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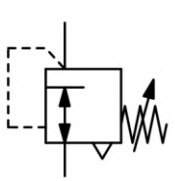
R3000 - Régulateur de pression en inox 316L - Gaz & Liquides - G1/8" à DN100, 60 bar siège FKM, EPDM, SST, compatible avec de nombreux gaz ou liquides

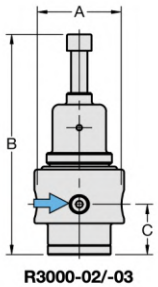
Description	Pressure regulator made of stainless steel, diaphragm- or piston-operated, up to P_1 = 60 bar.
Media	compressed air, gases or liquids
Supply pressure	see chart, max. 60 bar, for liquids $\Delta p_{max.}$ = 25 bar
Adjustment	by adjusting screw at R3000-01 to -A8, and -24 to -32 by T-handle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



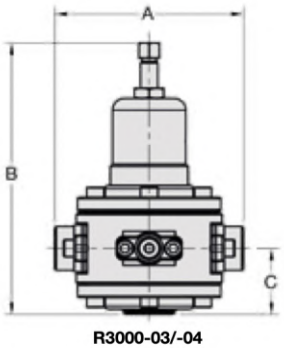
G⅛ up to G2 / DN100 gases or liquids

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	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**

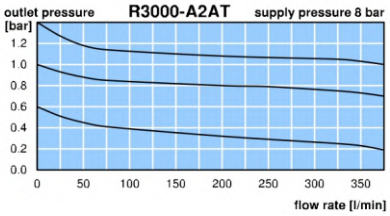
Accessories, see following pages

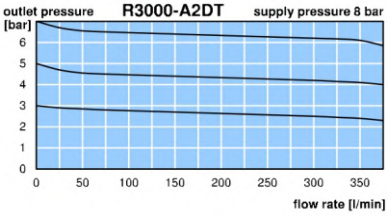


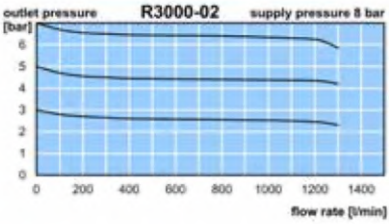
R3000-02/-03



R3000-03/-04







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

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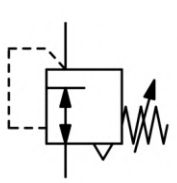
R3000 - Régulateur de pression en inox 316L - Gaz & Liquides - G1/8" à DN100, 60 bar siège FKM, EPDM, SST, compatible avec de nombreux gaz ou liquides

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

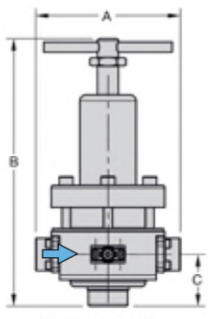
Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	K_v value (m^3/h)	Flow rate m^3/h*1	l/min*1	P_1 max. bar	Connection thread G	Pressure range bar	Order number
SST Pressure regulator					supply pressure max. 30/50/60 bar, non-relieving, PTFE diaphragm and FKM o-ring					**R3000**
137	187	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

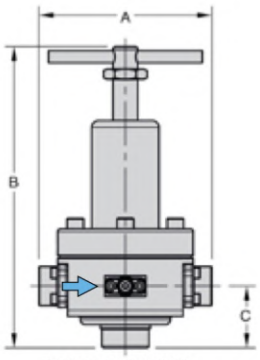
R3000-08/-10/-1A

R3000-06/A8.TF.

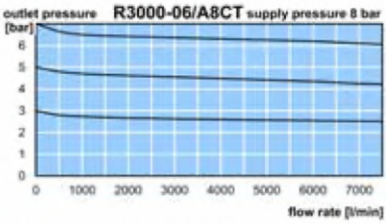
Accessories, see following pages

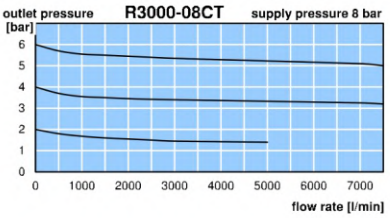


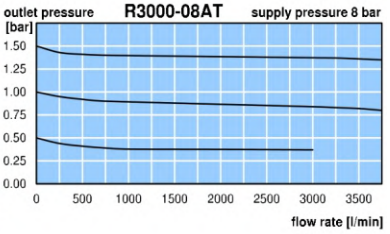
R3000-06/-A8



R3000-08/-10/-1A







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

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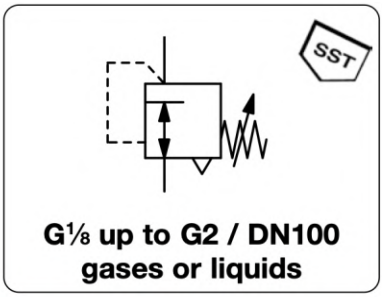
Description	Pressure regulator made of stainless steel, diaphragm- or piston-operated, up to P_1 = 60 bar.
Media	compressed air, gases or liquids
Supply pressure	see chart, max. 60 bar, for liquids $\Delta p_{max.}$ = 25 bar
Adjustment	by adjusting screw at R3000-01 to -A8 by T-handle at R3000-08 to -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

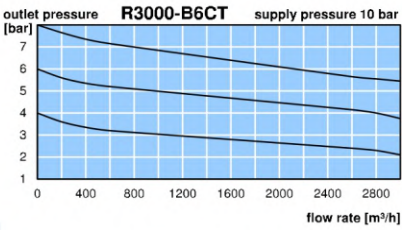


G⅛ up to G2 / DN100 gases or liquids

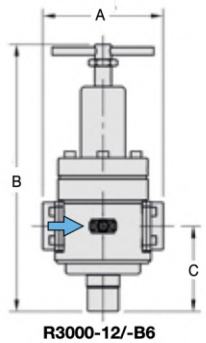
Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	K_v value (m^3/h)	Flow rate m^3/h*1	l/min*1	P_1 max. bar	Connection thread G	Pressure range bar	Order number
SST Pressure regulator supply pressure max. 30/50 bar, non-relieving, PTFE diaphragm and FKM o-ring										**R3000**
174	393	126	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**

R3000-12/-B6

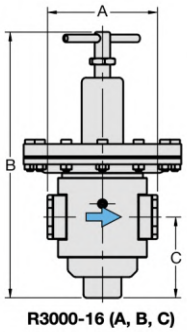
R3000-16 (A, B, C)
accessory: gauge



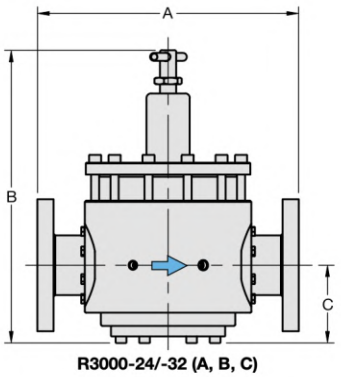
Accessories, see following pages



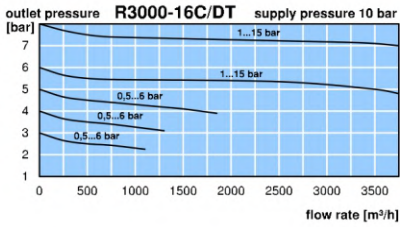
R3000-12/-B6

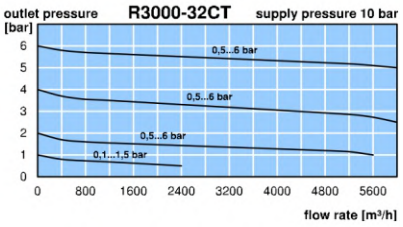


R3000-16 (A, B, C)



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





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

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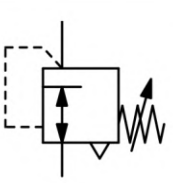
Description	Pressure regulator made of stainless steel, diaphragm- or piston-operated, up to P_1 = 60 bar.
Media	compressed air, gases or liquids
Supply pressure	see chart, max. 60 bar, for liquids $\Delta p_{max.}$ = 25 bar
Adjustment	by adjusting screw at R3000-01 to -A8 by T-handle at R3000-08 to -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

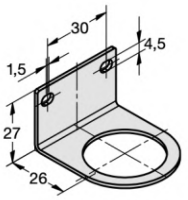


G⅛ up to G2 / DN100
gases or liquids

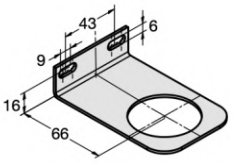
Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	K_v value (m^3/h)	Flow rate m^3/h*1	l/min*1	P_1 max. bar	Connection thread G	Pressure range bar	Order number

Special options, add the appropriate letter or number

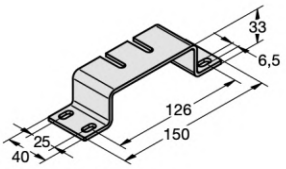
NPT	connection thread		R3000- . . . .**N**
with T-handle	instead of hexagonal screw	for G¼ (02) to G1 (A8)	R3000- . . . .**P**
relieving			R3000- . . . .**R**
tapped exhaust		for R3000-01/A2	R3000- **X12**
down to -40 °C	low temperature version	from G¼ (02) on	R3000- **X51**
up to 130 °C	high temperature 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



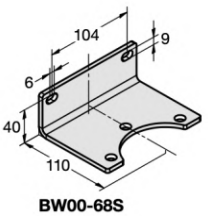
BW45-03S



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

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