R3000 - Régulateur de pression en inox 316L - Gaz & Liquides - G1/8" à DN100, 60 bar siège FKM, EPDM, SST, compatible avec de nombreux gaz ou liquides

Régulateur de Pression en Acier Inoxydable R3000 haute performance jusqu'à 60 bar
Vous êtes sur la page de présentation de l'article **R3000**.
Veuillez choisir une version dans les tableaux proposés en pages suivantes.

Description :
Le **régulateur de pression R3000** est conçu en **acier inoxydable** et peut être à **diaphragme ou à piston**, selon les besoins d'application. Il offre une **régulation de pression précise** jusqu'à **60 bar**.

Médias compatibles :
- **air comprimé**
- **gaz industriels (oxygène, azote, CO2, hydrogène, méthane, argon…)**
- **liquides spécifiques**

Pression d'alimentation :
- **jusqu'à 60 bar** (voir tableau pour les différentes versions)
- **delta P max. = 25 bar pour les liquides**

Options de réglage :
- **vis de réglage** pour les modèles **R3000-01 à -A8 et -24 à -32**
- **poignée en T** pour les modèles **R3000-08 à -16C**

Fonction de décharge :
- **non-détendue** (standard, non relieving)
- **décompression automatique** sur option (relieving)

Ports de manomètre :
- **G1/8** pour **R3000-01 et -A2**
- **G1/4** sur les autres modèles (des deux côtés du corps, avec un bouchon fourni)

Plage de température :
- **version standard : 0°C à 80°C (FKM ou EPDM)**
- **version haute température : 0°C à 130°C**
- **version basse température :** jusqu'à **-40°C**

Certifications disponibles :
- FDA, ATEX, 2014/68/EU, REACH, ROHS

Matériaux de construction :
- **corps : acier inoxydable 316L (1.4404)**
- **membrane : NBR/Buna-N avec revêtement PTFE (option acier inoxydable)**
- **joints toriques : FKM (option EPDM)**
- **pièces internes :** acier inoxydable 316L (**1.4404**)

Pourquoi choisir le régulateur R3000 ?
- **fiabilité et robustesse grâce à l'acier inoxydable 316L**
- **compatibilité avec les gaz et liquides industriels**
- **adapté aux applications haute pression jusqu'à 60 bar**
- **régulation précise avec différentes options de réglage**
- **disponible avec plusieurs tailles de filetage (G1/8 à G2, DN100)**

Domaines d'applications du R3000 :
- **industrie chimique, pharmaceutique, agroalimentaire**
- **traitement des gaz industriels et systèmes haute pression**
- **systèmes hydrauliques et pneumatiques**
- **applications haute température jusqu'à 130°C**

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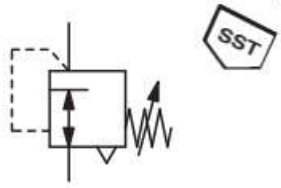
R3000 - Régulateur de pression en inox 316L - Gaz & Liquides - G1/8" à DN100, 60 bar siège FKM, EPDM, SST, compatible avec de nombreux gaz ou liquides

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



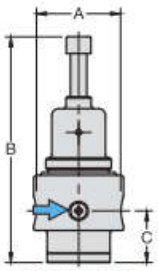
G⅛ up to G2 / DN100 gases or liquids

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
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

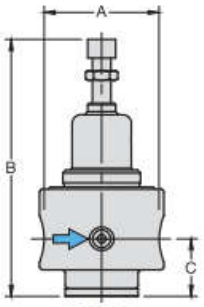
R3000-01/-A2

R3000-04

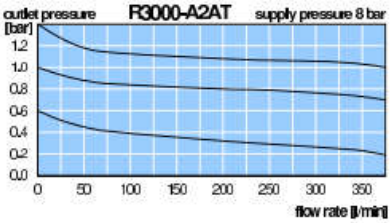
Accessories, see following pages

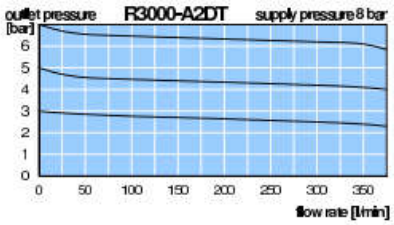


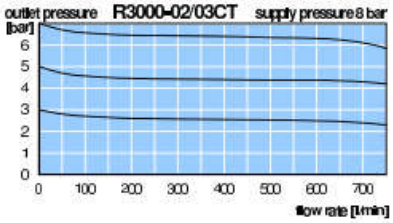
R3000-02/-03

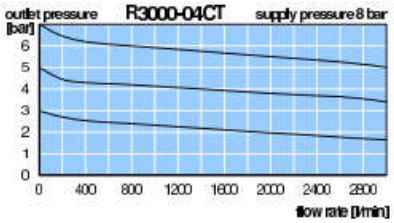


R3000-04









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

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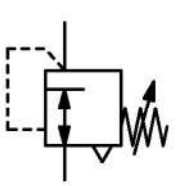
Description	Pressure regulator made of stainless steel, diaphragm- or piston-operated, up to P_1 = 60 bar.
Media	compressed air, gases or liquids
Supply pressure	see chart, max. 60 bar, for liquids $\Delta p_{max.}$ = 25 bar
Adjustment	by adjusting screw at R3000-01 to -A8, and -24 to -32 by T-handle 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

SST Pressure regulator

supply pressure max. 30/60 bar, non-relieving, PTFE diaphragm and FKM o-ring

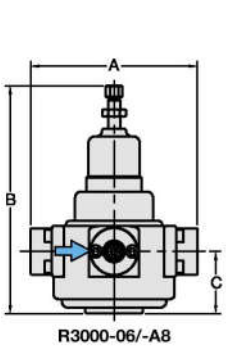
Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	K_v value (m^3/h)	Flow rate m^3/h*1	l/min*1	P_1 max. bar	Connection thread G	Pressure range bar	Order number R3000
137	187	51	P	3.0	228	3800	30	G¾	0.1…1.5	R3000-06AT
									0.2…3.0	R3000-06BT
									0.5…8.0	R3000-06CT
							50		1.0… 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


R3000-06/-A8, accessory: gauge

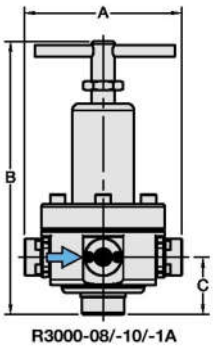

R3000-08/-10/-1A, accessory: gauge


R3000-06/A8.TF.

Accessories, see following pages

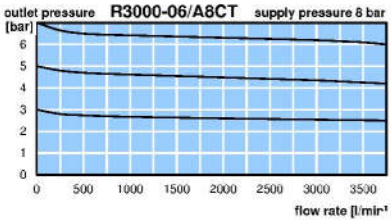


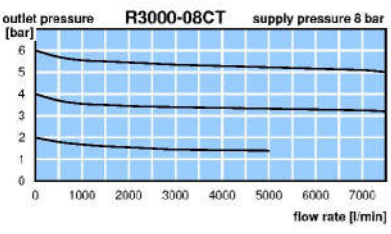
R3000-06/-A8

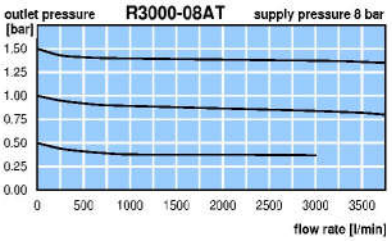


R3000-08/-10/-1A

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







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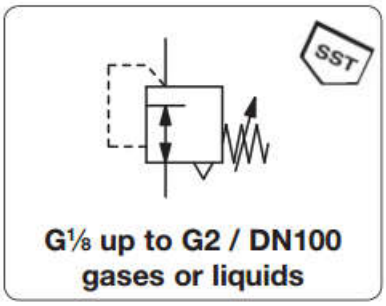
Description	Pressure regulator made of stainless steel, diaphragm- or piston-operated, up to P_1 = 60 bar.
Media	compressed air, gases or liquids
Supply pressure	see chart, max. 60 bar, for liquids $\Delta p_{max.}$ = 25 bar
Adjustment	by adjusting screw at R3000-01 to -A8, and -24 to -32 by T-handle 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

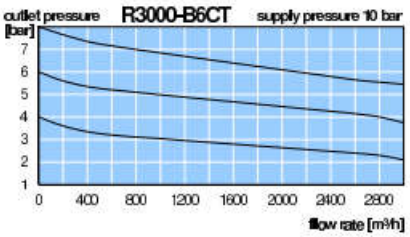
SST Pressure regulator

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

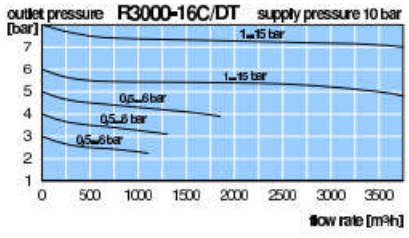
Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	K_v value (m^3/h)	Flow rate m^3/h*1	Flow rate l/min*1	P_1 max. bar	Connection thread G	Pressure range bar	Order number R3000
171	390	128	P	12.6	900	15000	30	G1½	0.1 ... 1.5	R3000-12AT
									0.2 ... 3.0	R3000-12BT
									0.5 ... 8.0	R3000-12CT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

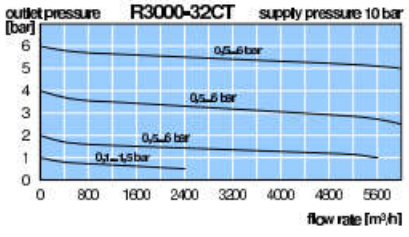
R3000-12/-B6, accessory: gauge

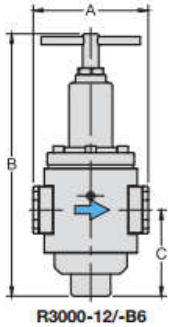
R3000-16, accessory: gauge



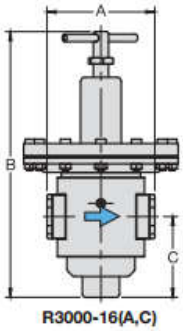
Accessories, see following pages



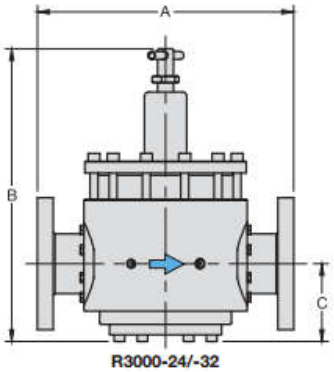




R3000-12/-B6



R3000-16(A,C)



R3000-24/-32

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

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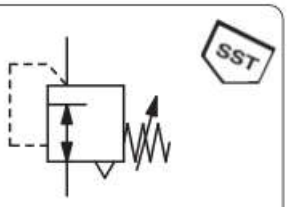
Media	compressed air, gases or liquids
Supply pressure	see chart, max. 60 bar, for liquids $\Delta p_{max.}$ = 25 bar
Adjustment	by adjusting screw at R3000-01 to -A8, and -24 to -32 by T-handle at R3000-08 to -16C, with pilot-regulator by adjusting screw at -16D
Relieving function	non-relieving, optionally 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

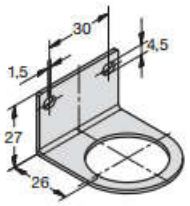


G⅛ up to G2 / DN100
gases or liquids

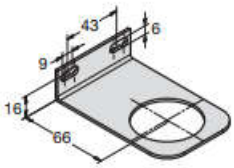
Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	K_v value (m^3/h)	Flow rate m^3/h*1 l/min*1	P_1 max. bar	Connection thread G	Pressure range bar	Order number

Special options, add the appropriate letter or number

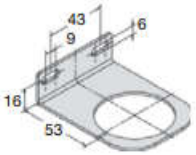
NPT	connection thread	for G⅛ and G¼ (A2)	R3000- . . . .**N**
NPT	connection thread	for G¼ (02) to G2	R3000- . . . .**N**
with T-handle	instead of hexagonal screw	for G¼ (02) to G½	R3000- . . . .**P**
diaphragm, relieving		up to G1	R3000- . . . .**R**
piston, relieving			R3000- . . . .**R**
tapped exhaust		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_8		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



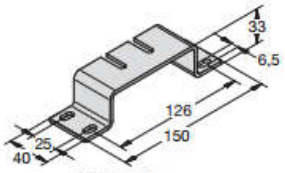
BW45-03S



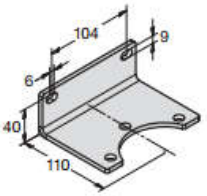
BW50-01S

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

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