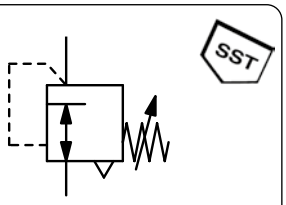
PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGOUT, UP TO 60 BAR R3000

Description	Pressure regulator made of stainless steel, diaphragm- or piston-operated, up to P_1 = 60 bar.
Media	compressed air, gases or liquids
Supply pressure	see chart, max. 60 bar, for liquids $\Delta p_{max.}$ = 25 bar
Adjustment	by adjusting screw at R3000-01 to -A8, and -24 to -32 by T-handle at R3000-08 to -16C, with pilot-regulator by adjusting screw at -16D
Relieving function	non-relieving, optionally relieving **Mounting position** any
Gauge port	G⅛ at R3000-01 and -A2, all others G¼ on both sides of the body, one screw plug supplied
Temperature range	0 °C to 80 °C / 32 °C to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °C to 266 °F for high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40°C / -40 °F
Material	Body: stainless steel 316L, material no. 1.4404 Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel O-rings: FKM, optionally EPDM Internal parts: stainless steel 316L, material no. 1.4404



G⅛ up to G2 / DN100 gases or liquids

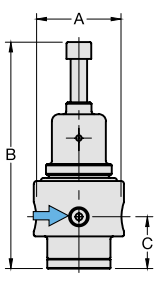
Dimensions A mm	B mm	C mm	Regul. system D: Diaphragm P: Piston	K_v value (m^3/h)	Flow rate m^3/h*1	l/min*1	P_1 max. bar	Connection thread G	Pressure range bar	Order number	C*
SST Pressure regulator					supply pressure max. 30/50 bar, non-relieving, PTFE diaphragm and FKM o-ring					**R3000**	
40	98	18	M	0,35	20	330	30	G⅛	0,1 ... 1,5	**R3000-01AT**	
									0,2 ... 3,0	**R3000-01BT**	
									0,5 ... 8,0	**R3000-01DT**	
									1,0 ... 15	**R3000-01ET**	
40	98	18	M	0,35	20	330	30	G¼	0,1 ... 1,5	**R3000-A2AT**	
									0,2 ... 3,0	**R3000-A2BT**	
									0,5 ... 8,0	**R3000-A2DT**	
									1,0 ... 15	**R3000-A2ET**	
64	160	38	M	1,4	78	1300	30	G¼	0,1 ... 1,5	**R3000-02AT**	
									0,2 ... 3,0	**R3000-02BT**	
									0,5 ... 8,0	**R3000-02CT**	
							50		1,0 ... 15	**R3000-02DT**	
64	175	38	K	1,4	78	1300	50		2,0 ... 30	**R3000-02ET**	
									3,0 ... 50	**R3000-02FT**	
109	160	39	M	3,0	168	2800	50	G⅜	0,1 ... 1,5	**R3000-03AT**	
									0,2 ... 3,0	**R3000-03BT**	
									0,5 ... 8,0	**R3000-03CT**	
									1,0 ... 15	**R3000-03FT**	
109	178	39	K	3,0	168	2800	50		2,0 ... 30	**R3000-03GT**	
									3,0 ... 50	**R3000-03LT**	
109	160	39	M	3,0	168	2800	50	G½	0,1 ... 1,5	**R3000-04AT**	
									0,2 ... 3,0	**R3000-04BT**	
									0,5 ... 8,0	**R3000-04CT**	
									1,0 ... 15	**R3000-04FT**	
109	178	39	K	3,0	168	2800	50		2,0 ... 30	**R3000-04GT**	
									3,0 ... 50	**R3000-04LT**	

R3000-01/-A2

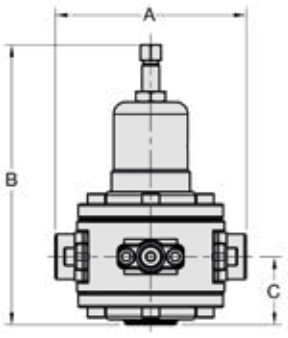
R3000-02

R3000-04

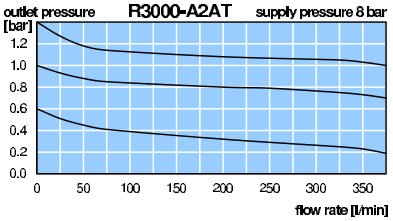
Accessories, see following pages

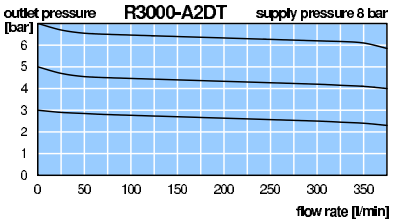


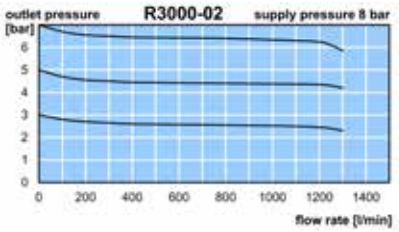
R3000-02/-03



R3000-03/-04







*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

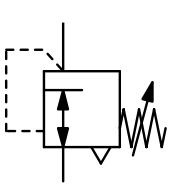
* Product group

PDF CAD
www.aircom.net

Order example: R3000-01AT

PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGOUT, UP TO 60 BAR R3000

Description	Pressure regulator made of stainless steel, diaphragm- or piston-operated, up to P_1 = 60 bar.
Media	compressed air, gases or liquids
Supply pressure	see chart, max. 60 bar, for liquids $\Delta p_{max.}$ = 25 bar
Adjustment	by adjusting screw at R3000-01 to -A8, and -24 to -32 by T-handle at R3000-08 to -16C, with pilot-regulator by adjusting screw at -16D
Relieving function	non-relieving, optionally relieving **Mounting position** any
Gauge port	G⅛ at R3000-01 and -A2, all others G¼ on both sides of the body, one screw plug supplied
Temperature range	0 °C to 80 °C / 32 °C to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °C to 266 °F for high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40°C / -40 °F
Material	Body: stainless steel 316L, material no. 1.4404 Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel O-rings: FKM, optionally EPDM Internal parts: stainless steel 316L, material no. 1.4404



G⅛ up to G2 / DN100
gases or liquids

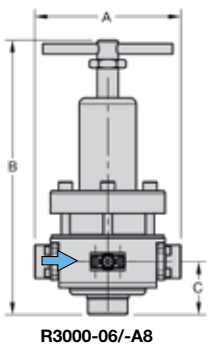
Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	K_v value (m^3/h)	Flow rate m^3/h*1	l/min*1	P_1 max. bar	Connection thread G	Pressure range bar	Order number	C*
SST Pressure regulator					supply pressure max. 30/50/60 bar, non-relieving, PTFE diaphragm and FKM o-ring					**R3000**	
137	187	51	K	8.4	480	8000	50	G¾	0.1 ... 1.5	**R3000-06AT**	
									0.2 ... 3.0	**R3000-06BT**	
									0.5 ... 8.0	**R3000-06CT**	
									1.0 ... 15	**R3000-06FT**	
									2.0 ... 30	**R3000-06GT**	
									3.0 ... 50	**R3000-06LT**	
137	187	51	K	8.4	480	8000	50	G1	0.1 ... 1.5	**R3000-A8AT**	
									0.2 ... 3.0	**R3000-A8BT**	
									0.5 ... 8.0	**R3000-A8CT**	
									1.0 ... 15	**R3000-A8FT**	
									2.0 ... 30	**R3000-A8GT**	
									3.0 ... 50	**R3000-A8LT**	
165	287	60	M	9.7	540	9000	60	G1	0.1 ... 1.5	**R3000-08AT**	
									0.2 ... 3.0	**R3000-08BT**	
									0.5 ... 8.0	**R3000-08CT**	
									1.0 ... 15	**R3000-08FT**	
165	302	60	K	9.7	540	9000	60		2.0 ... 30	**R3000-08GT**	
165	311	60							3.0 ... 50	**R3000-08LT**	
269	287	60	M	9.7	540	9000	60	G1¼	0.1 ... 1.5	**R3000-10AT**	
									0.2 ... 3.0	**R3000-10BT**	
									0.5 ... 8.0	**R3000-10CT**	
									1.0 ... 15	**R3000-10FT**	
269	302	60	K	9.7	540	9000	60		2.0 ... 30	**R3000-10GT**	
269	311	60							3.0 ... 50	**R3000-10LT**	
269	287	60	M	9.7	540	9000	60	G1½	0.1 ... 1.5	**R3000-1AAT**	
									0.2 ... 3.0	**R3000-1ABT**	
									0.5 ... 8.0	**R3000-1ACT**	
									1.0 ... 15	**R3000-1AFT**	
269	302	60	K	9.7	540	9000	60		2.0 ... 30	**R3000-1AGT**	
269	311	60							3.0 ... 50	**R3000-1ALT**	

R3000-06/-A8

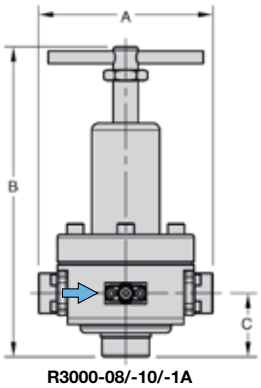
R3000-08/-10/-1A

R3000-06/A8.TF.

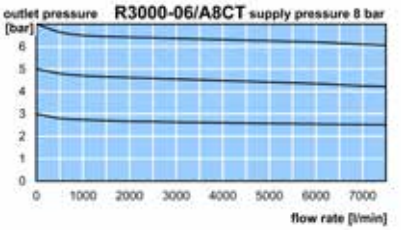
Accessories, see following pages

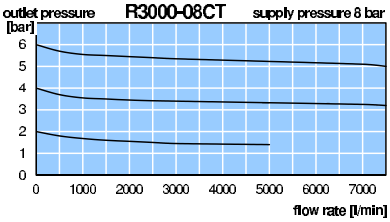


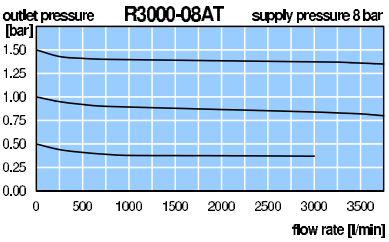
R3000-06/-A8



R3000-08/-10/-1A







*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

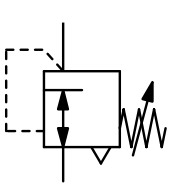
* Product group

PDF CAD
www.aircom.net

Order example:
R3000-06AT

PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGOUT, UP TO 60 BAR R3000

Description	Pressure regulator made of stainless steel, diaphragm- or piston-operated, up to P_1 = 60 bar.
Media	compressed air, gases or liquids
Supply pressure	see chart, max. 60 bar, for liquids $\Delta p_{max.}$ = 25 bar
Adjustment	by adjusting screw at R3000-01 to -A8 by T-handle at R3000-08 to -32CT, with pilot-regulator by adjusting screw at -16D/-24D/-32D
Relieving function	non-relieving, optionally relieving **Mounting position** any
Gauge port	G⅛ at R3000-01 and -A2, all others G¼ on both sides of the body, one screw plug supplied
Temperature range	0 °C to 80 °C / 32 °C to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °C to 266 °F for high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40°C / -40 °F
Material	Body: stainless steel 316L, material no. 1.4404 Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel O-rings: FKM, optionally EPDM Internal parts: stainless steel 316L, material no. 1.4404



G⅛ up to G2 / DN100
gases or liquids

R3000-12/-B6

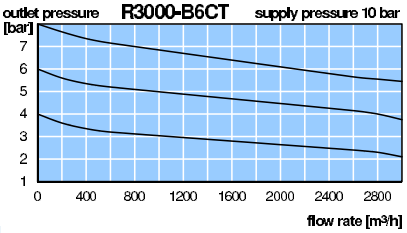
R3000-16 (A, B, C)
accessory: gauge

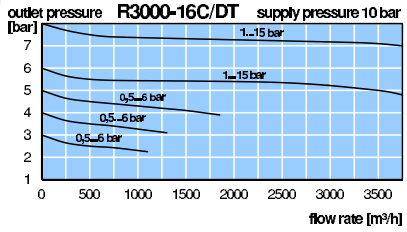
SST Pressure regulator

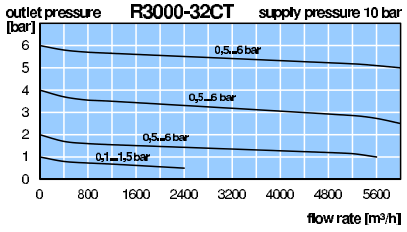
supply pressure max. 30/50 bar, non-relieving, PTFE diaphragm and FKM o-ring

R3000

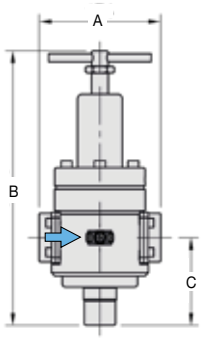
Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	K_v value (m^3/h)	Flow rate m^3/h*1	l/min*1	P_1 max. bar	Connection thread G	Pressure range bar	Order number
174	393	126	K	25	1380	23000	30	G1½	0.1 ... 1.5	**R3000-12AT**
									0.2 ... 3.0	**R3000-12BT**
									0.5 ... 8.0	**R3000-12CT**
							50		1.0 ... 15	**R3000-12ET**
									2.0 ... 30	**R3000-12GT**
									3.0 ... 50	**R3000-12LT**
174	393	126	K	25	1380	23000	30	G2	0.1 ... 1.5	**R3000-B6AT**
									0.2 ... 3.0	**R3000-B6BT**
									0.5 ... 8.0	**R3000-B6CT**
							50		1.0 ... 15	**R3000-B6ET**
									2.0 ... 30	**R3000-B6GT**
									3.0 ... 50	**R3000-B6LT**
171	421	128	M	25	1440	24000	30	G2	0.1 ... 1.5	**R3000-16AT**
									0.2 ... 3.0	**R3000-16BT**
									0.5 ... 6.0	**R3000-16CT**
171	417	128	M	25	1440	24000	30		1.0 ... 15	**R3000-16DT**
405	446	118	M	65	3900	65000	30	DN80	0.1 ... 1.5	**R3000-24AT**
									0.2 ... 3.0	**R3000-24BT**
									0.5 ... 6.0	**R3000-24CT**
405	427	118							1.0 ... 15	**R3000-24DT**
405	446	118	M	65	3900	65000	30	DN100	0.1 ... 1.5	**R3000-32AT**
									0.2 ... 3.0	**R3000-32BT**
									0.5 ... 6.0	**R3000-32CT**
405	427	118							1.0 ... 15	**R3000-32DT**



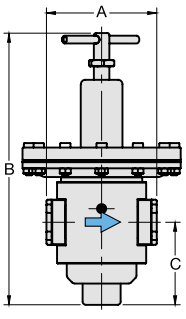




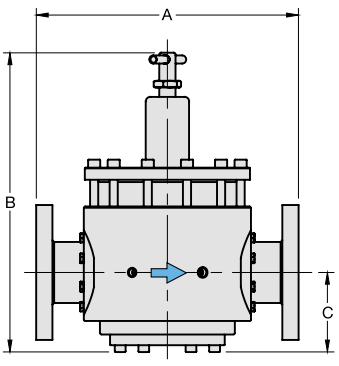
Accessories, see following pages



R3000-12/-B6



R3000-16 (A, B, C)



R3000-24/-32 (A, B, C)

*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

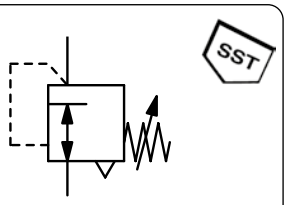
* Product group

PDF CAD
www.aircom.net

Order example:
R3000-12AT

PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGOUT, UP TO 60 BAR R3000

Description	Pressure regulator made of stainless steel, diaphragm- or piston-operated, up to P_1 = 60 bar.
Media	compressed air, gases or liquids
Supply pressure	see chart, max. 60 bar, for liquids $\Delta p_{max.}$ = 25 bar
Adjustment	by adjusting screw at R3000-01 to -A8 by T-handle at R3000-08 to -32CT, with pilot-regulator by adjusting screw at -16D/-24D/-32D
Relieving function	non-relieving, optionally relieving **Mounting position** any
Gauge port	G⅛ at R3000-01 and -A2, all others G¼ on both sides of the body, one screw plug supplied
Temperature range	0 °C to 80 °C / 32 °C to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °C to 266 °F for high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40°C / -40 °F
Material	Body: stainless steel 316L, material no. 1.4404 Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel O-rings: FKM, optionally EPDM Internal parts: stainless steel 316L, material no. 1.4404

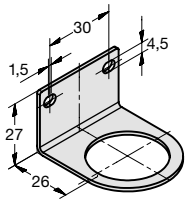


G⅛ up to G2 / DN100
gases or liquids

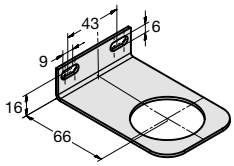
Dimensions A	B	C	Regul. system D: diaphragm P: piston	K_v value (m^3/h)	Flow rate m^3/h*1	l/min*1	P_1 max. bar	Connection thread G	Pressure range bar	Order number	C*
mm	mm	mm									

Special options, add the appropriate letter or number

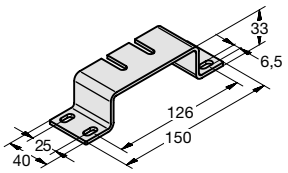
NPT	connection thread		R3000- . . . .**N**
with T-handle	instead of hexagonal screw	for G¼ (02) to G1 (A8)	R3000- . . . .**P**
relieving			R3000- . . . .**R**
tapped exhaust		for R3000-01/A2	R3000- **X12**
down to -40 °C	low temperature version	from G¼ (02) on	R3000- **X51**
up to 130 °C	high temperature version	from G¼ (02) on	R3000- **X54**
spring cowling m. of POM	P_1 max. 20 bar P_2 max. 8 bar	for G⅛ and G¼ (A2)	R3000- **X57**
FKM o-ring	for piston or PTFE diaphragm		R3000- . . .**T**
EPDM o-ring			R3000- . . .**TE**
EPDM o-ring	FDA-approval		R3000- . . .**TD**
SST diaphragm	FKM o-ring	for G¼ (02) to G1 (A8)	R3000- . . .**S**
	EPDM o-ring	for G¼ (02) to G1 (A8)	R3000- . . .**SE**
ammonia	NH_3	P_1 max. 15 bar	R3000- **02**
carbon dioxide	CO_2		R3000- **03**
argon	Ar		R3000- **05**
nitrogen	N_2		R3000- **07**
helium	He		R3000- **09**
hydrogen	H_2		R3000- **11**
methane	CH_4		R3000- **13**
natural gas *3			R3000- **14**
oxygen	O_2		R3000- **15**
propane	C_3H_8		R3000- **16**
nitrous oxide	N_2O		R3000- **17**
water	H_2O		R3000- . . . .**W**
flange connection	according to EN-1092-1 or ASME B16.5	on request	R3000- . . . .**F.**



BW30-03S



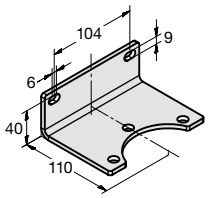
BW45-03S



BW00-59S

Accessories, enclosed

pressure gauge	Ø 40 mm, 0…*2 bar, G⅛	for G⅛ and G¼ (A2)	**MS4001-..*2**
	Ø 50 mm, 0…*2 bar, G¼	for G¼ (02) to G½	**MS5002-..*2**
	Ø 63 mm, 0…*2 bar, G¼	for G¾ (06) to G2	**MS6302-..*2**
mounting bracket		for G⅛ and G¼ (A2)	**BW30-03S**
mounting nut		for G⅛ and G¼ (A2)	**M30x1,5SS**
mounting bracket		for G¼ (02) to G1 (A8)	**BW45-03S**
mounting nut		for G¼ (02) to G1 (A8)	**M45x1,5S**
mounting bracket		for G1 (08) + G1½ (1A)	**BW00-59S**
		for G1½ (12) + G2 (B6)	**BW00-68S**



BW00-68S

*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

*2 **02** = 0…2.5 bar, **04** = 0…4 bar, **06** = 0…6 bar, **10** = 0…10 bar, **16** = 0…16 bar, **60** = 0…60 bar

*3 without DVGW-approval

* Product group

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
MS4001-02