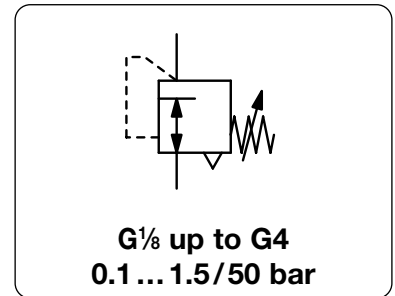


<b>Description</b>	Pressure regulator of solid design. Made of brass or bronze. Series R120-0..A to -0..E and R120-16 and -32 are equipped with diaphragms, all other are piston-operated.
<b>Media</b>	compressed air, non-corrosive gases or liquids
<b>Adjustment</b>	R120-01/-A2: with adjusting screw, R120-04 to -B6: with T-handle R120-16/-24/-32: by pilot pressure regulator
<b>Relieving function</b>	R120-B6: relieving R120-16/-24/-32: non-relieving
<b>Gauge port</b>	R120-01/-A2: G $\frac{3}{8}$ 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

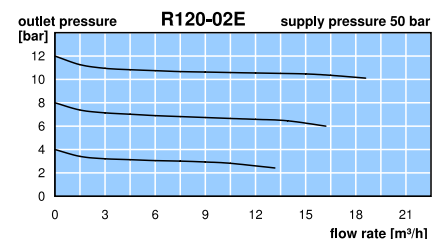
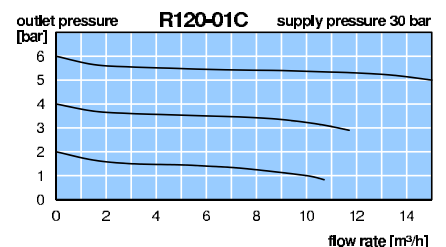
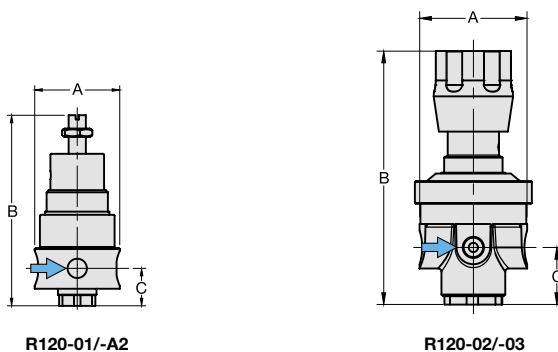


Dimensions			Regul. system	K <sub>v</sub> -	Flow	Connection	P <sub>1</sub>	Pressure	Order
A	B	C	D: diaphragm	value	rate	thread	max.	range	number
mm	mm	mm	P: piston	(m <sup>3</sup> /h)	m <sup>3</sup> /h*1	G	bar	bar	

Brass pressure regulator			for compressed air, supply pressure max. 30 / 50 bar, relieving, without pressure gauge						R120	
40	88	18	D	0.20	8	130	G $\frac{3}{8}$	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	0.20	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	140	36	D	0.35	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	
			P		50	840	50	2 ... 30	R120-02F	
69	154	36	P		60	1000	50	3 ... 50	R120-02G	
			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	
69	140	36	D		30	500	30	0.5 ... 8.0	R120-03C	
			D		40	660	50	1 ... 15	R120-03E	
			P		50	840	50	2 ... 30	R120-03F	
			P		60	1000	50	3 ... 50	R120-03G	

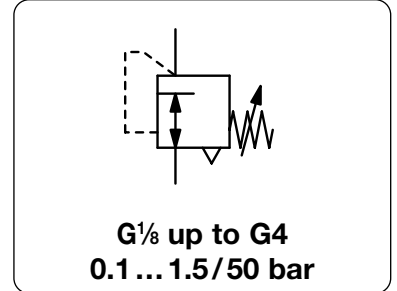


## Special options and Accessories, see separate page



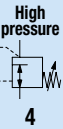
\*1 at max. supply pressure and max. outlet pressure

<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, R120-04 to -B6: with T-handle R120-16/-24/-32: by pilot pressure regulator
<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, 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

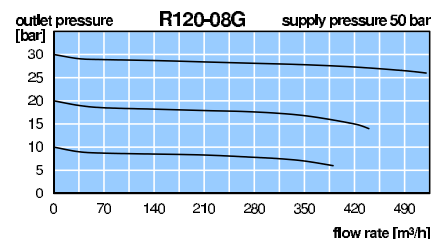
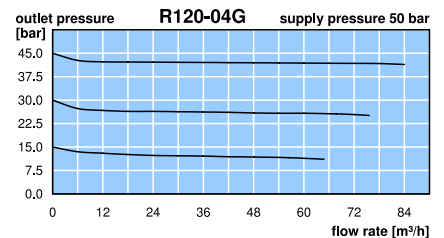
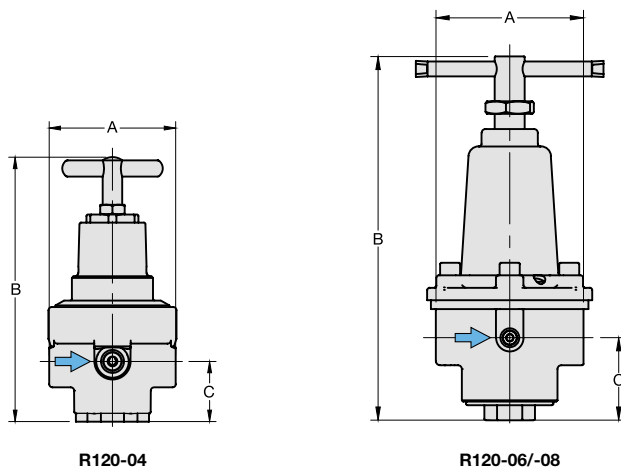


Dimensions			Regul. system	K <sub>v</sub> -	Flow	Connection	P <sub>1</sub>	Pressure	Order
A	B	C	D: diaphragm	value	rate	thread	max.	range	number
mm	mm	mm	P: piston	(m <sup>3</sup> /h)	m <sup>3</sup> /h*1	G	bar	bar	

Brass pressure regulator										for compressed air, supply pressure max. 30 / 50 bar, relieving, without pressure gauge	R120
78	163	37	D	1.0	27	450	G $\frac{1}{2}$	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	159	37	P		100	2080		50	2 ... 30	R120-04F	
			P		120	2500		50	3 ... 50	R120-04G	
118	291	66	D	5.5	75	1250	G $\frac{3}{4}$	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	
118	316	66	P		400	6600		50	2 ... 30	R120-06F	
			P		500	8300		50	3 ... 50	R120-06G	
118	291	66	D	5.5	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	
118	316	66	P		400	6600		50	2 ... 30	R120-08F	
			P		500	8300		50	3 ... 50	R120-08G	



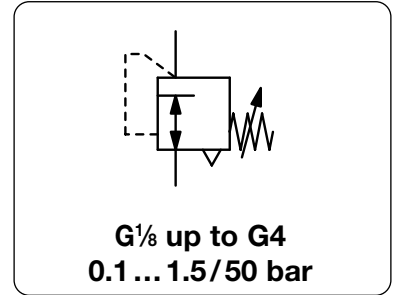
## Special options and Accessories, see separate page



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



<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 $\Delta p_{max} = 25$ 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>	R120-16/-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>	<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

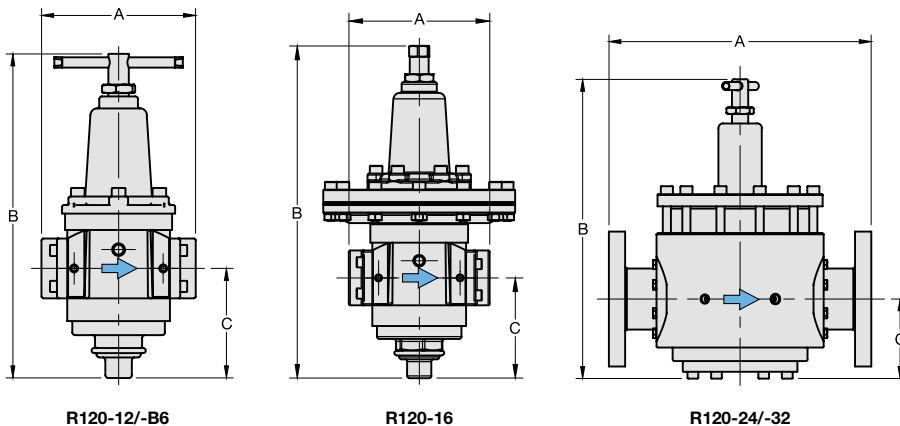
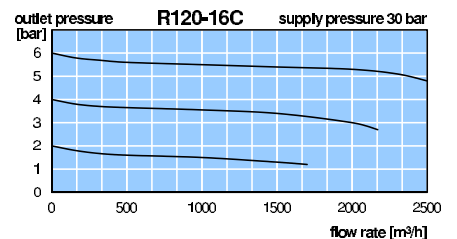
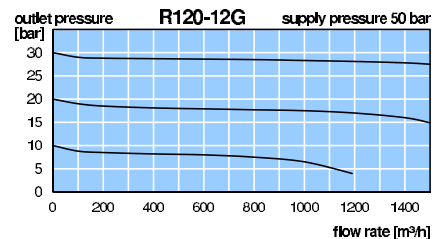
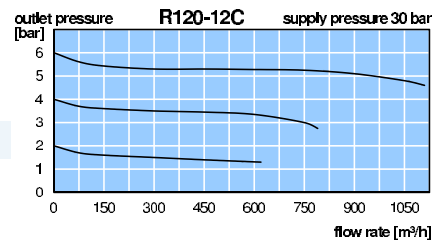


Dimensions			Regul. system	K <sub>v</sub> -	Flow	Connection	P <sub>1</sub>	Pressure	Order
A	B	C	D: diaphragm	value	rate	thread	max.	range	number
mm	mm	mm	P: piston	(m <sup>3</sup> /h)	m <sup>3</sup> /h*1	G	bar	bar	

Brass pressure regulator										for compressed air, supply pressure max. 30 / 50 bar, relieving, without pressure gauge	R120
180	387	128	P	12.6	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	
180	402	128	P		1600	27000		50	2 ... 30	R120-12F	
			P		2000	33000		50	3 ... 50	R120-12G	
180	387	128	P	12.6	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	
180	402	128	P		1600	27000		50	2 ... 30	R120-B6F	
			P		2000	33000		50	3 ... 50	R120-B6G	
180	425	128	D	26	1800	30000	G2	30	0.1 ... 1.5	R120-16AK	
			D		2500	40000		30	0.3 ... 6.0	R120-16CK	
180	379	128	D		3500	50000		30	1 ... 15	R120-16DK	
389	463	118	D	70	2400	40000	flange	30	0.1 ... 1.5	R120-24AKF	
			D		5000	83000	DN80	30	0.3 ... 6.0	R120-24CKF	
			D		6000	99000		30	1 ... 15	R120-24DKF	
389	463	118	D	70	2400	40000	flange	30	0.1 ... 1.5	R120-32AKF	
			D		5000	83000	DN100	30	0.3 ... 6.0	R120-32CKF	
			D		6000	99000		30	1 ... 15	R120-32DKF	



## Special options and Accessories, see separate page



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

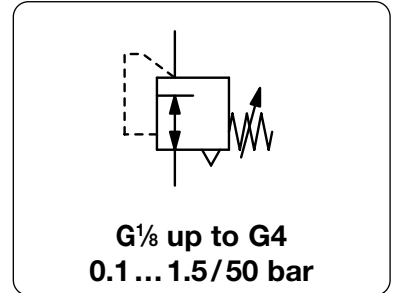
Gauges: see chapter for measuring devices

PDF CAD  
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Order example:  
R120-12A

<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 $\Delta p_{max} = 25$ bar
<b>Adjustment</b>	R120-01/-A2: with adjusting screw, <b>Supply pressure</b> 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 R120-16/-24/-32: non-relieving
<b>Gauge port</b>	R120-01/-A2: G $\frac{1}{8}$ on both sides of the body, one screw plug supplied, all others G $\frac{1}{4}$ on both sides of the body, <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



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

## 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		up to R120-04	R120-...X51
<b>up to 130 °C</b>	high temperature version		up to R120-04	R120-...X54
<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.

## 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 $\frac{1}{4}$ and G $\frac{3}{8}$	<b>BW35-01S</b>
<b>mounting nut</b>	made of stainless steel	for G $\frac{1}{4}$ 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>
		for G1 $\frac{1}{2}$ and G2 (B6)	<b>BW00-43</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

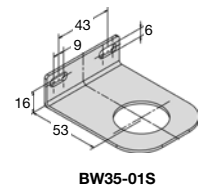
\*3 without DVGW approval

Gauges: see chapter for measuring devices

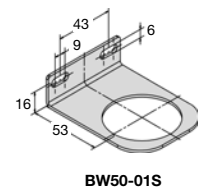
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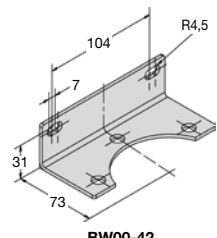
Order example:  
**MA4001-02**



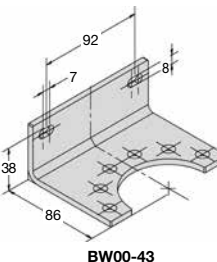
**BW35-01S**



**BW50-01S**



**BW00-42**



**BW00-43**

