulator
Relieving function	R120-B6: relieving R120-16/-24/-32: non-relieving
Gauge port	R120-01/-A2: G⅛ on both sides of the body, all others 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 O-ring: FKM, optionally EPDM Spring cage: brass at R120-01 to -04, aluminum at R120-06 to -32 Inner valve: brass Diaphragm: NBR/Buna-N with PTFE coating

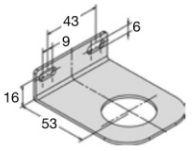


G⅛ up to G4
0.1 ... 1.5 / 50 bar

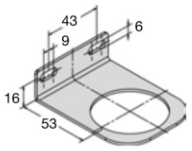
Dimensions A	B	C	Regul. system D: diaphragm P: piston	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread G	P_1 max. bar	Pressure range bar	Order number
mm	mm	mm								

Special options, add the appropriate letter

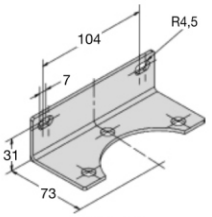
NPT	connection thread		R120-. . . **N**
non-relieving	withour relieving function	up to R120-B6	R120-. . . **K**
down to - 40 °C	low temperature version		R120-. . .**X51**
up to 130 °C	high temperature version		R120-. . .**X54**
Spring cage made of POM	for G⅛ and G¼ (A2)		R120-. . .**X57**
EPDM O-ring	PTFE diaphragm		R120-. . . **E**
T-handle	instead of plastic knob	for R120-02	R120-02. **T**
PWIS-free	for painting plants		R120-. . .**LA**
carbon dioxide	CO_2		R120-. . . K**03**
argon	Ar		R120-. . . K**05**
nitrogen	N_2		R120-. . . K**07**
helium	He		R120-. . . K**09**
hydrogen	H_2		R120-. . . K**11**
methane	CH_4		R120-. . . K**13**
natural gas *3			R120-. . . K**14**
oxygen	O_2		R120-. . . K**15**
propane	C_3H_8		R120-. . . K**16**
nitrous oxide	N_2O		R120-. . . K**17**
water	H_2O		R120-. . . K**W**
flange connection	according to EN-1092-1 or ASME B16.5 on request, standard for R120-32		R120-. . . **F**.



BW35-01S



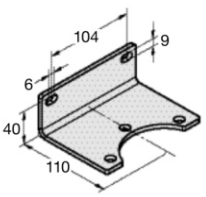
BW50-01S



BW00-42

Accessories, enclosed

pressure gauge	Ø 40 mm, 0...*2 bar, G⅛	for G⅛ and G¼ (A2)	**MA4001-. .** *2
	Ø 50 mm, 0...*2 bar, G¼	for G¼ (02) up to G½	**MA5002-. .** *2
	Ø 50 mm, 0...60 bar, G¼	for G¼ up to G½	**MA5002-60**
	Ø 63 mm, 0...*2 bar, G¼	for G¾ up to G4	**MA6302-. .** *2
	Ø 63 mm, 0...60 bar, G¼	for G¾ up 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 G⅛ u. G¼ (A2)	**BW30-03S**
mounting nut	made of stainless steel	for G⅛ and G¼ (A2)	**M30x1,5SS**
mounting bracket	made of stainless steel	for G¼ (02) and G⅜	**BW35-01S**
mounting nut	made of stainless steel	for G¼ (02) and G⅜	**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**
mounting bracket	made of stainless steel	for G1½ and G2 (B6)	**BW00-68S**



BW00-68S

*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
*3 without DVGW approval

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