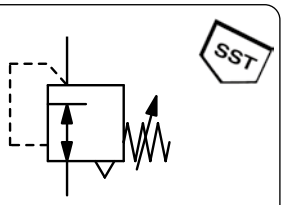
STAINLESS STEEL DEVICES

	DESCRIPTION	PRESSURE RANGE bar	CONNECTION thread	DEVICE	PAGE
PRESSURE REGULATOR	Midi-Series	0.2 ... 4.0 / 17	G½	R10-S	**15.02**
	Mini-Series	0.2 ... 1.8 / 9	G¼	R364-S	**15.03**
	for clean room enviroment, precise	0.05 ... 2 / 4	M5 and G⅛	RE1	**15.04**
	precise, also FDA	0.02 ... 1.5 / 10	G¼ and G½	R3150	**15.05**
	many variations, also FDA	0.1 ... 1.5 / 50	G⅛ - G2	R3000	**15.06**
	with flange	0.2 ... 3 / 16	DN15 - DN50	REF	**15.10**
	also FDA	0.2 ... 3 / 16	G¼ - G2	REA	**15.11**
	low pressure	0.005 ... 0.045 / 3	G½ - G2	R3100	**15.12**
VOLUME BOOSTER	for many gases	1 ... 15 / 50	G¼ - G2	R3000-J	**15.22**
	with ratio	3 ... 42 / 104	½″NPT and ¾″NPT	RH3-JS1	6.12
	pressure reducer	0.1 ... 24 / 99	G1	RLE	6.14
BACK PRESSURE REG.	for many gases	0.1 ... 1.5 / 50	G⅛ - G2	D3000	**15.24**
	low pressure	0.005 ... 0.045 / 3	G½ - G2	D3100	**15.28**
HIGH PRESSURE REG.	for many gases	1 ... 8 / 200	G¼ - G1¼	RH3000	**15.18**
	Tri-Clamp	0.2 ... 1,5 / 8	ASME-BPE ½″ -1½″	RTC	**15.20**
	differential pressure regulator	0 ... 1 / 24	½″NPTand ¾″NPT	RH44-S	**15.21**
	regulator P1: 241 bar	0 ... 2 / 7	⅛″NPTand ¼″NPT	RH0-S	4.15
	regulator P1: 690 bar	0.3 ... 35 / 414	¼″NPT	HP300-S	4.17
	regulator P1: 414 bar	0.7 ...104 / 172	¼″NPT	HP400-S	4.17
	regulator P1: 300 bar	0.1 ... 1.7 / 35	¼″NPT	HP500-S	4.18
	regulator P1: 260 bar	0.7 ... 21 / 104	½″NPTand ¾″NPT	RH3-S	4.19
FOR PHARMACY	and food	0.25 ... 0.46 / 53	G¼ - G2½	R70	**15.14**
	low pressure	0.005 ... 0.007 / 0.45	G¼ - G2½	R74	**15.16**
FRL SERVICE UNITS	FR, for many gases, also FDA	0.8 ... 1.5 / 15	G⅛ - G2	B3000	**15.30**
	FR, Mini- and Midi-Series	0.2 ... 1.8 / 17	G¼ and G½	B548-S, B11-S	**15.32**
	lubricator	max. 50	G⅛ - G2	L3000	**15.33**
	filter, also FDA	max. 50	G⅛ - G2	F3000	**15.34**
	FRL	0.5 ... 8 / 15	G⅛ - G2	C3002, C3003	**15.38**
	FRL, Mini- and Midi-Series	max. 21	G¼ and G½	C10-S, F10-S, L10-S	**15.40**
	filter	max. 220	G¼ - G1	FH3	**15.36**
PINCH VALVES	2/2-solenoid valve	max. 4	G¼ - G2	QE	**15.37**
MOUNTING FLANGES	single or mounted	up to PN100 / ANSI	G½ - G3	F / VS	**15.41**

STAINLESS STEEL PRESSURE REGULATOR R10-S

Description	diaphragm-operated pressure regulator in small design
Media	compressed air, gases or liquids
Supply pressure	max. 21 bar
Adjustment	by plastic knob with snap-lock
Relieving function	relieving, optionally non-relieving
Gauge port	G¼ on both sides of the body, screw plugs supplied
Mounting position	any
Temperature range	0 °C to 65 °C / 32 °F to 149 °F, for appropriately conditioned compressed air down to -30 °C / -22 °F 0 °C to 80 °C / 32 °F to 176 °F for spring cage made of fiberglass or stainless steel
Material	Body: stainless steel 316 Spring cage: glass fibre-reinforced plastic Elastomer: FKM Inner valve: stainless steel 316



G½
gases or liquids

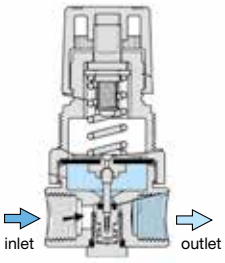
Dimensions A mm	B mm	C mm	Description value	Kv-rate (m³/h)	Flow thread m³/h*1	Flow thread l/min*1	Connection range G	Pressure number bar	Order
Stainless steel pressure regulator supply pressure max. 21 bar									**R10-S**
60	124	35	relieving for compressed air	2.6	180	3000	G½	0.2…4.0	**R10-04BS**
								0.3…9.0	**R10-04CS**
								0.5… 17	**R10-04DS**
60	124	35	non-relieving for liquids	2.6	2.6	43	G½	0.2…4.0	**R10-04BSK**
								0.3…9.0	**R10-04CSK**
								0.5… 17	**R10-04DSK**

R10-S

SST
SST
15

Special options, add the appropriate letter

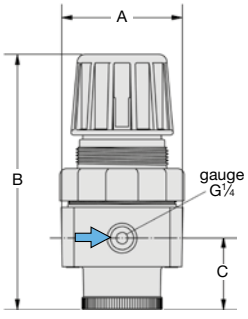
NPT	connection thread	R1. -0. . . **N**
spring cage made of SST	incl. SST-adjusting screw, total height= 154 mm	R**11**-04 . .



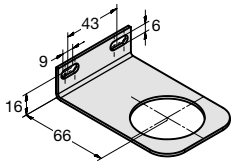
cross-section

Accessories, enclosed

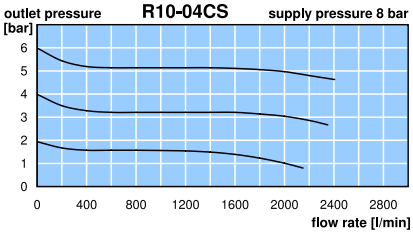
pressure gauge	Ø 50 mm, 0…*2 bar, G¼	**MS5002-..***2
mounting bracket		**BW45-03S**
mounting nut		**M45X1,5S**



R10-S



BW45-03S



*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, **10** = 0…10 bar, **16** = 0…16 bar, **25** = 0…25 bar

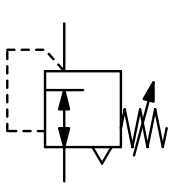
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example
R10-04BS

STAINLESS STEEL PRESSURE REGULATOR R364-S

Description	diaphragm-operated pressure regulator in small design
Media	compressed air, gases or liquids
Supply pressure	max. 21 bar
Adjustment	by plastic knob with snap-lock, by hexagonal spindle at R354
Relieving function	relieving, optionally non-relieving
Gauge port	G¼ on both sides of the body, screw plugs supplied
Mounting position	any
Temperature range	0 °C to 65 °C / 32 °F to 149 °F, for appropriately conditioned compressed air down to -30 °C / -22 °F 0 °C to 80 °C / 32 °F to 176 °F for spring cage made of fiberglass or stainless steel
Material	Body: stainless steel 316 Spring cage: glass fibre-reinforced plastic at R364, stainless steel 316 at R354, optionally fibreglass at R364 Elastomer: FKM Inner valve: stainless steel 316



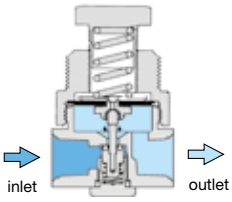
G¼
gases or liquids

Dimensions A mm	B mm	C mm	Description	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread G	Pressure range bar	Order number
Stainless steel pressure regulator supply pressure max. 21 bar									**R364-S**
35	75	13	relieving	0.4	27	450	G¼	0.2…1.8	**R364-02AS**
			for compressed air					0.2…4.0	**R364-02BS**
								0.3…9.0	**R364-02CS**
35	75	13	non-relieving	0.4	0,4	6	G¼	0.2…1.8	**R364-02ASK**
			for liquids					0.2…4.0	**R364-02BSK**
								0.3…9.0	**R364-02CSK**

R354-S **R364-S**

Special options, add the appropriate letter

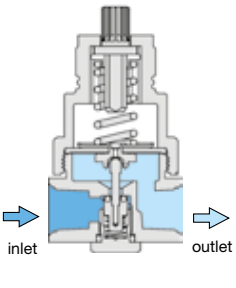
NPT	connection thread	R.. -0...**N**
free of oil and grease	specially cleaned	R3.4-0...**L**
spring cage made of SST	incl. SST-adjusting screw, total height = 60 mm	R354-02..



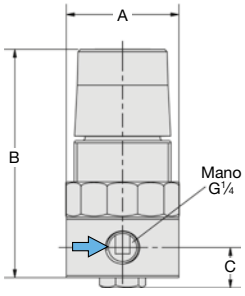
cross-section R354-S

Accessories, enclosed

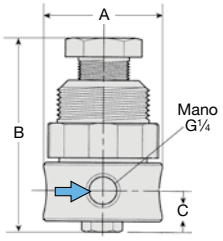
pressure gauge	Ø 40 mm, 0…*2 bar, G¼	**MS4002-..*2**
mounting bracket		**BW30-03S**
mounting nut	made of stainless steel	**M30x1,5S**
	made of plastic	**M30x1,5K**



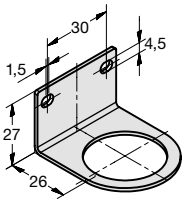
cross-section R364-S



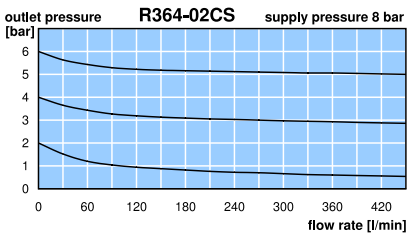
R364-S



R354-S



BW30-03S



*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, **10** = 0…10 bar, **16** = 0…16 bar, **25** = 0…25 bar

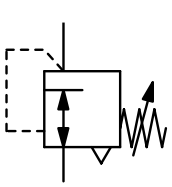
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
R364-02AS

SST PRECISION PRESSURE REGULATOR, FOR CLEAN ROOM ENVIRONMENT RE1

Description	Diaphragm pressure regulator made of stainless steel suitable for cleanroom environment and panel mounting.		
Media	compressed air or gases	**Supply pressure**	max. 10 bar
Accuracy	setting accuracy: < 0.3% FS	**Repeatability:**	< 1% FS
Air consumption	max. 0.5 l/min, subject to outlet pressure The compressed air can be directly transmitted into the cleanroom without any piping.		
Adjustment	by plastic knob with snap-lock		
Relieving function	relieving	**Mounting position**	any
Gauge port	M5 or G⅛ on both sides of the body, depending on connection thread, screw plugs supplied		
Clean room condition	Cleaned, assembled, inspected and sealed in a class 10,000 environment. All parts without oil use. HFC1416 ultrasonic cleaning of all fluid-contact parts.		
Temperature range	0 °C to 60 °C / 32 °F to 140 °F		
Material	Body: stainless steel 316, material no. 1.4436	Elastomer:	FKM
	Spring cage: PPS plastic	Valve seat:	PTFE



M5 and G⅛
0.05 … 2 / 4 bar

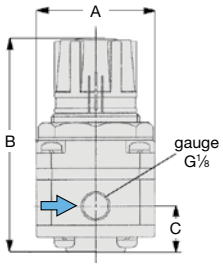
Dimensions A mm	B mm	C mm	K_v-value (m³/h)	Flow rate m³/h*1	l/min*1	Connection thread M5/G	Pressure range bar	Order number
Precision pressure regulator				supply max. 10 bar, relieving, with internal air consumption				**RE1**
30	75	14	0,20	3.6	60	M5	0.05 … 2	**RE1-M5B**
							0.10 … 4	**RE1-M5C**
40	75	15	0,25	6	100	G⅛	0.05 … 2	**RE1-01B**
							0.10 … 4	**RE1-01C**

RE1-M5C, incl. mounting nut

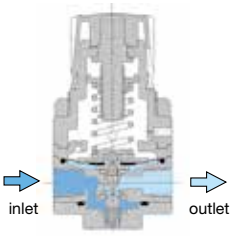
RE1-01C, incl. mounting nut

Accessories, enclosed

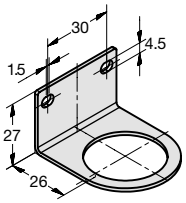
mounting bracket	mounting nut at the device	**BW30-03S**



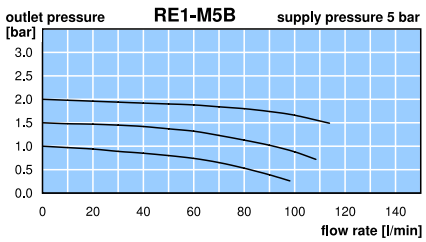
RE1

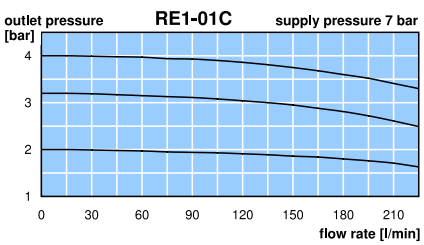


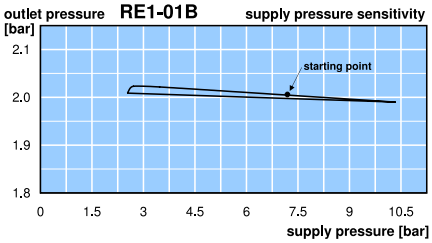
cross-section



BW30-03S







*1 at 7 bar supply pressure and 4 bar outlet pressure

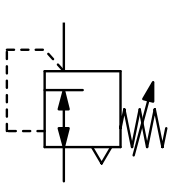
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
RE1-M5B

STAINLESS STEEL PRECISION PRESSURE REGULATOR R3150

Description	Diaphragm pressure regulator made of stainless steel in robust design. Pre-pressure compensated and independent of supply pressure fluctuation.
Media	compressed air, gases or liquids
Supply pressure	see chart, max. 16 bar
Accuracy	setting accuracy: < 0.5% FS; **Repeatability:** < 1.5% FS
Air Consumption	without air consumption
Adjustment	by adjusting screw, with lock nut
Relieving function	relieving, optionally non-relieving
Gauge port	G¼ on both sides of the body, one screw plug supplied
Mounting position	any
Temperature range	0 °C to 80 °C / 32 °F to 176 °F ,for appropriately conditioned compressed air down to -20 °C / -4 °F
Material	Body: stainless steel 316L, W.-Nr. 1.4436 O-ring: FKM Diaphragm: NBR/Buna-N with PTFE coating Internal parts: stainless steel 302



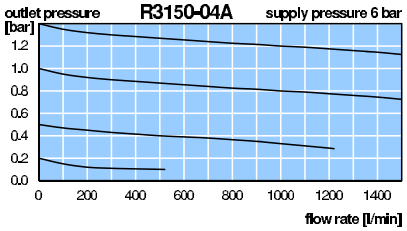
G¼ to G½, FDA gases or liquids

Dimensions A mm	B mm	C mm	Flow rate m³/h*1	l/min*1	Supply pressure max. bar	Connection thread G	Pressure range bar	Order number
Precison pressure regulator supply pressure max. 10 bar, relieving								**R3150**
105	158	39	48	800	10	G¼	0.02…1.5	**R3150-02A**
			84	1400	10		0.03…3.0	**R3150-02B**
			132	2600	16		0.05… 10	**R3150-02C**
80	158	39	72	1200	10	G½	0.02…1.5	**R3150-04A**
			108	1800	10		0.03…3.0	**R3150-04B**
			156	2600	16		0.05… 10	**R3150-04C**

R3150-02
Accessory: pressure gauge

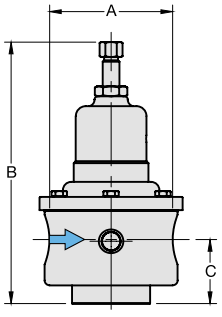
Special options, add the appropriate letter or number

NPT	connection thread	R3150-0. .**N**
non-relieving	for liquids	R3150-0. .**K**
EPDM o-ring		R3150-0. .**E**
EPDM o-ring	FDA approval	R3150-0. .**TD**
SST diaphragm	FKM o-ring	R3150-0. . .**S**
	EPDM o-ring	R3150-0. . .**SE**
ammoni	NH_3	R3150-0. . .K**02**
carbon dioxide	CO_2	R3150-0. . .K**03**
argon	Ar	R3150-0. . .K**05**
nitrogen	N_2	R3150-0. . .K**07**
helium	He	R3150-0. . .K**09**
hydrogen	H_2	R3150-0. . .K**11**
methane	CH_4	R3150-0. . .K**13**
natural gas *3		R3150-0. . .K**14**
oxygen	O_2	R3150-0. . .K**15**
propane	C_3H_8	R3150-0. . .K**16**
nitrous oxide	N_2O	R3150-0. . .K**17**
water	H_2O	R3150-0. . .K**W**

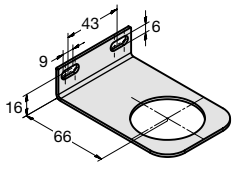


Accessories, enclosed

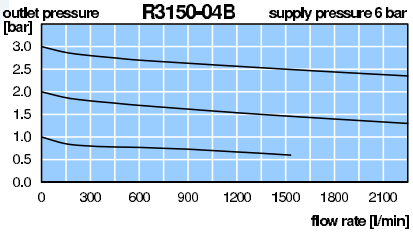
pressure gauge	Ø 50 mm, 0…*2 bar, G¼	**MS5002-..*2**
mounting bracket		**BW45-03S**
mounting nut		**M45x1,5S**

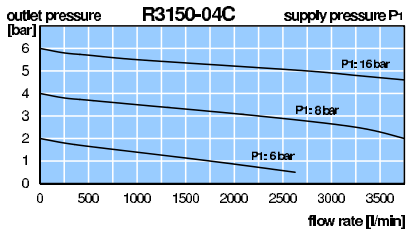


R3150



BW45-03S





*1 see diagramm

*2 **02** = 0…2.5 bar, **04** = 0…4 bar, **10** = 0…10 bar *3 without DVGW-approval

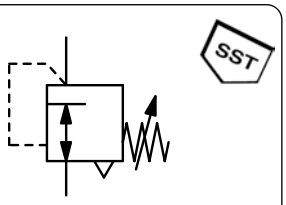
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example: R3150-02A

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

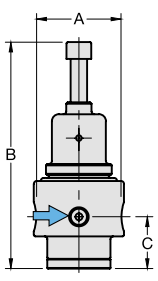
Dimensions A mm	B mm	C mm	Regul. system D: Diaphragm P: Piston	K_v value (m^3/h)	Flow rate m^3/h*1	l/min*1	P_1 max. bar	Connection thread G	Pressure range bar	Order number
SST Pressure regulator			supply pressure max. 30/50 bar, non-relieving, PTFE diaphragm and FKM o-ring							**R3000**
40	92	22	D	0.2	20	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	92	22	D	0.2	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	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

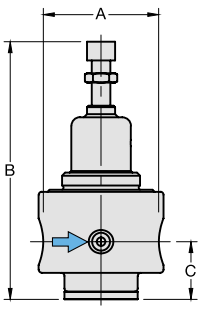
R3000-02/-03

R3000-04

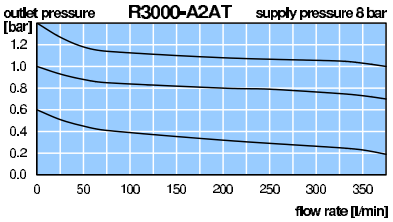
Accessories, see following pages

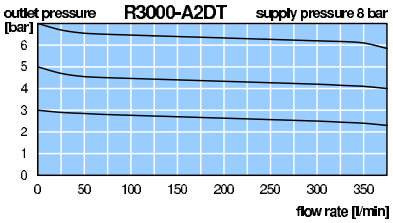


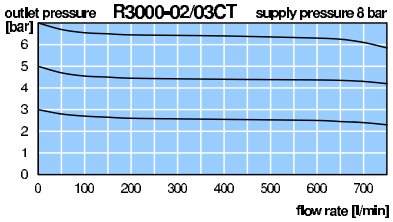
R3000-02/-03

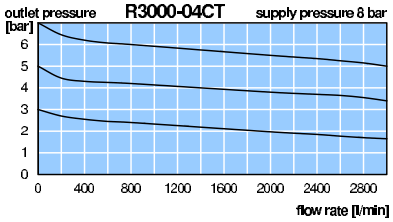


R3000-04









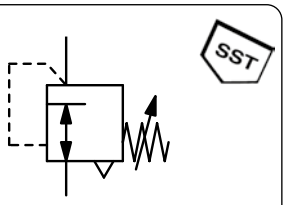
*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

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

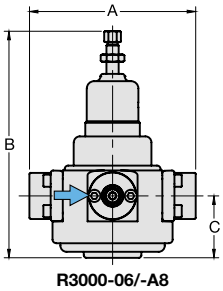
Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	K_v value (m^3/h)	Flow rate m^3/h*1	l/min*1	P_1 max. bar	Connection thread G	Pressure range bar	Order number
SST Pressure regulator			supply pressure max. 30/60 bar, non-relieving, PTFE diaphragm and FKM o-ring							**R3000**
137	187	51	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

R3000-06/-A8

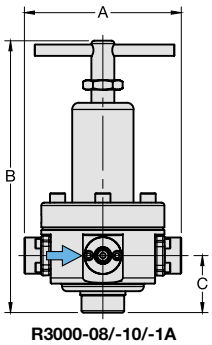
R3000-08/-10/-1A

R3000-06/A8.TF.

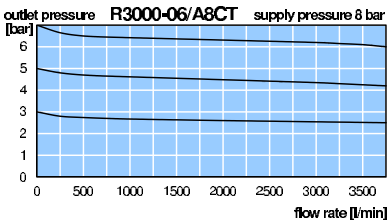
Accessories, see following pages

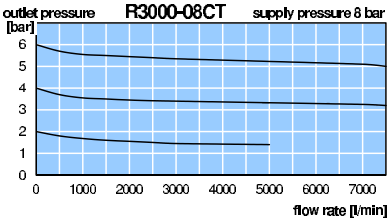


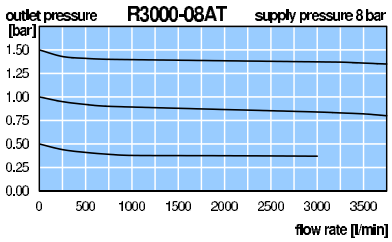
R3000-06/-A8



R3000-08/-10/-1A







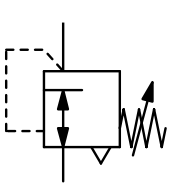
*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

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

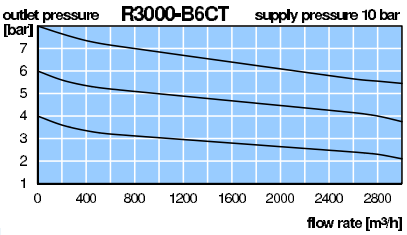


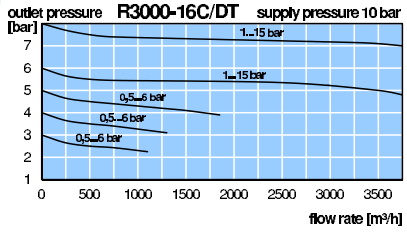
G⅛ up to G2 / DN100
gases or liquids

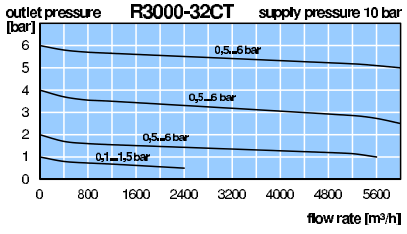
Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	K_v value (m^3/h)	Flow rate m^3/h*1	l/min*1	P_1 max. bar	Connection thread G	Pressure range bar	Order number
SST Pressure regulator					supply pressure max. 30/50 bar, non-relieving, PTFE diaphragm and FKM o-ring					**R3000**
171	390	128	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

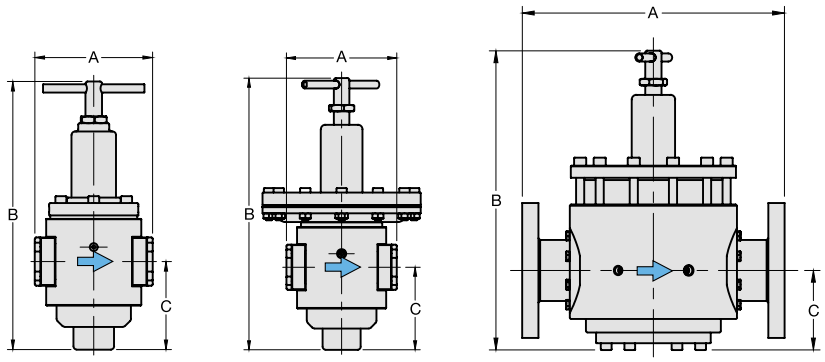
R3000-16, accessory: gauge







Accessories, see following pages



R3000-12/-B6 R3000-16(A,C) R3000-24/-32

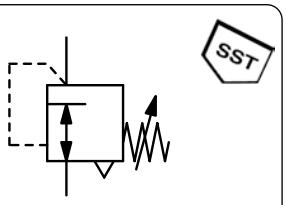
*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

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

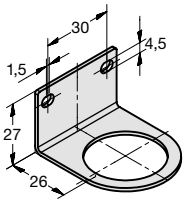


G⅛ up to G2 / DN100
gases or liquids

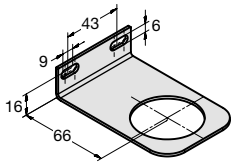
Dimensions A	B	C	Regul. system D: diaphragm P: piston	K_v value (m^3/h)	Flow rate m^3/h*1	l/min*1	P_1 max. bar	Connection thread G	Pressure range bar	Order number
mm	mm	mm								

Special options, add the appropriate letter or number

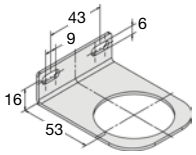
NPT	connection thread	for G⅛ and G¼ (A2)	R3000- . . . .**N**
NPT	connection thread	for G¼ (02) to G2	R3000- . . . .**N**
with T-handle	instead of hexagonal screw	for G¼ (02) to G½	R3000- . . . .**P**
diaphragm, relieving		G1½ (1A)	R3000- . . . .**R**
piston, relieving			R3000- . . . .**R**
tapped exhaust		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



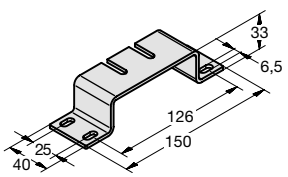
BW45-03S



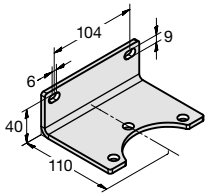
BW50-01S

Accessories, 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)	**M30x1,5S**
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

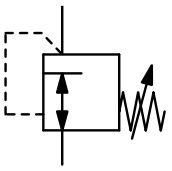
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
MS4001-02

PRESSURE REGULATOR WITH FLANGE, MADE OF SPECIAL STEEL CASTING REF

Description	Diaphragm-operated pressure regulator made of stainless steel throughout. Even when spindle is unscrewed the indicated minimum outlet pressure is existent.
Media	compressed air, neutral gases or liquids
Supply pressure	see chart, max. 25 bar
Adjustment	by T-handle, with locknut
Relieving function	non-relieving
Gauge port	G¼ on both sides of the body, one screw plug supplied
Mounting position	any
Temperature range	0 °C to 120 °C / 32 °F to 248 °F for FKM, for appropriately conditioned compr. air down to -30 °C / -22 °F 0 °C to 150 °C / 32 °F to 302 °F for EPDM, for appropriately conditioned compr. air down to -30 °C / -22 °F
Material	Body: stainless steel 316L, mat. no. 1.4408 Diaphragm: FKM, optionally EPDM or PTFE



DN 15 up to DN 50, FDA liquids or gases

Pressure regulator with flange

for liquids, P_1: max. 8/25 bar, non-relieving, FKM, PN 40

Dimensions A mm	B mm	C mm	K_v-value (m^3/h)	Flow rate air l/min*1	water l/min*1	Supply pressure max. bar	Connection flange DN	Pressure range bar	Order number REF
210	255	95	4.0	4200	66	8	DN 15	0.2 ... 3.0	**REF-04B**
						25		2.0 ... 10	**REF-04D**
						25		6.0 ... 16	**REF-04E**
220	260	105	4.0	4200	66	8	DN 20	0.2 ... 3.0	**REF-06B**
						25		2.0 ... 10	**REF-06D**
						25		6.0 ... 16	**REF-06E**
220	265	115	4.0	4200	66	8	DN 25	0.2 ... 3.0	**REF-08B**
						25		2.0 ... 10	**REF-08D**
						25		6.0 ... 16	**REF-08E**
220	273	115	7.5	8000	125	8	DN 25	0.2 ... 3.0	**REF-A8B**
						25		2.0 ... 10	**REF-A8D**
						25		6.0 ... 16	**REF-A8E**
280	290	150	7.5	8000	125	8	DN 40	0.2 ... 3.0	**REF-12B**
						25		2.0 ... 10	**REF-12D**
						25		6.0 ... 16	**REF-12E**
320	298	165	7.5	8000	125	8	DN 50	0.2 ... 3.0	**REF-16B**
						25		2.0 ... 10	**REF-16D**
						25		6.0 ... 16	**REF-16E**

REF-04D

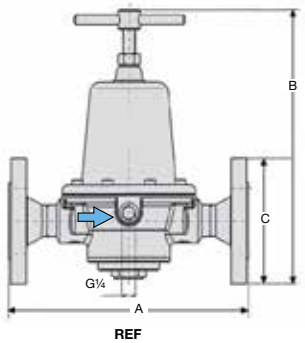
REF-08D

Special Options, add the appropriate letter

gaseous media	non-relieving, height +43 mm	RE . - . . . **U**
EPDM diaphragm	FDA approved	RE . - . . . **E**
PTFE diaphragm	FKM with PTFE coating and FKM o-ring	RE . - . . . **I**
free of oil and grease	suitable for oxygen	RE . - . . . **L**
flange connection*3	DIN 3239 / DIN 11850-2 / ISO 4200, DN 8 to DN 25, instead of connection thread	RE . - . . . **A**
milk pipe connection		RE . - . . . **M**

Accessories, enclosed

pressure gauge	Ø 50 mm, 0...*2 bar, G¼	for DN 8 to DN 15 (04)	**MS5002-..*2**
	Ø 63 mm, 0...*2 bar, G¼	for DN 15 (A4) to DN 50	**MS6302-..*2**



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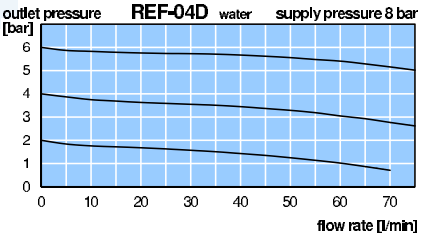
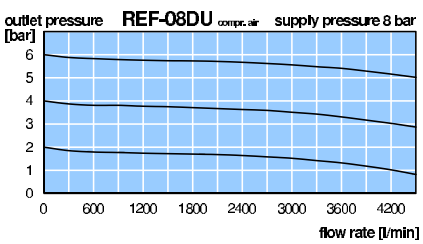
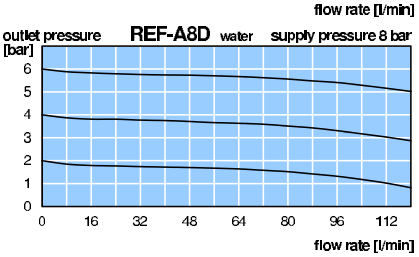






*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop
*2 **04** = 0 ... 4 bar, **10** = 0 ... 10 bar, **16** = 0 ... 16 bar
*3 version has to be indicate in clear words

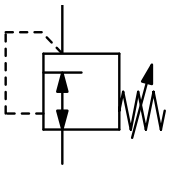
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example: REF-04B

SST
15

Description	Diaphragm-operated pressure regulator made of stainless steel throughout. Even when spindle is unscrewed the indicated minimum outlet pressure is existent.
Media	compressed air, gases or liquids
Supply pressure	see chart, max. 25 bar
Adjustment	by T-handle, with locknut
Relieving function	non-relieving
Gauge port	G¼ on both sides of the body, one screw plug supplied
Mounting position	any
Temperature range	0 °C to 120 °C / 32 °F to 248 °F for FKM, for appropriately conditioned compr. air down to -30 °C / -22 °F 0 °C to 150 °C / 32 °F to 302 °F for EPDM, for appropriately conditioned compr. air down to -30 °C / -22 °F
Material	Body: stainless steel 316L, mat. no. 1.4408 Diaphragm: FKM, optionally EPDM or PTFE



G¼ up to G2, FDA liquids or gases

Regulator made of Special Steel Casting

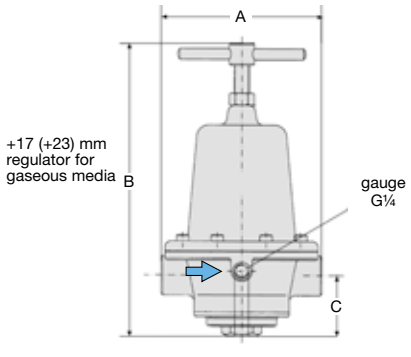
for liquids, P_1: max. 8/25 bar, non-relieving, FKM — **REA**

Dimensions A mm	B mm	C mm	K_v-value (m^3/h)	Flow rate air l/min*1	water l/min*1	Supply pressure max. bar	Nom. size DN	Connection thread G	Pressure range bar	Order number
92	190	42	1.0	1100	17	8	DN 8	G¼	0.2 ... 3.0	**REA-02B**
						25			2.0 ... 10	**REA-02D**
						25			6.0 ... 16	**REA-02E**
						8	DN 10	G⅜	0.2 ... 3.0	**REA-03B**
						25			2.0 ... 10	**REA-03D**
						25			6.0 ... 16	**REA-03E**
						8	DN 15	G½	0.2 ... 3.0	**REA-04B**
						25			2.0 ... 10	**REA-04D**
						25			6.0 ... 16	**REA-04E**
122	240	49	4.0	4200	66	8	DN 15	G½	0.2 ... 3.0	**REA-A4B**
						25			2.0 ... 10	**REA-A4D**
						25			6.0 ... 16	**REA-A4E**
						8	DN 20	G¾	0.2 ... 3.0	**REA-06B**
						25			2.0 ... 10	**REA-06D**
						25			6.0 ... 16	**REA-06E**
						8	DN 25	G1	0.2 ... 3.0	**REA-08B**
						25			2.0 ... 10	**REA-08D**
						25			6.0 ... 16	**REA-08E**
150	250	53	7.5	8000	125	8	DN 25	G1	0.2 ... 3.0	**REA-A8B**
						25			2.0 ... 10	**REA-A8D**
						25			6.0 ... 16	**REA-A8E**
222	250	53	7.5	8000	125	8	DN 32	G1¼	0.2 ... 3.0	**REA-10B**
						25			2.0 ... 10	**REA-10D**
						25			6.0 ... 16	**REA-10E**
222	250	53	7.5	8000	125	8	DN 40	G1½	0.2 ... 3.0	**REA-12B**
						25			2.0 ... 10	**REA-12D**
						25			6.0 ... 16	**REA-12E**
235	250	53	7.5	8000	125	8	DN 50	G2	0.2 ... 3.0	**REA-16B**
						25			2.0 ... 10	**REA-16D**
						25			6.0 ... 16	**REA-16E**

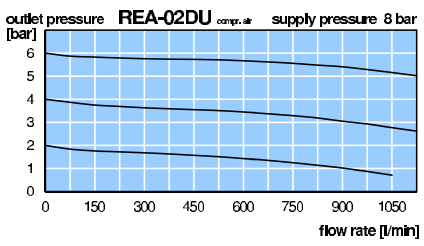
REA-04

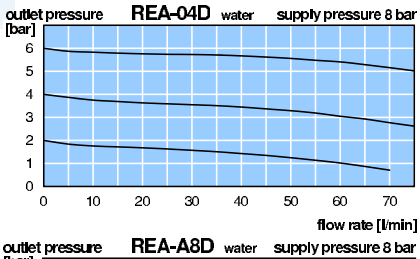
REA-A4D, accessory: gauge

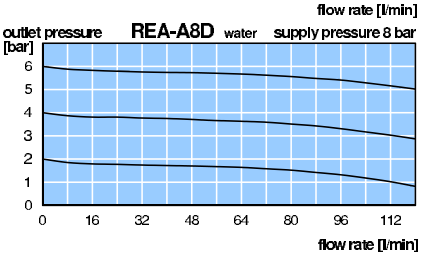
Special options and Accessories, see page 15.10. REF



REA







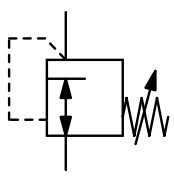
*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

PDF CAD
www.aircom.net

Order example: REA-02B

LOW PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGHOUT R3100

Description	Precision low pressure regulator with large diaphragm, completely made of stainless steel.
Media	compressed air or gases
Supply pressure	max. 7 bar, min. 1 bar
Air consumption	without constant bleed
Adjustment	by adjusting screw at R3100-04, -06 to -1A (A,B,C), - 12 and -16 by T-handle at R3100-06 to --1A (D,E), with locknut
Relieving function	non-relieving
Gauge port	G¼ on both sides of the body, one screw plug supplied
Mounting position	any
Temperature range	0 °C bis 80 °C / 32 °C to 176 °F, FKM or EPDM 0 °C bis 130 °C / 32 °C to 266 °F, high temperature version, for appropriately conditioned compr. air down to -20 °C / - 4 °F, or low temperature down to -40 °C/-40°F
Material	Body: stainless steel 316L, material no. 1.4404 O-rings: FKM Diaphragm: NBR/Buna-N with PTFE coating Inner valve: stainless steel 316L / 1.4404



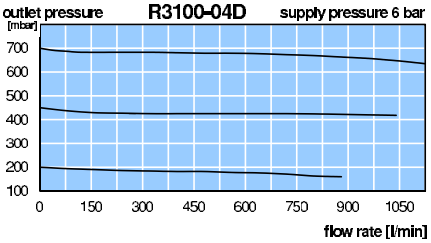
G½ up to G2
5…45/3000 mbar

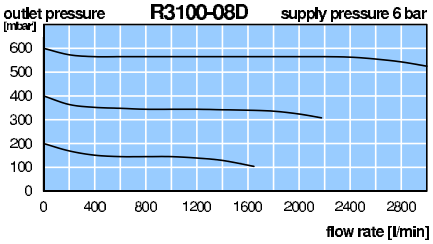
Dimensions A mm	B mm	C mm	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Supply pressure max. bar	Connection-thread G	Pressure range mbar	Order number
Low pressure regulator made of SST, supply pressure max. 7 bar, non-relieving diaphragm NBR/Buna-N with PTFE coating, FKM o-ring									**R3100**
80	177	37	0.4	60	1000	6	G½*2	5… 45	R3100-04A
								20… 200	R3100-04C
								150… 700	R3100-04D
161	217	68	1.8	180	3000	7	G¾	5… 45	R3100-06A
								10… 120	R3100-06B
								10… 400	R3100-06C
161	296	53						15… 700	R3100-06D
								200…1200	R3100-06E
161	217	68	1.8	180	3000	7	G1	5… 45	R3100-08A
								10… 120	R3100-08B
								10… 400	R3100-08C
161	296	53						15… 700	R3100-08D
								200…1200	R3100-08E
265	217	68	1.8	180	3000	7	G1¼	5… 45	R3100-10A
								10… 120	R3100-10B
								10… 400	R3100-10C
265	296	53						15… 700	R3100-10D
								200…1200	R3100-10E
265	217	68	1.8	180	3000	7	G1½	5… 45	R3100-1AA
								10… 120	R3100-1AB
								10… 400	R3100-1AC
265	296	53						15… 700	R3100-1AD
								200…1200	R3100-1AE
171	431	97	5.7	480	8000	6	G1½	20… 50	R3100-12A
171	467	97						50… 150	R3100-12B
171	430	97						150… 300	R3100-12D
								300…3000	R3100-12G
171	431	97	5.7	480	8000	6	G2	20… 50	R3100-16A
171	467	97						50… 150	R3100-16B
171	430	97						150… 300	R3100-16D
								300…3000	R3100-16G

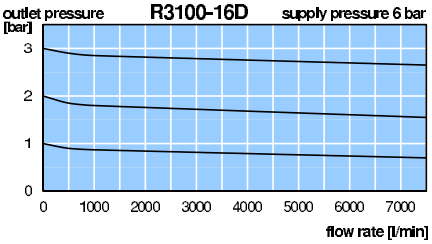
R3100-04

R3100-06/-08/-10/-1A
accessory: gauge

R3100-12/-16







*1 at 6 bar supply pressure and 1 bar /. 0.7 bar (-04) outlet pressure *2 G¾ thread at outlet

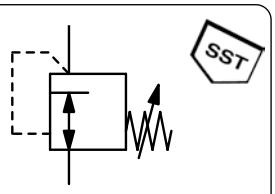
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
R3100-04A

LOW PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGHOUT R3100

Description	Precision low pressure regulator with large diaphragm, completely made of stainless steel.
Media	compressed air or gases
Supply pressure	max. 7 bar, min. 1 bar
Air consumption	without constant bleed
Adjustment	by adjusting screw at R3100-04, -06 to -1A (A,B,C), - 12 and -16 by T-handle at R3100-06 to --1A (D,E), with locknut
Relieving function	non-relieving
Gauge port	G¼ on both sides of the body, one screw plug supplied
Mounting position	any
Temperature range	0 °C bis 80 °C / 32 °C to 176 °F, FKM or EPDM 0 °C bis 130 °C / 32 °C to 266 °F, high temperature version, for appropriately conditioned compr. air down to -20 °C / - 4 °F, or low temperature down to -40 °C/-40°F
Material	Body: stainless steel 316L, material no. 1.4404 O-rings: FKM Diaphragm: NBR/Buna-N with PTFE coating Inner valve: stainless steel 316L / 1.4404



G½ up to G2
5…45/3000 mbar

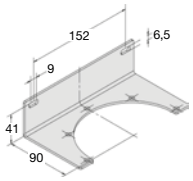
Dimensions A	B	C	K_v-value	Flow rate		Supply pressure	Connection-thread	Pressure range	Order number
mm	mm	mm	(m^3/h)	m^3/h*1	l/min*1	max. bar	G	mbar	

Special options, add the appropriate letter

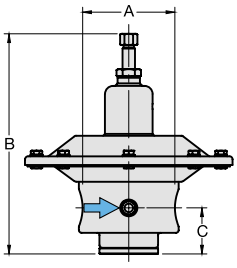
NPT	connection thread		R3100- . . . **N**
EPDM o-ring			R3100- . . . **E**
EPDM o-ring	FDA-approval		R3100- . . . .**TD**
down to -40 °C/-40 °F	low temperature version	from G¼ (02) on	R3100- **X51**
up to 130 °C/266 °F	high temperature version	from G¼ (02) on	R3100- **X54**
ammonia	NH_3		R3100- **02**
carbon dioxide	CO_2		R3100- **03**
argon	Ar		R3100- **05**
nitrogen	N_2		R3100- **07**
helium	He		R3100- **09**
hydrogen	H_2		R3100- **11**
methane	CH_4		R3100- **13**
natural gas *3			R3100- **14**
oxygen	O_2		R3100- **15**
propane	C_3H_8		R3100- **16**
nitrous oxide	N_2O		R3100- **17**
flance connection	see end of the chapter / flanges		R3100- . . . .**F.**

Accessories, enclosed

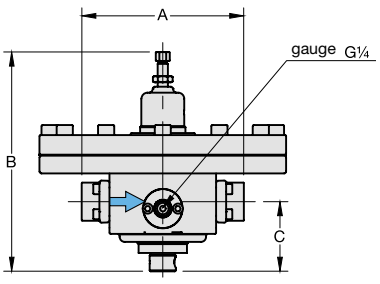
pressure gauge	Ø 63 mm, 0…*4 mbar, G¼, capsule type	up to 600 mbar	**MS6302-. .***4
	Ø 63 mm, 0…*5 bar, G¼, Bourdon tube	from 1 bar on	**MS6302-. .***5
connect. parts gauge		for G½	**AM-03S**
mounting bracket		for G½	**BW00-26S**



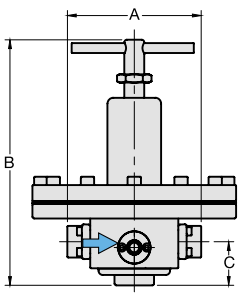
BW00-26S



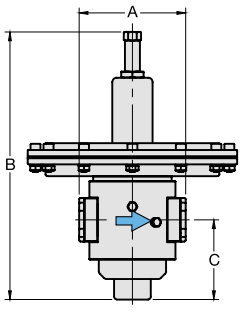
R3100-04



R3100-06-/-08/-10/-1A(A,B,C)



R3100-06-/-08/-10/-1A(D,E)



R3100-12-/-16

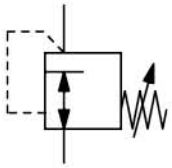
*1 at 6 bar supply pressure and 1 bar /. 0.7 bar (-04) outlet pressure
*3 without DVGW-approval
*4 **B6** = 0…60 mbar, **C3** = 0…250 mbar, **C4** = 0…400 mbar, **C6** = 0…600 mbar
*5 **02** = 0…2 bar, **04** = 0...4 bar, **06** = 0...6 bar

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
MS6302-B6

Description	Piston-operated pressure regulator made of stainless steel up to pressure range of 52 bar, independent to inlet pressure.
Note	It is recommended to select an outlet diameter at least one time larger than the main valve's diameter.
Media	compressed air, gases, liquids or steam (R70-02 not suitable for steam)
Supply pressure	max. 16 bar at R70-02, max. 40 bar at R70-16/-20, max. 63 bar at R70-03/-06 to -12, max. 100 bar at R70-04
Adjustment	by wing screw at R70-02, with locknut by T-handle at R70-03 to -20, with locknut
Relieving function	non-relieving
Gauge port	G¼ on both sides of the body **Mounting position** any
Temperature range	0 °C to 140 °C / 32 °F to 284 °F, EPDM, steamable, 0 °C to 150 °C / 32 °F to 302 °F, PTFE/EPDM for steam 0 °C to 200 °C / 32 °F to 302 °F, PTFE/AF100/EPDM, for steam
Material	Body: stainless steel 1.4301 or 1.4571 (R70-02), optionally 1.4435 Spring cage: stainless steel 1.4301 Diaphragm: EPDM Seals: EPDM, optionally PTFE O-rings: EPDM

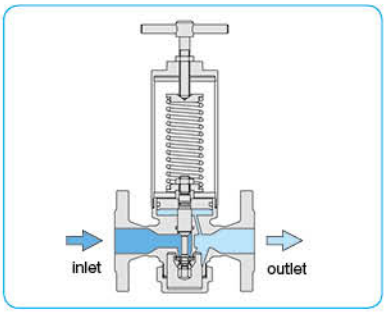


0.25…0.46/52 bar, up to G2½ also for food

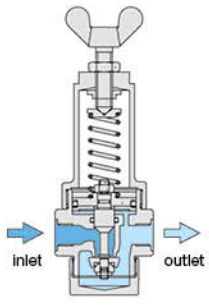
Dimensions A mm	B mm	C mm	Nominal size DN	K_v-value (m³/h)	Flow rate air l/min*1	water l/min*2	Connection thread G	P_1 max. bar	Pressure range bar	Order number
SST pressure regulator supply pressure max. 16/63/100 bar, non-relieving, for compressed air, gas, water, steam*3										**R70**
58	185	36	8	0.63	24	3	G¼	16	1.0… 2.0	R70-02A
									2.0… 4.0	R70-02B
									2.5… 5.0	R70-02C
									3.5… 7.0	R70-02D
70	253	48	10	2.0	55	6	G⅜	*4	0.5… 1.2	R70-03A
									0.9… 1.8	R70-03B
									1.6… 3.2	R70-03C
									3.3… 6.5	R70-03D
									5.0…10.0	R70-03E
									10.0…17.0	R70-03F
90	333	58	15	3.0	120	15	G½	*4	0.6… 1.2	R70-040
									1.0… 2.0	R70-04A
									1.5… 3.0	R70-04B
									2.7… 5.0	R70-04C
									4.3… 8.5	R70-04D
									8.5…17.0	R70-04E
									15.0…25.0	R70-04F
									25.0…38.0	R70-04G
									38.0…53.0	R70-04H
90	333	58	20	3.2	200	25	G¾	*4	0.6… 1.2	R70-060
									1.0… 2.0	R70-06A
									1.5… 3.0	R70-06B
									2.7… 5.0	R70-06C
									4.3… 8.5	R70-06D
									8.5…17.0	R70-06E
									15.0…25.0	R70-06F
									25.0…38.0	R70-06G
									38.0…53.0	R70-06H
105	368	68	25	6.3	350	45	G1	*4	0.5… 1.1	R70-08A
									1.2… 2.4	R70-08B
									2.0… 4.2	R70-08C
									4.0… 8.0	R70-08D
									8.0…11.5	R70-08E
									11.0…14.2	R70-08F
									14.0…17.5	R70-08G
									17.0…23.0	R70-08H

R70-02

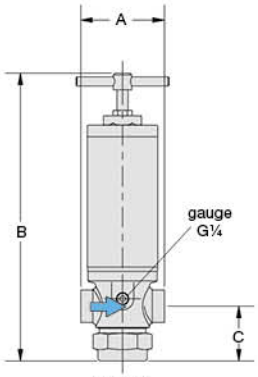
R70-03.CF1, accessory: gauge



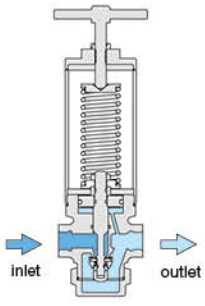
R70-...F., cross-section



R70-02, cross-section



R70-03



R70-04, cross-section

*1 at flow velocity 10 m/s
*2 at 2.5 m/s

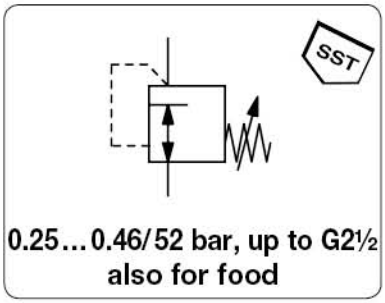
*3 not for R70-02
*4 P_1 max. = P_2 max. + 25 bar

PDF CAD
www.aircom.net

Order example: R70-02A

Pharmacy and food-safe version

Description	The pharmacy version (option **P**) standard design is completely made of stainless steel, independent of inlet pressure, sealed at zero consumption, with EPDM and steamable up to 140 °C / 284 °F. Media contact parts have roughness of R_a < 2.6 µm.						
Special options	Add the appropriate letter to the order number:						
Outer surface	Valve body:	electropolished	**FA**	glass bead shot-peened	**FC**		
	Complete valve:	electropolished	**FB**	glass bead shot-peened	**FD**	ground/polished R_a 1.2 µm	**FE**
Inner surface	Valve body:	R_a < 2.0 µm		glass bead shot-peened	**GA**		
	Media contact parts:	R_a < 1.6 µm	**GB**	R_a < 0.8 µm	**GC**	R_a < 0.5 µm	**GD**
Connection	Aseptic flange as per DIN 11864-2		**F(AS)**	as per APV	**F(APV)**		
	Flange as per DIN 2633 (PN16)		**F**	as per ANSI B16.5 150 lbs	**F150lbs**		
	Threaded connection as per DIN 11851		**GA**				
	Clamp fittings as per DIN 32676		**CL**				



0.25…0.46/52 bar, up to G2½ also for food

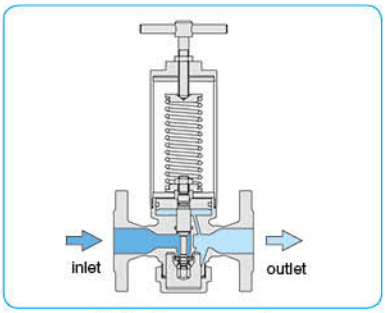
Dimensions A mm	B mm	C mm	Nominal size DN	K_v-value (m³/h)	Flow rate air l/min*1	water l/min*2	Connection thread G	P_1 max. bar	Pressure range bar	Order number
SST pressure regulator supply pressure max. 16/63/100 bar, non-relieving, for compressed air, gas, water, steam*3 **R70**										
145	410	85	40	12.5	900	120	G1½	*4	1.0… 2,2	**R70-12A**
									1.9… 3,5	**R70-12B**
									3.5… 4,3	**R70-12C**
									4.0… 6,7	**R70-12D**
									6.0… 8,8	**R70-12E**
									8.0…12,3	**R70-12F**
									11.0…17,0	**R70-12G**
145	410	85	50	13.0	1300	160	G2	*4	1.0… 2,2	**R70-16A**
									1.9… 3,5	**R70-16B**
									3.5… 4,3	**R70-16C**
									4.0… 6,7	**R70-16D**
									6.0… 8,8	**R70-16E**
									8.0…12,3	**R70-16F**
									11.0…17,0	**R70-16G**
220	685	145	65	28.0	3200	420	G2½	*4	0.25…0.46	**R70-20A**
									0.5… 1.1	**R70-20B**
									1.2… 2.4	**R70-20C**
									2.5… 5.5	**R70-20D**
									4.5… 9.1	**R70-20E**
									6.0…12.0	**R70-20F**

R70-08BF

R70-16

Special options, add the appropriate letter

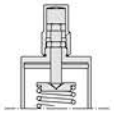
NPT	connection thread		R70-. . .**N**
stainless steel 1.4435	housing 1.4435, spring cage 1.4301	for G⅜ up to G1	R70-. . .**S**
up to 150 °C / 302 °F	PTFE seals		R70-. . .**X55**
up to 200 °C / 392 °F	PTFE / AF100 seals		R70-. . .**X56**
tamper-proof cap	adjustment by spanner, height 35 mm lower		R70-. . .**T**
drainage	through bottom screw		R70-. . .**U**
volume booster	pneumatic pressure setting		R70-. . .**J**
other connections	DIN or ANSI flange, threaded connection or clamp fittings		R70-. . .**F.**
for pharmacy	forged stainless steel, R_a < 2.6 µm, steamable, EPDM		R70-. . .**P**
for food industry	EPDM elastomer with FDA approval		R70-. . .



R70-…F., cross-section

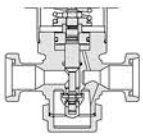
Accessories, enclosed

pressure gauge	Ø 63 mm, 0…*3 bar, G¼ for other requirements on request	**MS6302-..***3

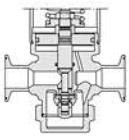


tamper-proof cap for pressure adjustment

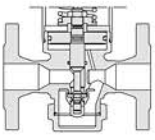
drainage through bottom screw



threaded connection e.g. DIN 11851/11864-1



clamp fittings e.g. DIN 32676



flange e.g. DIN 11864-2

*1 at flow velocity 10 m/s
*2 at 2.5 m/s
*3 **02** = 0…2.5 bar, **04** = 0…4 bar, **06** = 0…6 bar, **10** = 0…10 bar, **16** = 0…16 bar, **25** = 0…25 bar, **60** = 0…60 bar
*4 P_1 max. = P_2 max. + 25 bar

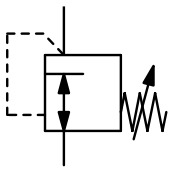
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example: R70-12A

LOW PRESSURE REGULATOR MADE OF STAINLESS STEEL, SUITABLE FOR PHARMACY R74

Description	Diaphragm-operated pressure regulator completely made of stainless steel for very low outlet pressure, independent of inlet pressure.
Note	It is recommended to select an outlet diameter at least one time larger than the main valve's diameter. Mounting position with spring cage downward at pressure range < 100 mbar.
Media	compressed air or gases
Supply pressure	max. 25 bar at R74-02 to -A8, max. 16 bar at R74-08/16
Adjustment	by T-handle with locknut
Relieving function	non-relieving
Gauge port	G¼ on both sides of the body **Mounting position** spring cage downward
Temperature range	0 °C to 140 °C / 32 °F to 284 °F for EPDM, steamable
Material	Body: stainless steel 1.4301, optionally 1.4435 Spring cage: stainless steel 1.4301 Diaphragm: EPDM Seals: EPDM O-rings: EPDM



5…7/450 mbar, up to G2½
also for food

Dimensions A mm	B mm	C mm	Nominal size DN	K_v-value (m³/h)	Flow rate air l/min*1	water l/min*2	Connection thread G	Diaphr. Ø mm	P_1 recommended < bar	Pressure range mbar	Order number
70	368	48	8	1.2	30	1.8	G¼	405	0.5	5… 9	**R74-02A**
									0.5	8… 15	**R74-02B**
									0.5	14… 28	**R74-02C**
							R74-**03**	310	0.8	25… 33	**R74-02D**
							for G⅜		1.2	28… 56	**R74-02E**
							R74-**A4**	235	1.5	50… 74	**R74-02F**
							for G½		2.0	60…120	**R74-02G**
								190	4.0	100…150	**R74-02H**
								25	130…266		**R74-02I**
								25	230…450		**R74-02K**
70	368	48	10	2.0	30	1.8	G⅜	…	…	…	**R74-03.**
70	368	48	15	2.2	30	1.8	G½	…	…	…	**R74-A4.**
90	368	58	15	3.0	120	7.2	G½	405	0.5	5… 8	**R74-04A**
									0.5	8… 15	**R74-04B**
									0.5	13… 27	**R74-04C**
							R74-**06**	310	0.8	25… 32	**R74-04D**
							for G¾		1.2	27… 54	**R74-04E**
							R74-**A8**	235	1.5	50… 70	**R74-04F**
							for G1		2.0	60…100	**R74-04G**
								190	4.0	100…140	**R74-04H**
								25	130…250		**R74-04I**
								25	220…400		**R74-04K**
90	368	58	20	3.2	120	7.2	G¾	…	…	…	**R74-06.**
90	368	58	25	3.5	120	7.2	G1	…	…	…	**R74-A8.**
105	388	68	25	6.3	370	22	G1	405	0.5	5… 8	**R74-08A**
									0.5	7… 14	**R74-08B**
									0.5	13… 25	**R74-08C**
							R74-**12**	310	0.8	25… 30	**R74-08D**
							for G1½		1.2	28… 50	**R74-08E**
								235	1.4	50… 65	**R74-08F**
									2.0	60…110	**R74-08G**
								190	5.0	100…140	**R74-08H**
									16	120…230	**R74-08I**
									16	210…400	**R74-08K**
105	388	68	32	6.5	370	22	G1¼	…	…	…	**R74-10.**
105	388	68	40	6.7	370	22	G1½	…	…	…	**R74-12.**

Low pressure regulator

supply pressure max. 16 / 25 bar, non-relieving, without constant bleed

R74

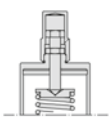
R74-02A

R74-04I

SST

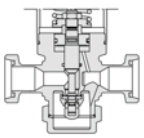
SST

15

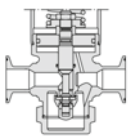


tamper-proof cap for pressure adjustment

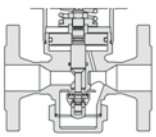
drainage through bottom screw



threaded connection e.g. DIN 11851/11864-1



clamp fittings e.g. DIN 32676



flange e.g. DIN 11864-2

*1 at 10 m/s flow velocity
*2 at 1.5 m/s flow velocity

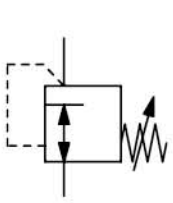
PDF CAD
www.aircom.net

Order example: R74-02A

LOW PRESSURE REGULATOR MADE OF STAINLESS STEEL, SUITABLE FOR PHARMACY R74

Pharmacy and food-safe version

Description	The pharmacy version (option **P**) standard design is completely made of stainless steel, independent of inlet pressure, sealed at zero consumption, with EPDM and steamable up to 140 °C / 284 °F. Media contact parts have roughness of R_a < 2.6 µm.						
Special options	Add the appropriate letter to the order number:						
Outer surface	Valve body:	electropolished	**FA**	glass bead shot-peened	**FC**		
	Complete valve:	electropolished	**FB**	glass bead shot-peened	**FD**	ground/polished R_a 1.2 µm	**FE**
Inner surface	Valve body:	R_a < 2.0 µm		glass bead shot-peened	**GA**		
	Media contact parts:	R_a < 1.6 µm	**GB**	R_a < 0.8 µm	**GC**	R_a < 0.5 µm	**GD**
Connection	Aseptic flange as per DIN 11864-2		**F(AS)**	as per APV	**F(APV)**		
	Flange as per DIN 2633 (PN16)		**F**	as perANSI B16.5 150 lbs	**F150lbs**		
	Threaded connection as per DIN 11851		**GA**				
	Clamp fittings as per DIN 32676		**CL**				



5...7/450 mbar, up to G2½ also for food

Dimensions A	B	C	Nominal size	K_v-value	Flow rate air	water	Connection thread	Diaphr.	P_1 recommended	Pressure range	Order number
mm	mm	mm	DN	(m³/h)	l/min*1	l/min*2	G	Ø mm	< bar	mbar	
Low pressure regulator								supply pressure max. 16 / 25 bar, non-relieving, without constant bleed			**R74**
145	435	85	50	13.0	1350	81	G2*	405	0.5	5... 7	**R74-16A**
									0.5	7... 14	**R74-16B**
									0.5	12... 24	**R74-16C**
									0.8	21... 26	**R74-16D**
								310	1.2	25... 28	**R74-16E**
									2.0	27... 45	**R74-16F**
									3.0	42... 50	**R74-16G**
								235	4.0	50... 63	**R74-16H**
									16	60...110	**R74-16I**
									16	100...180	**R74-16K**
									16	160...300	**R74-16L**
145	435	85	40	12.5	1350	81	G1½	...	...	...	**R74-B2.**
145	435	85	65	13.5	1350	81	G2½	...	...	...	**R74-20 .**

R74-08IF

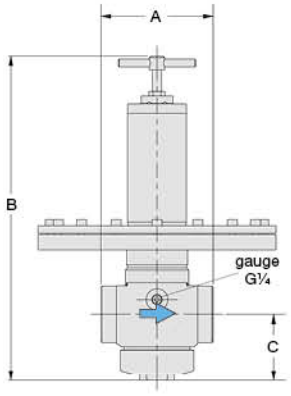
R74-16A

Special options, add the appropriate letter

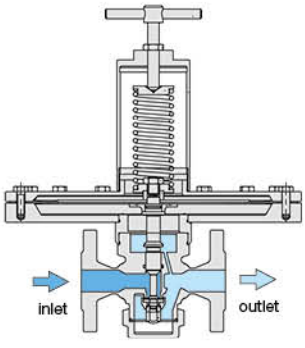
NPT	connection thread		R74-. . .**N**
stainless steel 1.4435	housing 1.4435, spring cage 1.4301	for G⅜ up to G1	R74-. . .**S**
tamper-proof cap	adjustment by spanner, height 40 mm lower		R74-. . .**T**
drainage	through bottom screw		R74-. . .**U**
volume booster	pneumatic pressure setting		R74-. . .**J**
other connections	DIN or ANSI flange, threaded connection or clamp fittings		R74-. . .**F.**
for pharmacy	forged stainless steel, R_a < 2.6 µm, steamable, EPDM		R74-. . .**P**
for food industry	EPDM elastomer with FDA approval		R74-. . ..

Accessories, enclosed

pressure gauge	Ø 63 mm, 0...*3 mbar, G¼, capsule type, 0...100 °C/32...212 °F for other requirements on request	**MS6302-..***3



R74



cross-section

*1 at 10 m/s flow velocity
*2 at 1.5 m/s flow velocity
*3 **B2** = 0...25 mbar, **B6** = 0...60 mbar, **C1** = 0...100 mbar, **C3** = 0...250 mbar, **C4** = 0...400 mbar, **C6** = 0...600 mbarr

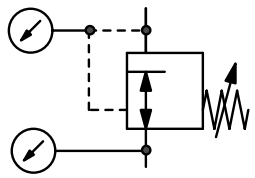
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
R74-16A

STAINLESS STEEL HIGH PRESSURE REGULATOR, P1: UP TO 200 BAR RH3000

Description	Hand-operated, spring-loaded high pressure regulator for maximum supply pressure of 220 bar and maximum outlet pressure of 200 bar. For outlet pressures up to 15 bar the regulator has a diaphragm, for higher outlets a piston. A sintered bronze filter at the inlet port protects against contamination.
Media	compressed air or non-corrosive gases
Supply pressure	max. 220 bar
Adjustment	by hexagon head screw at RH3000-02 to -A3; T-handle at RH3000-06 to -10, with locknut
Gauge port	All regulators are equipped with both one supply pressure gauge and one outlet pressure gauge.
Safety relief valve	prevents from overpressure, see chart
Compensation	All regulators are equipped with supply pressure variation compensation, so that a change in supply pressure has no effect on the outlet pressure's stability.
Temperature range	-20 °C to 60 °C / -4 °F to 140 °F
Mounting position	any
Material	Body: stainless steel 316; Diaphragm: stainless steel 316; O-ring: FKM / PTFE; Filter: stainless steel 316; Valve seat: FKM; Piston: stainless steel 316



G¼ up to G1¼
1…8/200 bar

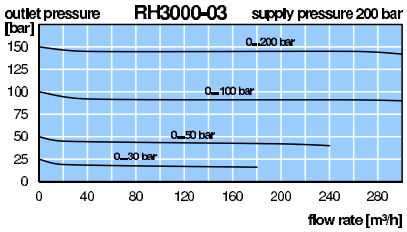
RH3000-02

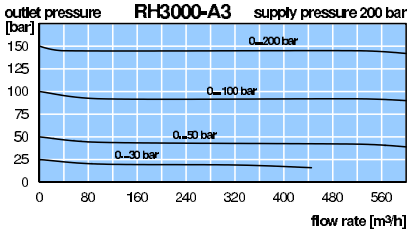
RH3000-03

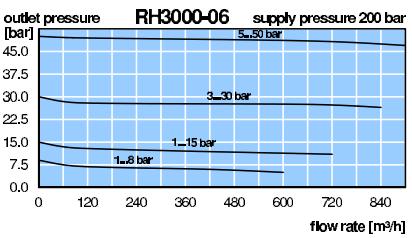
High pressure regulator 220 bar

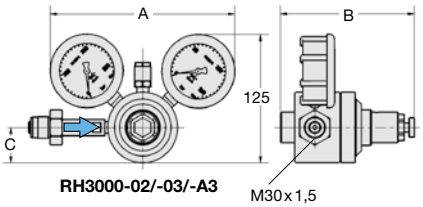
non-relieving, for compressed air with supply and outlet pressure gauges — **RH3000**

Dimensions A mm	B mm	C mm	Safety relief valve S: with valve	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread inlet/outlet	Pressure range bar	Order number
177	159	32	S	0.05	30	500	DIN 477/ G¼	1… 8	**RH3000-02A**
			S		45	750		1… 15	**RH3000-02B**
177	173	32	S		60	1000		3… 30	**RH3000-02C**
			S		60	1000		5… 50	**RH3000-02D**
			S		60	1000		10…100	**RH3000-02E**
			-		60	1000		20…200	**RH3000-02F**
190	169	40	S	0.15	70	1150	DIN 477/ G⅜m	1… 8	**RH3000-03A**
			S		155	2580		1,5… 15	**RH3000-03B**
			S		210	3500	DIN 477/ G⅜	3… 30	**RH3000-03C**
190	174	40	S		250	4100		5… 50	**RH3000-03D**
					350	5800		10…100	**RH3000-03E**
190	194	40	-		390	6500		20…200	**RH3000-03F**
182	239	40	S	0.25	370	6170	DIN 477/ G½m	1… 15	**RH3000-A3B**
182	243	40	S		460	7700	DIN 477/ G⅜	3… 30	**RH3000-A3C**
			S		650	10830		5… 50	**RH3000-A3D**
					680	11300		10…100	**RH3000-A3E**
182	194	40	-		700	11670		20…200	**RH3000-A3F**
171	342	227	S	1.5	600	10000	G¾ m/G¾ m	1… 8	**RH3000-06A**
			S		720	12000		1… 15	**RH3000-06B**
171	363	248	S		850	14170		3… 30	**RH3000-06C**
			S		1000	16670		5… 50	**RH3000-06D**
			S		1050	17500		10…100	**RH3000-06E**

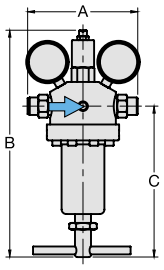








RH3000-02/-03/-A3



RH3000-06

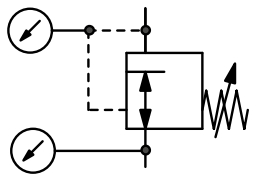
*1 at 200 bar supply pressure and max. outlet pressure

PDF CAD
www.aircom.net

Order example:
RH3000-02A

STAINLESS STEEL HIGH PRESSURE REGULATOR, P1: UP TO 200 BAR RH3000

Description	Hand-operated, spring-loaded high pressure regulator for maximum supply pressure of 220 bar and maximum outlet pressure of 200 bar. For outlet pressures up to 15 bar the regulator has a diaphragm, for higher outlets a piston. A sintered bronze filter at the inlet port protects against contamination.
Media	compressed air or non-corrosive gases
Supply pressure	max. 220 bar
Adjustment	by hexagon head screw at RH3000-02 to -A3; T-handle at RH3000-06 to -10, with locknut
Gauge port	All regulators are equipped with both one supply pressure gauge and one outlet pressure gauge.
Safety relief valve	prevents from overpressure, see chart
Compensation	All regulators are equipped with supply pressure variation compensation, so that a change in supply pressure has no effect on the outlet pressure's stability.
Temperature range	-20 °C to 60 °C / -4 °F to 140 °F
Mounting position	any
Material	Body: stainless steel 316; Diaphragm: stainless steel 316; O-ring: FKM / PTFE; Filter: stainless steel 316; Valve seat: FKM; Piston: stainless steel 316



G¼ up to G1¼
1…8/200 bar

Dimensions A mm	B mm	C mm	Safety relief valve S: with valve	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread inlet/outlet	Pressure range bar	Order number
High pressure regulator 220 bar non-relieving, for compressed air with supply and outlet pressure gauges									**RH3000**
250	371	243	S	2.5	1100	18330	G1 m/G1 m	1… 8	**RH3000-08A**
			S		1300	21670		1… 15	**RH3000-08B**
250	410	282	S		1500	25000		3… 30	**RH3000-08C**
			S		1650	27500		5… 50	**RH3000-08D**
250	390	262	-		1850	30830		20…200	**RH3000-08F**
246	388	272	S	3.5	3850	65830	G1 m/G1¼	1… 15	**RH3000-10B**
246	429	313	S		3500	58330		10…100	**RH3000-10E**

RH3000-08

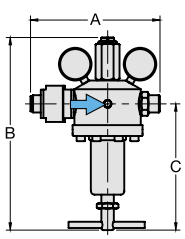
RH3000-10

Special options, add the appropriate letter

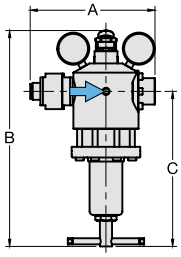
diaphragm relieving		RH3000-. . . **R**
piston relieving		RH3000-. . . **R**
EPDM elastomer		RH3000-. . . **E**
for panel mounting	for RH3000-02 to -A3	RH3000-. . . **P**
carbon dioxide*2	CO_2	RH3000-. . . **03**
argon	Ar	RH3000-. . . **05**
nitrogen	N_2	RH3000-. . . **07**
helium	He	RH3000-. . . **09**
hydrogen	H_2	RH3000-. . . **11**
methane	CH_4	RH3000-. . . **13**
natural gas *3		RH3000-. . . **14**
propane	C_3H_8	RH3000-. . . **16**
nitrous oxide	N_2O	RH3000-. . . **17**

Accessories, enclosed

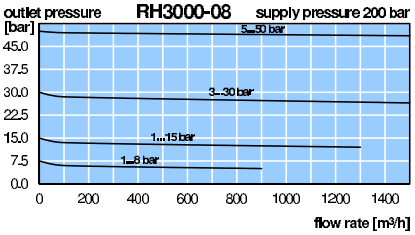
mounting bracket	for RH3000-02	**BW45-03S**
mounting nut	for RH3000-02	**M45x1,5S**
mounting bracket	for RH3000-03 and -A3	**BW50-01S**
mounting nut	for RH3000-03 and -A3	**M50x1,5S**
mounting bracket	for RH3000-06	**BW00-31S**
	for RH3000-08	**BW00-35S**



RH3000-08



RH3000-10



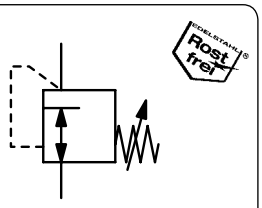
*1 at 200 bar supply pressure and max. outlet pressure *2 max. 80 bar *3 without DVGW-approval

PDF CAD
www.aircom.net

Order example:
RH3000-08A

STAINLESS STEEL TRI CLAMP PRESSURE REGULATOR RTC

Description	Pressure regulator with flange, piston operated, made of stainless steel
Media	compressed air, gases or liquids
Supply pressure	max. 25 bar
Surface	Electropolished body with roughness Ra <4 µm on inside wetted surfaces. All metallic parts are machined from the solid bar. No threaded connections exposed to the fluid. The regulator is virtually pocket and sterilizable with steam.
Adjustment	by adjusting screw RTC-04 and -06, by T-handle RTC-08 and -12
Relieving function	non-relieving
Gauge port	locked in standard
Temperature range	-40°C to 175°C / -40°F to 347°F
Material	Body, bonnet, piston and inner parts: AISI 316L, gasket: EPDM or FKM corresponding to FDA Main valve spring: AISI 302, Adjusting spring: C85, nickel plated NiP/Fe 15 µm All springs are not in contact with fluid.



½" up to 1½"
gases or liquids

Dimensions A mm	B mm	C mm	ØD mm	K_V-value m^3/h*1	Flow rate l/min*1	Connection ASME-BPE	Pressure range bar	Order number
Tri Clamp Pressure Regulator supply pressure max. 25 bar, EPDM for compressed air, gases, liquids and steam								**RTC**
139	182	57	25	1,2	2200	½"	0,2 … 1,5	**RTC-04A**
							0,3 … 3,0	**RTC-04B**
							0,8 … 8,0	**RTC-04D**
142	182	57	25	1,2	2200	¾"	0,2 … 1,5	**RTC-06A**
							0,3 … 3,0	**RTC-06B**
							0,8 … 8,0	**RTC-06D**
180	326	75	50,5	11	22000	1"	0,2 … 1,5	**RTC-08A**
							0,3 … 3,0	**RTC-08B**
							0,8 … 8,0	**RTC-08D**
182	326	75	50,5	11	22000	1½"	0,2 … 1,5	**RTC-12A**
							0,3 … 3,0	**RTC-12B**
							0,8 … 8,0	**RTC-12D**

RTC-04/-06

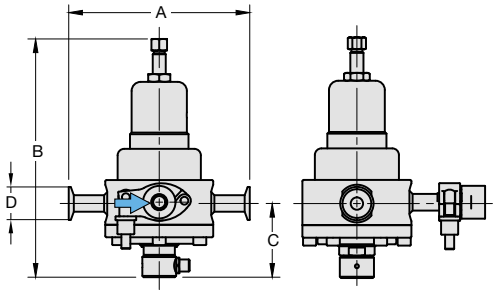
RTC-08/-12

Special Options, add the appropriate letter

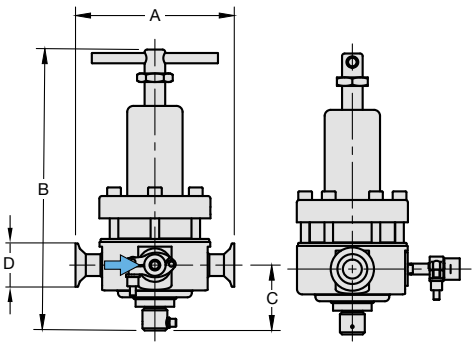
to 200°C	high temperature version	RTC-… **X68**
FKM o-ring		RTC-… **T**
EPDM o-ring	FDA approval	RTC-… **TD**
ammonia	NH_3	RTC-… **02**
nitrogen	N_2	RTC-… **07**
oxygen	O_2	RTC-… **15**
water	H_2O	RTC-… **W**
neutral gas	CO_2, Ar, He, H_2, CH_4, C_3H_8, N_2O	RTC-… **XX**

Accessories, enclosed

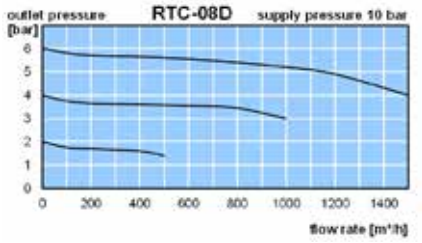
pressure gauge	Ø 50 mm,	0…*2 bar	G¼	for ½" u. ¾"	**MS5002-..*2**
	Ø 63 mm,	0…*2 bar	G¼	for 1" u. 1½"	**MS6302-..*2**
mounting bracket				for ½" u. ¾"	**BW45-03S**
mounting nut				for ½" u. ¾	**M45x1,5S**
mounting bracket				for 1" u. 1½"	**BW00-27S**

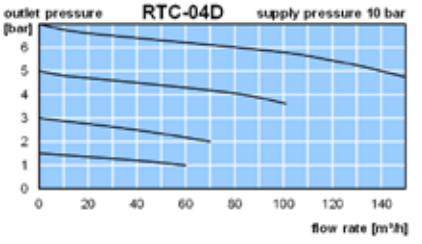


RTC-04/-06



RTC-08/-12





*1 at 10 bar supply pressure , 7 bar outlet pressure and 2 bar pressure drop
*2 **02** = 0…2,5 bar, **04** = 0…4 bar, **10** = 0…10 bar

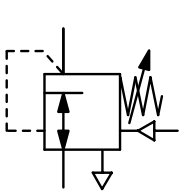
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
RTC-04A

DIFFERENTIAL PRESSURE REGULATOR P1: MAX. 414 BAR, P2: 0-103 BAR RH44-S

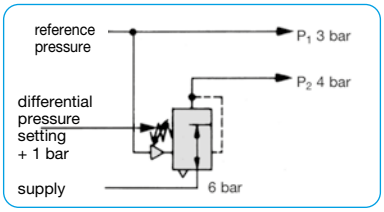
Description	The dome loaded, spring biased regulator is designed for pressure tracking applications to maintain a constant differential pressure. Venting allows for pressure tracking increases and decreases.		
Media	compressed air or gases (depending on selected materials)		
Supply pressure	max. 414 bar	**Outlet pressure**	max. 103 bar
Exhaust	tapped exhaust ¼″ NPT	**Control port**	⅛″ NPT
Adjustment	hexagonal screw for spring tension	**Leakage**	bubble-tight
Gauge port	not available	**Mounting position**	any
Temperature range	-26 °C to 74 °C / -14 °F to 165 °F		
Material	Body: stainless steel 302 Valve seat and gasket: CTFE, Vespel O-Rings: NBR/Buna-N		



differential pressure 0-1/24 bar
reference pressure 0- 103 bar

Dimensions A mm	B mm	C mm	K_v-value (m^3/h)	Flow rate l/min*1	Connection thread NPT	Differential pressure range bar	Order number
Differential pressure regulator P1 max: 414 bar, PA max: 103 bar, SST 302 relieving, Psi: 0 ... 103 bar, Viton / CTFE							**RH44**
76	212	46	0.7	10000	½″ NPT	0... 1	**RH44-04AS**
						0... 7	**RH44-04BS**
						0...14	**RH44-04CS**
						0...24	**RH44-04DS**
76	212	46	2.0	21000	¾″ NPT	0... 1	**RH44-06AS**
						0... 7	**RH44-06BS**
						0...14	**RH44-06CS**
						0...24	**RH44-06DS**

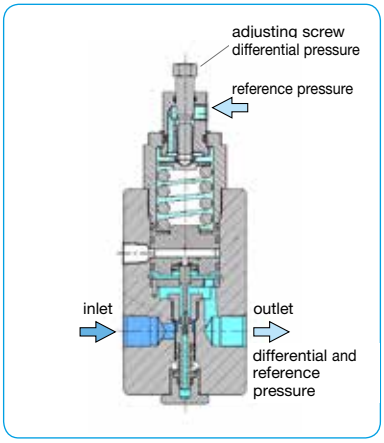
RH44-S



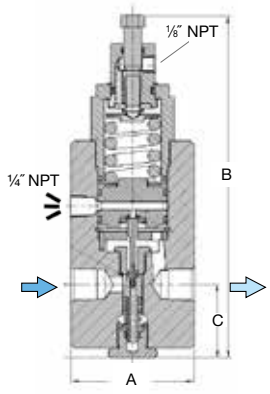
Example: differential pressure constant 1 bar

Special options, add the appropriate letter

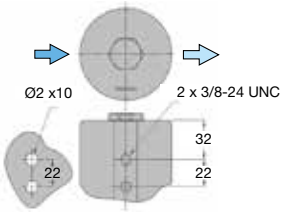
brass body	(s. page 4.22)	RH44-0. .



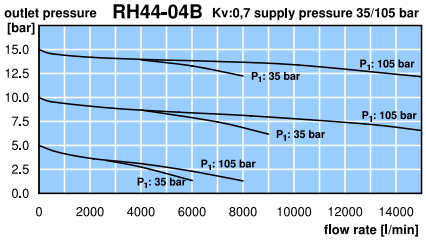
cross-section



RH44-S



panel mounting



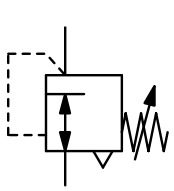
*1 at P_1 = 105 bar, P_2 = 15 bar and Δp = 1 bar

PDF CAD
www.aircom.net

Order example:
RH44-04AS

VOLUME BOOSTER MADE OF STAINLESS STEEL THROUGHOUT, UP TO 50 BAR R3000-J

Description	Volume booster made of stainless steel throughout, without constant bleed, transmission ratio 1:1.
Media	compressed air, gases or liquids
Supply pressure	max. 60 bar for R3000-06J/-1A, max. 30 bar for -16J, all others 50 bar, for liquids $\Delta p_{max.}$ = 25 bar
Pilot pressure	max. 15 bar for R3000-..J2, max. 50 bar for R3000-..J5, pilot port G¼
Relieving function	non-relieving, optionally relieving
Exhaust	DN 2, optionally DN 4
Gauge port	G¼ on both sides of the body, one screw plug supplied **Mounting position** any
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 O-rings: FKM, optionally EPDM Diaphragm: NBR/Buna-N with PTFE coating, optionally SST Inner valve: SST 316L, W.-Nr. 1.4404



G¼ to G2, FDA gases or liquids

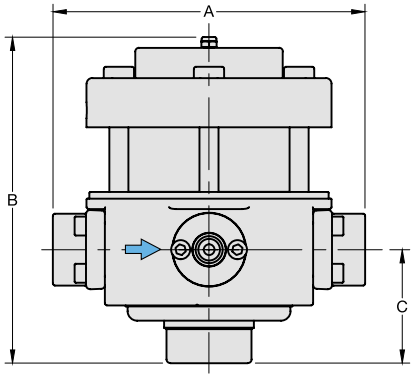
Dimensions A mm	B mm	C mm	Regulating System D: Diaphragm P: Piston	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread G	Pilot pressure max. bar	Pressure range bar	Order number
Stainless steel booster										**R3000-J**
64	79	38	D	0.5	30	500	G¼	15	1 ... 15	**R3000-02J2T**
64	92	38	P					50	1 ... 50	**R3000-02J5T**
80	86	38	D	1.0	72	1200	G½	15	1 ... 15	**R3000-04J2T**
80	107	38	P					50	1 ... 50	**R3000-04J5T**
165	138	60	D	6.0	390	6500	G¾	15	1 ... 15	**R3000-06J2T**
165	173	60	P					60	1 ... 60	**R3000-06J5T**
165	138	60	D	6.0	390	6500	G1	15	1 ... 15	**R3000-08J2T**
165	173	60	P					60	1 ... 60	**R3000-08J5T**
269	138	60	D	6.0	390	6500	G1¼	15	1 ... 15	**R3000-10J2T**
269	173	60	P					60	1 ... 60	**R3000-10J5T**
269	138	60	D	6.0	390	6500	G1½	15	1 ... 15	**R3000-1AJ2T**
269	173	60	P					60	1 ... 60	**R3000-1AJ5T**
171	237	128	P	12.0	840	14000	G1½	50	1 ... 50	**R3000-12J5T**
171	237	128	P	12.6	900	15000	G2	50	1 ... 50	**R3000-B6J5T**
171	268	128	P	21.0	1500	25000	G2	15	1 ... 15	**R3000-16J2T**

supply pressure max. 60 bar, non-relieving, ratio 1:1, PTFE-diaphragm and FKM-o-ring

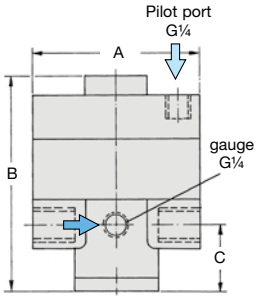
R3000-02J2T, accessory: gauge

R3000-04J

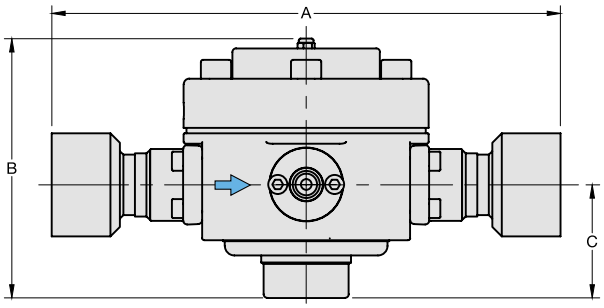
R3000-06J/-08J/-10J/-1AJ2T



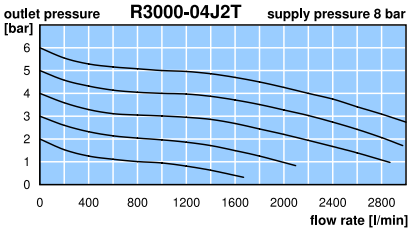
R3000-06J/-08J/-10J/-1AJ5T

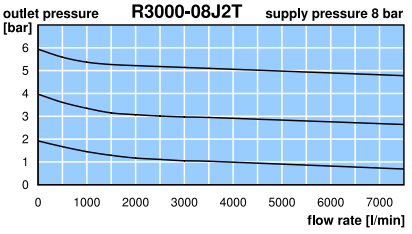


R3000-02J.T/-04J.T



R3000-06J/-08J/-10J/-1AJ2T





*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

Gauges: see chapter for measuring devices

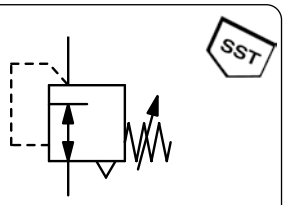
PDF CAD
www.aircom.net

Order example: R3000-02J2T

SST
15

VOLUME BOOSTER MADE OF STAINLESS STEEL THROUGHOUT, UP TO 50 BAR R3000-J

Description	Volume booster made of stainless steel throughout, without constant bleed, transmission ratio 1:1.
Media	compressed air, gases or liquids
Supply pressure	max. 60 bar for R3000-06J/-08J, all others 50 bar, for liquids $\Delta p_{max.}$ = 25 bar
Pilot pressure	max. 15 bar for R3000-..J2, max. 50 bar for R3000-..J5, Steueranschluss G¼
Relieving function	non-relieving, optionally relieving
Exhaust	DN 2, optionally DN 4
Gauge port	G¼ on both sides of the body, one screw plug supplied **Mounting position** any
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 O-rings: FKM, optionally EPDM Diaphragm: NBR/Buna-N with PTFE coating, optionally SST Inner valve: SST 316L, W.-Nr. 1.4404



G¼ to G2, FDA gases or liquids

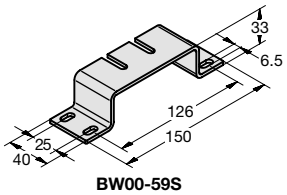
Dimensions A	B	C	Regulating System D: Diaphragm P: Piston	K_v-value	Flow rate	Connection thread	Pilot pressure	Pressure range	Order number
mm	mm	mm		(m^3/h)	m^3/h*1 l/min*1	G	max. bar	bar	

Special options, add the appropriate letter

diaphragm relieving		for R3000-02J2 to -08J2	R3000-..J2.**R**
piston relieving		for R3000-..J5	R3000-..J..**R**
down to -40 °C/ -40°F	low temperature version		R3000-..J..**X51**
up to 130 °C/266 °F	high temperature version		R3000-..J..**X54**
FKM -o-ring	for piston regulator or PTFE diaphragm		R3000-..J.**T**
EPDM-o-ring			R3000-..J.**TE**
EPDM-o-ring	FDA-approval		R3000-..J.**TD**
SST diaphragm	FKM -o-ring		R3000-..J.**S**
	EPDM-o-ring		R3000-..J.**SE**
tapped exhaust			R3000-..J..**X12**
ammonia	NH_3		R3000-..J..**02**
carobon dioxide	CO_2		R3000-..J..**03**
argon	Ar		R3000-..J..**05**
nitrogen	N_2		R3000-..J..**07**
helium	He		R3000-..J..**09**
hydrogen	H_2		R3000-..J..**11**
methane	CH_4		R3000-..J..**13**
natural gas *3			R3000-..J..**14**
oxygen	O_2		R3000-..J..**15**
propane	C_3H_8		R3000-..J..**16**
nitrous oxide	N_2O		R3000-..J..**17**
water	H_2O		R3000-..J..**W**
flange connection	see end of the chapter / flanges		R3000-..J..**F.**

Accessories, enclosed

pressure gauge	Ø 50 mm, 0…*2 bar, G¼	for G¼ and G½	**MS5002-..***2
	Ø 63 mm, 0…*2 bar, G¼	for G¾ to G2	**MS6302-..***2
mounting bracket		for G¾ and G1	**BW00-59S**



BW00-59S

*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop *3 without DVGW-approval
*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

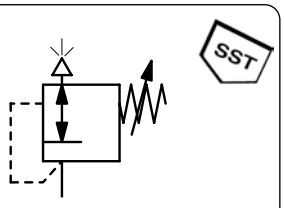
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example: MS5002-02

BACK PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGHOUT D3000

Description	The back pressure regulator protects compressed air devices from excessive pressure. If the pressure setpoint is exceeded, overpressure is vented into the atmosphere until the setpoint is reached again. It is recommended to choose a pressure range as low as possible.
Media	compressed air, gases or liquids
System pressure	see chart, max. 65 bar
Adjustment	by adjusting screw at D3000-01 to -A6, with locknut by T-handle at D3000-06 to -16, with locknut
Gauge port	for inlet pressure, G⅛ on both sides of the body at D3000-01 , all others G¼, screw plugs supplied
Mounting position	any
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 O-rings: FKM, optionally NBR/Buna-N or EPDM Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel Inner valve: stainless steel 316L, material no 1.4404



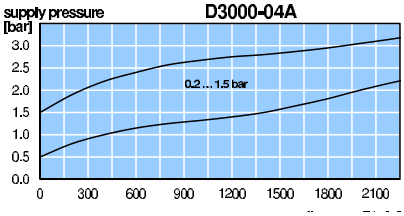
G⅛ to G2, FDA
0.1 ... 1.5 / 50 bar

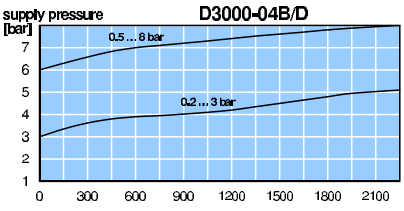
Dimensions A mm	B mm	C mm	Regul. system D: Diaphragm P: Piston	Exhaust rate l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range bar	Order number
Back pressure regulator				overpressure max. 30 / 65 bar, PTFE diaphragm and FKM o-ring				**D3000**
40	83	13	D	400	30	G⅛	0.1 ... 1.5	**D3000-01AT**
							0.2 ... 3.0	**D3000-01BT**
							0.5 ... 8.0	**D3000-01DT**
							1.0 ... 15	**D3000-01ET**
40	83	13	D	400	30	G¼	0.1 ... 1.5	**D3000-A2AT**
							0.2 ... 3.0	**D3000-A2BT**
							0.5 ... 8.0	**D3000-A2DT**
							1.0 ... 15	**D3000-A2ET**
64	161	38	D	800	30	G¼	0.1 ... 1.5	**D3000-02AT**
							0.2 ... 3.0	**D3000-02BT**
							0.5 ... 8.0	**D3000-02DT**
							1.0 ... 15	**D3000-02ET**
64	175	38	P	800	65		2.0 ... 30	**D3000-02FT**
							3.0 ... 50	**D3000-02GT**
64	161	38	D	800	30	G⅜	0.1 ... 1.5	**D3000-03AT**
							0.2 ... 3.0	**D3000-03BT**
							0.5 ... 8.0	**D3000-03DT**
							1.0 ... 15	**D3000-03ET**
64	175	38	P	800	65		2.0 ... 30	**D3000-03FT**
							3.0 ... 50	**D3000-03GT**
80	166	37	D	2500	30	G½	0.1 ... 1.5	**D3000-04AT**
							0.2 ... 3.0	**D3000-04BT**
							0.5 ... 8.0	**D3000-04DT**
							1.0 ... 15	**D3000-04ET**
80	166	37	P	2500	65		2.0 ... 30	**D3000-04FT**
							3.0 ... 50	**D3000-04GT**

D3000-01/-A2

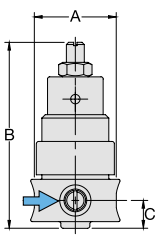
D3000-02/-03

D3000-04

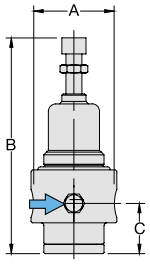




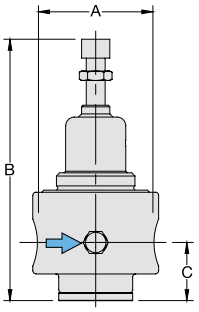
Accessories, see next pages



D3000-01/- A2



D3000-02/-03



D3000-04

*1 at 7 bar overpressure and open outlet

Gauges: see chapter for measuring devices

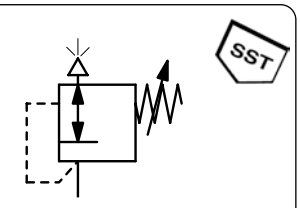
PDF CAD
www.aircom.net

Order example:
D3000-01AT

SST
15

BACK PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGHOUT D3000

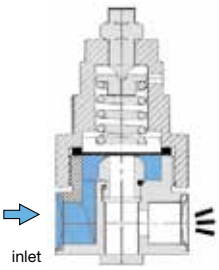
Description	The back pressure regulator protects compressed air devices from excessive pressure. If the pressure setpoint is exceeded, overpressure is vented into the atmosphere until the setpoint is reached again. It is recommended to choose a pressure range as low as possible.
Media	compressed air, gases or liquids
System pressure	see chart, max. 65 bar
Adjustment	by adjusting screw at D3000-01 to -A6, with locknut by T-handle at D3000-06 to -16, with locknut
Gauge port	for inlet pressure, G⅛ on both sides of the body at D3000-01 , all others G¼, screw plugs supplied
Mounting position	any
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 O-rings: FKM, optionally NBR/Buna-N or EPDM Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel Inner valve: stainless steel 316L, material no 1.4404



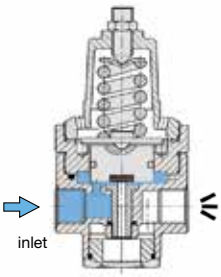
G⅛ to G2, FDA
0.1 ... 1.5 / 50 bar

Dimensions A mm	B mm	C mm	Regul. system D: Diaphragm P: Piston	Exhaust rate l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range bar	Order number
Back pressure regulator				overpressure max. 30 / 65 bar, PTFE diaphragm and FKM o-ring				**D3000**
165	257	21	D	8000	30	G¾	0.1 ... 1.5	**D3000-06AT**
							0.2 ... 3.0	**D3000-06BT**
							0.5 ... 8.0	**D3000-06DT**
							1.0 ... 15	**D3000-06ET**
165	271	21	P	8000	65		2.0 ... 30	**D3000-06FT**
							3.0 ... 50	**D3000-06GT**
165	257	21	D	8000	30	G1	0.1 ... 1.5	**D3000-08AT**
							0.2 ... 3.0	**D3000-08BT**
							0.5 ... 8.0	**D3000-08DT**
							1.0 ... 15	**D3000-08ET**
165	271	21	P	8000	65		2.0 ... 30	**D3000-08FT**
							3.0 ... 50	**D3000-08GT**
269	257	21	D	8000	30	G1¼	0.1 ... 1.5	**D3000-10AT**
							0.2 ... 3.0	**D3000-10BT**
							0.5 ... 8.0	**D3000-10DT**
							1.0 ... 15	**D3000-10ET**
269	271	21	P	8000	65		2.0 ... 30	**D3000-10FT**
							3.0 ... 50	**D3000-10GT**
269	257	21	D	8000	30	G1½	0.1 ... 1.5	**D3000-1AAT**
							0.2 ... 3.0	**D3000-1ABT**
							0.5 ... 8.0	**D3000-1ADT**
							1.0 ... 15	**D3000-1AET**
269	271	21	P	8000	65		2.0 ... 30	**D3000-1AFT**
							3.0 ... 50	**D3000-1AGT**

D3000-06/-08/-10/-1A

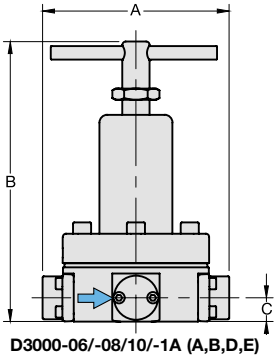


with diaphragm

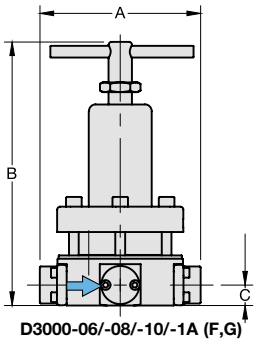


with piston

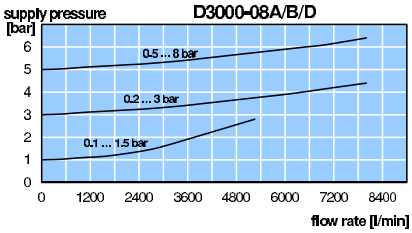
Accessories, see next pages



D3000-06/-08/10/-1A (A,B,D,E)



D3000-06/-08/-10/-1A (F,G)



*1 at 7 bar overpressure and open outlet

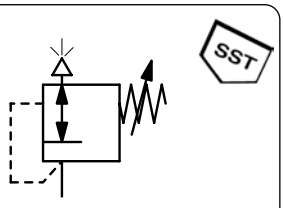
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
D3000-06AT

BACK PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGHOUT D3000

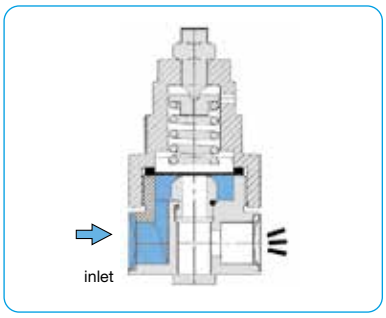
Description	The back pressure regulator protects compressed air devices from excessive pressure. If the pressure setpoint is exceeded, overpressure is vented into the atmosphere until the setpoint is reached again. It is recommended to choose a pressure range as low as possible.
Media	compressed air, gases or liquids
System pressure	see chart, max. 65 bar
Adjustment	by adjusting screw at D3000-01 to -A6, with locknut by T-handle at D3000-06 to -16, with locknut
Gauge port	for inlet pressure, G⅛ on both sides of the body at D3000-01 , all others G¼, screw plugs supplied
Mounting position	any
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 O-rings: FKM, optionally NBR/Buna-N or EPDM Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel Inner valve: stainless steel 316L, material no 1.4404



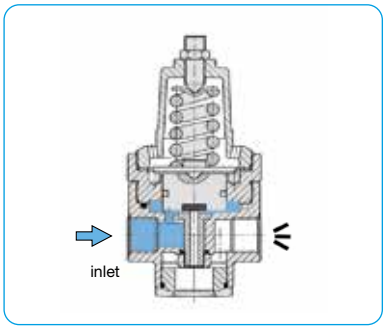
G⅛ to G2, FDA
0.1 ... 1.5 / 50 bar

Dimensions A mm	B mm	C mm	Regul. system D: Diaphragm P: Piston	Exhaust rate l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range bar	Order number
Back pressure regulator				overpressure max. 30 / 65 bar, PTFE diaphragm and FKM o-ring				**D3000**
171	377	128	P	25000	30	G1½	0.1 ... 1.5	**D3000-12AT**
							0.2 ... 3.0	**D3000-12BT**
							0.5 ... 8.0	**D3000-12DT**
							1.0 ... 15	**D3000-12ET**
171	387	128	P	25000	65		2.0 ... 30	**D3000-12FT**
							3.0 ... 50	**D3000-12GT**
171	377	128	P	25000	30	G2	0.1 ... 1.5	**D3000-16AT**
							0.2 ... 3.0	**D3000-16BT**
							0.5 ... 8.0	**D3000-16DT**
							1.0 ... 15	**D3000-16ET**
171	387	128	P	25000	65		2.0 ... 30	**D3000-16FT**
							3.0 ... 50	**D3000-16GT**

D3000-12/-16

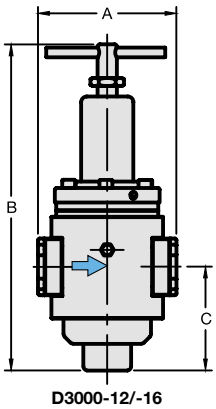


with diaphragm

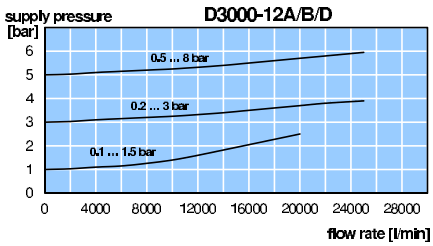


with piston

Accessories, see next page



D3000-12/-16



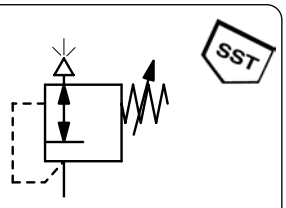
*1 at 7 bar overpressure and open outlet

PDF CAD
www.aircom.net

Order example:
D3000-12AT

BACK PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGHOUT D3000

Description	The back pressure regulator protects compressed air devices from excessive pressure. If the pressure setpoint is exceeded, overpressure is vented into the atmosphere until the setpoint is reached again. It is recommended to choose a pressure range as low as possible.
Media	compressed air, gases or liquids
System pressure	see chart, max. 65 bar
Adjustment	by adjusting screw at D3000-01 to -A6, with locknut by T-handle at D3000-06 to -16, with locknut
Gauge port	for inlet pressure, G⅛ on both sides of the body at D3000-01 , all others G¼, screw plugs supplied
Mounting position	any
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 O-rings: FKM, optionally NBR/Buna-N or EPDM Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel Inner valve: stainless steel 316L, material no 1.4404

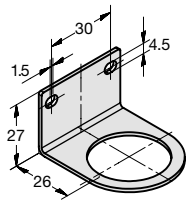


G⅛ to G2, FDA
0.1 ... 1.5 / 50 bar

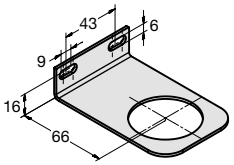
Dimensions A	B	C	Regul. system **D:** Diaphragm **P:** Piston	Exhaust rate l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range bar	Order number

Special options, add the appropriate letter

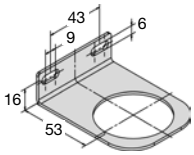
NPT	connection thread	for G⅛ to G½, G1½ (12) and G2	D3000- . . . . **N**
NPT	connection thread	for G¾ to G1½ (1A)	D3000- . . . . **N**
down to -40 °C/ -40°F	low temperature version	from G¼ (02) on	D3000- **X51**
up to 130 °C/266 °F	high temperature version	from G¼ (02) on	D3000- **X54**
FKM -o-ring	for piston regulator or PTFE diaphragm		D3000- . . . **T**
EPDM-o-ring			D3000- . . . **TE**
EPDM-o-ring	FDA-approval		D3000- . . . **TD**
SST diaphragm	FKM -o-ring	for G¼ (02) to G1	D3000- . . . **S**
	NBR -o-ring	for G¼ (02) to G1	D3000- . . . **SB**
	EPDM-o-ring	for G¼ (02) to G1	D3000- . . . **SE**
	EPDM-o-ring, FDA-approval	for G¼ (02)	D3000-02 . **SD**
ammonia	NH_3		D3000- . . . **02**
carbon dioxide	CO_2		D3000- . . . **03**
argon	Ar		D3000- . . . **05**
nitrogen	N_2		D3000- . . . **07**
helium	He		D3000- . . . **09**
hydrogen	H_2		D3000- . . . **11**
methane	CH_4		D3000- . . . **13**
natural gas *3			D3000- . . . **14**
oxygen	O_2		D3000- . . . **15**
propane	C_3H_8		D3000- . . . **16**
nitrous oxide	N_2O		D3000- . . . **17**
water	H_2O		D3000- . . . .**W**
flange connection	see end of the chaper / flanges		D3000- . . . .**F.**



BW30-03S



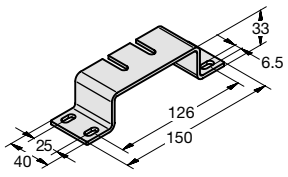
BW45-03S



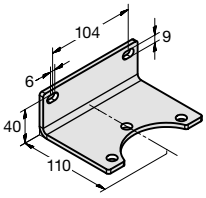
BW50-01S

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



BW00-59S



BW00-62S

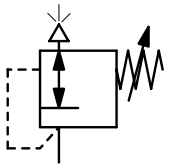
*1 at 7 bar overpressure and open outlet
*2 **02** = 0...2.5 bar, **04** = 0...4 bar, **06** = 0...6 bar, **10** = 0...10 bar, **16** = 0...16 bar, **60** = 0...60 bar
*3 without DVGW-approval

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
MS4001-02

Description	The diaphragm back pressure regulator protects compressed air devices from excessive pressure. If the pressure setpoint is exceeded, overpressure is vented into the atmosphere until the setpoint is reached again. It is recommended to choose a pressure range as low as possible.
Media	compressed air, gases
System pressure	max. 6 bar
Adjustment	by adjusting screw for D3100-04 to - 1A, with locknut by T-handle for D3100-12 and -16, with locknut
Gauge port	G¼ on both sides of the body, screw plugs supplied
Mounting position	any
Temperature range	0 °C to 80 °C / 32 °F to 176 °F, FKM or EPDM 0 °C to 130 °C / 32 °F to 266 °F, 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 Inner valve: stainless steel 316L, material no. 1.4404
	O-rings: FKM, optionally EPDM



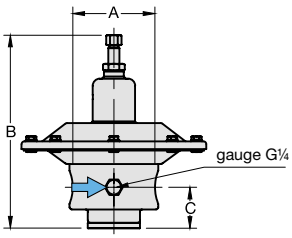
G½ and G2
5…45/3000 mbar

Dimensions A mm	B mm	C mm	Exhaust rate l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range mbar	Order number
Back pressure regulator			overpressure max. 6 bar, PTFE-diaphragm and FKM-o-ring				**D3100**
80	174	37	300	6	G½	5… 45	**D3100-04AT**
			500			20… 200	**D3100-04BT**
			1000			150… 700	**D3100-04CT**
161	289	45	1500	6	G¾	0… 300	**D3100-06BT**
			2300			0… 700	**D3100-06CT**
			3000			0…1200	**D3100-06DT**
161	289	45	1500	6	G1	0… 300	**D3100-08BT**
			2300			0… 700	**D3100-08CT**
			3000			0…1200	**D3100-08DT**
265	289	45	2000	6	G1¼	0… 300	**D3100-10BT**
			4100			0… 700	**D3100-10CT**
			5000			0…1200	**D3100-10DT**
265	289	45	2000	6	G1½	0… 300	**D3100-1ABT**
			4100			0… 700	**D3100-1ACT**
			5000			0…1200	**D3100-1ADT**
171	460	128	2500	6	G1½	20… 50	**D3100-12AT**
			5000			50… 150	**D3100-12BT**
			7500			150… 300	**D3100-12CT**
171	420	128	10000			300…3000	**D3100-12DT**
171	460	128	2500	6	G2	20… 50	**D3100-16AT**
			5000			50… 150	**D3100-16BT**
			7500			150… 300	**D3100-16CT**
171	420	128	10000			300…3000	**D3100-16DT**

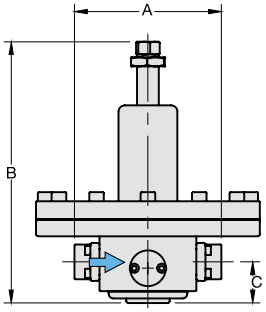
D3100-04

D3100-06/-08/-10/-1A

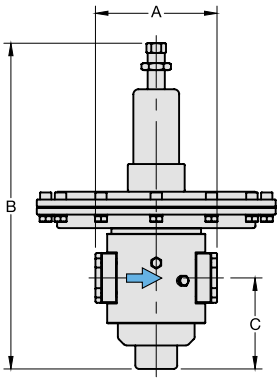
D3100-12/-16



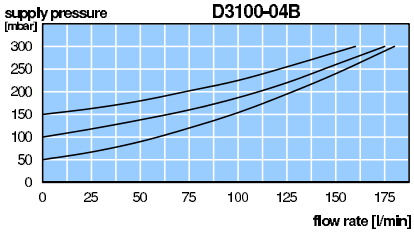
D3100-04



D3100-06/-08/-10/-1A



D3100-12/-16



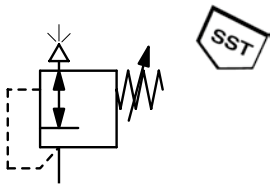
*1 at 6 bar overpressure and open outlet
*2 **B6** = 0…60 mbar, **C3** = 0…250 mbar

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
D3100-04AT

Description	The diaphragm back pressure regulator protects compressed air devices from excessive pressure. If the pressure setpoint is exceeded, overpressure is vented into the atmosphere until the setpoint is reached again. It is recommended to choose a pressure range as low as possible.		
Media	compressed air, gases	**System pressure**	max. 6 bar
Adjustment	by adjusting screw for D3100-04 to - 1A, with locknut by T-handle for D3100-12 and -16, with locknut		
Gauge port	G¼ on both sides of the body, screw plugs supplied	**Mounting position**	any
Temperature range	0 °C to 80 °C / 32 °F to 176 °F, FKM or EPDM 0 °C to 130 °C / 32 °F to 266 °F, 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 Inner valve: stainless steel 316L, material no. 1.4404	O-rings:	FKM, optionally EPDM



G½ and G2
5…45/3000 mbar

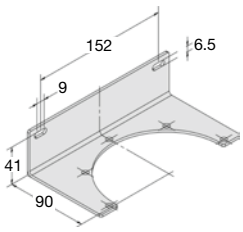
Dimensions A mm	B mm	C mm	Exhaust rate l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range mbar	Order number

Special options, add the appropriate letter

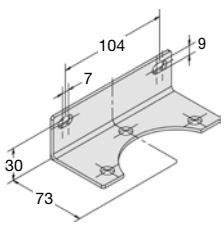
NPT	connection thread		D3100-. . . .**N**
FKM -o-ring			D3100-. . .**T**
EPDM-o-ring			D3100-. . .**TE**
EPDM-o-ring	FDA-approval		D3100-. . .**TD**
down to -40 °C/ -40°F	low temperature version	from G¼ (02) on	D3100-. . . .**X51**
up to 130 °C/266 °F	high temperature version	from G¼ (02) on	D3100-. . . .**X54**
ammonia	NH_3		D3100-. . . .**02**
carbon dioxide	CO_2		D3100-. . . .**03**
argon	Ar		D3100-. . . .**05**
nitrogen	N_2		D3100-. . . .**07**
helium	He		D3100-. . . .**09**
hydrogen	H_2		D3100-. . . .**11**
methane	CH_4		D3100-. . . .**13**
natural gas *3			D3100-. . . .**14**
Sauerstoff	O_2		D3100-. . . .**15**
propane	C_3H_8		D3100-. . . .**16**
nitrous oxide	N_2O		D3100-. . . .**17**
flange connection	see end of the chapter / flanges		D3100-. . . .**F.**

Accessories, enclosed

pressure gauge	Ø 63 mm, 0…*2 mbar, G¼, capsule type	up to 600 mbar	**MS6302-..***2
	Ø 63 mm, 0…*2 bar, G¼, Bourdon tube	from 1 bar on	**MS6302-01**
gauge connection parts		for G½	**AM-03S**
mounting bracket		for G½	**BW00-26S**
		for G1	**BW00-27S**



BW00-26S



BW00-27S

*1 at 6 bar overpressure and open outlet
*2 **B6** = 0…60 mbar, **C3** = 0…250 mbar, **C4** = 0...400 mbar, **C6** = 0...600 mbar, **01** = 0...1 bar, **02** = 0...2 bar, **04** = 0...4 bar
*3 without DVGW-approval

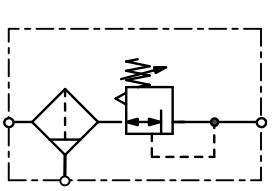
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
MS6302-B6

FILTER REGULATOR MADE OF STAINLESS STEEL THROUGHOUT, P1: MAX. 80 BAR B3000

Description	Filter pressure regulator with bowl without sight glass, completely made of stainless steel. Diaphragm-operated, from size G¾ on piston-operated.
Media	compressed air, gases or liquids
Supply pressure	max. 30 bar, 50 bar or 80 bar (with drain plug only)
Adjustment	by adjusting screw, from B3000-12 on with T-handle, max. 50 bar for B3000-02 to -16, optionally 80 bar
Relieving function	relieving, optionally non-relieving
Gauge port	G¼ on both sides of the body, G⅛ for B3000-01/-A2, one screw plug supplied
Filter element	50 µm and 5 µm, made of stainless steel **Bowl** stainless steel version without sight glass
Drain	manual drain (max. 30 bar), screw plug for 50 bar and 80 bar version automatic drain (max. 16 bar) for G¼ (02) up to G1
Temperature range	-20 °C to 80 °C / -4 °F to 176 °F for NBR/Buna-N, EPDM or FKM -20 °C to 130 °C / -4 °F to 266 °F for high temperature version or low temperature version down to -40 °C / -40 °F
Werkstoffe	Body / Bowl / Inner valve : stainless steel 316L, material-no. 1.4404 O-rings: FKM, optionally EPDM Diaphragm: NBR/Buna-N with PTFE-coating



G⅛ up to G2, FDA
max. 80 bar, up to 130 °C/ 266 °F

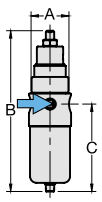
Dimensions A mm	B mm	C mm	Bowl capacity l	Flow rate l/min*1	Filter element µm	Connection thread G	Pressure range bar	Order number
Filter pressure regulator				with screw plug, relieving, w/o gauge, supply pressure max. 30 / 50 bar,				**B3000**
40	155	85	0.03	200	5	G⅛	0.8… 8	**B3000-01GH**
							1.5… 15	**B3000-01GDH**
				280	50		0.8… 8	**B3000-01H**
							1.5… 15	**B3000-01DH**
40	155	85	0.03	200	5	G¼	0.8… 8	**B3000-A2GH**
							1.5… 15	**B3000-A2GDH**
				280	50		0.8… 8	**B3000-A2H**
							1.5… 15	**B3000-A2DH**
64	246	124	0.14	600	5	G¼	0.8… 8	**B3000-02G**
							1.5… 15	**B3000-02GD**
				800	50		0.8… 8	**B3000-02**
							1.5… 15	**B3000-02D**
64	246	124	0.14	600	5	G⅜	0.8… 8	**B3000-03G**
							1.5… 15	**B3000-03GD**
				800	50		0.8… 8	**B3000-03**
							1.5… 15	**B3000-03D**
79	255	128	0.2	2200	5	G½	0.8… 8	**B3000-04G**
							1.5… 15	**B3000-04GD**
				3000	50		0.8… 8	**B3000-04**
							1.5… 15	**B3000-04D**
137	304	168	0.5	4500	5	G1	0.8… 8	**B3000-08G**
							1.5… 15	**B3000-08GD**
				6000	50	B3000-**06** for G¾	0.8… 8	**B3000-08**
							1.5… 15	**B3000-08D**
241	304	168	0.5	4500	5	G1½	0.8… 8	**B3000-1AG**
							1.5… 15	**B3000-1AGD**
				6000	50	B3000-**10** for G1¼	0.8… 8	**B3000-1A**
							1.5… 15	**B3000-1AD**
171	482	213	1.0	15500	5	G1½	0.8… 8	**B3000-12G**
							1.5… 15	**B3000-12GD**
				20000	50		0.8… 8	**B3000-12**
							1.5… 15	**B3000-12D**
171	482	213	1.0	15500	5	G2	0.8… 8	**B3000-16G**
							1.5… 15	**B3000-16GD**
				20000	50		0.8… 8	**B3000-16**
							1.5… 15	**B3000-16D**


B3000-01/-A2

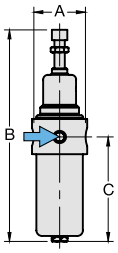

B3000-02/-03


B3000-04

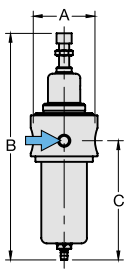

B3000-12/-16



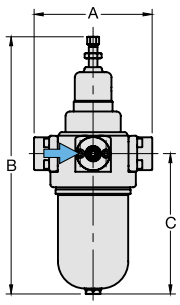
B3000-01/-A2



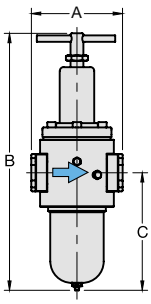
B3000-02/-03



B3000-04



B3000-06/-08/-10/-1A



B3000-12/-16

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

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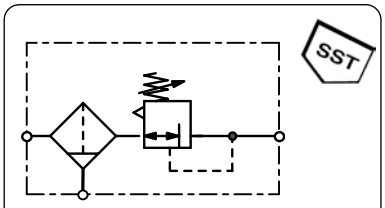
Order example:
B3000-01GH

SST
SST
15

FILTER REGULATOR MADE OF STAINLESS STEEL THROUGHOUT, P1: MAX. 80 BAR B3000

Description	Filter pressure regulator with bowl without sight glass, completely made of stainless steel. Diaphragm-operated, from size G¾ on piston-operated.
Media	compressed air, gases or liquids
Supply pressure	max. 30 bar, 50 bar or 80 bar (with drain plug only)
Adjustment	by adjusting screw, from B3000-12 on with T-handle, max. 50 bar for B3000-02 to -16, optionally 80 bar
Relieving function	relieving, optionally non-relieving
Gauge port	G¼ on both sides of the body, G⅛ for B3000-01/-A2, one screw plug supplied
Filter element	50 µm and 5 µm, made of stainless steel **Bowl** stainless steel version without sight glass
Drain	manual drain (max. 30 bar), screw plug for 50 bar and 80 bar version automatic drain (max. 16 bar) for G¼ (02) up to G1
Temperature range	-20 °C to 80 °C / -4 °F to 176 °F for NBR/Buna-N, EPDM or FKM -20 °C to 130 °C / -4 °F to 266 °F for high temperature version or low temperature version down to -40 °C / -40 °F
Werkstoffe	Body / Bowl / Inner valve : stainless steel 316L, material-no. 1.4404 O-rings: FKM, optionally EPDM Diaphragm: NBR/Buna-N with PTFE-coating

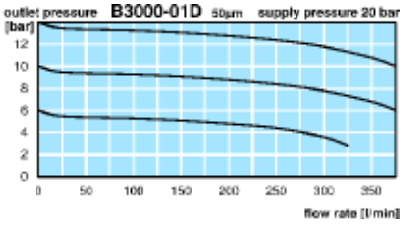


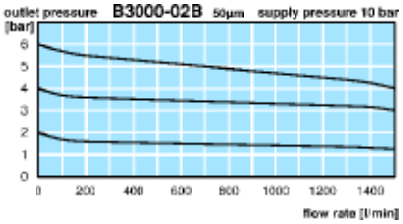
G⅛ up to G2, FDA
max. 80 bar, up to 130 °C/ 266 °F

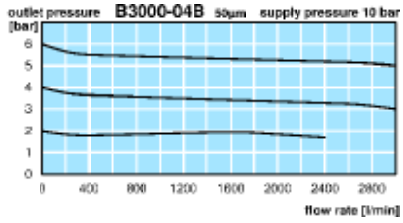
Dimensions A	B	C	Bowl capacity	Flow rate	Filter element	Connection thread	Pressure range	Order number
mm	mm	mm	l	l/min*1	µm	G	bar	

Special options, add the appropriate letter

NPT	connection thread	for G⅛ and G¼ (A2)	B3000-....**N**
NPT	connection thread	for G¼ (02) to G2	B3000-....**N**
02 ... 3 bar regulating range		for G⅛ to G1½ (1A)	B3000-....**B**
manual drain max. 30 bar		for G¼ (02) to G2	B3000-....**H**
automatic drain	max. 16 bar	for G¼ (02) to G2	B3000-....**R**
non-relieving	without relieving function		B3000-....**K**
P_1: max. 80 bar		for G¼ (02) to G1½ (1A)	B3000-....**X48**
down to -40 °C/ -40°F	low temperature version	from G¼ (02) on	B3000-....**X51**
up to 130 °C/ 266 °F	high temperature version		B3000-....**X54**
EPDM-o-ring			B3000-....**E**
EPDM-o-ring	FDA-Zulassung		B3000-....**TD**
SST diaphragm	not suitable for water	for G¼ (02) to G½	B3000-....**S**
ammonia *3 NH_3			B3000-....**02**
carbon dioxide CO_2			B3000-....**03**
argon Ar			B3000-....**05**
nitrogen N_2			B3000-....**07**
helium He			B3000-....**09**
hydrogen H_2			B3000-....**11**
Methan CH_4			B3000-....**13**
natural gas*3			B3000-....**14**
oxygen O_2			B3000-....**15**
propane C_3H_8			B3000-....**16**
nitrous oxide N_2O			B3000-....**17**
flange connection	see end of the chapter / flanges		B3000-....**F.**

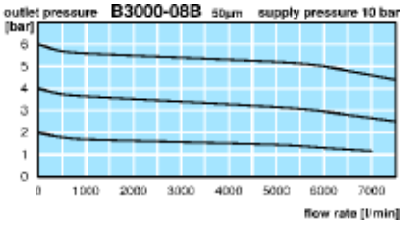


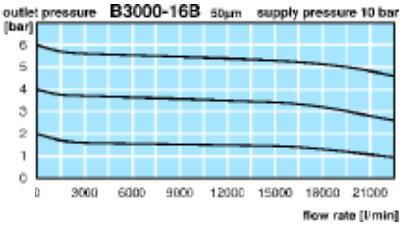


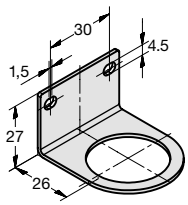


Accessories, enclosed

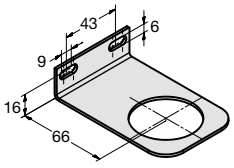
pressure gauge	Ø 40 mm, 0...*2 bar, G⅛	for G⅛ and G¼ (A2)	**MS4001-..*2**
	Ø 50 mm, 0...*2 bar, G¼	for G¼ to G½	**MS5002-..*2**
	Ø 63 mm, 0...*2 bar, G¼	for G¾ to G2	**MS6302-..*2**
mounting bracket		for G⅛ and G¼ (A2)	**BW30-03S**
mounting nut			**M30x1,5S**
mounting bracket		for G¼ (02), G⅜ u. G¾ to G1½ (1A)	**BW45-03S**
mounting nut			**M45x1,5S**
mounting bracket		for G½	**BW50-01S**
mounting nut			**M50x1,5S**
mounting bracket		for G1½ (12) and G2	**BW00-62S**



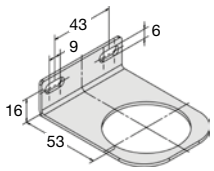




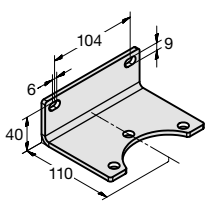
BW30-03S



BW45-03S



BW50-01S



BW00-62S

*2 **04** = 0...4 bar, **10** = 0...10 bar, **16** = 0...16 bar *3 without DVGW-approval

PDF CAD
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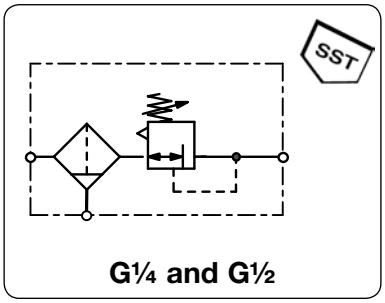
Order example:
MS4001-04

Description	Regulator of small, compact design, ideal for limited space conditions. Application examples are the chemistry, petroleum processing as well as food industry and medical technology.
Media	compressed air, gases or liquids
Supply pressure	max. 21 bar
Adjustment	by plastic knob with snap-lock, optionally by T-handle at B558
Relieving function	relieving, optionally non-relieving
Gauge port	G¼ on both sides of the body, screw plugs supplied
Filter element	20 µm at B548, 40 µm at B11, made of polypropylene
Bowl	stainless steel version without sight glass
Drainage	manual drain as standard for max. 21 bar, optionally automatic drain for max. 12 bar
Temperature range	0 °C to 80 °C / 32 °F to 176 °F, max. 50 °C / 122 °F at automatic drain version
Material	Body: stainless steel 316, material no. 1.4401 Spring cage: glass fibre-reinforced plastic at B11 and B548, stainless steel 316 / 1.4401 at B558 Elastomer: FKM Inner valve: stainless steel 316, material no. 1.4401 and plastic



G¼ and G½

Dimensions A mm	B mm	C mm	Bowl capacity l	Flow rate m³/h*1	l/min*1	Supply max. bar	Connection thread G	Pressure range bar	Order number
Miniature filter pressure regulator manual drain, relieving, w/o gauge, 20 µm filter element									**B548-S**
40	156	95	0.04	27	450	21	G¼	0.2 ... 1.8	**B548-02DHAS**
								0.2 ... 4.0	**B548-02DHBS**
								0.3 ... 9.0	**B548-02DHCS**
"Midi" filter pressure regulator manual drain, relieving, w/o gauge, 40 µm filter element									**B11-S**
62	216	125	0.12	138	2300	21	G½	0.2 ... 1.8	**B11-04DJAS**
								0.2 ... 4.0	**B11-04DJBS**
								0.3 ... 9.0	**B11-04DJCS**
								0.5 ... 17	**B11-04DJDS**

B548, accessory: gauge

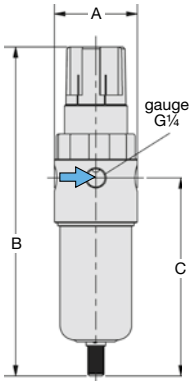
B11, accessory: gauge

Special options, add the appropriate letter

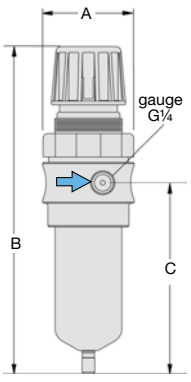
5 µm filter element			B . . . -0. . **G**. .
NPT	connection thread		B . . . -0. . . . . **N**
automatic drain	made of SST, SA10MDSS, max. 12 bar	for B11	B11 -04. . . . **R**
non-relieving	without relieving function		B . . . -0. . . . . **K**
SST spring cage	incl. SST adjusting screw, height B =141 mm	for B548	B558-02D . . .
	incl. SST adjusting screw, height B =246 mm	for B11	B12-04D . . .

Accessories, enclosed

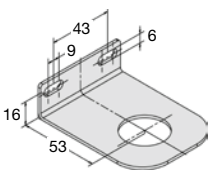
pressure gauge	Ø 40 mm, 0...*2 bar, G¼	for B548	**MS4002-..*2**
	Ø 50 mm, 0...*2 bar, G¼	for B11	**MS5002-..*2**
mounting bracket		for B548	**BW30-03S**
mounting nut		for B548	**M30x1,5S**
mounting bracket		for B11	**BW45-03S**
mounting nut		for B11	**M45x1,5S**



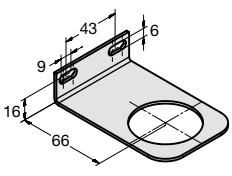
B548



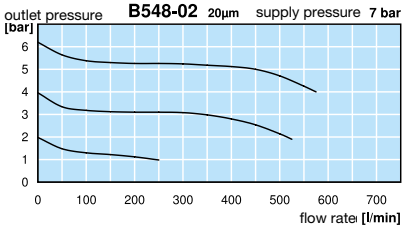
B11

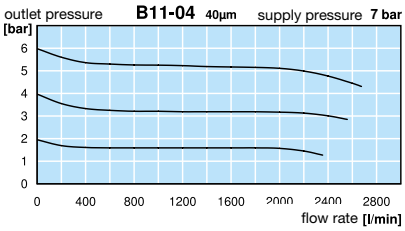


BW30-03S



BW45-03S





*1 at 7 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

*2 **04** = 0...4 bar, **10** = 0...10 bar, **16** = 0...16 bar

Extensions: see chapter for FRL service units
Gauges: see chapter for measuring devices
Spare parts: see separate spare parts list

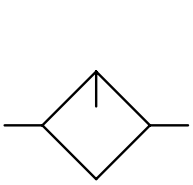
PDF CAD
www.aircom.net

Order example:
B548-02DHAS

SST
SST
15

LUBRICATOR MADE OF STAINLESS STEEL THROUGHOUT, UP TO 50 BAR L3000

Description	Lubricator for compressed air with bowl without sight glass, extremely robust, with manual adjustment of oil drip rate.
Bowl	stainless steel version without sight glass
Operating pressure	max. 50 bar
Temperature range	0 °C to 80 °C / 32 °F to 176 °F for NBR/Buna-N, 0 °C to 130 °C / 32 °F to 266 °F for high temperature version for appropriately conditioned 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 Bowl: stainless steel 316L, material no. 1.4404 Elastomer: FKM Inner valve: stainless steel 316L, material no. 1.4404



G⅛ to G2, max. 50 bar
-40 °C / -40 °F to 130 °C / 266 °F

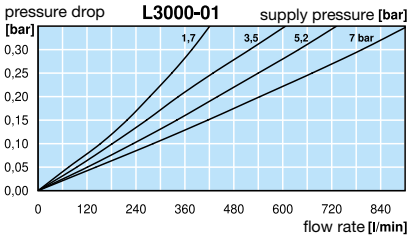
Dimensions A mm	B mm	C mm	Bowl capacity l	Flow rate m³/h*1	l/min*1	Operating pressure max. bar	Connection thread G	Order number
Lubricator				operating pressure max. 50 bar				**L3000**
40	124	80	0.04	45	750	50	G⅛	**L3000-01**
64	174	130	0.14	54	900	50	G¼	**L3000-02**
				60	1000		G⅜	**L3000-03**
79	177	130	0.20	144	2400	50	G½	**L3000-04**
137	202	168	0.50	480	8000	50	G¾	**L3000-06**
				480	8000		G1	**L3000-08**
241	202	168	0.50	480	8000	50	G1¼	**L3000-10**
				480	8000		G1½	**L3000-1A**
171	278	218	1.00	720	12000	50	G1½	**L3000-12**
				780	13000		G2	**L3000-16**

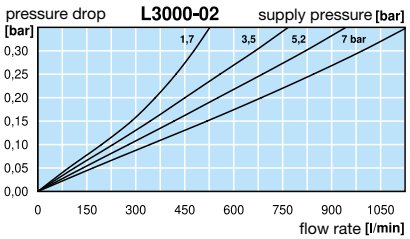
L3000-02/-03

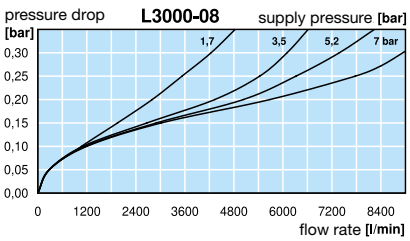
L3000-04

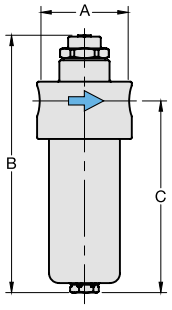
Special options, add the appropriate letter

NPT	connection thread	for G⅛ to G½	L3000-. . **N**
NPT	connection thread	for G¾ to G1½ (1A)	L3000-. . **N**
down to -40 °C / -40 °F	low temperature version	from G¼ on	L3000-. . **X51**
up to 130 °C / 266 °F	high temperature version	from G¼ on	L3000-. . **X54**
EPDM-O-Ring			L3000-. . **E**
flange connection	see end of the chapter / flanges		L3000-. . **F.**

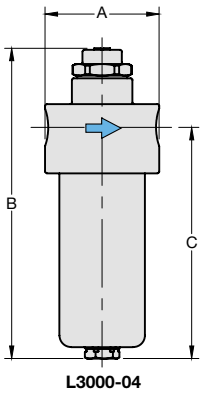




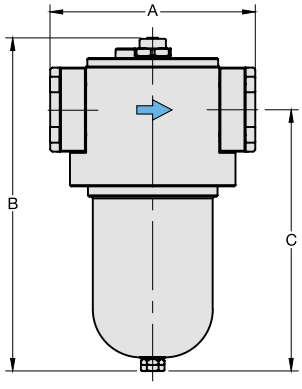




L3000-02/-03



L3000-04



L3000-06/.../-16

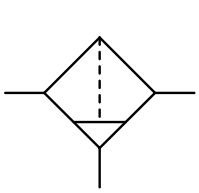
*1 at 7 bar operating pressure and 0.33 bar pressure drop

Extensions: see chapter for FRL service units

PDF CAD
www.aircom.net

Order example:
L3000-01

Description	Filter with bowl without sight glass completely made of stainless steel, extremely robust, suitable for compressed air, gases or liquids. Application examples are the chemistry, petroleum processing as well as food industry and medical technology.
Filter element	50 µm, optionally 5 µm, made of stainless steel, coalescing filer 0.1 µm at 99,99%
Bowl	stainless steel version without sight glass
Drainage	screw plug as standard, optionally for compressed air only: manual drain (max. 30 bar), automatic drain (max. 16 bar)
Operating pressure	max. 50 bar (without drain), optionally manual drain (max. 30 bar) or automatic drain (max. 16 bar)
Temperature range	0 °C to 80 °C / 32 °F to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °F 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 Bowl: stainless steel 316L, material no. 1.4404 Elastomer: FKM, optionally EPDM Inner valve: stainless steel 316L, material no. 1.4404

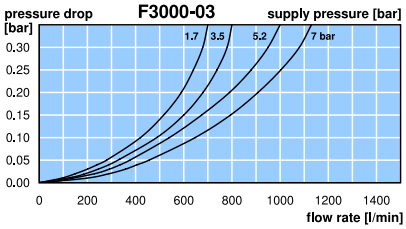


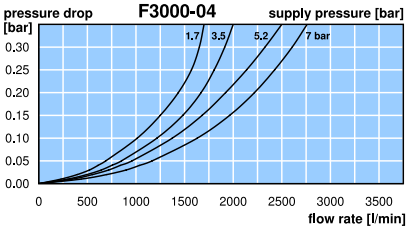
G⅛ up to G2, max. 80 bar
-40 °C to 130 °C, FDA

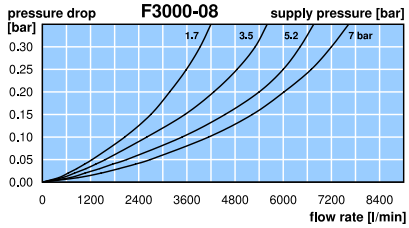
Dimensions A mm	B mm	C mm	Bowl capacity l	Flow rate m³/h*1	l/min*1	P_1 max. bar	Filter element µm	Connection thread G	Order number
Stainless steel filter, up to 50 bar with screw plug									**F3000**
40	92	81	0.03	45	750	50	50	G⅛	**F3000-01**
							5		**F3000-01G**
40	92	81	0.03	45	750	50	50	G¼	**F3000-A2**
							5		**F3000-A2G**
64	140	125	0.14	54	900	50	50	G¼	**F3000-02**
							5		**F3000-02G**
							0.01		**F3000-02I**
64	140	125	0.14	60	1000	50	50	G⅜	**F3000-03**
							5		**F3000-03G**
							0.01		**F3000-03I**
79	150	130	0.20	150	2500	50	50	G½	**F3000-04**
							5		**F3000-04G**
							0.01		**F3000-04I**
137	194	167	0.50	432	7200	50	50	G¾	**F3000-06**
							5		**F3000-06G**
							0.01		**F3000-06I**
137	194	167	0.50	432	7200	50	50	G1	**F3000-08**
							5		**F3000-08G**
							0.01		**F3000-08I**
241	194	167	0.50	432	7200	50	50	G1¼	**F3000-10**
							5		**F3000-10G**
							0.01		**F3000-10I**
241	194	167	0.50	432	7200	50	50	G1½	**F3000-1A**
							5		**F3000-1AG**
							0.01		**F3000-1AI**
171	254	218	1.00	900	15000	50	50	G1½	**F3000-12**
							5		**F3000-12G**
171	254	218	1.00	960	16000	50	50	G2	**F3000-16**
							5		**F3000-16G**

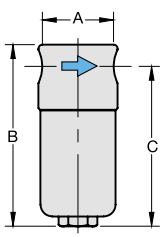
F3000-02

F3000-04

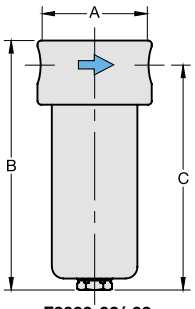




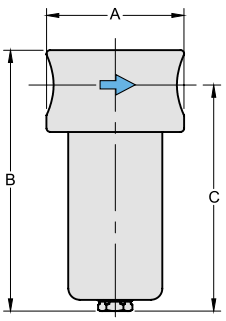




F3000-01/-A2



F3000-02/-03



F3000-04

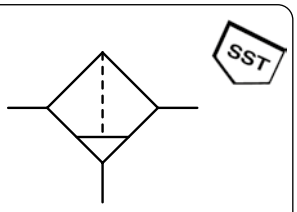
*1 at 7 bar operating pressure and 0.33 bar pressure drop

Extensions: see chapter for FRL service units
Spare parts: see separate spare parts list

PDF CAD
www.aircom.net

Order example:
F3000-01

Description	Filter with bowl without sight glass completely made of stainless steel, extremely robust, suitable for compressed air, gases or liquids. Application examples are the chemistry, petroleum processing as well as food industry and medical technology.
Filter element	50 µm, optionally 5 µm, made of stainless steel, coalescing filer 0.1 µm at 99,99%
Bowl	stainless steel version without sight glass
Drainage	screw plug as standard, optionally for compressed air only: manual drain (max. 30 bar), automatic drain (max. 16 bar)
Operating pressure	max. 50 bar (without drain), optionally manual drain (max. 30 bar) or automatic drain (max. 16 bar)
Temperature range	0 °C to 80 °C / 32 °F to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °F 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 Bowl: stainless steel 316L, material no. 1.4404 Elastomer: FKM, optionally EPDM Inner valve: stainless steel 316L, material no. 1.4404

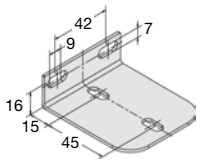


G⅛ up to G2, max. 80 bar
-40 °C to 130 °C, FDA

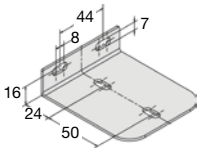
Dimensions A mm	B mm	C mm	Bowl capacity l	Flow rate m³/h*1	l/min*1	P_1 max. bar	Filter element µm	Connection thread G	Order number

Special options, add the appropriate letter

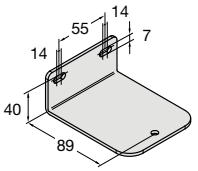
NPT	connection thread	for G⅛ and G¼ (A2)	F3000-..**N**
NPT	connection thread	for G¼ (02) to G2	F3000-..**N**
P_1: max. 80 bar		for G¼ (02) to G2	F3000-..**X48**
down to -40 °C /-40 °F	low temperature version		F3000-..**X51**
up to 130 °C / 266 °F	high temperature version		F3000-..**X54**
manual drain	max. 30 bar		F3000-..**H**
automatic drain	max. 16 bar	for G¼ (02) to G2	F3000-..**R**
EPDM-elastomer			F3000-..**E**
EPDM-elastomer	FDA-approval		F3000-..**TD**
ammonia	NH_3		F3000-... **02**
carbon dioxide	CO_2		F3000-... **03**
argon	Ar		F3000-... **05**
nitrogen	N_2		F3000-... **07**
helium	He		F3000-... **09**
hydrogen	H_2		F3000-... **11**
methane	CH_4		F3000-... **13**
natural gas *2			F3000-... **14**
oxygen	O_2		F3000-... **15**
propane	C_3H_8		F3000-... **16**
nitrous oxide	N_2O		F3000-... **17**
flange connection	see end of the chapter / flanges		F3000-... **F.**



BW00-17S



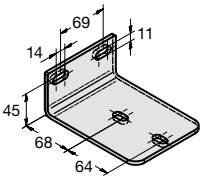
BW00-18S



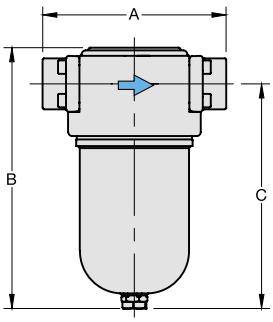
BW00-28S

Accessories, enclosed

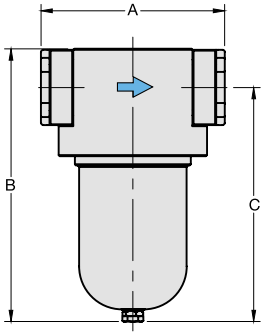
mounting bracket	for G¼ (02) and G⅜	**BW00-17S**
	for G½	**BW00-18S**
	for G¾ (06) to G1½ (1A)	**BW00-19S**
	for G1½ (12) and G2	**BW00-63S**



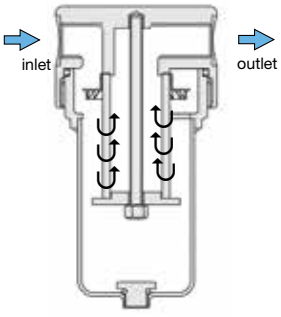
BW00-63S



F3000-06/-08/-10/1A



F3000-12/-16



cross-section

*1 at 7 bar operating pressure and 0.33 bar pressure drop

*2 without DVWG-approval

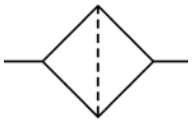
Extensions: see chapter for FRL service units
Spare parts: see separate spare parts list

PDF CAD
www.aircom.net

Order example:
BW00-17S

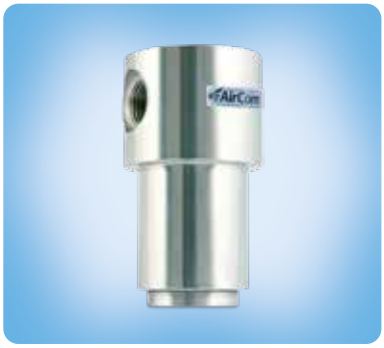
STAINLESS STEEL COMPRESSED AIR FILTER, UP TO 220 BAR FH3

Description	Stainless steel filter, without sight glass, very robust design, for compressed air, gases or liquids. Application areas: Chemical industry, petroleum processing, food industry and medical technology.
Filter element	50 µm, optionally 5 µm, made of SST or Coalescing 0.01 µm / 99,99 %
Bowl	made of stainless steel, without sight glass
Operating pressure	max. 220 bar
Temperature range	-20 °C to 60 °C / -4 °F to 140 °F
Material	Body: SST 316L, material-no. 1.4404, optionally brass Bowl: SST 316L, material-no. 1.4404 Filter elements 5/50 µm: SST 316L Inner valve: SST 316L, material-no. 1.4404 Elastomer: FKM, optionally EPDM



G¼ up to 1
max. 220 bar

Dimensions A mm	B mm	C mm	Bowl capacity l	Flow rate m³/h*1	l/min*1	Filter element µm	Connection thread G	Order number
SST Filter, up to 220 bar				**50 µm / 5 µm**				**FH3**
70	123	99	0.04	120	2000	5	G¼	**FH3-02G**
				160	2670	50	G¼	**FH3-02**
				120	2000	5	G⅜	**FH3-03G**
				160	2670	50	G⅜	**FH3-03**
167	123	99	0.04	120	2000	5	G½	**FH3-04G**
				160	2670	50	G½	**FH3-04**
196	145	125	0.08	240	4000	5	G¾	**FH3-06G**
				320	5530	50	G¾	**FH3-06**
204	145	125	0.08	240	4000	5	G1	**FH3-08G**
				320	5530	50	G1	**FH3-08**



FH3-02/-03/-04

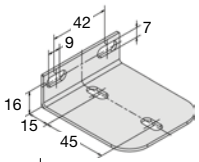
FH3-06/-08

Special options, add the appropriate letter

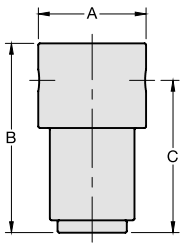
Coalescing filter	0.01 µm / 99.99 %, brass version	for G¼ to G½	FH3-..**IMS**
	0.01 µm / 99.99 %, SST version	for G¼ to G½	FH3-..**I**
	0.01 µm / 99.99 %, SST and brass version	for G¾ to G1	FH3-..**I**
NPT	connection thread		FH3-..**N**
EPDM-elastomer			FH3-..**E**
brass body			FH3-..**MS**
ammonia	NH_3		FH3-... **02**
carbon dioxide	CO_2		FH3-... **03**
argon	Ar		FH3-... **05**
nitrogen	N_2		FH3-... **07**
helium	He		FH3-... **09**
hydrogen	H_2		FH3-... **11**
methane	CH_4		FH3-... **13**
oxygen	O_2		FH3-... **15**
propane	C_3H_8		FH3-... **16**
nitrous oxide	N_2O		FH3-... **17**
water	H_2O		FH3-... **W**

Accessories, enclosed

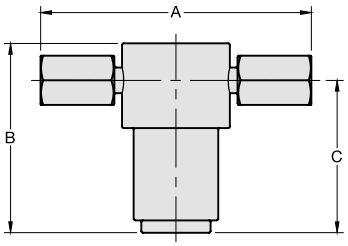
mouting bracket with screws **BW00-17S**



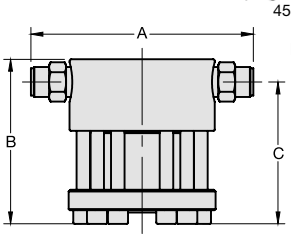
BW00-17S



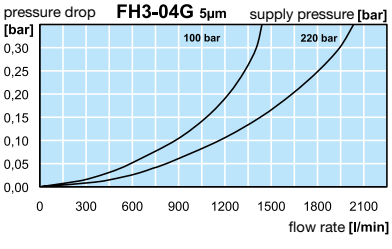
FH3-02/-03

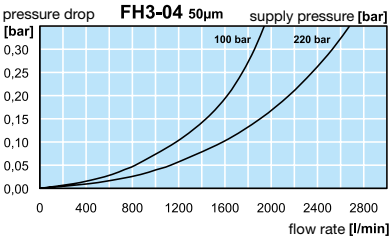


FH3-04



FH3-06/-08





*1 at max. operating pressure

Extensions: see chapter for FRL service units
Spare parts: see separate spare parts list

PDF CAD
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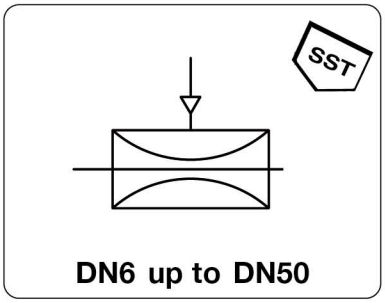
Order example:
FH3-02G

Description	The flow control valve functions as a pinch valve in a new design of housing with full flow cross-section. Since the straight valve passage has neither constrictions nor back-points, there is no danger of clogging or blockage. Frictional loss is at a minimum.
Media	compressed air, gases, liquids or other paste-like or powdery media Solids are enclosed by the flexible sleeve at shut-off.
Sleeve	Highly flexible with double woven reinforcement in eight different grades. Sleeve simple to change.
Pressures	Operating pressure: max. 4.0 bar Pilot pressure: max. 6.5 Differential pressure: max. 2.5 bar Closing pressure: P_1 + 2.5 bar to DN32, P_1 + 2 bar from DN40 on
Vacuum	If vacuum is greater than -100 mbar, vacuum compensation should be provided on the control side.
Accuracy	In the flow range of 0 to 70% the linearity of pilot pressure to flow is about 10% accurate.
Mounting position	any, at horizontal mounting pilot port preferably at the top
Temperature range	0 °C to max. 100 °C / 32 °F to max. 212 °F, subject to sleeve material
Material	Body: stainless steel 316L, material no. 1.4435 Sleeve: depending on selected version



DN6 up to DN50

Flow control valve

operating pressure max. 4 bar, pilot pressure max. 2.5 bar above operating pressure

Dimensions A mm	Ø mm	Nominal size DN	Chamber capacity l	Control port M5/G	Operating pressure max. bar	Connection thread G	Order number QE
70	26	6	0.01	M5	4	G¼	**QE06-02NR**
80	38	10	0.03	M5	4	G⅜	**QE10-03NR**
95	44	15	0.04	G⅛	4	G½	**QE15-04NR**
110	55	20	0.05	G⅛	4	G¾	**QE20-06NR**
125	60	25	0.07	G⅛	4	G1	**QE25-08NR**
140	73	32	0.10	G⅛	4	G1¼	**QE32-10NR**
150	83	40	0.13	G⅛	4	G1½	**QE40-12NR**
185	99	50	0.28	G¼	4	G2	**QE50-16NR**

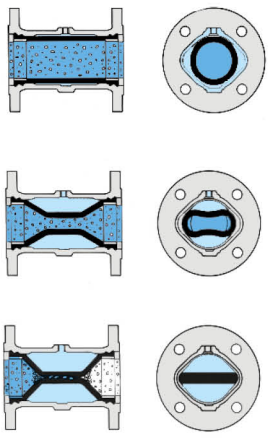
QE10

QE25

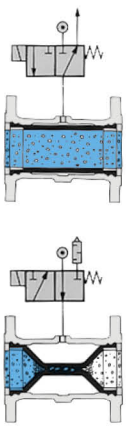
QE40

Special options, add the appropriate letter

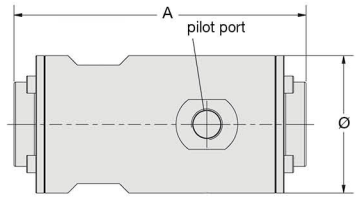
sleeve NR	natural rubber, black		80°C/176 °F	QE..-..**NR**
sleeve NRL	rubber, suitable for food, black		70°C/158 °F	QE..-..**NL**
sleeve NRLH	rubber, suitable for food, light		70°C/158 °F	QE..-..**NH**
sleeve NBR	nitrile rubber/Buna-N, suitable for food		80°C/176 °F	QE..-..**NB**
sleeve EPDM	ethylene-propylene rubber, suitable for food, black		100°C/212 °F	QE..-..**EP**
sleeve FKM	fluorine rubber, black	not QE06	100°C/212 °F	QE..-..**FK**
sleeve CR	chloroprene rubber/neoprene, black	not QE06	80°C/176 °F	QE..-..**CR**
sleeve CSM	natural rubber, chlorosulphonylpolyethylene	not QE06	80°C/176 °F	QE..-..**CS**



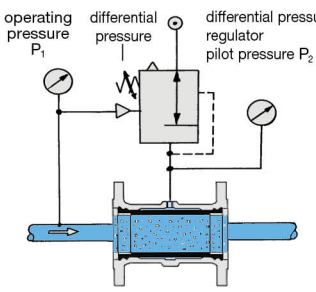
closing process



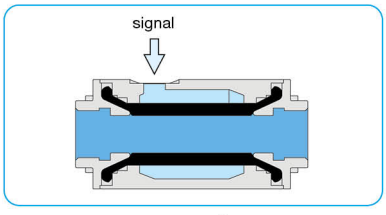
solenoid valve control



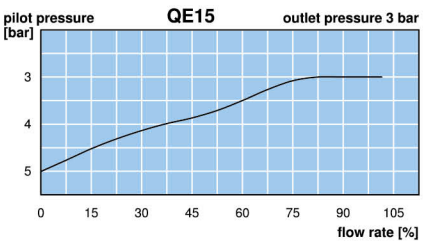
QE



constant cross section at changing operating pressure



cross section



For further pinch valves made of POM or aluminium see chapter for special devices

PDF CAD
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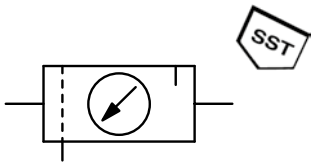
Order example: QE06-02NR

FRL SERVICE UNITS, 2-PART, COMPLETELY MADE OF STAINLESS STEEL, UP TO 50 BAR C3002

Description	FRL service unit completely made of stainless steel, very robust. Application examples are the chemistry, petroleum processing as well as food industry and medical technology.
Media	compressed air, gases or liquids
Supply pressure	max. 50 bar (without drain), optionally max. 30 bar (manual drain), max. 30 bar for C3002-01H
Adjustment	by hexagon socket screw **Relieving function** relieving, optionally non-relieving
Gauge port	G¼ on both sides of the body, G⅛ at C3002-01, one screw plug supplied
Filter element	50 µm, optionally 5 µm, made of stainless steel **Bowl** stainless steel version without sight glass
Drainage	screw plug as standard, optionally manual drain (max. 30 bar) or automatic drain (max. 16 bar)
Temperature range	-20 °C to 80 °C / -4 °F to 176 °F for FKM or EPDM -20 °C to 130 °C / -4 °F to 266 °F for high temperature version, or low temperature version down to -40°C / -40 °F
Material	Body / Bowl: stainless steel 316L, material no. 1.4404 Inner valve: stainless steel 316L / 1.4404 Diaphragm: NBR/Buna-N with PTFE coating, optionally EPDM or FKM O-rings: FKM, optionally EPDM



G⅛ up to G2
max. 50 bar, up to 130 °C

Dimensions A mm	B mm	C mm	Combination existing of	Flow rate m³/h*1	l/min*1	Connection thread G	Order number
FRL unit, 2-part				**P1: max. 50 bar, screw plug,**	**P2: 0.5...8 bar, relieving,**	**50 µm, with gauge**	**C3002**
90	155	85	B+L3000	17	280	G⅛	**C3002-01H**
138	246	124		48	800	G¼	**C3002-02**
138	246	124		48	800	G⅜	**C3002-03**
168	255	128		180	3000	G½	**C3002-04**
282	304	168		360	6000	G¾	**C3002-06**
282	304	168		360	6000	G1	**C3002-08**
393	304	168		360	6000	G1¼	**C3002-10**
393	304	168		360	6000	G1½	**C3002-1A**
362	482	213		1200	20000	G1½	**C3002-12**
362	482	213		1200	20000	G2	**C3002-16**

C3002-02/-03

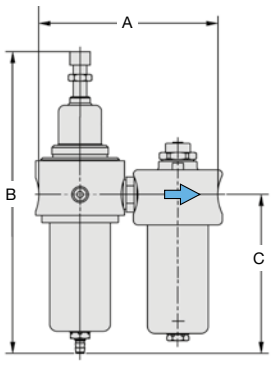
C3002-06/-08/-10/-1A

Special options, add the appropriate letter

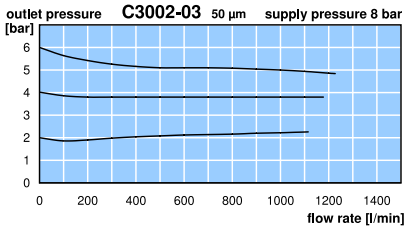
5 µm filter element		for G¼ and G½	C3002- . .**G**
		for G¾ to G1½ (1A)	C3002- . .**G**
		for G1½ (12) and G2	C3002- . .**G**
NPT	connection thread	for G¼ to G2	C3002- . .**N**
pressure range 0.2... 3 bar			C3002- . .**B**
pressure range 1 ...15 bar	P_1 max. 50 bar		C3002- . .**D**
manual drain	max. 30 bar		C3002- . .**H**
automatic drain	max. 16 bar	for G¼ to G1	C3002- . .**R**
down to -40 °C / -40 °F	low temperature version		C3002- . .**X51**
up to 130 °C / 266 °F	high temperature version		C3002- . .**X54**
EPDM-elastomer			C3002- . .**E**
flange connection	see end of the chapter / flanges		C3002- . .**F.**

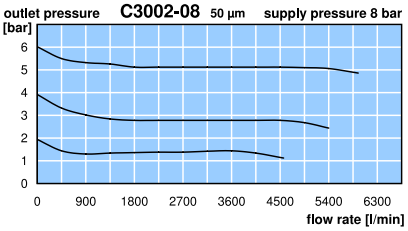
Accessories, enclosed

mounting bracket	for G⅛	**BW30-03S**
mounting nut		**M30x1,5S**
mounting bracket	for G¼, G⅜, G¾ to G1½ (1A)	**BW45-03S**
mounting nut		**M45x1,5S**
mounting bracket	for G½	**BW50-01S**
mounting nut		**M50x1,5S**
mounting bracket	for G1½ (12) and G2	**BW00-62S**



C3002





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

Further details: see chapter for single devices
Spare parts: see separate spare parts list

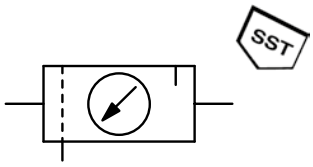
PDF CAD
www.aircom.net

Order example:
C3002-01H

SST
SST
15

FRL SERVICE UNITS, 3-PART, COMPLETELY MADE OF STAINLESS STEEL, UP TO 50 BAR C3003

Description	FRL service unit completely made of stainless steel, very robust. Application examples are the chemistry, petroleum processing as well as food industry and medical technology.
Media	compressed air, gases or liquids
Supply pressure	max. 30 bar, optionally max. 50 bar (for pressure range up to 15 bar)
Adjustment	by hexagon socket screw **Relieving function** relieving, optionally non-relieving
Gauge port	G¼ on both sides of the body, one screw plug supplied
Filter element	50 µm, optionally 5 µm, made of stainless steel **Bowl** stainless steel version without sight glass
Drainage	screw plug as standard, optionally manual drain (max. 30 bar) or automatic drain (max. 16 bar)
Temperature range	-20 °C to 80 °C / -4 °F to 176 °F for FKM or EPDM -20 °C to 130 °C / -4 °F to 266 °F for high temperature version, or low temperature version down to -40°C / -40 °F
Material	Body / Bowl: stainless steel 316L, material no. 1.4404 Inner valve: stainless steel 316L / 1.4404 Diaphragm: NBR/Buna-N with PTFE coating, optionally EPDM or FKM O-rings: FKM, optionally EPDM



G¼ up to G2
max. 50 bar, up to 130 °C

Dimensions A mm	B mm	C mm	Combination existing of	Flow rate m³/h*1	l/min*1	Connection thread G	Order number
FRL unit, 3-part				**P1: max. 50 bar, screw plug,**	**P2: 0.5...8 bar, relieving,**	**50 µm, with gauge**	**C3003**
212	168	130	F+R+L3000	42	700	G¼	**C3003-02**
257	167	130		132	2200	G½	**C3003-04**
427	219	168		231	3850	G¾	**C3003-06**
455	286	226		432	7200	G1	**C3003-08**
531	286	226		432	7200	G1¼	**C3003-10**
531	286	226		432	7200	G1½	**C3003-1A**
553	390	262		720	12000	G1½	**C3003-12**
553	390	262		780	13000	G2	**C3003-16**

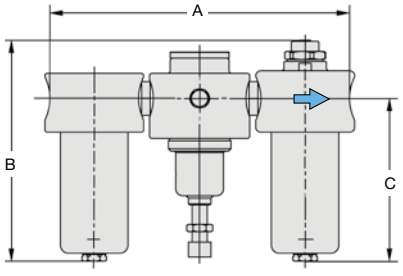
C3003-04

Special options, add the appropriate letter

5 µm filter element		for G¼ and G½	C3003- . .**G**
		for G¾ to G1½ (1A)	C3003- . .**G**
		for G1½ (12) and G2	C3003- . .**G**
NPT	connection thread	for G¼ to G2	C3003- . .**N**
pressure range 0.2... 3 bar			C3003- . .**B**
pressure range 1 ...15 bar	P_1 max. 50 bar		C3003- . .**D**
manual drain	max. 30 bar		C3003- . .**H**
automatic drain	max. 16 bar	for G¼ to G1	C3003- . .**R**
down to -40 °C / -40 °F	low temperature version		C3003- . .**X51**
up to 130 °C / 266 °F	high temperature version		C3003- . .**X54**
EPDM-elastomer			C3003- . .**E**
flange connection	see end of the chapter / flanges		C3003- . .**F.**

Accessories, enclosed

mounting bracket	for G¼	**BW45-03S**
mounting nut		**M45x1,5S**
mounting bracket	for G½	**BW50-01S**
mounting nut		**M50x1,5S**
mounting bracket	for G¾ to G1½ (1A)	**BW00-59S**
mounting bracket	for G1½ (12) and G2	**BW00-62S**



C3003

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

Further details: see chapter for single devices
Spare parts: see separate spare parts list

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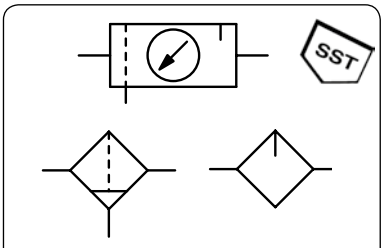
Order example:
C3003-02

Description	Compact FRL service unit, filter and lubricator made of stainless steel with high volume flow.
Media	compressed air or gases
Supply pressure	max. 21 bar
Adjustment	by plastic knob with snap-lock
Relieving function	relieving, optionally non-relieving
Gauge port	G¼ on both sides of the body of (filter) pressure regulator, screw plugs supplied
Filter element	40 µm of polypropylene at C1., 40 µm, 20 µm and 5 µm of polypropylene and 0.3 µm of borosilicate
Bowl	stainless steel version without sight glass, optionally with sight glass
Drainage	manual drain as standard for max. 21 bar, optionally automatic drain for max. 12 bar
Temperature range	0 °C to 50 °C / 32 °F to 122 °F for automatic drain version 0 °C to 70 °C / 32 °F to 158 °F for stainless steel bowl with sight glass 0 °C to 80 °C / 32 °F to 176 °F for stainless steel bowl without sight glass
Material	Body: stainless steel 316, material no. 1.4401 Spring cage: glass fibre-reinforced plastic Elastomer: FKM Bowl: stainless steel 316, material no. 1.4401 Inner valve: stainless steel and plastic



G¼ and G½

Dimensions A mm	B mm	C mm	Description	Flow rate m³/h*1	l/min*1	Filter element µm	Connection thread G	Order number
FRL service unit				supply pressure max. 21 bar, outlet 0.3...9 bar, 40 µm, manual drain, relieving, with pressure gauge				**C10-S/C11-S**
140	218	127	B11+L10	48	800	40	G½	**C11-04CJS**
220	162	127	F10+R10+L10	108	1800			**C10-04CJS**
Filter				supply pressure max. 21 bar, manual drain, bowl capacity 0.11 l				**F504-S/F10-S**
40	108	94	Polypropylen	23	380	20	G¼	**F504-02DHS**
			Polypropylen	20	340	5		**F504-02DGS**
			Coalescing	15	250	0.3		**F501-02DHS**
60	132	127	Polypropylen	114	1900	40	G½	**F10-04DJS**
			Polypropylen	102	1700	5		**F10-04DGS**
			Coalescing	58	960	0.3		**F11-04DJS**
Lubricator				supply pressure max. 21 bar, bowl capacity 0.11 l				**L10-S**
60	173	127		180	3000		G½	**L10-04DS**

C11-04CJS

C10-04CJS

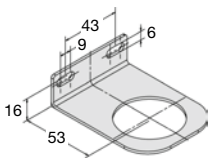
L10-S **F504-S**

Special options, add the appropriate letter

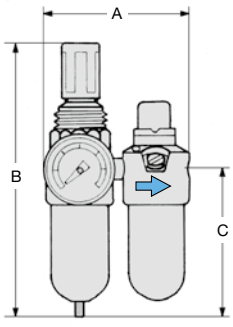
bowl with sight glass	max. 17 bar,	up to 70 °C / 158 °C	for C1. and F1.	.1.-04...**W**
NPT	connection thread			...-.....**N**
automatic drain	SA10MDSS, max. 12 bar		for C1. and F1.	.1.-04...**R**

Accessories, enclosed

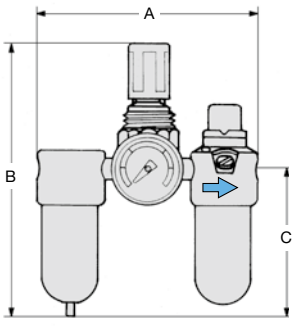
mounting bracket	for C1.	**BW45-03S**
mounting nut	for C1.	**M45x1,5S**



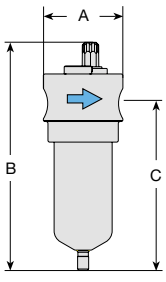
BW45-03S



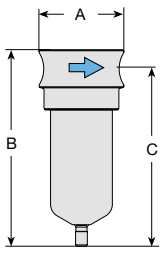
C11-S



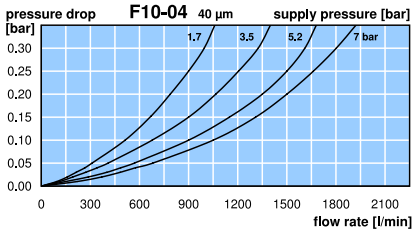
C10-S

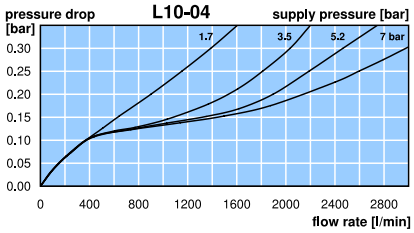


L10-S



F...-S





*1 at 7 bar supply pressure, 6 bar outlet pressure and 0.33 bar pressure drop or 1 bar pressure drop at C10/C11

Further details: see chapter for single devices
Spare parts: see separate spare parts list

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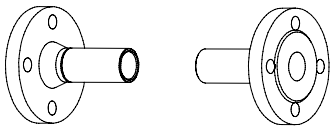
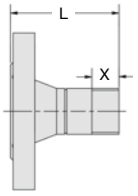
Order example:
C11-04CJS

Total device width	device width between inlet and outlet, see catalogue page, dimension A + 2x total length of flange fitting, dimension L - 2x screw-in depth of the device (on request) = total device width including flange
DIN-flange	according to DIN EN 1092-1 — according to DIN 2637 at PN100
ANSI flange	optionally according to ASME B16.5 (150 lbs), — according to ASME B16.5 (300 lbs) on request
Material	stainless steel, material-no. 1.4571

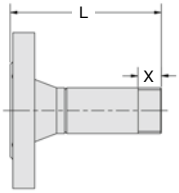


mounted flange kit DN15 up to DN80

Nominal pressure max.	for Devices		Nominal size DN	Screw-In thread G	Order number affic
Flange kit, DIN, completely assembled					**F**
PN40	BD + BM/40	F602	R119	15	G½	**F1**
	CM/40	F3000/40	R3000	20	G¾	**F1**
	C3000/40	L606	R3100/L	25	G1	**F1**
	D3100/L	LM/40	RZ/L	32	G1¼	**F1**
	DBC/L	L3000/40	R160/L	40	G1½	**F1**
	R120/40	FM/40		50	G2	**F1**
				65	G2½	**F1**
				80	G3	**F1**
PN100	BM/100	FM	LM/100	15	G½	**F1**
	CM/100	F3000/100	L3000/100	20	G¾	**F1**
	C3000/100	R120/100	R3000/100	25	G1	**F1**
				32	G1¼	**F1**
				40	G1½	**F1**
				50	G2	**F1**
				65	G2½	**F1**
Special options					
ANSI-flange					150 lbs	**F2**
					300 lbs	**F3**
					600 lbs	**F4**

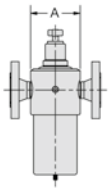


flange with normal fitting N

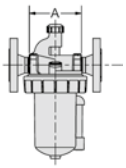


flange with long fitting L

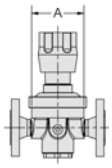
thread	fitting N		fitting L		thread
	PN40	PN100	PN40	PN100	
	L mm		L mm		X mm
G½	75	82	90	97	15
G¾	82	94	112	124	17
G1	82	100	112	130	20
G1¼	94	112	114	132	22
G1½	97	114	117	134	22
G2	100	120	120	140	26
G2½	114	138	124	148	32



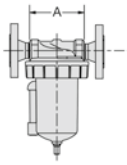
Filter regulator	PN	fitting*
BD	40	N
BM	40/100	N



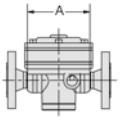
Lubricator	PN	fitting*
L606	40	N
LM	40/100	N
L3000	40/100	N



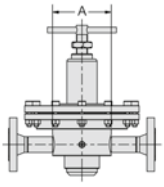
Regulator	PN	fitting*
R119	40	N
R120	40/100	N
R3000	40/100	N



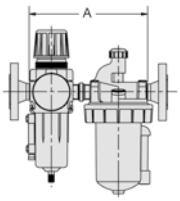
Filter	PN	fitting*
F602	40	N
FM	40/100	N
F3000	40/100	N



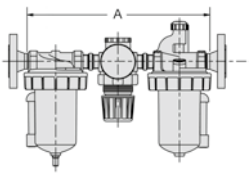
Booster	PN	fitting*
R119-J	40	N
R120-J	40/100	N
R3000-J	40/100	N



low pressure regulator	PN	fitting*
R3100	40	L
D3100	40	L
RZ	40	L
R160	40	L
DBC	40	L



FRL service unit	PN	fitting*
CM2	40/100	N
C3002	40/100	N



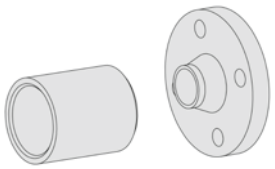
FRL service unit	PN	fitting*
C630	40	N
CM3	40/100	N
C3003	40/100	N

***** **N** = normal fitting **L** = long fitting

PDF CAD
www.aircom.net

Order example: F602-16WJF1

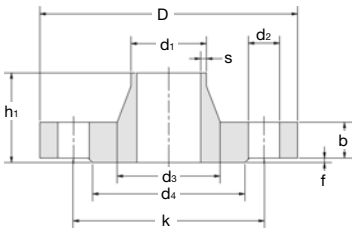
Threaded flange	according to DIN EN 1092-1 ANSI / ASME B16.5 (150 lbs), ASME B16.5 (300 lbs), ASME B16.5 (600 lbs)
Material	1.4571 (316TI)
Weld-on fitting	with conical Withworth-thread, according to DIN EN 10241
Material	1.4571



flanges and fittings DN8 up to DN65

Welding neck flange, as per DIN EN 1092-1 (PN40) — VSV

d1/s	D	h_1	b	d_4	f	k	d_2	d_3	Screws	Connection thread Rp	Nominal size DN	Order number
21.3 x 2.0	95	36	16	45	2	65	14	32	4 x M12	–	15	**VSV-1540**
26.9 x 2.3	105	40	18	58	2	75	14	40	4 x M12	–	20	**VSV-2040**
33.7 x 2.6	115	40	18	68	2	85	14	46	4 x M12	–	25	**VSV-2540**
42.4 x 2.6	140	42	18	78	2	100	18	56	4 x M16	–	32	**VSV-3240**
48.3 x 2.6	150	45	18	88	3	110	18	64	4 x M16	–	40	**VSV-4040**
60.3 x 2.9	165	48	20	102	3	125	18	75	4 x M16	–	50	**VSV-5040**
76.1 x 2.9	185	52	22	122	3	145	18	90	4 x M16	–	65	**VSV-6540**
88.9 x 3.2	200	58	24	138	3	160	18	105	8 x M16	-	80	**VSV-8040**



VSV welding neck flange

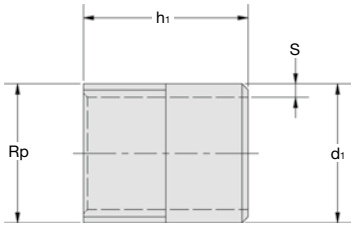
SST

Special options, add the appropriate letter or number

PN100	according to DIN 2637	**100**	VSV-. . . .**100**
ANSI/ASME-flange	B16.5 150 lbs	**150 lbs**	VSV-. . . .**150 lbs**
ANSI/ASME-flange	B16.5 300 lbs	**300 lbs**	VSV-. . . .**300 lbs**
ANSI/ASME-flange	B16.5 600 lbs up to DN25	**600 lbs**	VSV-. . . .**600 lbs**

Weld-on fitting — as per DIN 2999 with conical Whitworth thread (BSPT) — VSA

13.5 x 2.35	30	PN50	¼″	8	**VSA-02**
21.3 x 2.65	35	PN50	½″	15	**VSA-04**
26.9 x 2.65	40	PN50	¾″	20	**VSA-06**
33.7 x 3.25	40	PN50	1″	25	**VSA-08**
42.4 x 3.25	50	PN40	1¼″	32	**VSA-10**
48.3 x 3.25	50	PN40	1½″	40	**VSA-12**
60.3 x 3.65	50	PN40	2″	50	**VSA-16**
76.1 x 3.65	60	PN25	2½″	65	**VSA-20**



VSA weld-on fitting

PDF CAD
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Order example: VSV-1540