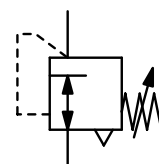


<b>Description</b>	Pressure regulator of solid design. Made of brass or bronze. Series R120-0..A to -0..E and R120-16 and -32 are equipped with diaphragms, all other are piston-operated.
<b>Media</b>	compressed air, non-corrosive gases or liquids
<b>Adjustment</b>	<b>Supply pressure</b> see chart, max. 50 bar, for liquids $\Delta p_{\text{max}} = 25$ bar R120-01/-A2: with adjusting screw, at R120-02 with black knob R120-04 to -B6: with T-handle R120-16: with hexagonal spindle (spanner size 24 mm) R120-16/-24/-32: by pilot pressure regulator
<b>Relieving function</b>	R120-B6: relieving
<b>Gauge port</b>	R120-01/-A2: G $\frac{1}{8}$ on both sides of the body, all others G $\frac{1}{4}$ on both sides of the body, one screw plug supplied
<b>Temperature range</b>	<b>Mounting position</b> any 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
<b>Material</b>	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



**G $\frac{1}{8}$  up to G4**  
**0.1 ... 1.5/50 bar**

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



Brass pressure regulator				for compressed air, supply pressure max. 30 / 50 bar, relieving, without pressure gauge				R120			
40	88	18	D	0.35	8	130	G $\frac{1}{8}$	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	88	18	D	0.35	8	130	G $\frac{1}{4}$	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	G $\frac{1}{4}$	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	1000		50	3 ... 50	R120-02G	
69	146	35	D	0.35	16	260	G $\frac{3}{8}$	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	1000		50	3 ... 50	R120-03G	

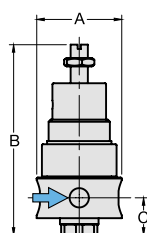


R120-01/-A2

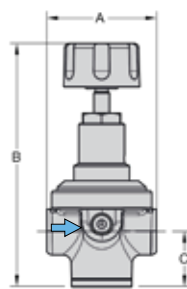


R120-02/-03

## Special options and Accessories, see separate page

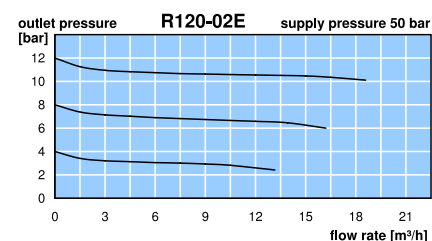
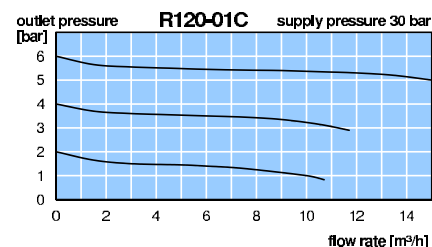


R120-01/-A2



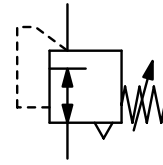
R120-02/-03

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



\* Product group

<b>Description</b>	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.
<b>Media</b>	compressed air, non-corrosive gases or liquids
<b>Adjustment</b>	R120-01/-A2: with adjusting screw, Supply pressure see chart, max. 50 bar, for liquids $\Delta p_{max} = 25$ bar R120-04 to -B6: with T-handle, at R120-02 with black knob R120-16/-24/-32: by pilot pressure regulator, R120-16: with hexagonal spindle (spanner size 24 mm)
<b>Relieving function</b>	R120-16/-24/-32: non-relieving
<b>Gauge port</b>	R120-01/-A2: G $\frac{1}{8}$ on both sides of the body, all others G $\frac{1}{4}$ on both sides of the body, one screw plug supplied
<b>Temperature range</b>	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
<b>Material</b>	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



**G $\frac{1}{8}$  up to G4**  
**0.1 ... 1.5/50 bar**

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

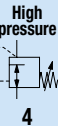
Brass pressure regulator					for compressed air, supply pressure max. 30 / 50 bar, relieving, without pressure gauge					R120
78	171	37	D	3.0	27	450	G½	30	0.1 ... 1.5	R120-04A
			D		30	600		30	0.2 ... 3.0	R120-04B
			D		40	830		30	0.5 ... 8.0	R120-04C
			D		60	1250		50	1 ... 15	R120-04E
78	171	37	P		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



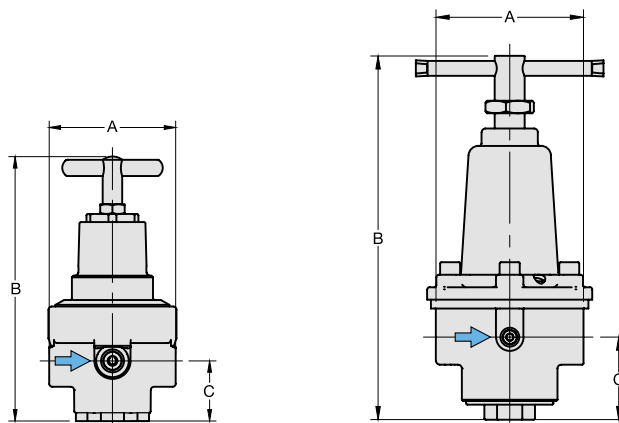
R120-04



R120-06/-08



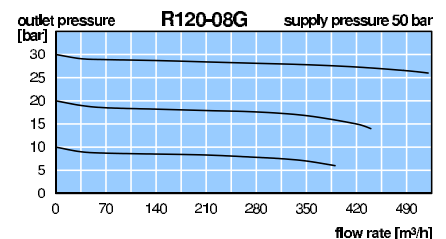
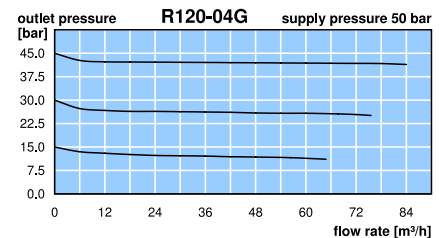
## Special options and Accessories, see separate page



R120-04

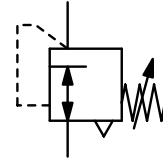
R120-06/-08

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



\* Product group

<b>Description</b>	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.
<b>Media</b>	compressed air, non-corrosive gases or liquids
<b>Adjustment</b>	R120-01/-A2: with adjusting screw, at R120-02 with black knob R120-04 to -B6: with T-handle R120-16/-24/-32: by pilot pressure regulator R120-16: with hexagonal spindle (spanner size 24 mm)
<b>Relieving function</b>	R120-16/-24/-32: non-relieving
<b>Gauge port</b>	R120-01/-A2: G $\frac{1}{8}$ on both sides of the body, all others G $\frac{1}{4}$ on both sides of the body, one screw plug supplied
<b>Temperature range</b>	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
<b>Material</b>	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



**G $\frac{1}{8}$  up to G4**  
**0.1 ... 1.5/50 bar**

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



## 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	<b>R120-12A</b>
			P		670	11000		30	0.2 ... 3.0	<b>R120-12B</b>
			P		1000	16600		30	0.5 ... 8.0	<b>R120-12C</b>
			P		1500	25000		50	1 ... 15	<b>R120-12E</b>
			P		1600	27000		50	2 ... 30	<b>R120-12F</b>
			P		2000	33000		50	3 ... 50	<b>R120-12G</b>
174	386	122	P	25	400	6600	G2	30	0.1 ... 1.5	<b>R120-B6A</b>
			P		670	11000		30	0.2 ... 3.0	<b>R120-B6B</b>
			P		1000	16600		30	0.5 ... 8.0	<b>R120-B6C</b>
			P		1500	25000		50	1 ... 15	<b>R120-B6E</b>
			P		1600	27000		50	2 ... 30	<b>R120-B6F</b>
			P		2000	33000		50	3 ... 50	<b>R120-B6G</b>
180	421	128	D	25	1800	30000	G2	30	0.1 ... 1.5	<b>R120-16AK</b>
			D		2100	35000		30	0.2 ... 3.0	<b>R120-16BK</b>
			D		2500	40000		30	0.3 ... 6.0	<b>R120-16CK</b>
180	403	128	D		3500	50000		30	1 ... 15	<b>R120-16DK</b>
389	434	118	D	65	2400	40000	flange	30	0.1 ... 1.5	<b>R120-24AKF</b>
			D		5000	83000		30	0.2 ... 3.0	<b>R120-24BKF</b>
			D		5000	83000	DN80	30	0.3 ... 6.0	<b>R120-24CKF</b>
			D		6000	99000		30	1 ... 15	<b>R120-24DKF</b>
389	434	118	D	65	2400	40000	flange	30	0.1 ... 1.5	<b>R120-32AKF</b>
			D		3700	61000		30	0.2 ... 3.0	<b>R120-32BKF</b>
			D		5000	83000	DN100	30	0.3 ... 6.0	<b>R120-32CKF</b>
			D		6000	99000		30	1 ... 15	<b>R120-32DKF</b>

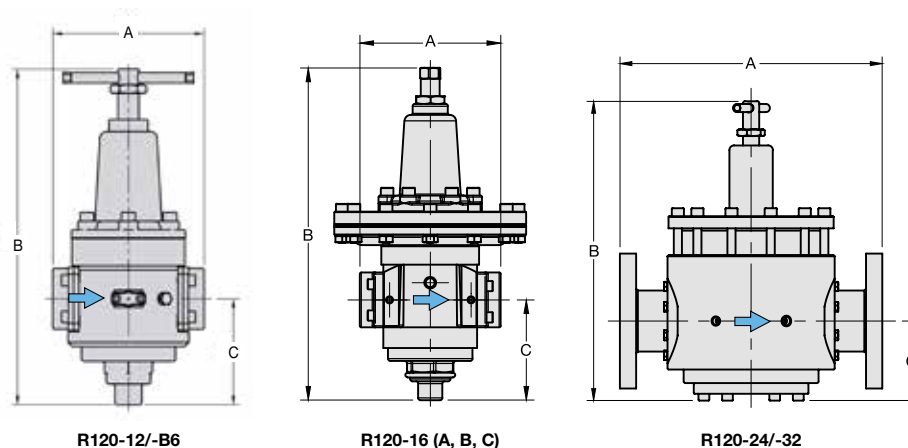


R120-12/-B6



R120-16DK

## Special options and Accessories, see separate page

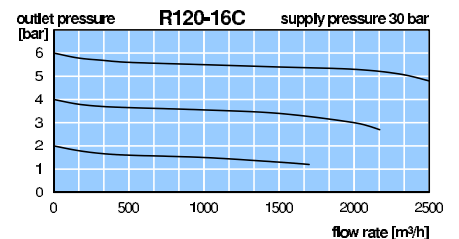
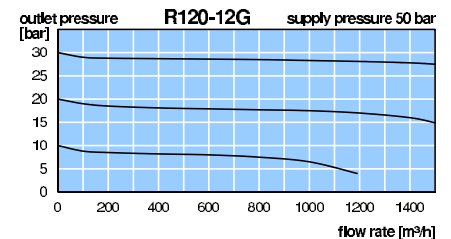
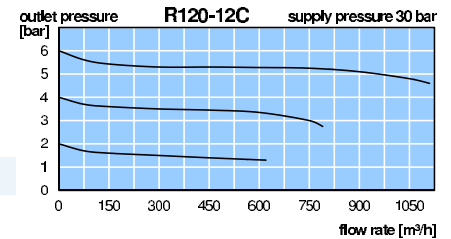


R120-12/-B6

R120-16 (A, B, C)

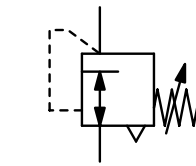
R120-24/-32

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



\* Product group

<b>Description</b>	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.
<b>Media</b>	compressed air, non-corrosive gases or liquids <b>Supply pressure</b> see chart, max. 50 bar, for liquids $\Delta p_{\text{max}} = 25$ bar
<b>Adjustment</b>	R120-01/-A2: with adjusting screw, <b>at R120-02 with black knob</b> R120-04 to -B6: with T-handle <b>R120-16: with hexagonal spindle (spanner size 24 mm)</b> R120-16/-24/-32: by pilot pressure regulator
<b>Relieving function</b>	R120-B6: relieving <b>R120-16/-24/-32: non-relieving</b>
<b>Gauge port</b>	R120-01/-A2: G $\frac{1}{8}$ on both sides of the body, all others G $\frac{1}{4}$ on both sides of the body, one screw plug supplied <b>Mounting position</b> any
<b>Temperature range</b>	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
<b>Material</b>	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

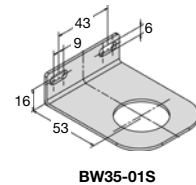


**G $\frac{1}{8}$  up to G4**  
**0.1 ... 1.5/50 bar**

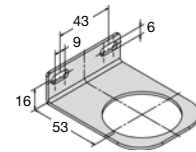
Dimensions	Regul. system	K <sub>v</sub> -	Flow	Connection	P <sub>1</sub>	Pressure	Order
A B C	D: diaphragm	value	rate	thread	max.	range	number
mm mm mm	P: piston	(m <sup>3</sup> /h)	m <sup>3</sup> /h*1 l/min*1	G	bar	bar	B*

### Special options, add the appropriate letter

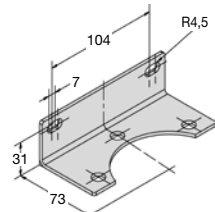
<b>NPT</b>	connection thread	R120-...N
<b>non-relieving</b>	without relieving function	up to R120-B6 R120-...K
<b>down to -40 °C</b>	low temperature version	R120-...X51
<b>up to 130 °C</b>	high temperature version	R120-...X54
<b>Spring cage made of POM</b>	for G $\frac{1}{8}$ and G $\frac{1}{4}$ (A2)	R120-...X57
<b>EPDM O-ring</b>	PTFE diaphragm	R120-...E
<b>T-handle</b>	instead of plastic knob	for R120-02 R120-02..T
<b>PWIS-free</b>	for painting plants	R120-...LA
<b>carbon dioxide</b>	CO <sub>2</sub>	R120-...K03
<b>argon</b>	Ar	R120-...K05
<b>nitrogen</b>	N <sub>2</sub>	R120-...K07
<b>helium</b>	He	R120-...K09
<b>hydrogen</b>	H <sub>2</sub>	R120-...K11
<b>methane</b>	CH <sub>4</sub>	R120-...K13
<b>natural gas *3</b>		R120-...K14
<b>oxygen</b>	O <sub>2</sub>	R120-...K15
<b>propane</b>	C <sub>3</sub> H <sub>8</sub>	R120-...K16
<b>nitrous oxide</b>	N <sub>2</sub> O	R120-...K17
<b>water</b>	H <sub>2</sub> O	R120-...KW
<b>flange connection</b>	standard for R120-32, otherwise see chapter SST devices /flanges	R120-...F.



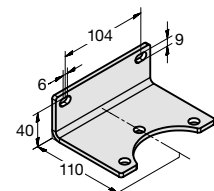
BW35-01S



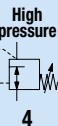
BW50-01S



BW00-42



BW00-68S



### Accessories, enclosed

<b>pressure gauge</b>	Ø 40 mm, 0...*2 bar, G $\frac{1}{8}$	for G $\frac{1}{8}$ and G $\frac{1}{4}$ (A2)	<b>MA4001-...*2</b>
	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{1}{4}$ (02) up to G $\frac{1}{2}$	<b>MA5002-...*2</b>
	Ø 50 mm, 0...60 bar, G $\frac{1}{4}$	for G $\frac{1}{4}$ up to G $\frac{1}{2}$	<b>MA5002-60</b>
	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{3}{4}$ up to G4	<b>MA6302-...*2</b>
	Ø 63 mm, 0...60 bar, G $\frac{1}{4}$	for G $\frac{3}{4}$ up to G4	<b>MA6302-60</b>
<b>gauge up to 130 °C</b>	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$ , stainless steel		<b>MS6302-...*2</b>
<b>mounting bracket</b>	made of stainless steel	for G $\frac{1}{8}$ u. G $\frac{1}{4}$ (A2)	<b>BW30-03S</b>
<b>mounting nut</b>	made of stainless steel	for G $\frac{1}{8}$ and G $\frac{1}{4}$ (A2)	<b>M30x1,5SS</b>
<b>mounting bracket</b>	made of stainless steel	for G $\frac{1}{4}$ (02) and G $\frac{3}{8}$	<b>BW35-01S</b>
<b>mounting nut</b>	made of stainless steel	for G $\frac{1}{4}$ (02) and G $\frac{3}{8}$	<b>M35x1,5S</b>
<b>mounting bracket</b>	made of stainless steel	for G $\frac{1}{2}$	<b>BW50-01S</b>
<b>mounting nut</b>	made of stainless steel	for G $\frac{1}{2}$	<b>M50x1,5S</b>
<b>mounting bracket</b>	made of steel	for G $\frac{3}{4}$ and G1	<b>BW00-42</b>
<b>mounting bracket</b>	made of stainless steel	for G1 $\frac{1}{2}$ and G2 (B6)	<b>BW00-68S</b>

\*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

\* Product group