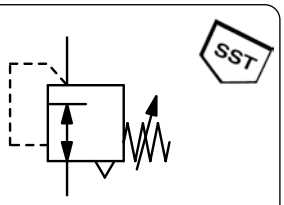
STAINLESS STEEL DEVICES

	DESCRIPTION	PRESSURE RANGE bar	CONNECTION thread	SERIES	PAGE
PRESSURE REGULATOR	Midi-Series	0.2 ... 4.0 / 17	G½	R10-S	**15.02**
	Midi-Series	0.2 ... 1.8 / 9	G¼	R364-S	**15.03**
	many variations, also FDA	0.1 ... 1.5 / 50	G⅛ - DN100	R3000	**15.04**
	with flange	0.2 ... 3 / 16	DN15 - DN50	REF	**15.08**
	also FDA	0.2 ... 3 / 16	G¼ - G2	REA	**15.09**
	Tri-Clamp	0.2 ... 1.5 / 8	ASME-BPE ½″ -1½″	RTC	**15.10**
	Tri-Clamp, low pressure	0.005 ... 0.045 / 1.2	ASME-BPE ½″ -1½″	RTCN	**15.11**
	precise, also FDA	0.02 ... 1.5 / 10	G¼ u. G½	R3150	**15.12**
	low pressure	0.005 ... 0.045 / 1,5	G¼ - G2	R3100	**15.13**
VOLUME BOOSTER	for many gases	1 ... 15 / 60	G¼ - G2	R3000-J	**15.18**
	precise	0 ... 10	¾″NPT u. 1″NPT	R601	**15.21**
	with ratio	3 ... 42 / 104	½″NPT u. ¾″NPT	RH3-JS1	6.14
	pressure reducer	0.1 ... 24 / 99	G1	RLE	6.15
BACK PRESSURE REG.	für viele Gase	0.1 ... 1.5 / 50	G⅛ - G2	D3000	**15.22**
	Niederdruck	0.005 ... 0.045 / 1,5	G¼ - G2	D3100	**15.26**
HIGH PRESSURE REG.	for many gases	1 ... 8 / 200	G¼ - G1¼	RH3000	**15.16**
	regulator P1: 690 bar	0.3 ... 35 / 414	¼″NPT	HP300-S	4.16
	regulator P1: 414 bar	0.7 ...104 / 172	¼″NPT	HP400-S	4.16
	regulator P1: 300 bar	0.1 ... 1.7 / 35	¼″NPT	HP500-S	4.17
	regulator P1: 260 bar	0.7 ... 21 / 104	½″NPT u. ¾″NPT	RH3-S	4.18
FRL SERVICE UNITS	FR, for many gases, also FDA	0.2 ... 3 / 50	G⅛ - G2	B3000	**15.29**
	filter, also FDA	max. 50	G¼ - G2	F3000	**15.33**
	filter	max. 220	G¼ - G1	FH3	**15.35**
	filter	max. 500	¼″NPT - 2″NPT	FB	**15.36**
	lubricator	max. 50	G⅛ - G2	L3000	**15.38**
	FRL	0.2 ... 3 / 15	G⅛ - G2	C3002, C3003	**15.39**
PINCH VALVES	2/2-solenoid valve	max. 4	G¼ - G2	QE	**15.37**



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
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	K_V-rate (m^3/h)	Flow thread m^3/h*1	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	144	2400	G½	0.3…9.0	**R10-04CS**
								0.5… 17	**R10-04DS**
60	124	35	non-relieving for liquids	2.6	2.6	43	G½	0.3…9.0	**R10-04CSK**
								0.5… 17	**R10-04DSK**



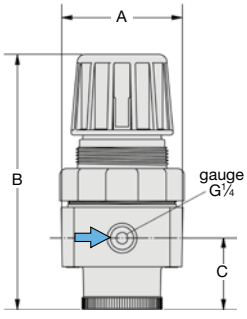
R10-S



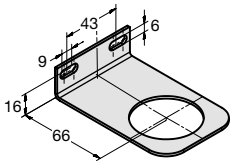
cross section

Accessories, enclosed

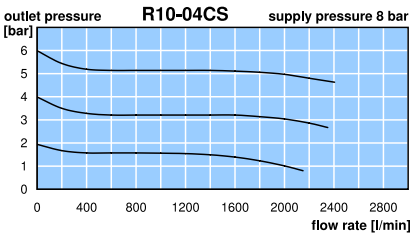
pressure gauge	Ø 50 mm, 0…*2 bar, G¼	**MS5002-..*2**
mounting bracket		**BW45-03S**
mounting nut		**M45X1,5S**



R10-S



BW45-03S



*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop
*2 **10** = 0…10 bar, **16** = 0…16 bar, **25** = 0…25 bar

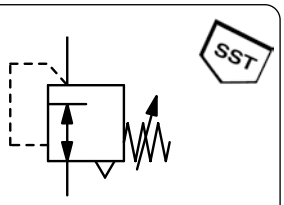
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example
R10-04CS

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
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

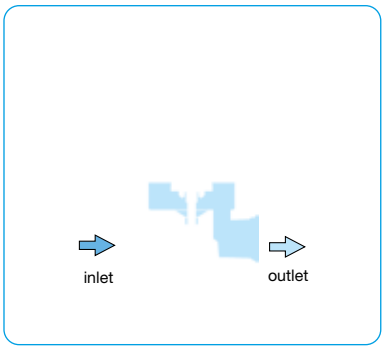
Dimensions A mm	B mm	C mm	Description	K_v-value (m^3/h)	Flow rate m^3/h*1	Flow rate l/min*1	Connection thread G	Pressure range bar	Order number
Stainless steel pressure regulator supply pressure max. 21 bar									**R364-S**
35	75	13	relieving for compressed air	0.4	27	450	G¼	0.2…1.8	**R364-02AS**
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



R364-S

Special options, add the appropriate letter

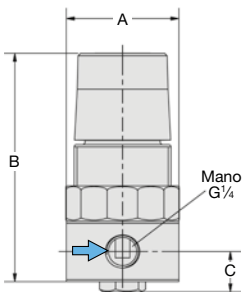
free of oil and grease	specially cleaned	R3.4-0 . . . **L**



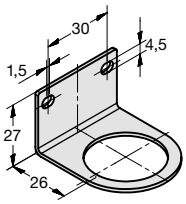
cross-section

Accessories, enclosed

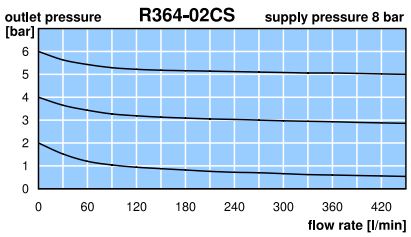
pressure gauge	Ø 40 mm, 0…*2 bar, G¼	**MS4002-..*2**
mounting bracket		**BW30-03S**
mounting nut	made of stainless steel	**M30x1,5S**
	made of plastic	**R05X51**



R364-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

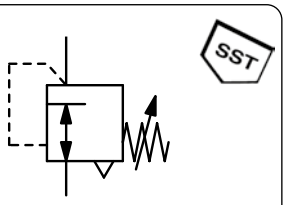
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
R364-02AS

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

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



G⅛ up to G2 / DN100 gases or liquids

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



R3000-01/-A2

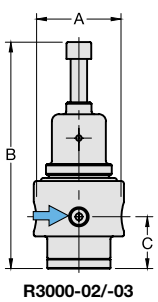


R3000-02

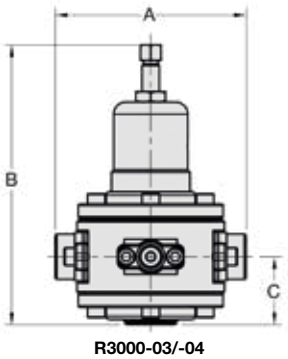


R3000-04

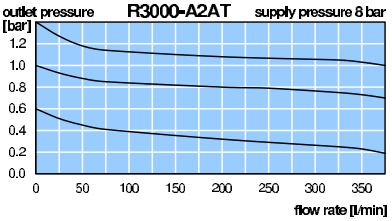
Accessories, see following pages

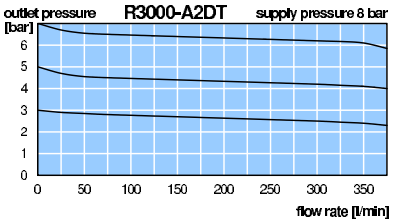


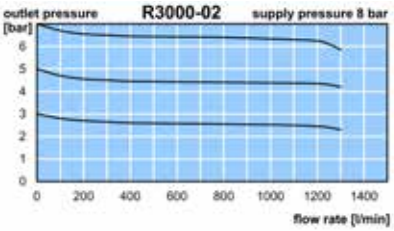
R3000-02/-03



R3000-03/-04







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

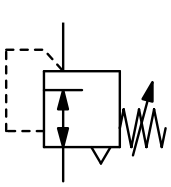
* Product group

PDF CAD
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Order example: R3000-01AT

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

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



G⅛ up to G2 / DN100
gases or liquids

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



R3000-06/-A8

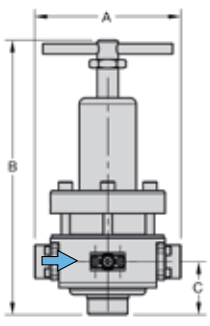


R3000-08/-10/-1A

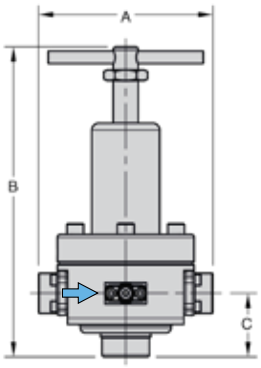


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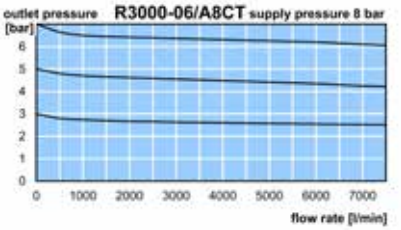
Accessories, see following pages

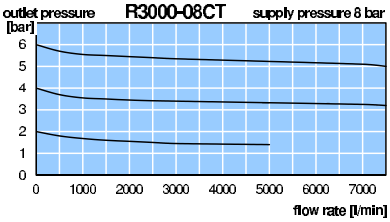


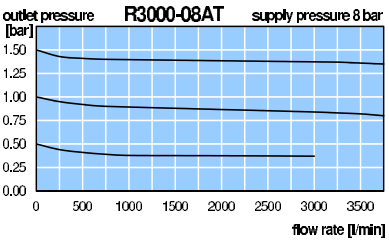
R3000-06/-A8



R3000-08/-10/-1A







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

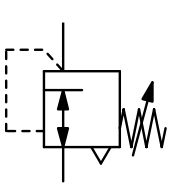
* Product group

PDF CAD
www.aircom.net

Order example:
R3000-06AT

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

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



G⅛ up to G2 / DN100
gases or liquids

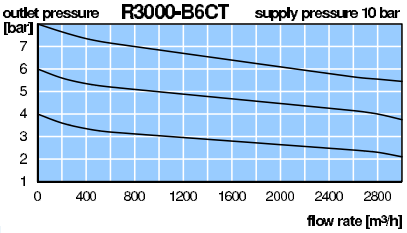
Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	K_v value (m^3/h)	Flow rate m^3/h*1	l/min*1	P_1 max. bar	Connection thread G	Pressure range bar	Order number	C*
SST Pressure regulator			supply pressure max. 30/50 bar, non-relieving, PTFE diaphragm and FKM o-ring							**R3000**	
174	393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

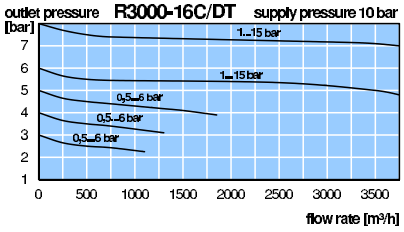


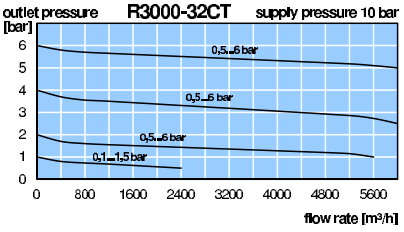
R3000-12/-B6



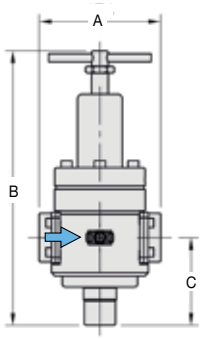
R3000-16 (A, B, C)
accessory: gauge



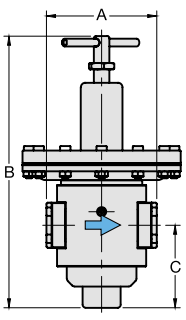




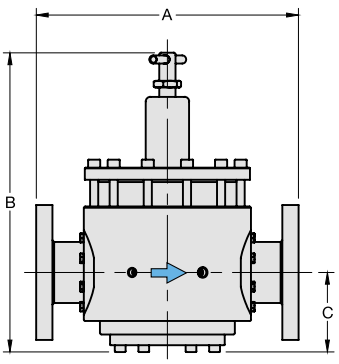
Accessories, see following pages



R3000-12/-B6



R3000-16 (A, B, C)



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

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

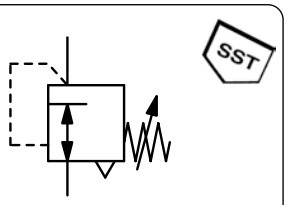
* Product group

PDF CAD
www.aircom.net

Order example:
R3000-12AT

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

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

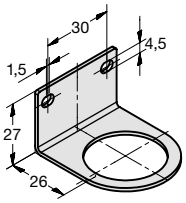


G⅛ up to G2 / DN100
gases or liquids

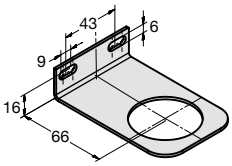
Dimensions A	B	C	Regul. system D: diaphragm P: piston	K_v value (m^3/h)	Flow rate m^3/h*1	l/min*1	P_1 max. bar	Connection thread G	Pressure range bar	Order number	C*
mm	mm	mm									

Special options, add the appropriate letter or number

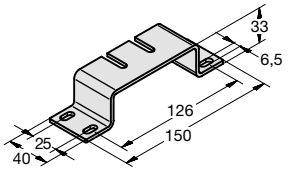
NPT	connection thread		R3000- . . . .**N**
with T-handle	instead of hexagonal screw	for G¼ (02) to G1 (A8)	R3000- . . . .**P**
relieving			R3000- . . . .**R**
tapped exhaust		for R3000-01/A2	R3000- **X12**
down to -40 °C	low temperature version	from G¼ (02) on	R3000- **X51**
up to 130 °C	high temperature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



BW30-03S



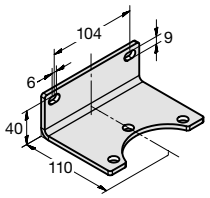
BW45-03S



BW00-59S

Accessories, enclosed

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



BW00-68S

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

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

*3 without DVGW-approval

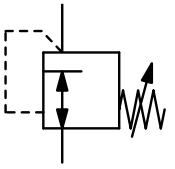
* Product group

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
MS4001-02

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 130 °C / 32 °F to 266 °F for EPDM, for appropriately conditioned compr. air down to -30 °C / -22 °F 0 °C to 150 °C / 32 °F to 302 °F for PTFE, 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, PN40

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	REF Order number
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



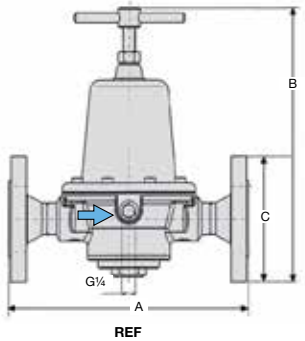
REF-08D

Special Options, add the appropriate letter

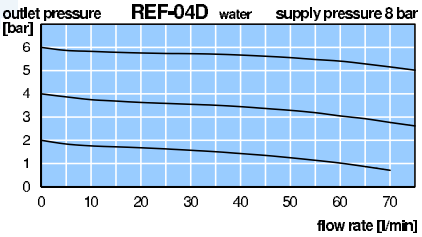
gaseous media	non-relieving, height +43 mm	RE .-. . . **U**
EPDM diaphragm	FDA approved	RE .-. . . **E**
PTFE diaphragm	FKM with PTFE coating and FKM o-ring	RE .-. . . **I**
free of oil and grease	suitable for oxygen	RE .-. . . **L**
flange connection	DN 8 to DN 25, instead of thread, according to DIN11850-2	REA-. . . **A1**
	DN 8 to DN 25, instead of thread, according to DIN3239	REA-. . . **A2**
	DN 8 to DN 25, instead of thread, according to ISO4200	REA-. . . **A3**
milk pipe connection		REA-. . . **M.**
tri-clamp		REA-. . . **T.**

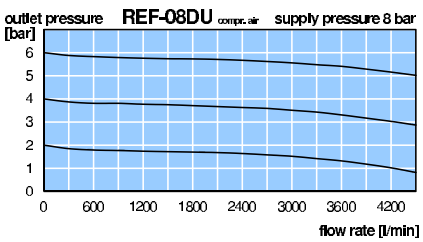
Accessories, enclosed

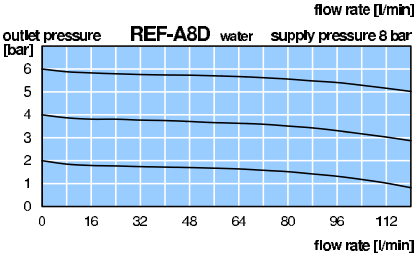
pressure gauge	Ø 50 mm, 0...*2 bar, G¼	for DN 8 to DN 15 (04)	**MS5002-..***2
	Ø 63 mm, 0...*2 bar, G¼	for DN 15 (A4) to DN 50	**MS6302-..***2



REF







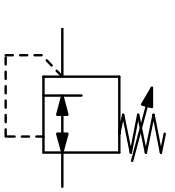
*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop
*2 **04** = 0 ... 4 bar, **10** = 0 ... 10 bar, **16** = 0 ... 16 bar

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example: REF-04B

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 130 °C / 32 °F to 302 °F for EPDM, for appropriately conditioned compr. air down to -30 °C / -22 °F 0 °C to 150 °C / 32 °F to 302 °F for PTFE, 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



REA-04



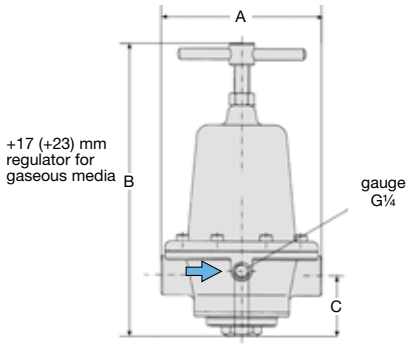
REA-A4, accessory: gauge

Regulator made of Special Steel Casting

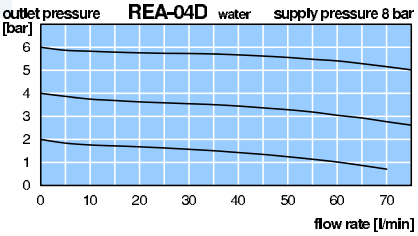
for liquids, P_1: max. 8/25 bar, non-relieving, FKM — **REA**

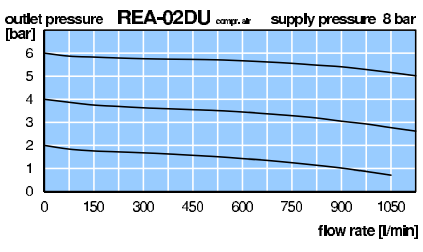
Dimensions A mm	B mm	C mm	K_v-value (m^3/h)	Flow rate air l/min*1	water l/min*1	Supply pressure max. bar	Nom. size DN	Connection thread G	Pressure range bar	Order number
92	190	42	1.0	1100	17	8	DN 8	G¼	0.2 ... 3.0	**REA-02B**
						25			2.0 ... 10	**REA-02D**
						25			6.0 ... 16	**REA-02E**
						8	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**

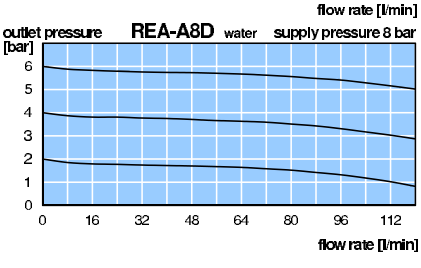
Special options and Accessories, see page 15.08



REA





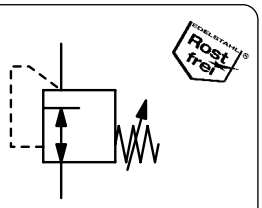


*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

PDF CAD
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Order example: REA-02B

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 <0,4 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	no pressure gauge connection, optionally G¼
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" compressed air, 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**
140	183	57	25	1,4	2200	½"	0,2 … 1,5	**RTC-04A**
							0,3 … 3,0	**RTC-04B**
							0,8 … 8,0	**RTC-04D**
140	183	57	25	1,4	2200	¾"	0,2 … 1,5	**RTC-06A**
							0,3 … 3,0	**RTC-06B**
							0,8 … 8,0	**RTC-06D**
180	327	77	50,5	8,4	22000	1"	0,2 … 1,5	**RTC-08A**
							0,3 … 3,0	**RTC-08B**
							0,8 … 8,0	**RTC-08D**
180	327	75	50,5	8,4	22000	1½"	0,2 … 1,5	**RTC-12A**
							0,3 … 3,0	**RTC-12B**
							0,8 … 8,0	**RTC-12D**



RTC-04.M/-06.M



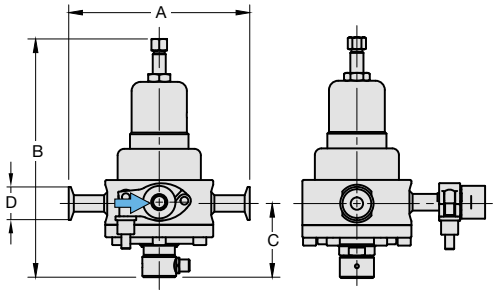
RTC-08/-12

Special Options, add the appropriate letter

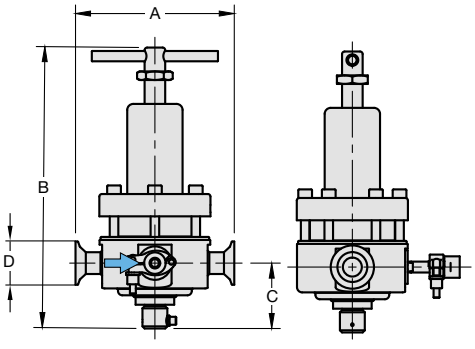
FKM o-ring			RTC-… **T**
EPDM o-ring	FDA approval		RTC-… **TD**
to 200 °C	high temperature version		RTC-… **X68**
ammonia	NH_3	P_1 max. 15 bar	RTC-… **02**
nitrogen	N_2		RTC-… **07**
oxygen	O_2		RTC-… **15**
water	H_2O		RTC-… **W**
neutral gas	CO_2, Ar, He, H_2, CH_4, C_3H_8, N_2O		RTC-… **XX**
pressure gauge	G¼		RTC-… **M**

Accessories, enclosed

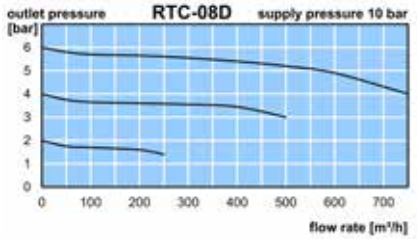
pressure gauge	Ø 50 mm,	0…*2 bar	G¼	for ½" a. ¾"	**MS5002-..*2**
	Ø 63 mm,	0…*2 bar	G¼	for 1" a. 1½"	**MS6302-..*2**
mounting bracket				for ½" a. ¾"	**BW45-03S**
mounting nut				for ½" a. ¾	**M45x1,5S**
mounting bracket				for 1" a. 1½"	**BW00-27S**

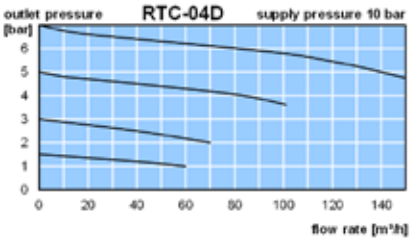


RTC-04/-06



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

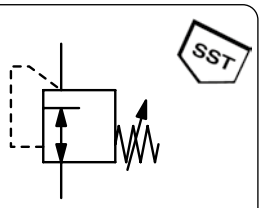
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example: RTC-04A

SST
15

Description	Precision low pressure regulator with flange and big spring cage, made of stainless steel. Preferably in pharmaceutical, bio, solar, brewery and food industry, if highest purity, maximum of hygiene and optimal protection against pollution and crosswise contamination is important
Media	Compressed air or natural gases. **Supply pressure:** max. 7 bar, min. 1 bar
Surface inside	Electropolished body with roughness Ra <0,4 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
Relieving function	non-relieving **Mounting position:** any
Tightness	Class VI; (IEC 60534-4) **Gauge port:** no pressure gauge connection, optionally G¼
Temperature Range	-20°C to 80°C
Material	Body, spring cage and internal parts: SST 316L Gasket: EPDM, FKM Mai valve spring: SST 302 Adjusting spring: C85, nickel plated NiP, Diaphragm: NBR/Buna-N with PTFE coating not in contact with fluid.



½" to 1½" compr. air or natural gases

Dimensions A mm	B mm	C mm	K_V-Value m^3/h^{*1}	Supply pressure max. bar	Flow rate m^3/h^{*1}	l/min^{*1}	Connection ASME-BPE	Pressure Range mbar	Order Number
Tri Clamp low pressure regulator Supply pressure max. 7 bar, SST, EPDM for compr. air, natural gases, not relieving									**RTCN**
140	179	42	0,75	7	60	1 000	½"	5 … 45	**RTCN-04A**
					78	1 300		20 … 200	**RTCN-04C**
					78	1 300		150 … 700	**RTCN-04D**
140	179	42	0,75	7	60	1 000	¾"	5 … 45	**RTCN-06A**
					78	1300		20 … 200	**RTCN-06C**
					78	1300		150 … 700	**RTCN-06D**
170	237	66	1,4	7	84	1 400	1“	5 … 45	**RTCN-08A**
					105	1 750		10 … 120	**RTCN-08B**
					105	1 750		10 … 400	**RTCN-08C**
					138	2 300		15 … 700	**RTCN-08D**
					180	3 000		200 … 1 200	**RTCN-08E**
170	237	66	1,4	7	84	1 400	1½“	5 … 45	**RTCN-12A**
					105	1 750		10 … 120	**RTCN-12B**
					105	1 750		10 … 400	**RTCN-12C**
					138	2 300		15 … 700	**RTCN-12D**
					180	3 000		200 … 1 200	**RTCN-12E**



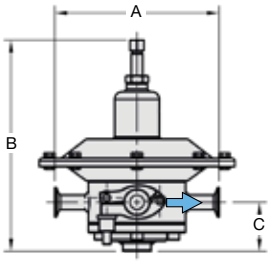
RTCN-04/-06

Special options, add the appropriate letter

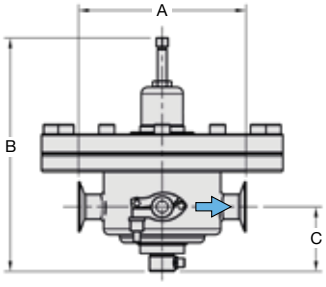
FKM o-ring		RTCN-…**T**
EPDM o-ring	FDA-approval	RTCN-…**TD**
up to 200 °C	high temperature version	RTCN-…**X68**
ammonia	NH_3	RTCN-…**02**
carbon dioxide	CO_2	RTCN-…**03**
nitrogen	N_2	RTCN-…**07**
oxygen	O_2	RTCN-…**15**
nitrous oxide	N_2O	RTCN-…**17**
natural gas	Ar, He, Hz, CH_4, C_3H_6	RTCN-…**XX**
pressure gauge connection		RTCN-… **M**

Accessories, enclosed

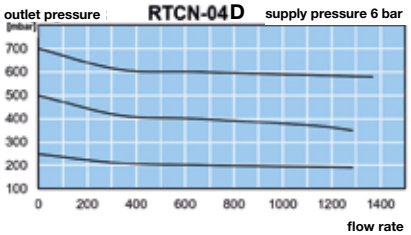
Pressure gauge	Ø 63 mm,	0…*2 mbar	capsule spring, ¼" bis 600 mbar	**MS6302-..*2**
	Ø 63 mm,	0…*2 bar	bourdon tube, ¼" ab 1 bar	**MS6302-..*2**

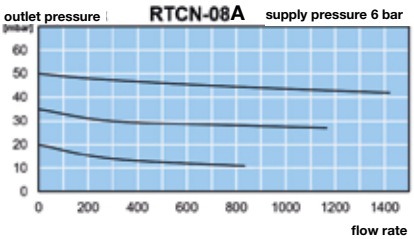


RTCN-04/-06



RTCN-08/-12





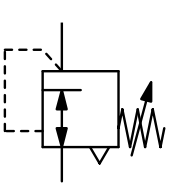
*1 at 7 bar supply pressure and max. outlet pressure
*2 **B6** = 0…60 mbar, **C3** = 0…250 mbar, **C4** = 0…400 mbar, **C6** = 0…600 mbar, **01** = 0 … 1 bar, **02** = 0 … 2,5 bar

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example: RTCN-04A

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	max. 20 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



R3150

Dimensions A mm	B mm	C mm	K_V-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread G	Pressure range bar	Order number
Precison pressure regulator supply pressure max. 20 bar, relieving								**R3150**
109	160	39	1.4	78	1300	G¼	0.02…1.5	**R3150-02A**
							0.10…3.0	**R3150-02B**
							0.10…8.0	**R3150-02C**
109	160	39	1.4	78	1300	G⅜	0.02…1.5	**R3150-03A**
							0.10…3.0	**R3150-03B**
							0.10…8.0	**R3150-03C**
109	160	39	1.4	78	1300	G½	0.02…1.5	**R3150-04A**
							0.03…3.0	**R3150-04B**
							0.05… 10	**R3150-04C**

SST

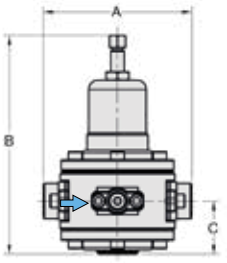
15

Special options, add the appropriate letter or number

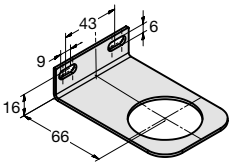
pilot operated	G⅛, max. 30 bar, 0…8 bar		R3150-0. **J**
NPT	connection thread		R3150-0. .**N**
non-relieving	for liquids		R3150-0. .**K**
EPDM o-ring			R3150-0. .**E**
EPDM o-ring	FDA approval		R3150-0. .**TD**
SST diaphragm	FKM o-ring		R3150-0. . .**S**
	EPDM o-ring		R3150-0. . .**SE**
ammoni	NH_3	P_1 max. 15 bar	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

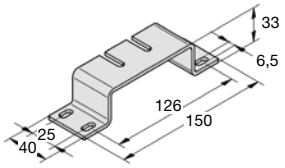
pressure gauge	Ø 50 mm, 0…*2 bar, G¼	**MS5002-..*2**
mounting bracket		**BW45-03S**
mounting nut		**M45x1,5S**
mounting bracket		**BW00-59S**



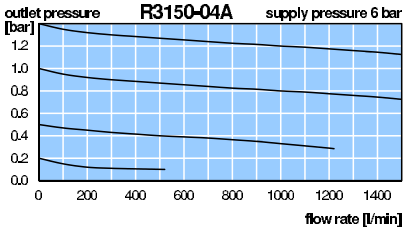
R3150

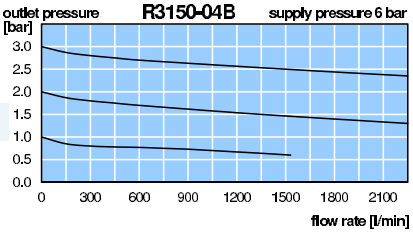


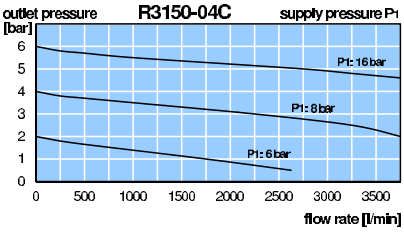
BW45-03S



BW00-59S







*1 see diagramm

*2 **02** = 0…2.5 bar, **04** = 0…4 bar, **10** = 0…10 bar

*3 without DVGW-approval

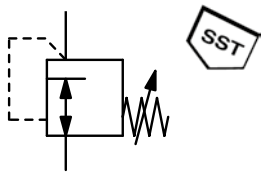
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example: R3150-02A

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. 15 bar, min. 1 bar
Air consumption	without constant bleed
Adjustment	by adjusting screw
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



G¼ up to G2
5…45/1500 mbar

Low pressure regulator

made of SST, supply pressure max. 15 bar, non-relieving
diaphragm NBR/Buna-N with PTFE coating, FKM o-ring

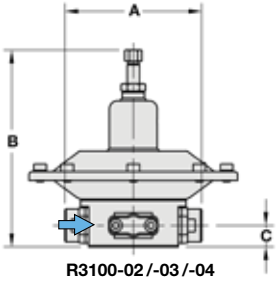
Dimensions A mm	B mm	C mm	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection-thread G	Pressure range mbar	Order number R3100
109	181	39	1.4	84	1400	G¼	5… 45	R3100-02A
							10… 400	R3100-02C
							20…1000	R3100-02D
							50…1500	R3100-02E
109	181	39	1.4	84	1400	G⅜	5… 45	R3100-03A
							10… 400	R3100-03C
							20…1000	R3100-03D
							50…1500	R3100-03E
109	181	39	1.4	84	1400	G½	5… 45	R3100-04A
							10… 400	R3100-04C
							20…1000	R3100-04D
							50…1500	R3100-04E
161	234	69	1.4	84	1400	G¾	5… 45	R3100-06A
							10… 120	R3100-06B
							10… 400	R3100-06C
161	296	53	8.4	576	9600		15… 700	R3100-06D
							200…1200	R3100-06E
161	234	69	1.4	84	1400	G1	5… 45	R3100-08A
							10… 120	R3100-08B
							10… 400	R3100-08C
161	296	53	8.4	576	9600		15… 700	R3100-08D
							200…1200	R3100-08E



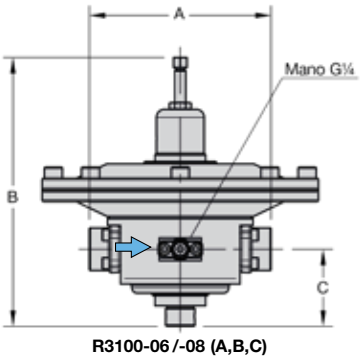
R3100-02/-03/-04



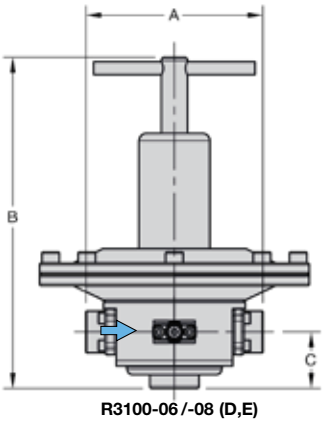
R3100-06/-08



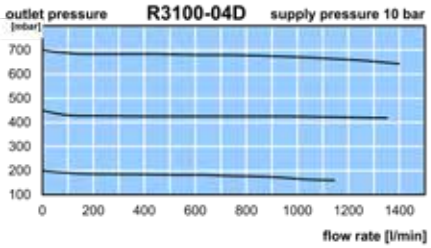
R3100-02/-03/-04

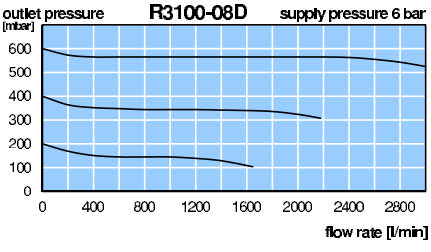


R3100-06/-08 (A,B,C)



R3100-06/-08 (D,E)





*1 at 6 bar supply pressure and max. outlet pressure

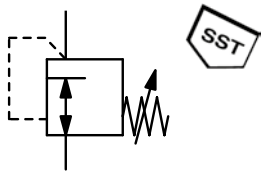
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
R3100-02A

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. 15 bar, min. 1 bar
Air consumption	without constant bleed
Adjustment	by adjusting screw
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



G¼ up to G2
5…45/1500 mbar

Dimensions A mm	B mm	C mm	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection-thread G	Pressure range mbar	Order number	C*
Low pressure regulator made of SST, supply pressure max. 15 bar, non-relieving **diaphragm** NBR/Buna-N with PTFE coating, **FKM o-ring**								**R3100**	
265	234	69	1.4	84	1400	G1¼	5… 45	**R3100-10A**	
							10… 120	**R3100-10B**	
							10… 400	**R3100-10C**	
265	296	53	8.4	576	9600		15… 700	**R3100-10D**	
							200…1200	**R3100-10E**	
265	234	69	1.4	84	1400	G1½	5… 45	**R3100-1AA**	
							10… 120	**R3100-1AB**	
							10… 400	**R3100-1AC**	
265	296	53	8.4	576	9600		15… 700	**R3100-1AD**	
							200…1200	**R3100-1AE**	
171	431	97	6.2	420	7000	G1½	20… 50	**R3100-12A**	
							50… 150	**R3100-12B**	
171	467	97					150… 300	**R3100-12D**	
171	430	97	25	1470	24500		100…1000	**R3100-12E**	
171	431	97	6.2	420	7000	G2	20… 50	**R3100-16A**	
							50… 150	**R3100-16B**	
171	467	97					150… 300	**R3100-16D**	
171	430	97	25	1470	24500		100…1000	**R3100-16E**	

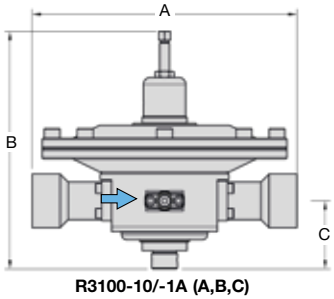


R3100-10/-1A

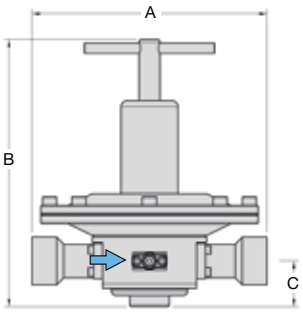


R3100-12/-16

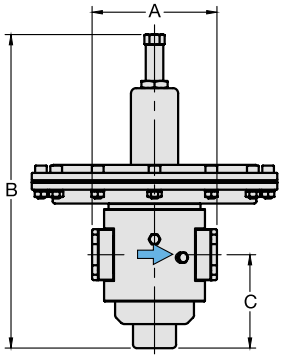
SST
15



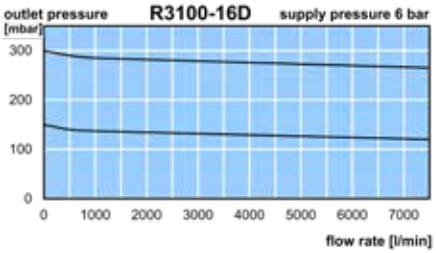
R3100-10/-1A (A,B,C)



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



R3100-12/-16



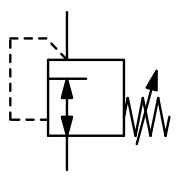
*1 at 6 bar supply pressure and max. outlet pressure

PDF CAD
www.aircom.net

Order example:
R3100-10A

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. 15 bar, min. 1 bar
Air consumption	without constant bleed
Adjustment	by adjusting screw
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



G¼ up to G2
5…45/1500 mbar

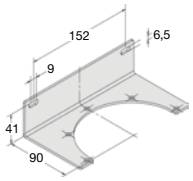
Dimensions A mm	B mm	C mm	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection-thread G	Pressure range mbar	Order number	C*

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		R3100-. . . .**X51**
up to 130 °C/266 °F	high temperature version		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 *2			R3100-. . . .**14**
oxygen	O_2		R3100-. . . .**15**
propane	C_3H_8		R3100-. . . .**16**
nitrous oxide	N_2O		R3100-. . . .**17**
flance connection	according to EN-1092-1 or ASME B16.5	on request	R3100-. . . .**F.**

Accessories, enclosed

pressure gauge	Ø 63 mm, 0…*3 mbar, G¼, capsule type	up to 600 mbar	**MS6302-. .** *3
	Ø 63 mm, 0…*4 bar, G¼, Bourdon tube	from 1 bar on	**MS6302-. .** *4
mounting bracket		for G¼ to G½	**BW00-26S**



BW00-26S

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

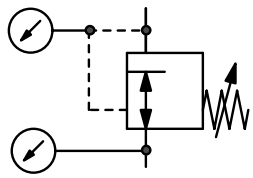
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
MS6302-B6

STAINLESS STEEL HIGH PRESSURE REGULATOR FOR OUTLET PRESSURE 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.
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

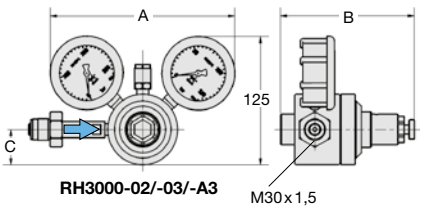


RH3000-03

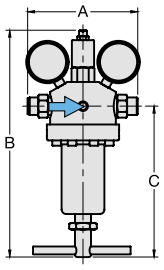
High pressure regulator 220 bar

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

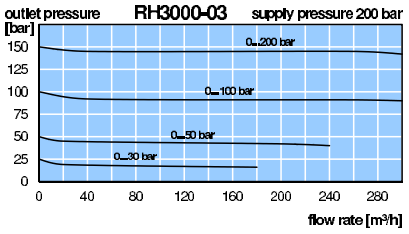
Dimensions A mm	B mm	C mm	Relief valve S: with valve	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread inlet/outlet	Pressure range bar	Order number
170	159	32	S	0.05	30	500	DIN 477/ G¼f	1… 8	**RH3000-02A**
			S		45	750		1… 15	**RH3000-02B**
170	172	32	S		60	1000		3… 30	**RH3000-02C**
			S		60	1000		5… 50	**RH3000-02D**
			S		60	1000		10…100	**RH3000-02E**
			-		60	1000		20…200	**RH3000-02F**
186	172	40	S	0.15	70	1150	DIN 477/ G⅜f	1… 8	**RH3000-03A**
			S		155	2580		1,5… 15	**RH3000-03B**
			S		210	3500		3… 30	**RH3000-03C**
186	175	46	S		250	4100		5… 50	**RH3000-03D**
					350	5800		10…100	**RH3000-03E**
186	196	40	-		390	6500		20…200	**RH3000-03F**
178	241	40	S	0.25	370	6170	G¾f / G⅜f	1… 15	**RH3000-A3B**
178	244	40	S		460	7700		3… 30	**RH3000-A3C**
			S		650	10830		5… 50	**RH3000-A3D**
					680	11300		10…100	**RH3000-A3E**
178	196	40	-		700	11670		20…200	**RH3000-A3F**
178	241	40	S	0,25	370	6170	G¾i / G½i	1… 15	**RH3000-04B**
178	244	40	S		460	7700		3… 30	**RH3000-04C**
			S		650	10830		5… 50	**RH3000-04D**
			-		680	11300		10…100	**RH3000-04E**
178	196	40	-		700	11670		20…200	**RH3000-04F**
166	345	232	S	1.5	600	10000	G¾m/G¾m	1… 8	**RH3000-06A**
			S		720	12000		1… 15	**RH3000-06B**
166	358	245	S		850	14170		3… 30	**RH3000-06C**
			S		1000	16670		5… 50	**RH3000-06D**
			-		1050	17500		10…100	**RH3000-06E**

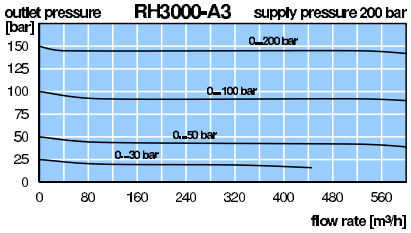


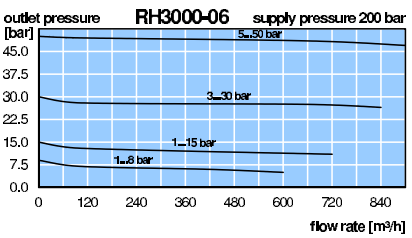
RH3000-02/-03/-A3



RH3000-06







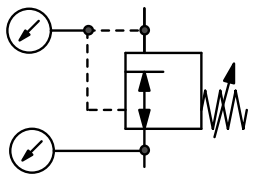
*1 at 200 bar supply pressure and max. outlet pressure

PDF CAD
www.aircom.net

Order example:
RH3000-02A

STAINLESS STEEL HIGH PRESSURE REGULATOR FOR OUTLET PRESSURE 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.		
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	Filter:	stainless steel 316
	Diaphragm: stainless steel 316	Valve seat:	FKM
	O-ring: FKM / PTFE	Piston:	stainless steel 316



G¼ up to G1¼
1…8/200 bar

Dimensions A mm	B mm	C mm	Relief valve	K_v-value (m³/h)	Flow rate m³/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**
253	365	242	S	1,8	1100	18330	G1a / G1a	1… 8	**RH3000-08A**
			S		1300	21670		1… 15	**RH3000-08B**
253	406	278	S		1500	25000		3… 30	**RH3000-08C**
			S		1650	27500		5… 50	**RH3000-08D**
			-		1850	30830		20…200	**RH3000-08F**
248	370	270	S	3,1	3850	65830	G1a / G1¼ i	1… 8	**RH3000-10A**
								1… 15	**RH3000-10B**
								3… 30	**RH3000-10C**
								5… 50	**RH3000-10D**



RH3000-08



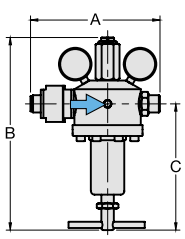
RH3000-10

Special options, add the appropriate letter

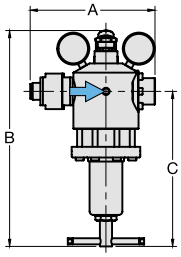
diaphragm relieving		RH3000-. . . **R**
piston relieving		RH3000-. . . **R**
EPDM elastomer		RH3000-. . . **E**
for panel mounting	for RH3000-02 to -A3	RH3000-. . . **P**
carbon dioxide*2	CO_2	RH3000-. . . **03**
argon	Ar	RH3000-. . . **05**
nitrogen	N_2	RH3000-. . . **07**
helium	He	RH3000-. . . **09**
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**
without cylinder connection		RH3000-. . . **X40**

Accessories, enclosed

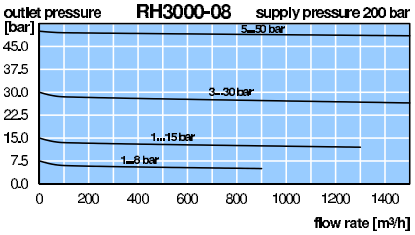
mounting bracket	for RH3000-02	**BW45-03S**
mounting nut	for RH3000-02	**M45x1,5S**
mounting bracket	for RH3000-03 and -A3	**BW50-01S**
mounting nut	for RH3000-03 and -A3	**M50x1,5S**
mounting bracket	for RH3000-06	**BW00-31S**
	for RH3000-08	**BW00-35S**



RH3000-08



RH3000-10



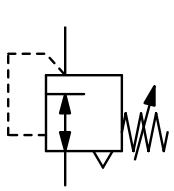
*1 at 200 bar supply pressure and max. outlet pressure *2 max. 80 bar *3 without DVGW-approval

PDF CAD
www.aircom.net

Order example:
RH3000-08A

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								supply pressure max. 60 bar, non-relieving, ratio 1:1, PTFE-diaphragm and FKM-o-ring		**R3000-J**
64	79	38	M	1.4	78	1300	G¼	15	1...15	**R3000-02J2T**
64	92	38	K					50	1...50	**R3000-02J5T**
109	90	39	M	3.0	168	2800	G½	15	1...15	**R3000-04J2T**
109	108	39	K					50	1...50	**R3000-04J5T**
165	137	60	M	9.7	540	9000	G¾	15	1...15	**R3000-06J2T**
165	172	60	K					50	1...50	**R3000-06J5T**
165	137	60	M	9.7	540	9000	G1	15	1...15	**R3000-08J2T**
165	172	60	K					50	1...50	**R3000-08J5T**



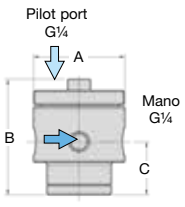
R3000-02J2T



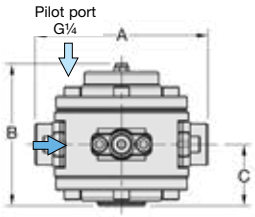
R3000-04J2T



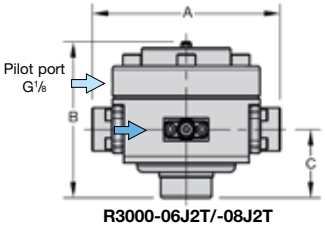
R3000-06J2T/-08J2T



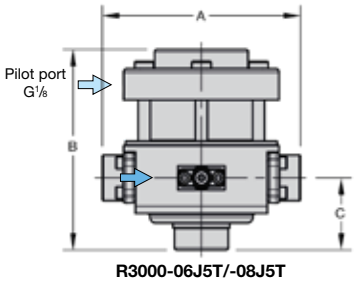
R3000-02J.T



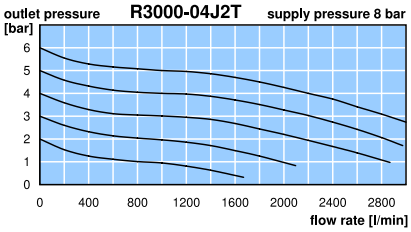
R3000-04J.T

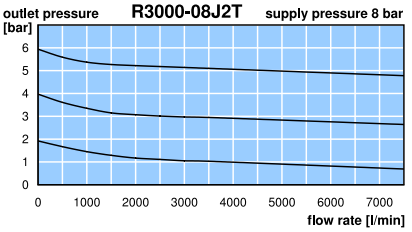


R3000-06J2T/-08J2T



R3000-06J5T/-08J5T





*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

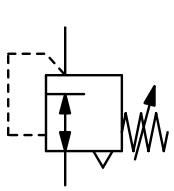
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example: R3000-02J2T

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

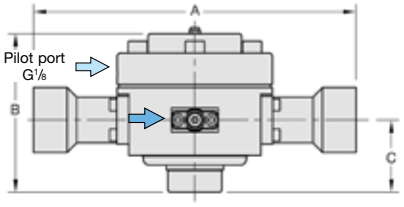


G¼ to G2, FDA gases or liquids

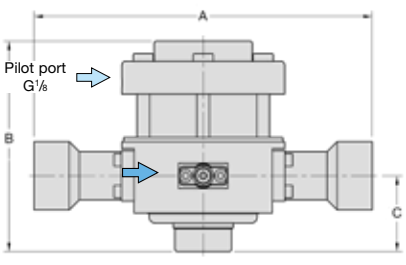


R3000-12J.T/-B6J.T
accessory: gauge

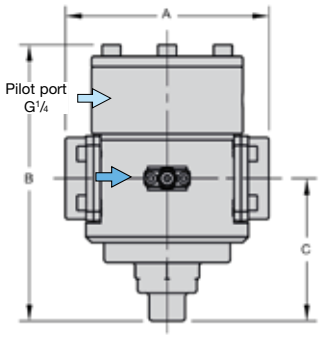
Dimensions A mm	B mm	C mm	Regulating System D: Diaphragm P: Piston	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread G	Pilot pressure max. bar	Pressure range bar	Order number
Stainless steel booster								supply pressure max. 60 bar, non-relieving, ratio 1:1, PTFE-diaphragm and FKM-o-ring		**R3000-J**
269	137	60	M	9.7	540	9000	G1¼	15	1...15	**R3000-10J2T**
269	172	60	K					50	1...50	**R3000-10J5T**
269	137	60	M	9.7	540	9000	G1½	15	1...15	**R3000-1AJ2T**
269	172	60	K					50	1...50	**R3000-1AJ5T**
174	226	126	K	25.0	1380	23000	G1½	50	1...15	**R3000-12J2T**
174	226	126	K					50	1...50	**R3000-12J5T**
174	226	126	K	25.0	1380	23000	G2	50	1...15	**R3000-B6J2T**
174	226	126	K					50	1...50	**R3000-B6J5T**
171	268	128	K	25.0	1440	24000	G2	15	1...15	**R3000-16J2T**



R3000-10J2T/-1AJ2T



R3000-10J5T/-1AJ5T



R3000-12J.T/-B6J.T

*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

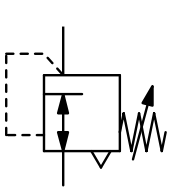
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example: R3000-10J2T

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

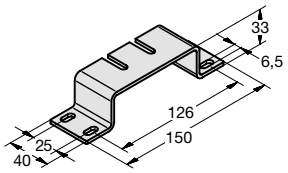


G¼ to G2, FDA gases or liquids

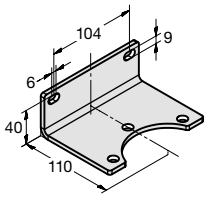
Dimensions A	B	C	Regulating System D: Diaphragm P: Piston	K_v-value (m^3/h)	m^3/h*1	Flow rate l/min*1	Connection thread G	Pilot pressure max. bar	Pressure range bar	Order number
mm	mm	mm								

Special options, add the appropriate letter

diaphragm relieving		for R3000-02J2 to 1A8J2	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	P_1 max. 15 bar	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	according to EN-1092-1 or ASME B16.5	on request	R3000-..J..**F.**



BW00-59S



BW00-68S

Accessories, enclosed

pressure gauge	Ø 50 mm, 0…*2 bar, G¼	for G¼ and G⅜ 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**
		for G1½ (12) and G2 (B6)	**BW00-68S**

*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

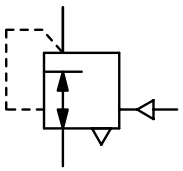
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example: MS5002-02

PRECISION VOLUME BOOSTER OF STAINLESS STEEL R601

Description	The volume booster amplifies the volume at a 1:1 ratio of pilot pressure to outlet pressure. The booster is robust, highly accurate and sensitive. The hysteresis between the outletpressure and the relieving pressure is very small and constant. Caused of the inlet pressure compensation of the control valve the regulator is stable against fluctuations in inlet pressure vibrations due to sudden changes of the volume flow are prevented by damping in the diaphragm chamber.		
Media	compressed air or non-corrosive gases	**Supply pressure**	max. 17 bar
Pilot pressure Accuracy	max. 10 bar response sensitivity 15 mbar		
Air consumption	no air consumption	**Relieving function**	relieving, tapped exhaust function ¾ NPT
Relief capacity	4245 l/min at 5 bar outlet pressure and 0.35 bar over pressure		
Gauge port	¼″ NPT on both sides of the body	**Mounting position:**	any
Temperature range	-40 to 93 °C / -72 to 167.4 °F; optionally to -52 °C /-93.6 °F		
Material	Body and inner valve stainless steel 316L	Elastomer: NBR	



¾″NPT and 1″NPT
13000 l/min

Dimensions A mm	B mm	C mm	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread NPT	Supply pressure max. bar	Pilot pressure signal : outlet	Order number
Booster					Transmission ratio 1:1, inlet pressure max. 17 bar, reversible, without internal air consumption				**R601**
117	177	45	8	690	11500	¾″NPT	17	0 ...10	**R601-06N**
			9	780	13000	1″NPT	17	0 ...10	**R601-08N**



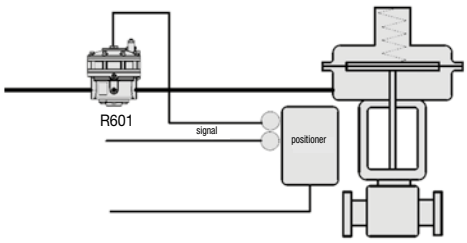
R601

Special options, add the appropriate letter

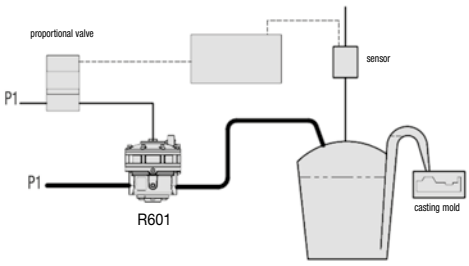
Low temperature option	to -52 °C / -93 °F	R600-0.N**X51**

Accessories, enclosed

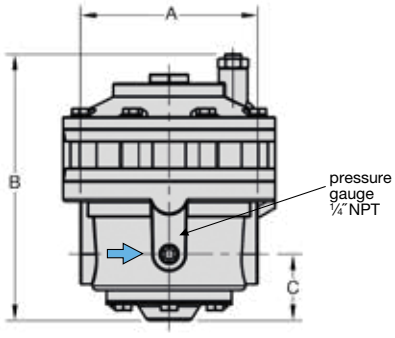
Pressure gauge	Ø 63 mm, 0...*2 bar, G¼	**MA6302-..*2**
Connection part pressure gauge	adapter ¼″NPTa-G¼ female	**AM-07S**
Mounting bracket		**BW00-66S**



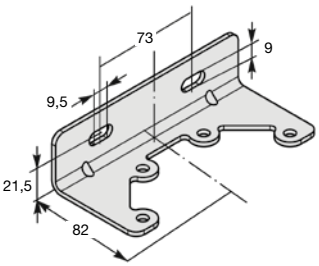
Volume flow booster with single-acting positioner and diaphragm actuator



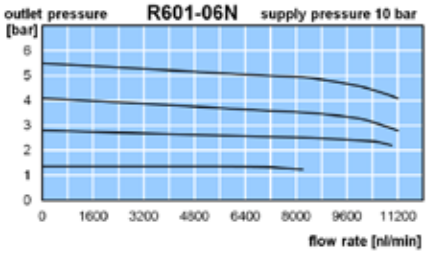
Volume flow booster in a casting plant

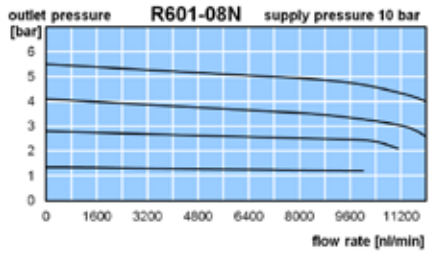


R601



BW00-66S





*1 at 7 bar supply pressure and 1,4 bar outlet pressure
*2 **02** = 0...2,5 bar, **04** = 0...4 bar, **06** = 0...6 bar, **10** = 0...10 bar

* Product group

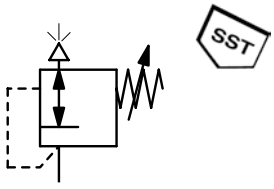
Gauge: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
R601-06N

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. 70 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, G¼ on both sides for -01 and -A2, G¼ on one side for -02 to -16, screw plug(s) are 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

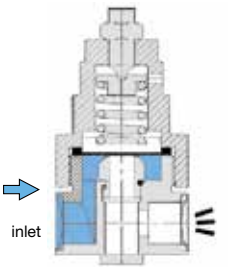


G⅛ to G2, FDA
0.1 ... 1.5 / 50 bar

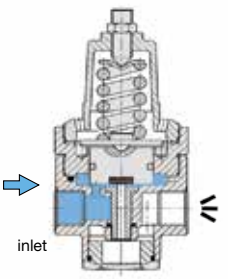
Dimensions A mm	B mm	C mm	Regul. system D: Diaphragm P: Piston	Exhaust rate l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range bar	Order number
Back pressure regulator					overpressure max. 22.5 / 30 / 70 bar, PTFE diaphragm and FKM o-ring			**D3000**
40	83	13	M	400	30	G⅛	0,1 ... 1,5	**D3000-01AT**
							0,2 ... 3,0	**D3000-01BT**
							0,5 ... 8,0	**D3000-01DT**
							1,0 ... 15	**D3000-01ET**
40	83	13	M	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**
109	140	17	M	2300	22,5	G¼	0,1 ... 1,5	**D3000-02AT**
							0,2 ... 3,0	**D3000-02BT**
							0,5 ... 8,0	**D3000-02DT**
							1,0 ... 15	**D3000-02ET**
109	153	17	K	2300	70		2,0 ... 30	**D3000-02FT**
							3,0 ... 50	**D3000-02GT**
109	140	17	M	2300	22,5	G⅜	0,1 ... 1,5	**D3000-03AT**
							0,2 ... 3,0	**D3000-03BT**
							0,5 ... 8,0	**D3000-03DT**
							1,0 ... 15	**D3000-03ET**
109	153	17	K	2300	70		2,0 ... 30	**D3000-03FT**
							3,0 ... 50	**D3000-03GT**
109	140	17	M	2300	22,5	G½	0,1 ... 1,5	**D3000-04AT**
							0,2 ... 3,0	**D3000-04BT**
							0,5 ... 8,0	**D3000-04DT**
							1,0 ... 15	**D3000-04ET**
109	153	17	K	2300	70		2,0 ... 30	**D3000-04FT**
							3,0 ... 50	**D3000-04GT**



D3000-02/-03/-04

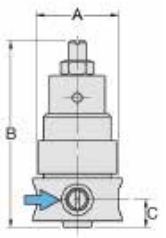


with diaphragm

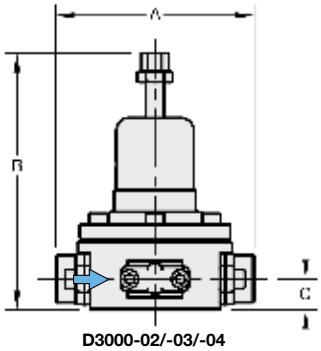


with piston

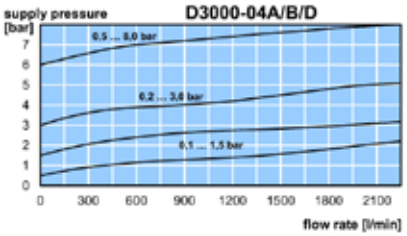
Accessories, see next pages



D3000-01/-A2



D3000-02/-03/-04



*1 at 7 bar overpressure and open outlet

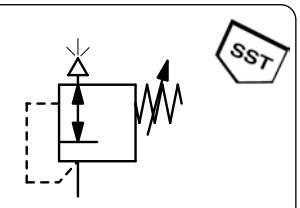
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example: D3000-02AT

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. 70 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, G¼ on both sides for -01 and -A2, G¼ on one side for -02 to -16, screw plug(s) are 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 stainless steel Inner valve: stainless steel 316L, material no 1.4404

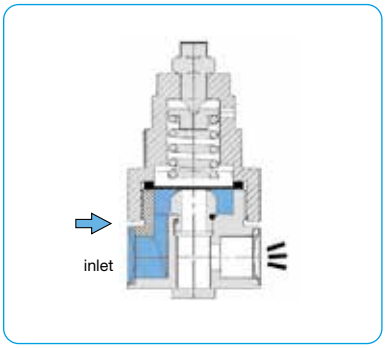


G⅛ to G2, FDA
0.1 ... 1.5 / 50 bar

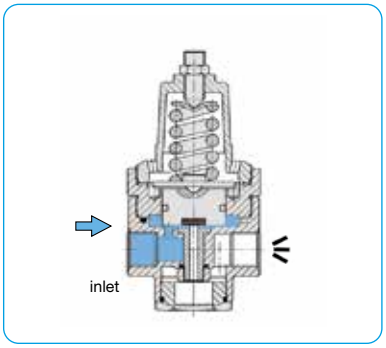
Dimensions A mm	B mm	C mm	Regul. system D: Diaphragm P: Piston	Exhaust rate l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range bar	Order number
Back pressure regulator					overpressure max. 30 / 65 bar, PTFE diaphragm and FKM o-ring			**D3000**
165	246	21	M	8000	30	G¾	0,1 ... 1,5	**D3000-06AT**
							0,2 ... 3,0	**D3000-06BT**
							0,5 ... 8,0	**D3000-06DT**
							1,0 ... 15	**D3000-06ET**
165	270	21	K	8000	65		2,0 ... 30	**D3000-06FT**
							3,0 ... 50	**D3000-06GT**
165	246	21	M	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	270	21	K	8000	65		2,0 ... 30	**D3000-08FT**
							3,0 ... 50	**D3000-08GT**
269	246	21	M	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	270	21	K	8000	65		2,0 ... 30	**D3000-10FT**
							3,0 ... 50	**D3000-10GT**
269	246	21	M	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	270	21	K	8000	65		2,0 ... 30	**D3000-1AFT**
							3,0 ... 50	**D3000-1AGT**



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

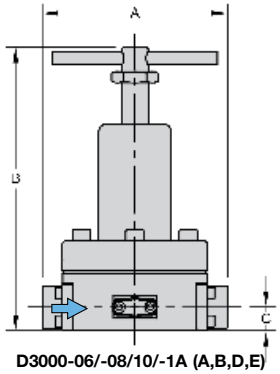


with diaphragm

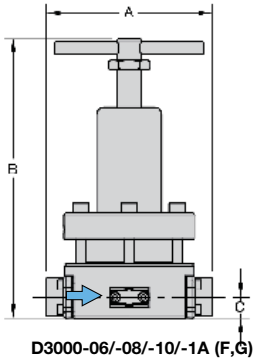


with piston

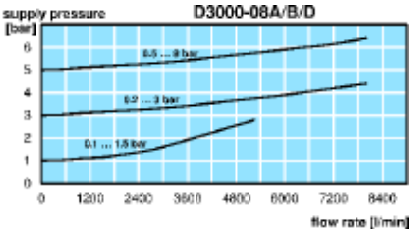
Accessories, see next pages



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



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



*1 at 7 bar overpressure and open outlet

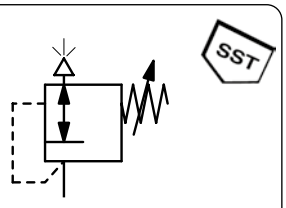
Gauges: see chapter for measuring devices

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. 70 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, G¼ on both sides for -01 and -A2, G¼ on one side for -02 to -16, screw plug(s) are 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 stainless steel Inner valve: stainless steel 316L, material no 1.4404

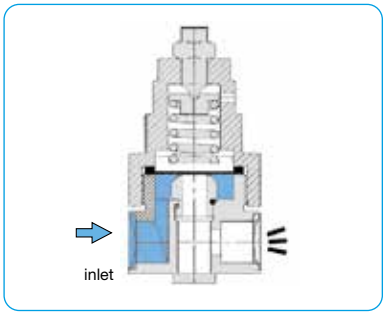


G⅛ to G2, FDA
0.1 ... 1.5 / 50 bar

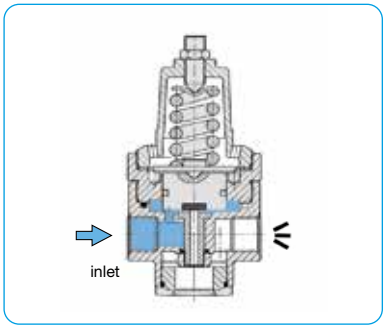
Dimensions A mm	B mm	C mm	Regul. system D: Diaphragm P: Piston	Exhaust rate l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range bar	Order number
Back pressure regulator				overpressure max. 70 bar, PTFE diaphragm and FKM o-ring				**D3000**
174	283	35	M	28000	70	G1½	0.1 ... 1.5	**D3000-12AT**
							0.2 ... 3.0	**D3000-12BT**
							0.5 ... 8.0	**D3000-12DT**
							1.0 ... 15	**D3000-12ET**
							2.0 ... 30	**D3000-12FT**
							3.0 ... 50	**D3000-12GT**
174	283	35	M	28000	70	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							2.0 ... 30	**D3000-16FT**
							3.0 ... 50	**D3000-16GT**



D3000-12/-16

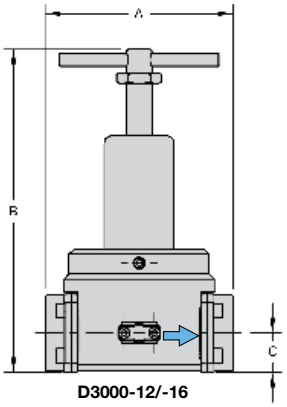


with diaphragm

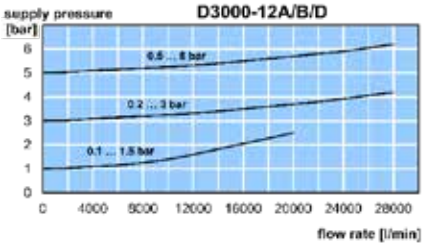


with piston

Accessories, see next page



D3000-12/-16



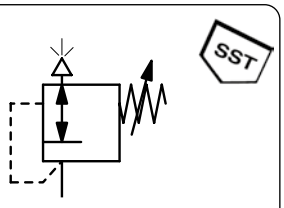
*1 at 7 bar overpressure and open outlet

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. 70 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, G¼ on both sides for -01 and -A2, G¼ on one side for -02 to -16, screw plug(s) are 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 stainless steel Inner valve: stainless steel 316L, material no 1.4404

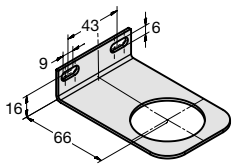


G⅛ to G2, FDA
0.1 ... 1.5 / 50 bar

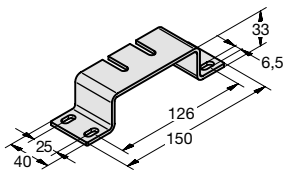
Dimensions A	B	C	Regul. system **D:** Diaphragm **P:** Piston	Exhaust rate l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range bar	Order number
mm	mm	mm						

Special options, add the appropriate letter

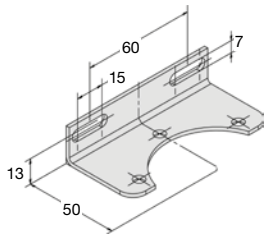
pilot operated	Diaphragm version, control press. max. 15 bar, 1 ... 15 bar		D3000- . . **J2**
pilot operated	Piston version, control press. max. 50 bar, 1 ... 50 bar		D3000- . . **J5**
NPT	connection thread	from G¼ (02) on	D3000- . . . .**N**
down to -40 °C/ -40°F	low temperature version		D3000- **X51**
up to 130 °C/266 °F	high temperature version		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		D3000- . . . **S**
	NBR -o-ring		D3000- . . . **SB**
	EPDM-o-ring		D3000- . . . **SE**
	EPDM-o-ring, FDA-approval		D3000- . . . **SD**
ammonia	NH_3	P_1 max. 15 bar	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	according to EN-1092-1 or ASME B16.5	on request	D3000- . . . .**F.**



BW45-03S



BW00-59S



BW00-63S

Accessories, enclosed

pressure gauge	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 G¼ and G½	**BW45-03S**
mounting nut			**M45x1,5S**
mounting bracket		for G¾ to G1½ (1A)	**BW00-59S**
		for G1½ (12) and G2	**BW00-63S**

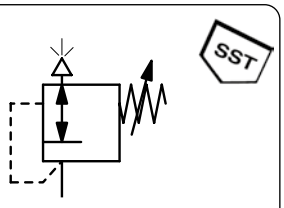
*1 at 7 bar overpressure and open outlet
*2 **02** = 0...2.5 bar, **04** = 0...4 bar, **06** = 0...6 bar, **10** = 0...10 bar, **16** = 0...16 bar, **60** = 0...60 bar
*3 without DVGW-approval

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
MS5002-02

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. 10 bar (see table)
Adjustment	by adjusting screw for D3100-02 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



G¼ and G2
0…45/3000 mbar

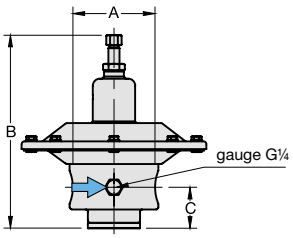
Dimensions A mm	B mm	C mm	Exhaust rate l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range mbar	Order number
Back pressure regulator			overpressure max. 6/10 bar, PTFE-diaphragm and FKM-o-ring				**D3100**
109	181	39	450	10	G¼	0… 45	**D3100-02AT**
			750			0… 400	**D3100-02BT**
			1000			0…1000	**D3100-02CT**
			1400			0…1500	**D3100-02DT**
109	181	39	450	10	G⅜	0… 45	**D3100-03AT**
			750			0… 400	**D3100-03BT**
			1000			0…1000	**D3100-03CT**
			1400			0…1500	**D3100-03DT**
109	181	39	450	10	G½	0… 45	**D3100-04AT**
			750			0… 400	**D3100-04BT**
			1000			0…1000	**D3100-04CT**
			1400			0…1500	**D3100-04DT**
161	290	45	1500	6	G¾	0… 300	**D3100-06BT**
			2300			0… 700	**D3100-06CT**
			3000			0…1200	**D3100-06DT**
161	290	45	1500	6	G1	0… 300	**D3100-08BT**
			2300			0… 700	**D3100-08CT**
			3000			0…1200	**D3100-08DT**



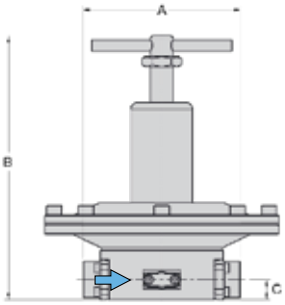
D3100-02/-03/-04



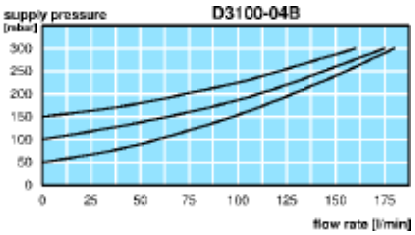
D3100-06/-08



D3100-02/-03/-04



D3100-06/-08



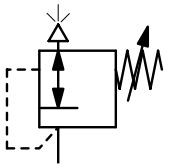
*1 at 6 bar overpressure and open outlet
*2 **B6** = 0…60 mbar, **C3** = 0…250 mbar

Gauges: see chapter for measuring devices

PDF CAD
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Order example:
D3100-02AT

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. 10 bar (see table)
Adjustment	by adjusting screw for D3100-02 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



G¼ and G2
0…45/3000 mbar

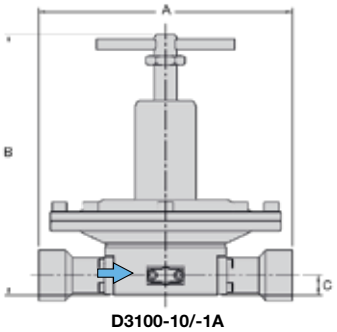


D3100-10/-1A

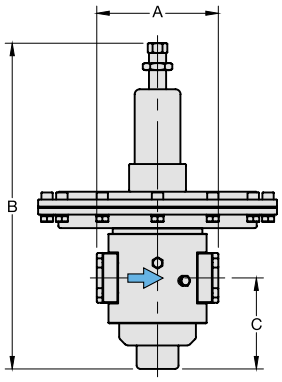


D3100-12/-16

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 / 10 bar, PTFE-diaphragm and FKM-o-ring				**D3100**
265	290	45	2000	6	G1¼	0… 300	**D3100-10BT**
			4100			0… 700	**D3100-10CT**
			5000			0…1200	**D3100-10DT**
265	290	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**



D3100-10/-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
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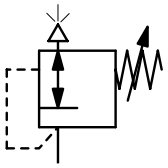
Order example:
D3100-10BT

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
Adjustment	by adjusting screw for D3100-02 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
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

System pressure max. 10 bar (see table)

Mounting position any

O-rings: FKM, optionally EPDM



G¼ and G2
0…45/3000 mbar

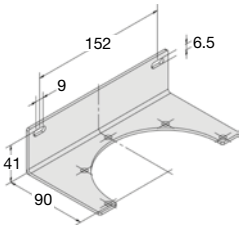
Dimensions A mm	B mm	C mm	Exhaust rate l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range mbar	Order number

Special options, add the appropriate letter

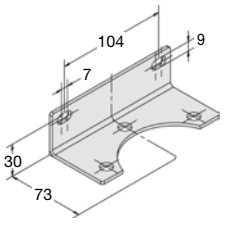
NPT	connection thread		D3100-. . . .**N**
FKM -o-ring			D3100-. . .**T**
EPDM-o-ring			D3100-. . .**TE**
EPDM-o-ring	FDA-approval		D3100-. . .**TD**
down to -40 °C/ -40°F	low temperature version		D3100-. . . .**X51**
up to 130 °C/266 °F	high temperature version		D3100-. . . .**X54**
ammonia	NH_3		D3100-. . . .**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	according to EN-1092-1 or ASME B16.5	on request	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**
mounting bracket		for G¼ to 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

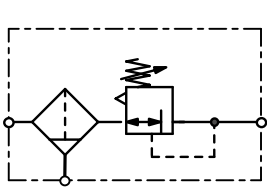
Gauges: see chapter for measuring devices

PDF CAD
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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. 16 bar, 50 bar or 80 bar (only with locking screw)
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	147	83	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	147	83	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	249	128	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**
109	246	125	0,2	2200	5	G⅜	0.8… 8	**B3000-03G**
							1.5… 15	**B3000-03GD**
							3.0… 30	**B3000-03GE**
							5.0… 50	**B3000-03GF**
				3000	50		0.8… 8	**B3000-03**
							1.5… 15	**B3000-03D**
							3.0… 30	**B3000-03E**
							5.0… 50	**B3000-03F**
109	246	125	0,2	2200	5	G½	0.8… 8	**B3000-04G**
							1.5… 15	**B3000-04GD**
							3.0… 30	**B3000-04GE**
							5.0… 50	**B3000-04GF**
				3000	50		0.8… 8	**B3000-04**
							1.5… 15	**B3000-04D**
							3.0… 30	**B3000-04E**
							5.0… 50	**B3000-04F**



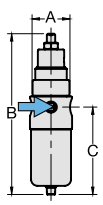
B3000-01/-A2



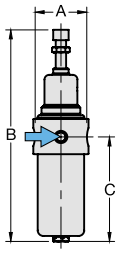
B3000-02



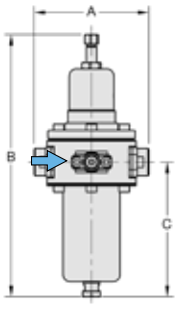
B3000-03/-04



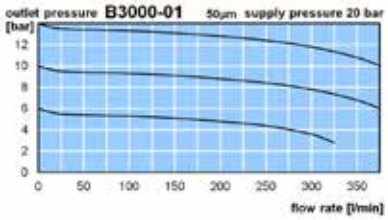
B3000-01/-A2

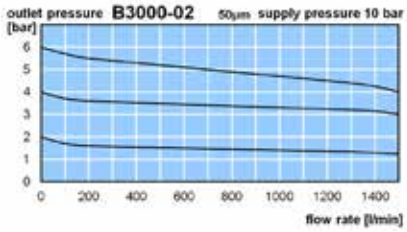


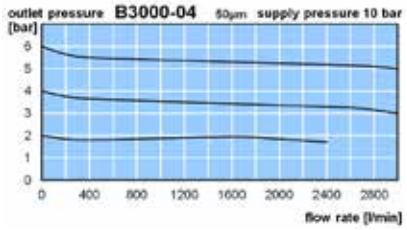
B3000-02



B3000-03/-04







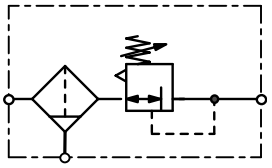
*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure

PDF CAD
www.aircom.net

Order example:
B3000-01GH

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. 16 bar, 50 bar or 80 bar (only with locking screw)
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

Filter pressure regulator

with screw plug, relieving, w/o gauge, supply pressure max. 30 / 50 bar

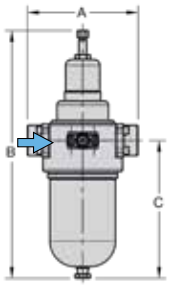
Dimensions A mm	B mm	C mm	Bowl capacity l	Flow rate l/min*1	Filter element µm	Connection thread G	Pressure range bar	Order number B3000
137	304	168	0,5	4500	5	G¾	0.8 ... 8	B3000-06G
							1.5 ... 15	B3000-06GD
							3.0 ... 30	B3000-06GE
							5.0 ... 50	B3000-06GF
				6000	50		0.8 ... 8	B3000-06
							1.5 ... 15	B3000-06D
							3.0 ... 30	B3000-06E
							5.0 ... 50	B3000-06F
137	304	168	0,5	4500	5	G1	0.8 ... 8	B3000-08G
							1.5 ... 15	B3000-08GD
							3.0 ... 30	B3000-08GE
							5.0 ... 50	B3000-08GF
				6000	50		0.8 ... 8	B3000-08
							1.5 ... 15	B3000-08D
							3.0 ... 30	B3000-08E
							5.0 ... 50	B3000-08F
137	304	168	0,5	4500	5	G1¼	0.8 ... 8	B3000-10G
							1.5 ... 15	B3000-10GD
							3.0 ... 30	B3000-10GE
							5.0 ... 50	B3000-10GF
				6000	50		0.8 ... 8	B3000-10
							1.5 ... 15	B3000-10D
							3.0 ... 30	B3000-10E
							5.0 ... 50	B3000-10F
248	304	168	0,5	4500	5	G1½	0.8 ... 8	B3000-1AG
							1.5 ... 15	B3000-1AGD
							3.0 ... 30	B3000-1AGE
							5.0 ... 50	B3000-1AGF
				6000	50		0.8 ... 8	B3000-1A
							1.5 ... 15	B3000-1AD
							3.0 ... 30	B3000-1AE
							5.0 ... 50	B3000-1AF



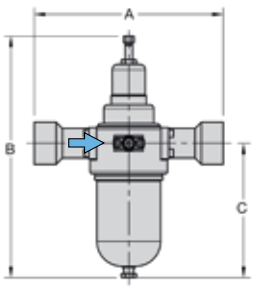
B3000-06/-08



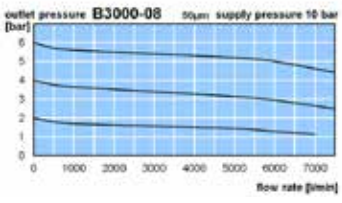
B3000-10/-1A



B3000-06/-08



B3000-10/-1A



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

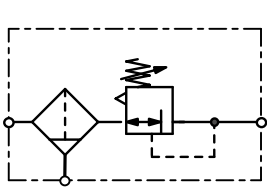
PDF CAD
www.aircom.net

Order example:
B3000-01GH

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. 16 bar, 50 bar or 80 bar (only with locking screw)
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



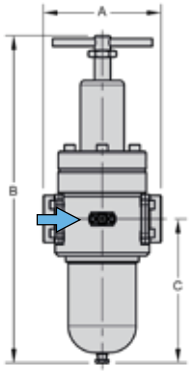
B3000-12/-16

Filter pressure regulator

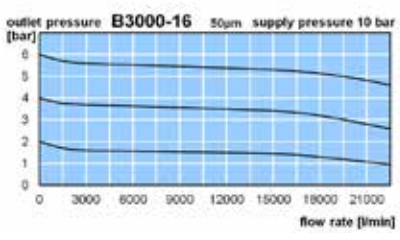
with screw plug, relieving, w/o gauge, supply pressure max. 30 / 50 bar

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 B3000
174	483	213	1,0	17500	5	G1½	0.8 ... 8	B3000-12G
							1.5 ... 15	B3000-12GD
							3.0 ... 30	B3000-12GE
							5.0 ... 50	B3000-12GF
				23000	50		0.8 ... 8	B3000-12
							1.5 ... 15	B3000-12D
							3.0 ... 30	B3000-12E
							5.0 ... 50	B3000-12F
174	483	213	1,0	17500	5	G2	0.8 ... 8	B3000-16G
							1.5 ... 15	B3000-16GD
							3.0 ... 30	B3000-16GE
							5.0 ... 50	B3000-16GF
				23000	50		0.8 ... 8	B3000-16
							1.5 ... 15	B3000-16D
							3.0 ... 30	B3000-16E
							5.0 ... 50	B3000-16F

Accessories, see next page



B3000-12/-16



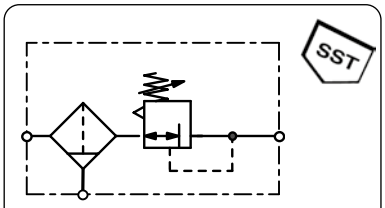
*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure

PDF CAD
www.aircom.net

Order example:
B3000-12G

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 (only with locking screw)
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

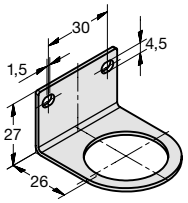


G⅛ up to G2, FDA
max. 80 bar, up to 130 °C/ 266 °F

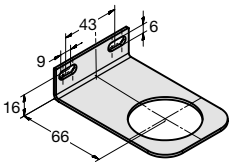
Dimensions A mm	B mm	C mm	Bowl capacity l	Flow rate l/min*1	Filter element µm	Connection thread G	Pressure range bar	Order number

Special options, add the appropriate letter

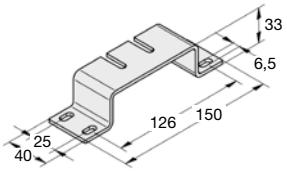
NPT	connection thread	for G¼ (02) to G2		B3000-. . . . **N**
0,1 ... 1,5 bar regulating range				B3000-. . . . **A**
0,2 ... 3 bar regulating range				B3000-. . . . **B**
manual drain	max. 30 bar	for G¼ (02) to G2		B3000-. . . . **H**
automatic drain	max. 16 bar	for G¼ (02) to G2		B3000-. . . . **R**
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			B3000-. . . . **X51**
up to 130 °C/ 266 °F	high temperature version			B3000-. . . . **X54**
EPDM-o-ring				B3000-. . . . **TE**
EPDM-o-ring	FDA approval			B3000-. . . . **TD**
SST diaphragm	FKM o-ring	for G¼ (02) to G½		B3000-. . . . **S**
SST diaphragm	EPDM o-ring	for G¼ (02) to G½		B3000-. . . . **SE**
ammonia NH_3		P_1 max. 15 bar		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	according to EN-1092-1 or ASME B16.5		on request	B3000-. . . . **F.**



BW30-03S



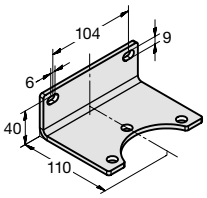
BW45-03S



BW00-59S

Accessories, enclosed

pressure gauge	Ø 40 mm, 0…*2 bar, G⅛	for G⅛ and G¼ (A2)	**MS4001-..*2**
	Ø 50 mm, 0…*2 bar, G¼	for G¼ 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			**M30x1,5SS**
mounting bracket		for G¼ (02) to G1½ (1A)	**BW45-03S**
mounting nut			**M45x1,5S**
mounting bracket		for G⅜ to G1½ (1A)	**BW00-59S**
mounting bracket		for G1½ (12) and G2	**BW00-62S**



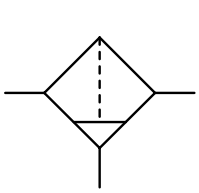
BW00-62S

*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure
*2 **04** = 0…4 bar, **10** = 0…10 bar, **16** = 0...16 bar, **60** = 0...60 bar *3 without DVGW-approval

PDF CAD
www.aircom.net

Order example:
MS4001-04

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



G¼ up to G2, max. 80 bar
-40 °C to 130 °C, FDA

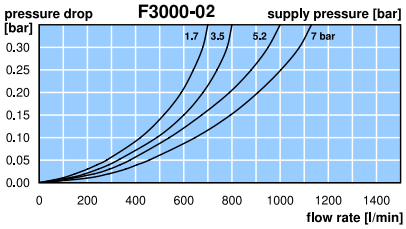
Dimensions A mm	B mm	C mm	Bowl capacity l	Flow rate m³/h*1	l/min*1	P1 max. bar	Filter element µm	Connection thread G	Order number
Stainless steel filter, up to 50 bar with screw plug									**F3000**
64	140	125	0,14	54	900	50	50	G¼	**F3000-02**
							5		**F3000-02G**
64	140	133					0,01		**F3000-02I**
109	140	123		150	2500	50	50	G⅜	**F3000-03**
							5		**F3000-03G**
64	140	125	0,14	54	900	50	0,01		**F3000-03I**
109	140	123		150	2500	50	50	G½	**F3000-04**
			0,2				5		**F3000-04G**
79	158	138		150	2500	50	0,01		**F3000-04I**
137	194	167	0,50	432	7200	50	50	G¾	**F3000-06**
			0,2				5		**F3000-06G**
							0,01		**F3000-06I**
137	194	167	0,80	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**
174	248	218	1,00	1380	23000	50	50	G1½	**F3000-12**
				1050	17500		5		**F3000-12G**
174	248	218	1,00	1380	23000	50	50	G2	**F3000-16**
				1050	17500		5		**F3000-16G**

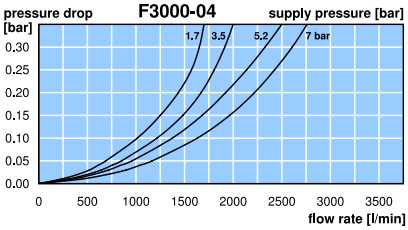


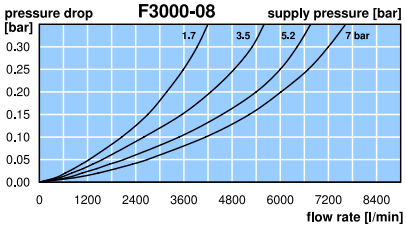
F3000-02

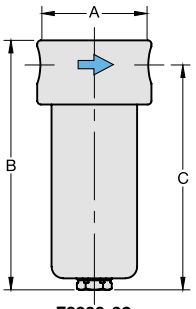


F3000-03/-04

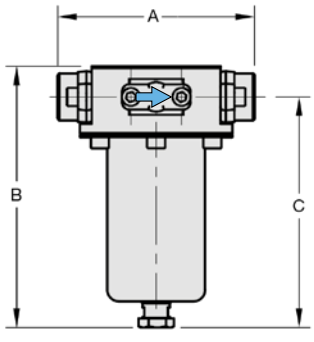








F3000-02



F3000-03/-04

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

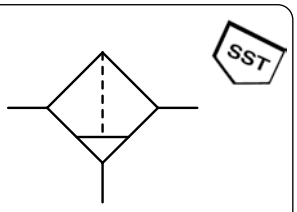
Extensions: see chapter for FRL service units

PDF CAD
www.aircom.net

Order example:
F3000-02

STAINLESS STEEL COMPRESSED AIR FILTER, UP TO 80 BAR F3000

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

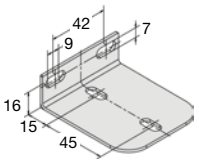


G¼ up to G2, max. 80 bar
-40 °C to 130 °C, FDA

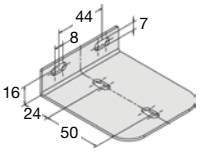
Dimensions A mm	B mm	C mm	Bowl capacity l	Flow rate m³/h*1	l/min*1	P1 max. bar	Filter element µm	Connection thread G	Order number

Special options, add the appropriate letter

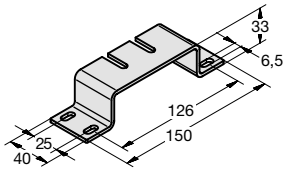
NPT	connection thread		F3000-. . **N**
P1: max. 80 bar			F3000-. . **X48**
down to -40 °C /-40 °F	low temperature version		F3000-. . **X51**
up to 130 °C / 266 °F	high temperature version		F3000-. . **X54**
manual drain	max. 30 bar		F3000-. . **H**
automatic drain	max. 16 bar		F3000-. . **R**
EPDM-elastomer			F3000-. . **E**
EPDM-elastomer	FDA-approval		F3000-. . **TD**
ammonia	NH_3	P1 max. 15 bar	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	according to EN-1092-1 or ASME B16.5	on request	F3000-. . . **F.**



BW00-17S



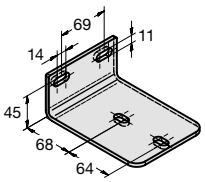
BW00-18S



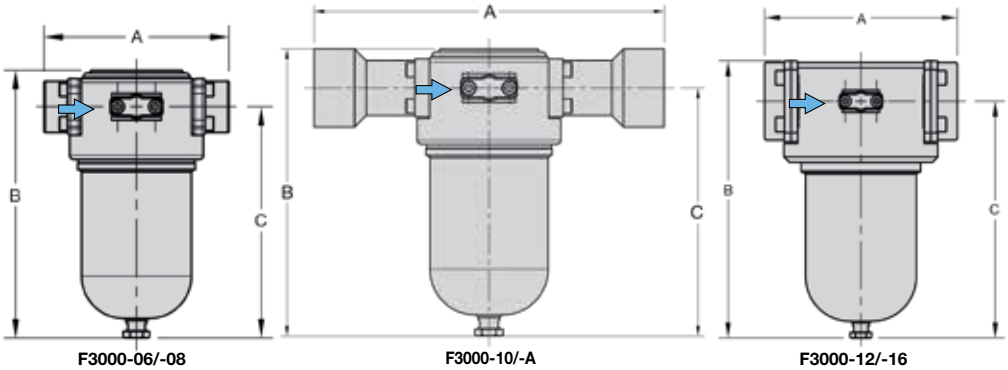
BW00-59S

Accessories, enclosed

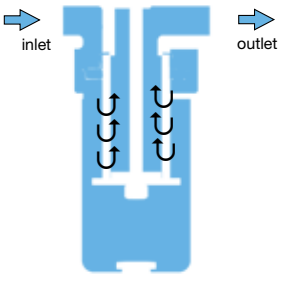
mounting bracket	for G¼	**BW00-17S**
	for G½ (only 04I)	**BW00-18S**
	for G⅜ to G1½ (1A)	**BW00-59S**
	for G1½ (12) and G2	**BW00-63S**



BW00-63S



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

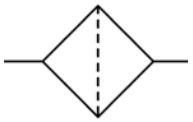
PDF CAD
www.aircom.net

Order example:
BW00-17S

SST
15

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**
170	123	99	0.04	120	2000	5	G½	**FH3-04G**
				160	2670	50	G½	**FH3-04**
204	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



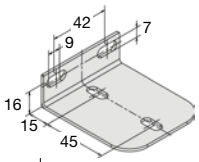
FH3-06/-08

Special options, add the appropriate letter

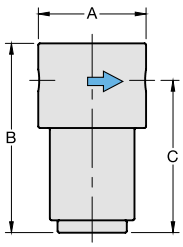
Coalescing filter	0.01 µm / 99.99 %, brass version	for G¼ to G½	FH3-..**IMS**
	0.01 µm / 99.99 %, SST version	for G¼ to G½	FH3-..**I**
	0.01 µm / 99.99 %, SST and brass version	for G¾ to G1	FH3-..**I**
NPT	connection thread		FH3-..**N**
EPDM-elastomer			FH3-..**E**
brass body			FH3-..**MS**
ammonia	NH_3		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

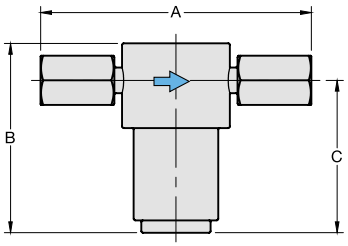
mouting bracket	with screws	**BW00-17S**



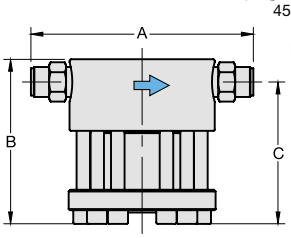
BW00-17S



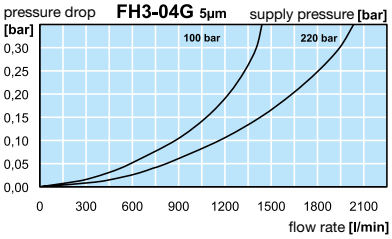
FH3-02/-03

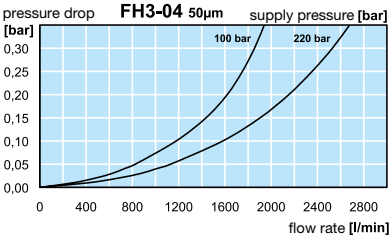


FH3-04



FH3-06/-08





*1 at max. operating pressure

Extensions: see chapter for FRL service units

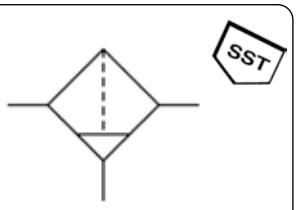
PDF CAD
www.aircom.net

Order example:
FH3-02G

15.35

STAINLESS STEEL HIGH PRESSURE REGULATOR UP TO 500 BAR FB

Description	The filter separates oil, water and solid impurities from compressed air, gases and many media used in chemistry, petroleum processing, food industry and medical technology.
Filter element	Fabric of borosilicate fibre A 901 with high-volume fiberglass bed. Coalescing effect based on Brownian motion. With stainless steel jacket and internal draining layer. An arrow indicates flow from inside to outside.
Filtration efficiency	99.99% based on 25 µm particle size, residual oil content ≤ 10 mg/m³, Δp= 0.03
Service life	Large filter volume through folding makes for exceptionally long service life and high capacity for collection of solid particles with low differential pressure.
Filter change	The filter must be changed a differential pressure of 0.35 bar on,or after one year at the latest.
Drainage	without drain as standard, optionally with manual drain
Operating pressure	max. 500 bar
Temperature range	1 °C to 60 °C / 34 °F to 140 °F at coalescing filter and filter element X1 1 °C to 40 °C / 34 °F to 104 °F at filter element XA 1 °C to 25 °C / 34 °F to 77 °F at filter element AC
Material	Body: stainless steel 304, material no. 1.4301 Elastomer: NBR/Buna-N



100/350/500 bar, up to 2˝NPT
0.01 up to 25 µm

Dimensions A mm	B mm	C mm	Bowl Design made of/with	Capacity l	Flow rate *2 m³/h	l/min	Connection thread G	Order number
High pressure filter up to 100 bar			w/o manual drain, 99.99% at 25 µm residual oil content ≤ 10 mg/m³					**FB100**
60	117	17	stainless steel /	0.04	40	660	⅜˝ NPT	**FB100-03C**
79	140	21	w/o manual drain	0.10	100	1660	⅜˝ NPT	**FB100-A3C**
78	214	23		0.40	270	4500	½˝ NPT	**FB100-04C**
78	264	23		0.50	460	7660	½˝ NPT	**FB100-A4C**
114	270	30		1.20	680	11300	¾˝ NPT	**FB100-06C**
114	420	30		1.90	1200	20000	1˝ NPT	**FB100-08C**
174	481	50		2.90	1700	28000	1½˝ NPT	**FB100-12C**
High pressure filter up to 350 bar			w/o manual drain, 99.99% at 25 µm residual oil content ≤ 10 mg/m³					**FB350**
60	117	17	stainless steel /	0.04	52	860	¼˝ NPT	**FB350-02C**
79	140	21	w/o manual drain	0.10	130	2160	⅜˝ NPT	**FB350-03C**
78	214	23		0.40	351	5850	⅜˝ NPT	**FB350-A3C**
78	264	23		0.50	598	9960	½˝ NPT	**FB350-04C**
114	270	30		1.20	884	14730	¾˝ NPT	**FB350-06C**
114	420	30		1.90	1560	26000	1˝ NPT	**FB350-08C**
174	481	50		2.90	2210	36830	1˝ NPT	**FB350-A8C**
174	784	50		5.40	4420	73660	1½˝ NPT	**FB350-12C**
High pressure filter up to 500 bar			w/o manual drain, 99.99% at 25 µm residual oil content ≤ 10 mg/m³					**FB500**
60	117	17	stainless steel /	0.04	56	930	¼˝ NPT	**FB500-02C**
79	140	21	w/o manual drain	0.10	140	2330	⅜˝ NPT	**FB500-03C**
113	221	25		0.40	378	6300	⅜˝ NPT	**FB500-A3C**
113	271	25		0.50	644	10730	½˝ NPT	**FB500-04C**



FB100-03CH
accessory: manual drain

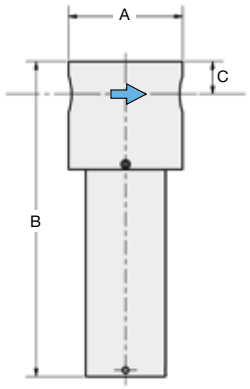


FB350-04CDH
accessories: pressure gauge and manual drain

SST
SST
15

Special options, add the appropriate letter

diff. pressure gauge	without contact, up to 350 bar				FB. . . - . . **D**
manual drain	needle valve			up to 350 bar	FB. . . - . . . **H**
	needle valve			up to 500 bar	FB. . . - . . . **H**
	Filtration efficiency		Residual oil content	Δp*1	
5 µm filter element	99.99	%,	< 5 mg/m³,	0.04 bar	FB. . . - . . **X5**
1 µm filter element	99.9999	%,	< 0.1 mg/m³,	0.04 bar	FB. . . - . . **X1**
0.01 µm filter element	99.99999	%,	< 0.01 mg/m³,	0.08 bar	FB. . . - . . **XA**
Activated carbon	99.99999	%,	< 0.003 mg/m³,	0.04 bar	FB. . . - . . **AC**



FB

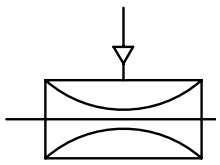
*1 inital pressure drop

*2 at max. operating pressure

PDF CAD
www.aircom.net

Order example:
FB100-03C

Description	The 2-port/2-way 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.
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 — **QE**

Dimensions A mm	Ø mm	Nominal size DN	Chamber capacity l	Control port M5/G	Operating pressure max. bar	Connection thread G	Order number
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



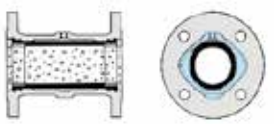
QE25



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**

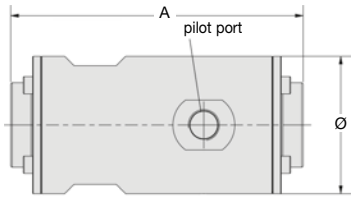




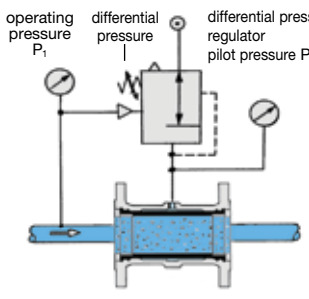
closing process



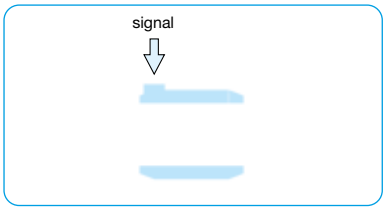
solenoid valve control



QE



constant cross section at changing operating pressure



cross section

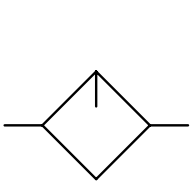
For further pinch valves made of POM or aluminium see chapter for special devices

PDF CAD
www.aircom.net

Order example: QE06-02NR

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



G¼ 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**
64	174	130	0.14	54	900	50	G¼	**L3000-02**
109	161	121	0,20	144	2400	50	G⅜	**L3000-03**
				144	2400		G½	**L3000-04**
137	201	168	0.50	480	8000	50	G¾	**L3000-06**
				480	8000		G1	**L3000-08**
241	201	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**
				720	12000		G2	**L3000-16**



L3000-02



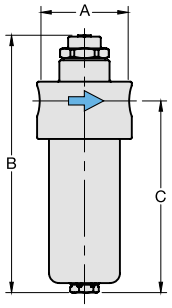
L3000-03/-04



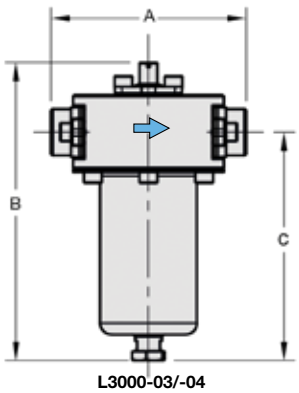
L3000-12

Special options, add the appropriate letter

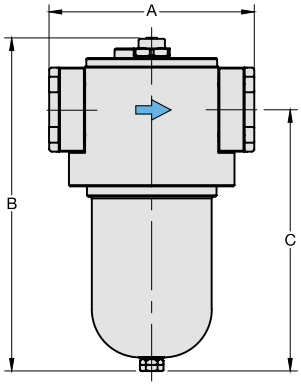
NPT	connection thread		L3000- . . **N**
down to -40 °C / -40 °F	low temperature version	from G¼ on	L3000- . . **X51**
up to 130 °C / 266 °F	high temperature version	from G¼ on	L3000- . . **X54**
flange connection	according to EN-1092-1 or ASME B16.5	on request	L3000- . . **F.**



L3000-02

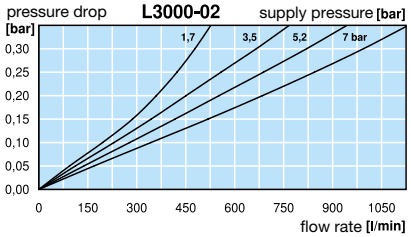


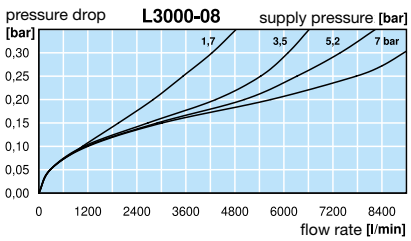
L3000-03/-04



L3000-06/.../-16

flow rate





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

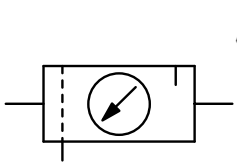
Extensions: see chapter for FRL service units

PDF CAD
www.aircom.net

Order example:
L3000-02

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**
168	255	128		180	3000	G⅜	**C3002-03**
168	255	128		180	3000	G½	**C3002-04**
289	304	168		360	6000	G¾	**C3002-06**
289	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



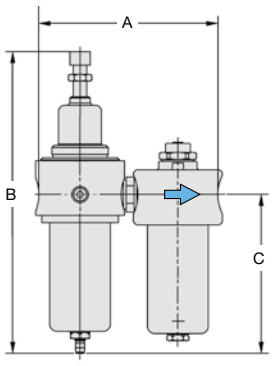
C3002-06/-08/-10/-1A

Special options, add the appropriate letter

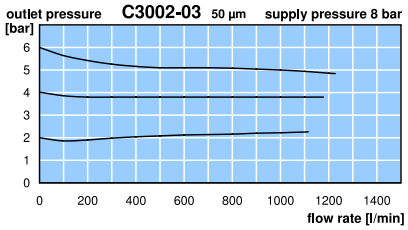
5 µm filter element			C3002- . .**G**
NPT	connection thread	for G¼ to G2	C3002- . .**N**
pressure range 0.2... 3 bar			C3002- . .**B**
pressure range 1 ...15 bar	P_1 max. 50 bar		C3002- . .**D**
manual drain	max. 30 bar		C3002- . .**H**
automatic drain	max. 16 bar	for G¼ to G1	C3002- . .**R**
down to -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	according to EN-1092-1 or ASME B16.5	on request	C3002- . .**F.**

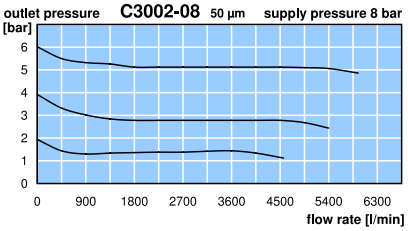
Accessories, enclosed

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

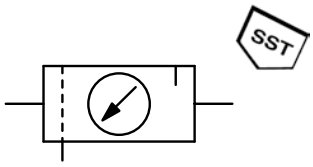
Further details: see chapter for single devices

PDF CAD
www.aircom.net

Order example: C3002-01H

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	see chart, max. 50 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



C3003-04

FRL unit, 3-part

P1: max. 30 / 50 bar, screw plug, P2: 0.5...8 bar*2, relieving, 50 µm, with gauge **C3003**

Dimensions A mm	B mm	C mm	Combination existing of	Flow rate m³/h*1	l/min*1	P1 max. bar	Connection thread G	Order number
212	168	130	F+R+L3000	42	700	30	G¼	**C3003-02**
257	167	130		132	2200	50	G½	**C3003-04**
427	219	168		231	3850	50	G¾	**C3003-06**
455	286	226		432	7200	50	G1	**C3003-08**
531	286	226		432	7200	50	G1¼	**C3003-10**
531	286	226		432	7200	50	G1½	**C3003-1A**
553	390	262		720	12000	50	G1½	**C3003-12**
553	390	262		780	13000	50	G2	**C3003-16**

SST



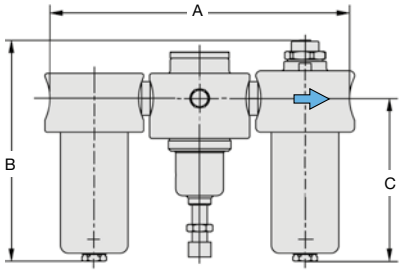
15

Special options, add the appropriate letter

5 µm filter element			C3003- . .**G**
NPT	connection thread		C3003- . .**N**
pressure range 0.2... 3 bar*2	P_1 max. 50 bar, max. 30 bar by G¼		C3003- . .**B**
pressure range 1 ...15 bar*2	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	according to EN-1092-1 or ASME B16.5	on request	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
*2 more pressure ranges possible (0,1...1,5 bar; 2...30 bar, 3...50 bar)

Further details: see chapter for single devices

PDF CAD
www.aircom.net

Order example:
C3003-02