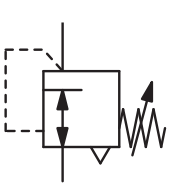
Pressure Regulator Made of Stainless Steel Througout, up to 60 bar R3000

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

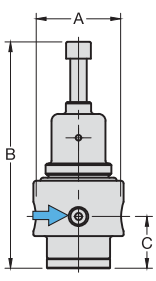
Dimensions A	B	C	Regul. system D: Diaphragm P: Piston	K_v value	Flow rate		P_1 max.	Connection thread	Pressure range	Order number
mm	mm	mm		(m^3/h)	m^3/h*1	l/min*1	bar	G	bar	
SST Pressure regulator					supply pressure max. 30/50 bar, non-relieving, PTFE diaphragm and FKM o-ring					**R3000**
40	92	22	D	0.2	20	350	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	92	22	D	0.2	20	350	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	161	38	D	0.5	42	700	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	P	0.5	42	700	50		2.0 ... 30	R3000-02ET
									3.0 ... 50	R3000-02FT
64	161	38	D	0.5	42	700	30	G⅜	0.1 ... 1.5	R3000-03AT
									0.2 ... 3.0	R3000-03BT
									0.5 ... 8.0	R3000-03CT
							50		1.0 ... 15	R3000-03DT
64	175	38	P	0.5	42	700	50		2.0 ... 30	R3000-03ET
									3.0 ... 50	R3000-03FT
80	164	37	D	1.8	132	2200	30	G½	0.1 ... 1.5	R3000-04AT
									0.2 ... 3.0	R3000-04BT
									0.5 ... 8.0	R3000-04CT
							50		1.0 ... 15	R3000-04FT
80	189	37	P	1.8	132	2200	50		2.0 ... 30	R3000-04GT
									3.0 ... 50	R3000-04LT

R3000-01/-A2, accessory: gauge

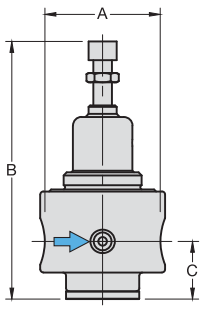
R3000-02/-03, accessory: gauge

R3000-04, accessory: gauge

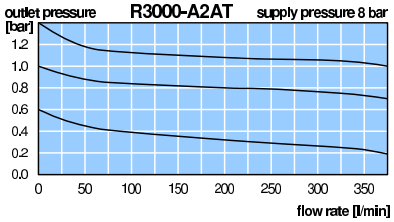
Accessories, see following pages

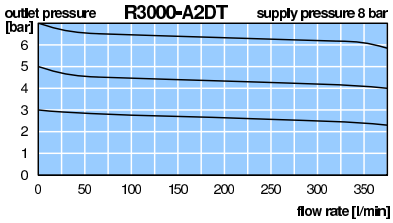


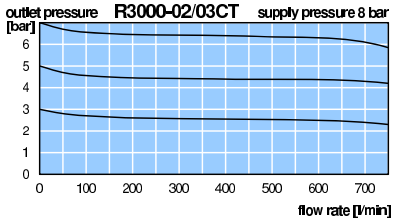
R3000-02/-03

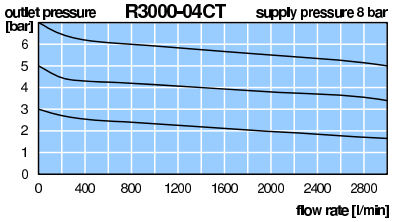


R3000-04









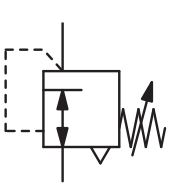
*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

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



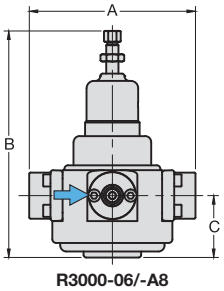
G⅛ up to G2 / DN100
gases or liquids

R3000-06/-A8, accessory: gauge

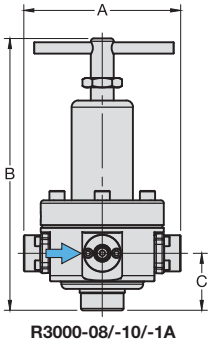
R3000-08/-10/-1A, accessory: gauge

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	P_1 max. bar	Connection thread G	Pressure range bar	Order number
SST Pressure regulator			supply pressure max. 30/60 bar, non-relieving, PTFE diaphragm and FKM o-ring							**R3000**
137	187	51	P	3.0	228	3800	30	G¾	0.1 ... 1.5	R3000-06AT
									0.2 ... 3.0	R3000-06BT
									0.5 ... 8.0	R3000-06CT
							50		1.0 ... 15	R3000-06FT
									2.0 ... 30	R3000-06GT
									3.0 ... 50	R3000-06LT
137	187	51	P	3.0	228	3800	30	G1	0.1 ... 1.5	R3000-A8AT
									0.2 ... 3.0	R3000-A8BT
									0.5 ... 8.0	R3000-A8CT
							50		1.0 ... 15	R3000-A8FT
									2.0 ... 30	R3000-A8GT
									3.0 ... 50	R3000-A8LT
165	286	60	D	6.0	480	8000	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	311	60	P	6.0	480	8000	60		2.0 ... 30	R3000-08GT
									3.0 ... 50	R3000-08LT
269	286	60	D	6.0	480	8000	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	311	60	P	6.0	480	8000	60		2.0 ... 30	R3000-10GT
									3.0 ... 50	R3000-10LT
269	286	60	D	6.0	480	8000	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	311	60	P	6.0	480	8000	60		2.0 ... 30	R3000-1AGT
									3.0 ... 50	R3000-1ALT

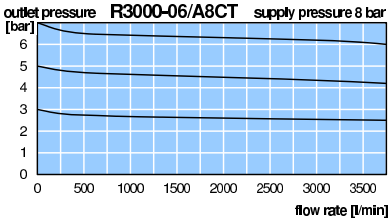
Accessories, see following pages

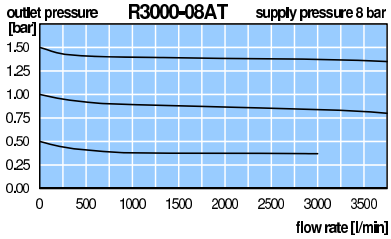


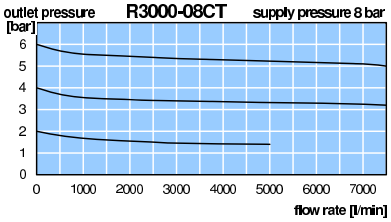
R3000-06/-A8



R3000-08/-10/-1A







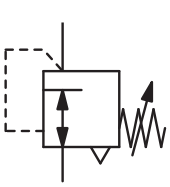
*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

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, 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

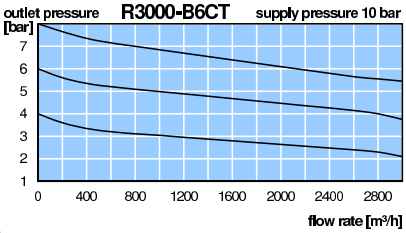
R3000-12/-B6, accessory: gauge

R3000-16, accessory: gauge

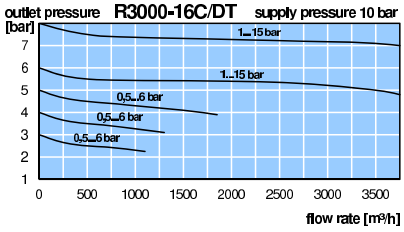
SST Pressure regulator

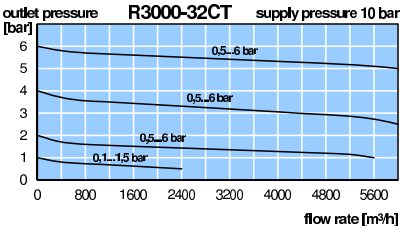
supply pressure max. 30/50 bar, non-relieving, PTFE diaphragm and FKM o-ring

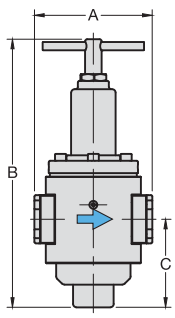
Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	K_v value (m^3/h)	Flow rate m^3/h*1	l/min*1	P_1 max. bar	Connection thread G	Pressure range bar	Order number R3000
171	390	128	P	12.6	900	15000	30	G1½	0.1 ... 1.5	-12AT
									0.2 ... 3.0	-12BT
									0.5 ... 8.0	-12CT
							50		1.0 ... 15	-12ET
171	400	128	P	12.6	900	15000	50		2.0 ... 30	-12GT
									3.0 ... 50	-12LT
171	390	128	P	12.6	900	15000	30	G2	0.1 ... 1.5	-B6AT
									0.2 ... 3.0	-B6BT
									0.5 ... 8.0	-B6CT
							50		1.0 ... 15	-B6ET
171	400	128	P	12.6	900	15000	50		2.0 ... 30	-B6GT
									3.0 ... 50	-B6LT
171	421	128	D	21.0	1800	30000	30	G2	0.1 ... 1.5	-16AT
									0.5 ... 6.0	-16CT
171	417	128	D	21.0	1800	30000	30		1.0 ... 15	-16DT
389	425	118	D	48.0	4500	75000	30	DN80	0.1 ... 1.5	-24AT
									0.5 ... 6.0	-24CT
									1.0 ... 15	-24DT
389	425	118	D	56.0	5500	90000	30	DN100	0.1 ... 1.5	-32AT
									0.5 ... 6.0	-32CT
									1.0 ... 15	-32DT



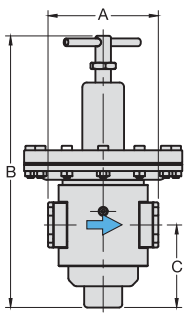
Accessories, see following pages



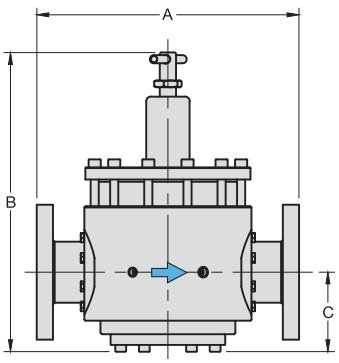




R3000-12/-B6



R3000-16(A,C)



R3000-24/-32

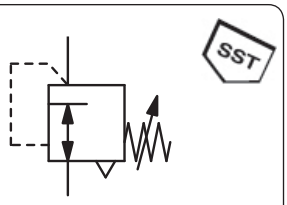
*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

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, 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

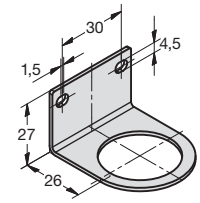


G⅛ up to G2 / DN100
gases or liquids

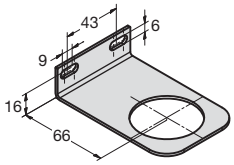
Dimensions A	B	C	Regul. system D: diaphragm P: piston	K_v value	Flow rate	P_1 max.	Connection thread	Pressure range	Order number
mm	mm	mm		(m^3/h)	m^3/h*1 l/min*1	bar	G	bar	

Special options, add the appropriate letter or number

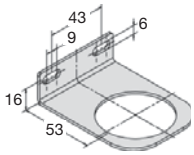
NPT	connection thread	for G⅛ and G¼ (A2)	R3000- . . . **.N**
NPT	connection thread	for G¼ (02) to G2	R3000- . . . **.N**
with T-handle	instead of hexagonal screw	for G¼ (02) to G½	R3000- . . . **.P**
diaphragm, relieving		up to G1	R3000- . . . **.R**
piston, relieving			R3000- . . . **.R**
tapped exhaust		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**
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		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_6		R3000- . . . **.16**
nitrous oxide	N_2O		R3000- . . . **.17**
water	H_2O		R3000- . . . **.W**
flange connection	see end of the chapter / flanges		R3000- . . . **.F.**



BW30-03S



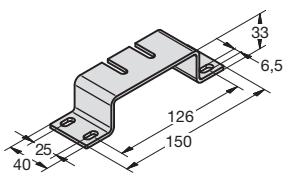
BW45-03S



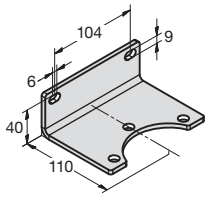
BW50-01S

Accessories

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)	**M30x1,5S**
mounting bracket		for G¼ (02), G⅜, G¾ and G1 (A8)	**BW45-03S**
mounting nut		for G¼ (02), G⅜, G¾ and G1 (A8)	**M45x1,5S**
mounting bracket		for G½	**BW50-01S**
mounting nut		for G½	**M50x1,5S**
mounting bracket		for G1 (08) + G1½ (1A)	**BW00-59S**
		for G1½ (12) + G2 (B6)	**BW00-62S**



BW00-59S



BW00-62S

*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

Gauges: see chapter for measuring devices

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Order example:
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