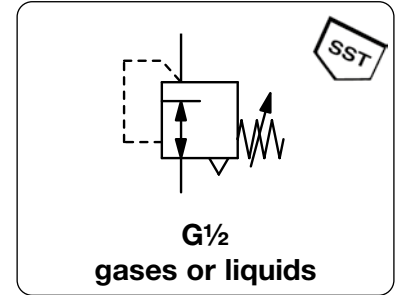


STAINLESS STEEL DEVICES

	DESCRIPTION	PRESSURE RANGE	CONNECTION	SERIES	PAGE
		bar	thread		
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	G⅝ - 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	G⅝ - 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	G⅝ - G2	B3000	15.29
	filter, also FDA	max. 50	G⅝ - 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	G⅝ - G2	L3000	15.38
	FRL	0.2 ... 3 / 15	G⅝ - G2	C3002, C3003	15.39
PINCH VALVES	2/2-solenoid valve	max. 4	G¼ - G2	QE	15.37
MOUNTING FLANGES	single or mounted	bis PN100 / ANSI	G½ - G3	F / VS	15.41



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	G $\frac{1}{4}$ on both sides of the body, screw plugs supplied
Mounting position	any
Temperature range	0 °C to 65 °C / 32 °F to 149 °F, for appropriately conditioned compressed air down to -30 °C / -22 °F 0 °C to 80 °C / 32 °F to 176 °F for spring cage made of fiberglass or stainless steel
Material	Body: stainless steel 316 Spring cage: glass fibre-reinforced plastic Elastomer: FKM Inner valve: stainless steel 316



Dimensions			Description	K _v -rate	Flow thread		Connection range	Pressure number	Order
A	B	C	value						
mm	mm	mm		(m ³ /h)	m ³ /h*1	l/min*1	G	bar	

Stainless steel pressure regulator								supply pressure max. 21 bar	R10-S
60	124	35	relieving for compressed air	2.6	144	2400	G $\frac{1}{2}$	0.2 ... 4.0 0.3 ... 9.0 0.5 ... 17	R10-04BS R10-04CS R10-04DS
60	124	35	non-relieving for liquids	2.6	2.6	43	G $\frac{1}{2}$	0.2 ... 4.0 0.3 ... 9.0 0.5 ... 17	R10-04BSK R10-04CSK R10-04DSK



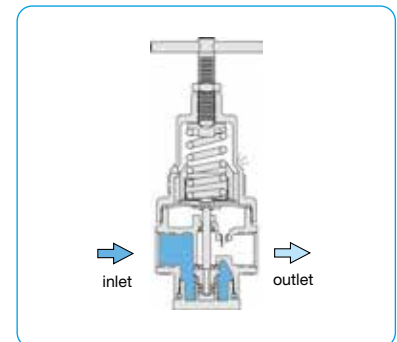
R10-S

Special options, add the appropriate letter

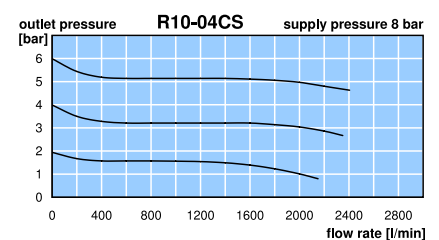
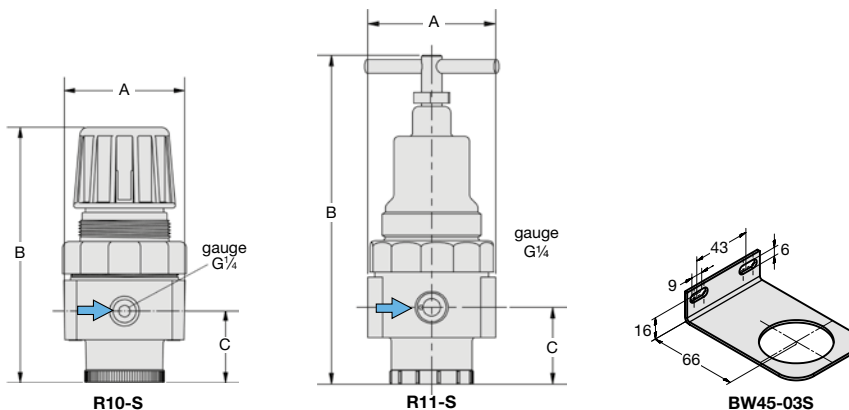
NPT	connection thread	R1.-0...N
spring cage made of SST	incl. SST-adjusting screw, total height= 154 mm	R11-04...

Accessories, enclosed

pressure gauge	Ø 50 mm, 0 ... *2 bar, G $\frac{1}{4}$	MS5002-..*2
mounting bracket		BW45-03S
mounting nut		M45X1,5S

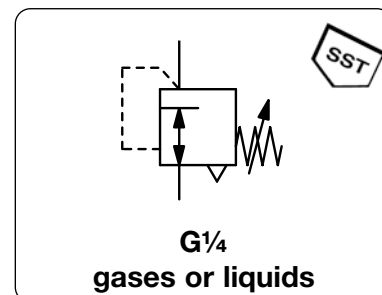


cross section



*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

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	G $\frac{1}{4}$ 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



Dimensions			Description	K _v -value	Flow rate		Connection thread	Pressure range	Order number
A	B	C		(m³/h)	m³/h*1	l/min*1	G	bar	
mm	mm	mm							

Stainless steel pressure regulator

supply pressure max. 21 bar

R364-S

35	75	13	relieving for compressed air	0.4	27	450	G $\frac{1}{4}$	0.2 ... 1.8 0.2 ... 4.0 0.3 ... 9.0	R364-02AS R364-02BS R364-02CS
35	75	13	non-relieving for liquids	0.4	0,4	6	G $\frac{1}{4}$	0.2 ... 1.8 0.2 ... 4.0 0.3 ... 9.0	R364-02ASK R364-02BSK R364-02CSK



R364-S

Special options, add the appropriate letter

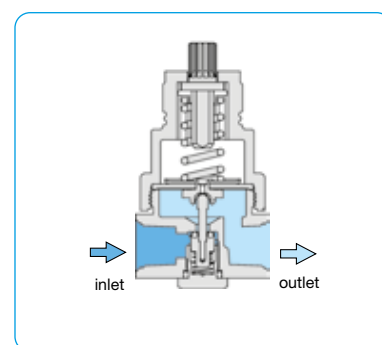
free of oil and grease specially cleaned

R3.4-0...L

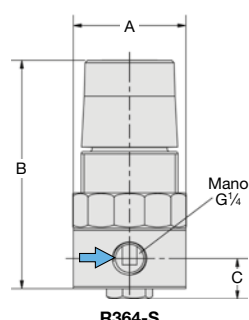
Accessories, enclosed

pressure gauge	Ø 40 mm, 0... ^{*2} bar, G $\frac{1}{4}$
mounting bracket	
mounting nut	made of stainless steel made of plastic

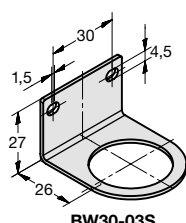
MS4002-...^{*2}
BW30-03S
M30x1,5S
M30x1,5K



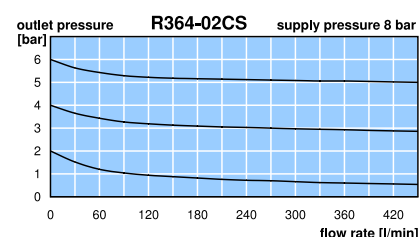
cross-section



R364-S



BW30-03S

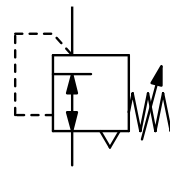


^{*1} at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop
^{*2} 02 = 0...2.5 bar, 04 = 0...4 bar, 10 = 0...10 bar, 16 = 0...16 bar, 25 = 0...25 bar

PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGHOUT, 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
Gauge port	G $\frac{1}{8}$ at R3000-01 and -A2, all others G $\frac{1}{4}$ 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



SST

**G $\frac{1}{8}$ up to G2 / DN100
gases or liquids**

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



SST Pressure regulator

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

R3000

40	88	18	M	0,35	20	330	30	G $\frac{1}{8}$	0,1 ... 1,5	R3000-01AT
									0,2 ... 3,0	R3000-01BT
									0,5 ... 8,0	R3000-01DT
									1,0 ... 15	R3000-01ET
40	88	18	M	0,35	20	330	30	G $\frac{1}{4}$	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	G $\frac{1}{4}$	0,1 ... 1,5	R3000-02AT
									0,2 ... 3,0	R3000-02BT
									0,5 ... 8,0	R3000-02CT
									1,0 ... 15	R3000-02DT
									2,0 ... 30	R3000-02ET
									3,0 ... 50	R3000-02FT
64	175	38	K	1,4	78	1300	50		0,1 ... 1,5	R3000-03AT
									0,2 ... 3,0	R3000-03BT
									0,5 ... 8,0	R3000-03CT
									1,0 ... 15	R3000-03FT
109	160	39	M	3,0	168	2800	50	G $\frac{3}{8}$	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		0,1 ... 1,5	R3000-03AT
									0,2 ... 3,0	R3000-03BT
									0,5 ... 8,0	R3000-03CT
									1,0 ... 15	R3000-03FT
109	160	39	M	3,0	168	2800	50	G $\frac{1}{2}$	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		0,1 ... 1,5	R3000-04AT
									0,2 ... 3,0	R3000-04BT
									0,5 ... 8,0	R3000-04CT
									1,0 ... 15	R3000-04FT
									2,0 ... 30	R3000-04GT
									3,0 ... 50	R3000-04LT



R3000-01/-A2

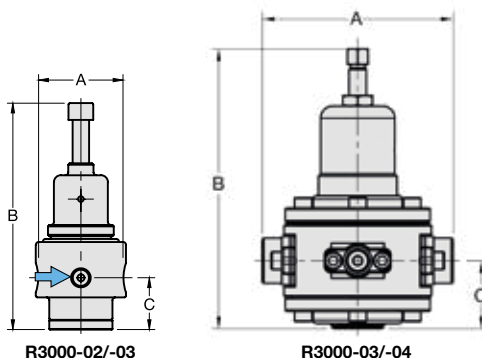


R3000-02



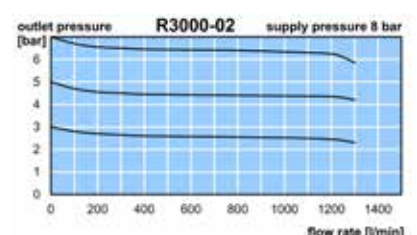
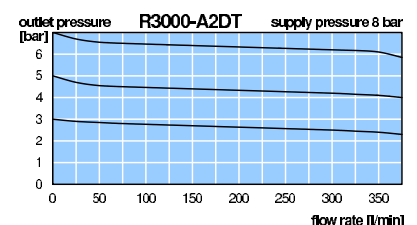
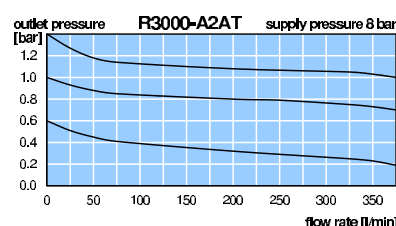
R3000-04

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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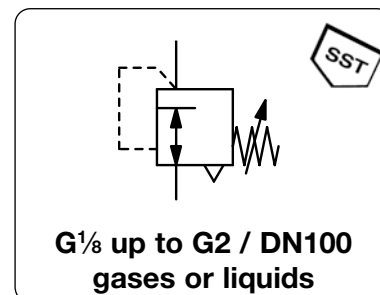


Order example:
R3000-01AT

PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGHTOUT, 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 $\Delta p_{\max.} \approx 25$ 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
Gauge port	G $\frac{1}{8}$ at R3000-01 and -A2, all others G $\frac{1}{4}$ 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



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

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	G $\frac{3}{4}$	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
									2.0 ... 30	R3000-08GT
									3.0 ... 50	R3000-08LT
165	302	60	K	9.7	540	9000	60		0.1 ... 1.5	R3000-10AT
									0.2 ... 3.0	R3000-10BT
									0.5 ... 8.0	R3000-10CT
									1.0 ... 15	R3000-10FT
									2.0 ... 30	R3000-10GT
									3.0 ... 50	R3000-10LT
269	287	60	M	9.7	540	9000	60	G1 $\frac{1}{4}$	0.1 ... 1.5	R3000-1AAT
									0.2 ... 3.0	R3000-1ABT
									0.5 ... 8.0	R3000-1ACT
									1.0 ... 15	R3000-1AFT
									2.0 ... 30	R3000-1AGT
									3.0 ... 50	R3000-1ALT
269	302	60	K	9.7	540	9000	60		0.1 ... 1.5	R3000-1AAT
									0.2 ... 3.0	R3000-1ABT
									0.5 ... 8.0	R3000-1ACT
									1.0 ... 15	R3000-1AFT
									2.0 ... 30	R3000-1AGT
									3.0 ... 50	R3000-1ALT



R3000-06/-A8

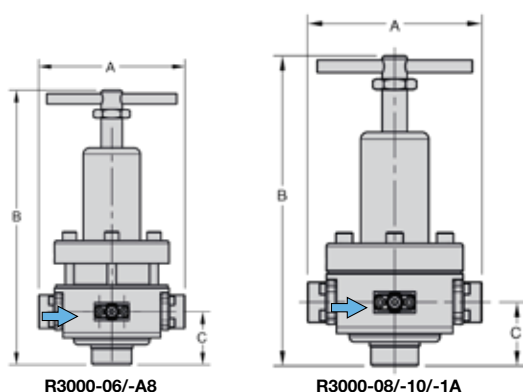


R3000-08/-10/-1A



R3000-06/A8.TF.

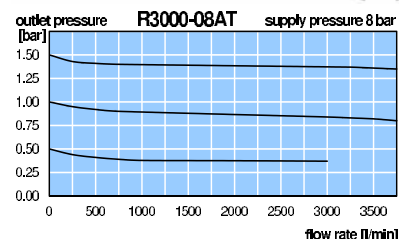
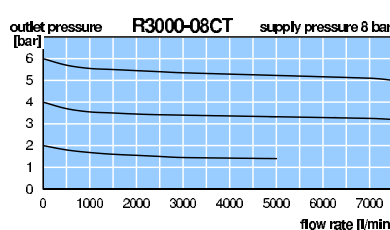
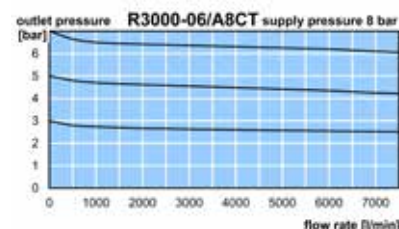
Accessories, see following pages



R3000-06/-A8

R3000-08/-10/-1A

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



* Product group

PDF CAD
www.aircom.net

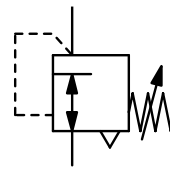


Order example:
R3000-06AT

PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGHOUT, 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
Gauge port	G $\frac{1}{8}$ at R3000-01 and -A2, all others G $\frac{1}{4}$ 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



SST

**G $\frac{1}{8}$ up to G2 / DN100
gases or liquids**

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



SST Pressure regulator

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

R3000

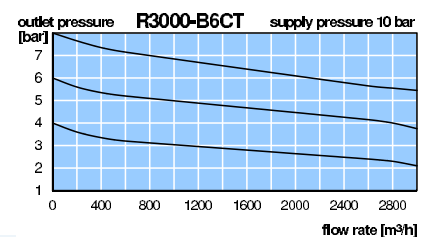
174	393	126	K	25	1380	23000	30	G1½	0.1 ... 1.5	R3000-12AT
									0.2 ... 3.0	R3000-12BT
									0.5 ... 8.0	R3000-12CT
							50		1.0 ... 15	R3000-12ET
									2.0 ... 30	R3000-12GT
									3.0 ... 50	R3000-12LT
174	393	126	K	25	1380	23000	30	G2	0.1 ... 1.5	R3000-B6AT
									0.2 ... 3.0	R3000-B6BT
									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



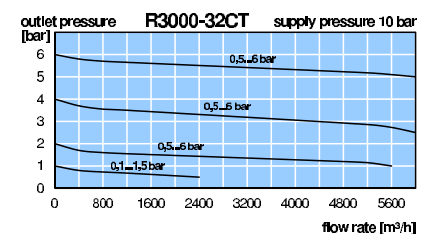
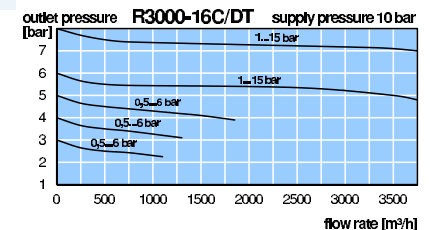
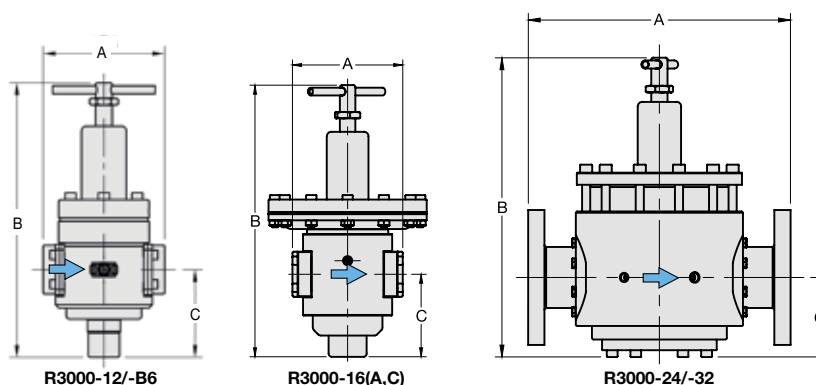
R3000-12/-B6



R3000-16
accessory: gauge



Accessories, see following pages



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

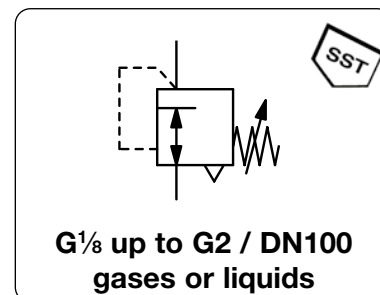
* Product group

PDF CAD
www.aircom.net



Order example:
R3000-12AT

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
Gauge port	$G\frac{1}{8}$ at R3000-01 and -A2, all others $G\frac{1}{4}$ 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

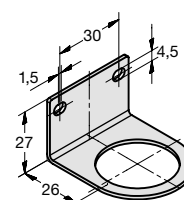


Dimensions	Regul. system	K_v	Flow	P_1	Connection	Pressure	Order
A B C	D: diaphragm	value	rate	max.	thread	range	number
mm mm mm	P: piston	(m ³ /h)	m ³ /h*1 l/min*1	bar	G	bar	

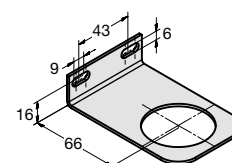


Special options, add the appropriate letter or number

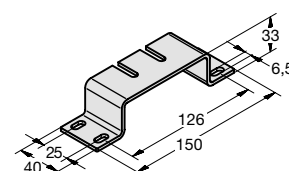
NPT	connection thread	R3000-...N
with T-handle	instead of hexagonal screw	for G $\frac{1}{4}$ (02) to G1 (A8) R3000-...P
relieving		R3000-...R
tapped exhaust		for R3000-01/A2 R3000-...X12
down to -40 °C	low temperature version	R3000-...X51
up to 130 °C	high temperature version	R3000-...X54
spring cowling m. of POM	for G $\frac{1}{8}$ and G $\frac{1}{4}$ (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 G $\frac{1}{4}$ (02) to G1 (A8) R3000-...S
	EPDM o-ring	for G $\frac{1}{4}$ (02) to G1 (A8) R3000-...SE
ammonia	NH ₃	R3000-...02
carbon dioxide	CO ₂	R3000-...03
argon	Ar	R3000-...05
nitrogen	N ₂	R3000-...07
helium	He	R3000-...09
hydrogen	H ₂	R3000-...11
methane	CH ₄	R3000-...13
natural gas *3		R3000-...14
oxygen	O ₂	R3000-...15
propane	C ₃ H ₈	R3000-...16
nitrous oxide	N ₂ O	R3000-...17
water	H ₂ O	R3000-...W
flange connection	see end of the chapter / flanges	R3000-...F.



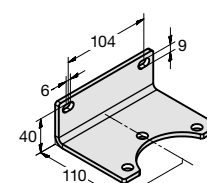
BW30-03S



BW45-03S



BW00-59S



BW00-68S

SST

SST

15

Accessories, enclosed

pressure gauge	Ø 40 mm, 0...*2 bar, G $\frac{1}{8}$	for G $\frac{1}{8}$ and G $\frac{1}{4}$ (A2)	MS4001-...*2
	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{1}{4}$ (02) to G $\frac{1}{2}$	MS5002-...*2
	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{3}{4}$ (06) to G2	MS6302-...*2
mounting bracket		for G $\frac{1}{8}$ and G $\frac{1}{4}$ (A2)	BW30-03S
mounting nut		for G $\frac{1}{8}$ and G $\frac{1}{4}$ (A2)	M30x1,5SS
mounting bracket		for G $\frac{1}{4}$ (02) to G1 (A8)	BW45-03S
mounting nut		for G $\frac{1}{4}$ (02) to G1 (A8)	M45x1,5S
mounting bracket		for G1 (08) + G1 $\frac{1}{2}$ (1A)	BW00-59S
		for G1 $\frac{1}{2}$ (12) + G2 (B6)	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

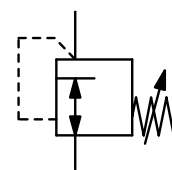
*3 without DVGW-approval



PRESSURE REGULATOR WITH FLANGE, MADE OF SPECIAL STEEL CASTING

REF

Description	Diaphragm-operated pressure regulator made of stainless steel throughout. Even when spindle is unscrewed the indicated minimum outlet pressure is existent.
Media	compressed air, neutral gases or liquids
Supply pressure	see chart, max. 25 bar
Adjustment	by T-handle, with locknut
Relieving function	non-relieving
Gauge port	G $\frac{1}{4}$ 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



SST

DN 15 up to DN 50, FDA
liquids or gases

Dimensions			K _v -value	Flow rate		Supply pressure	Connection flange	Pressure range	Order number
A	B	C	(m ³ /h)	air	water	max. bar	DN	bar	
mm	mm	mm	(m ³ /h)	l/min*1	l/min*1				

Pressure regulator with flange

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

REF

210	255	95	4.0	4200	66	8	DN 15	0.2...3.0	REF-04B
						25		2.0... 10	REF-04D
						25		6.0... 16	REF-04E
220	260	105	4.0	4200	66	8	DN 20	0.2...3.0	REF-06B
						25		2.0... 10	REF-06D
						25		6.0... 16	REF-06E
220	265	115	4.0	4200	66	8	DN 25	0.2...3.0	REF-08B
						25		2.0... 10	REF-08D
						25		6.0... 16	REF-08E
220	273	115	7.5	8000	125	8	DN 25	0.2...3.0	REF-A8B
						25		2.0... 10	REF-A8D
						25		6.0... 16	REF-A8E
280	290	150	7.5	8000	125	8	DN 40	0.2...3.0	REF-12B
						25		2.0... 10	REF-12D
						25		6.0... 16	REF-12E
320	298	165	7.5	8000	125	8	DN 50	0.2...3.0	REF-16B
						25		2.0... 10	REF-16D
						25		6.0... 16	REF-16E



REF-04D



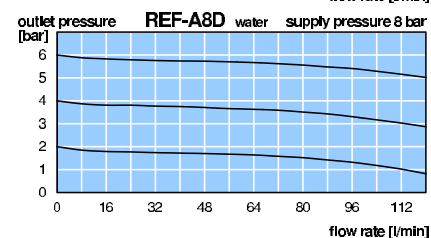
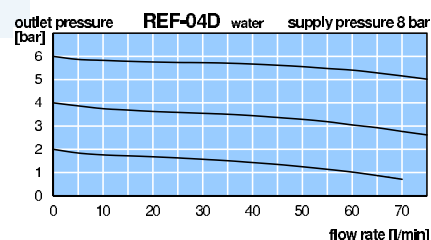
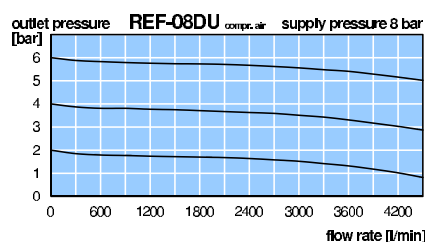
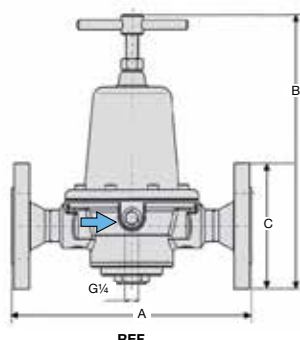
REF-08D

Special Options, add the appropriate letter

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

Accessories, enclosed

pressure gauge	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$	for DN 8 to DN 15 (04)	MS5002-...*2
	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	for DN 15 (A4) to DN 50	MS6302-...*2



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

*3 version has to be indicated in clear words

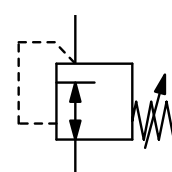
Gauges: see chapter for measuring devices

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	G $\frac{1}{4}$ 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



G $\frac{1}{4}$ up to G2, FDA
liquids or gases

Dimensions			K _v -	Flow rate		Supply	Nom.	Connection	Pressure	Order
A	B	C	value	air	water	pressure	size	thread	range	number
mm	mm	mm	(m ³ /h)	l/min*1	l/min*1	max. bar	DN	G	bar	

Regulator made of Special Steel Casting										for liquids, P ₁ : max. 8/25 bar, non-relieving, FKM	REA
92	190	42	1.0	1100	17	8	DN 8	G $\frac{1}{4}$	0.2...3.0		REA-02B
						25			2.0... 10		REA-02D
						25			6.0... 16		REA-02E
						8	DN 10	G $\frac{3}{8}$	0.2...3.0		REA-03B
						25			2.0... 10		REA-03D
						25			6.0... 16		REA-03E
						8	DN 15	G $\frac{1}{2}$	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	G $\frac{1}{2}$	0.2...3.0		REA-A4B
						25			2.0... 10		REA-A4D
						25			6.0... 16		REA-A4E
						8	DN 20	G $\frac{3}{4}$	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	G1 $\frac{1}{4}$	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	G1 $\frac{1}{2}$	0.2...3.0		REA-12B
						25			2.0... 10		REA-12D
						25			6.0... 16		REA-12E
235	250	53	7.5	8000	125	8	DN 50	G2	0.2...3.0		REA-16B
						25			2.0... 10		REA-16D
						25			6.0... 16		REA-16E



REA-04



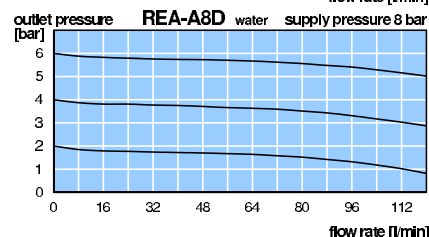
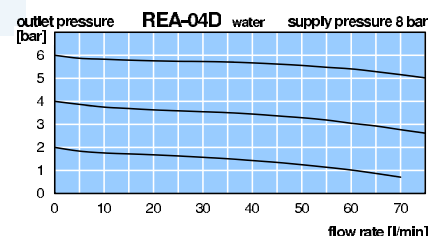
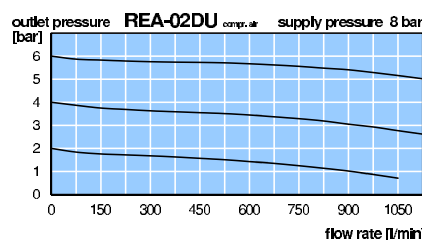
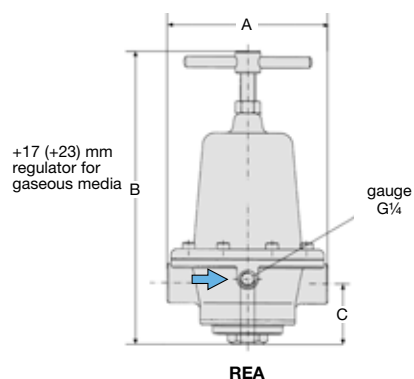
REA-A4,
accessory: gauge

SST

SST

15

Special options and Accessories, see page 15.10. REF



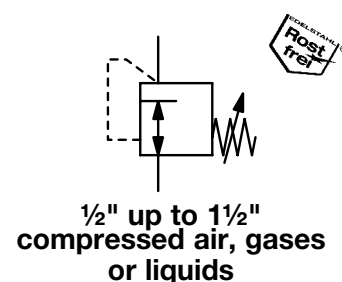
*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

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 <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, Main valve spring: AISI 302,	gasket: EPDM or FKM corresponding to FDA Adjusting spring: C85, nickel plated NiP/Fe 15 µm	
	All springs are not in contact with fluid.		



Dimensions				Kv- value	Flow rate	Connection ASME- BPE	Pressure range bar	Order number
A	B	C	ØD					
mm	mm	mm	mm	m³/h¹	l/min¹			

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 0,3 ... 3,0 0,8 ... 8,0	RTC-04A RTC-04B RTC-04D
140	183	57	25	1,4	2200	¾"	0,2 ... 1,5 0,3 ... 3,0 0,8 ... 8,0	RTC-06A RTC-06B RTC-06D
180	327	77	50,5	8,4	22000	1"	0,2 ... 1,5 0,3 ... 3,0 0,8 ... 8,0	RTC-08A RTC-08B RTC-08D
180	327	75	50,5	8,4	22000	1½"	0,2 ... 1,5 0,3 ... 3,0 0,8 ... 8,0	RTC-12A RTC-12B RTC-12D



RTC-04.M/-06.M



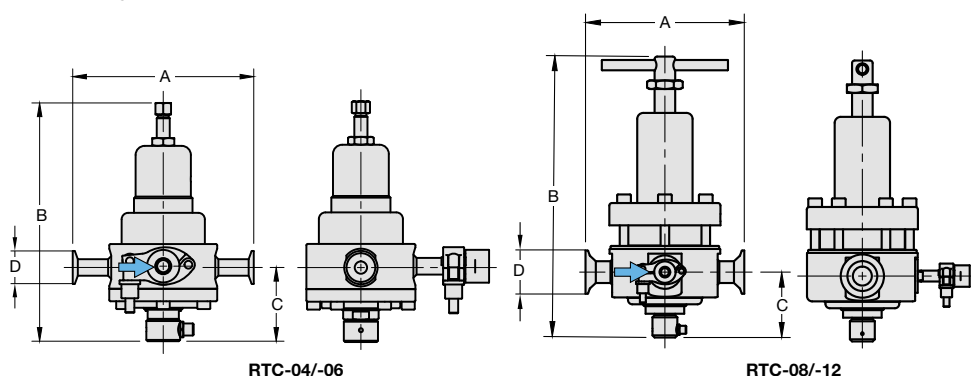
RTC-08/-12

Special Options, add the appropriate letter

FKM o-ring		RTC-... T
EPDM o-ring		RTC-... TD
to 200 °C	FDA approval	RTC-... X68
ammonia	high temperature version	RTC-... 02
nitrogen	NH₃	RTC-... 07
oxygen	N₂	RTC-... 15
water	O₂	RTC-... W
neutral gas	H₂O	RTC-... XX
pressure gauge	CO₂, Ar, He, H₂, CH₄, C₃H₈, N₂O	RTC-... M
	G¼	

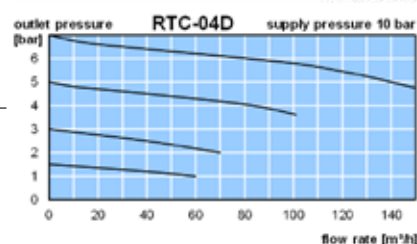
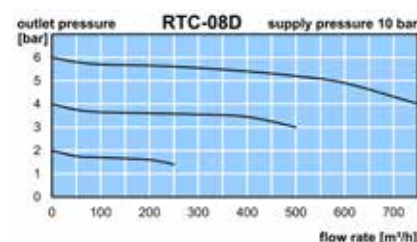
Accessories, enclosed

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



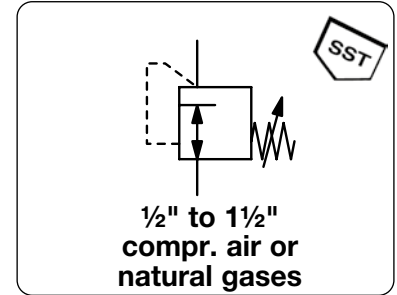
RTC-04/-06

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

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.	
Surface inside	Electropolished body with roughness Ra <4 µm on inside wetted surfaces.	
Adjustment	by adjusting screw	
Relieving function	non-relieving	
Tightness	Class VI; (IEC 60534-4)	
Temperature Range	-20°C to 80°C	
Material	Body, spring cage and internal parts: SST 316L Mai valve spring: SST 302 Diaphragm: NBR/Buna-N with PTFE coating	
	Supply pressure: max. 7 bar, min. 1 bar	Mounting position: any
		Gauge port: no pressure gauge connection, optionally G1/4
		Gasket: EPDM, FKM
		Adjusting spring: C85, nickel plated NiP, not in contact with fluid.



Dimensions			K _v - Value	Supply pressure	Flow rate	Connection ASME- BPE	Pressure Range	Order Number
A	B	C						
mm	mm	mm	m ³ /h ⁻¹	max. bar	m ³ /h ⁻¹ l/min ⁻¹		mbar	

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	1000	1/2"	5 ... 45	RTCN-04A
					78	1300		20 ... 200	RTCN-04C
					78	1300		150 ... 700	RTCN-04D
140	179	42	0,75	7	60	1000	3/4"	5 ... 45	RTCN-06A
					78	1300		20 ... 200	RTCN-06C
					78	1300		150 ... 700	RTCN-06D
170	237	66	1,4	7	84	1400	1"	5 ... 45	RTCN-08A
					105	1750		10 ... 120	RTCN-08B
					105	1750		10 ... 400	RTCN-08C
					138	2300		15 ... 700	RTCN-08D
					180	3000		200 ... 1200	RTCN-08E
170	237	66	1,4	7	84	1400	1 1/2"	5 ... 45	RTCN-12A
					105	1750		10 ... 120	RTCN-12B
					105	1750		10 ... 400	RTCN-12C
					138	2300		15 ... 700	RTCN-12D
					180	3000		200 ... 1200	RTCN-12E



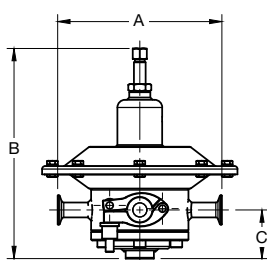
RTCN-04/-06

Special options, add the appropriate letter

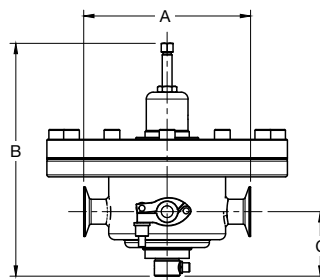
FKM o-ring		RTCN-... T
EPDM o-ring	FDA-approval	RTCN-... TD
up to 200 °C	high temperature version	RTCN-... X68
ammonia	NH ₃	RTCN-... 02
carbon dioxide	CO ₂	RTCN-... 03
nitrogen	N ₂	RTCN-... 07
oxygen	O ₂	RTCN-... 15
nitrous oxide	N ₂ O	RTCN-... 17
natural gas	Ar, He, Hz, CH ₄ , C ₃ H ₆	RTCN-... XX
pressure gauge connection		RTCN-... M

Accessories, enclosed

Pressure gauge	Ø 63 mm, 0...*2 mbar capsule spring, 1/4" bis 600 mbar	MS6302-..*2
	Ø 63 mm, 0...*2 bar bourdon tube, 1/4" ab 1 bar	MS6302-..*2



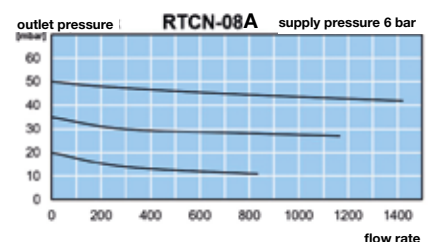
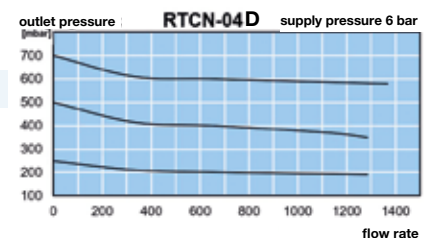
RTCN-04/06



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



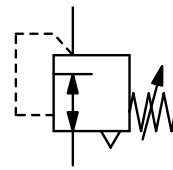
Gauges: see chapter for measuring devices

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	G $\frac{1}{4}$ 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	Internal parts: stainless steel 302
	Diaphragm: NBR/Buna-N with PTFE coating		



**G $\frac{1}{4}$ to G $\frac{1}{2}$, FDA
gases or liquids**

Dimensions			K _v -value	Flow rate		Connection thread	Pressure range	Order number
A	B	C		m ³ /h	l/min*	G	bar	
mm	mm	mm	(m ³ /h)	m ³ /h*	l/min*			



Precision pressure regulator supply pressure max. 20 bar, relieving **R3150**

109	160	39	1.4	78	1300	G $\frac{1}{4}$	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	G $\frac{3}{8}$	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	G $\frac{1}{2}$	0.02 ... 1.5	R3150-04A
							0.03 ... 3.0	R3150-04B
							0.05 ... 10	R3150-04C



R3150

Special options, add the appropriate letter or number

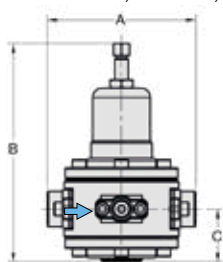
pilot operated	G $\frac{1}{8}$ max. 30 bar, 0...8 bar	R3150-0. J
NPT	connection thread	R3150-0. N
non-relieving	for liquids	R3150-0. K
EPDM o-ring		R3150-0. E
EPDM o-ring	FDA approval	R3150-0. TD
SST diaphragm	FKM o-ring	R3150-0. S
	EPDM o-ring	R3150-0. SE
ammonia	NH ₃	R3150-0. K02
carbon dioxide	CO ₂	R3150-0. K03
argon	Ar	R3150-0. K05
nitrogen	N ₂	R3150-0. K07
helium	He	R3150-0. K09
hydrogen	H ₂	R3150-0. K11
methane	CH ₄	R3150-0. K13
natural gas *		R3150-0. K14
oxygen	O ₂	R3150-0. K15
propane	C ₃ H ₈	R3150-0. K16
nitrous oxide	N ₂ O	R3150-0. K17
water	H ₂ O	R3150-0. KW

P₁ max. 15 bar

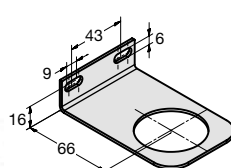
Accessories, enclosed

pressure gauge Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$

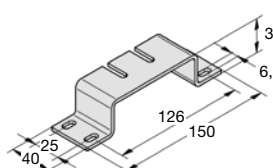
mounting bracket
mounting nut
mounting bracket



R3150



BW45-03S



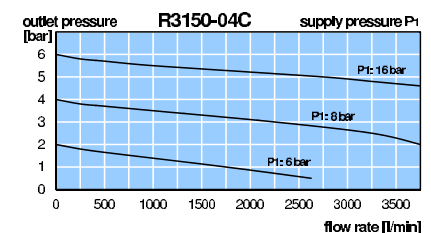
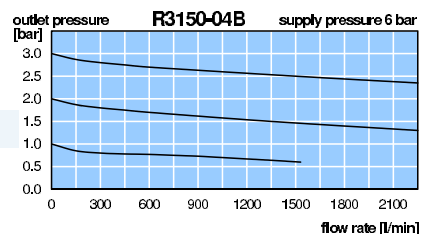
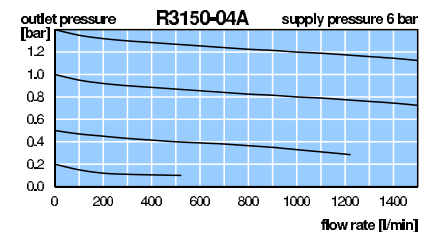
BW00-59S

MS5002-...*

BW45-03S

M45x1,5S

BW00-59S



*1 see diagram

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

*3 without DVGW-approval

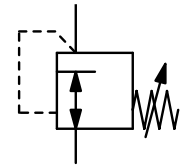
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net



**Order example:
R3150-02A**

Description	Precision low pressure regulator with large diaphragm, completely made of stainless steel.
Media	compressed air or gases
Supply pressure	see table, max. 10 bar, min. 1 bar
Air consumption	without constant bleed
Adjustment	by adjusting screw
Relieving function	non-relieving
Gauge port	G $\frac{1}{4}$ 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 Diaphragm: NBR/Buna-N with PTFE coating O-rings: FKM Inner valve: stainless steel 316L / 1.4404



G $\frac{1}{4}$ up to G2
5 ... 45/1500 mbar

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

Low pressure regulator made of SST, supply pressure max. 6/7/10 bar, non-relieving diaphragm NBR/Buna-N with PTFE coating, FKM o-ring **R3100**

109	181	39	1.4	84	1400	10	G $\frac{1}{4}$	5 ... 45 10 ... 400 20 ... 1000 50 ... 1500	R3100-02A R3100-02C R3100-02D R3100-02E
109	181	39	1.4	84	1400	10	G $\frac{3}{8}$	5 ... 45 10 ... 400 20 ... 1000 50 ... 1500	R3100-03A R3100-03C R3100-03D R3100-03E
109	181	39	1.4	84	1400	10	G $\frac{1}{2}$	5 ... 45 10 ... 400 20 ... 1000 50 ... 1500	R3100-04A R3100-04C R3100-04D R3100-04E
161	234	69	1.4	84	1400	7	G $\frac{3}{4}$	5 ... 45 10 ... 120 10 ... 400 15 ... 700 200 ... 1200	R3100-06A R3100-06B R3100-06C R3100-06D R3100-06E
161	296	53	8.4	576	9600				
161	234	69	1.4	84	1400	7	G1	5 ... 45 10 ... 120 10 ... 400 15 ... 700 200 ... 1200	R3100-08A R3100-08B R3100-08C R3100-08D R3100-08E
161	296	53	8.4	576	9600				



R3100-04

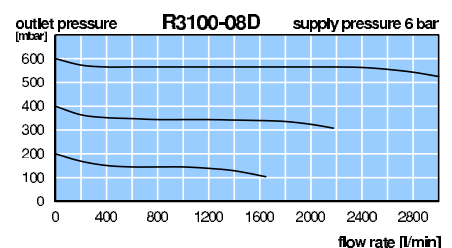
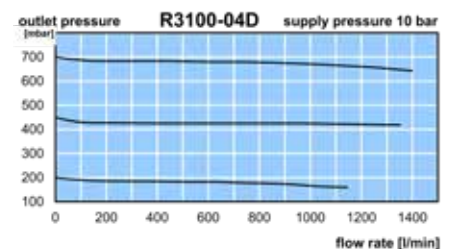
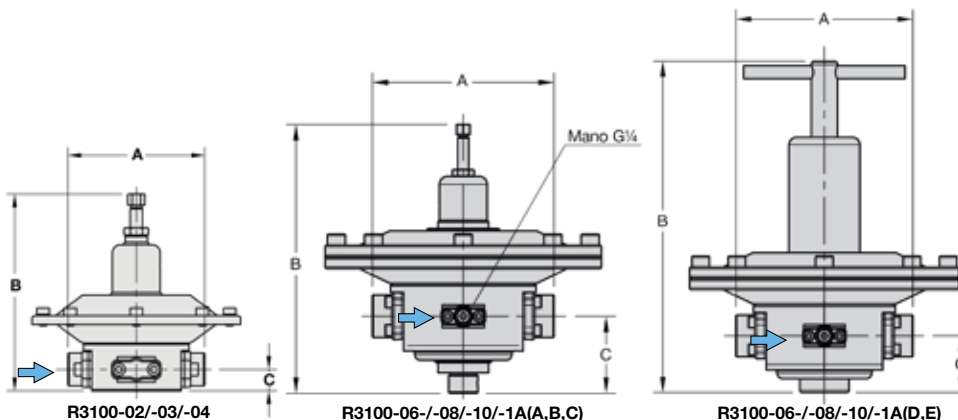


R3100-06/-08/-10/-1A
accessory: gauge

SST

SST

15



*1 at 6 bar supply pressure and 1 bar / 0.7 bar (-04) outlet pressure

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

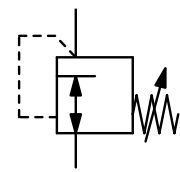


Order example:
R3100-02A

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	see table, max. 10 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**

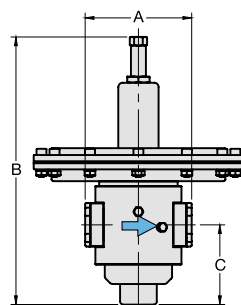
Dimensions			K _v - value	Flow rate		Supply pressure	Connection- thread	Pressure range	Order number
A	B	C		m³/h*1	l/min*1				
mm	mm	mm	(m³/h)			max. bar	G	mbar	

Low pressure regulator made of SST, supply pressure max. 6/7 bar, non-relieving diaphragm NBR/Buna-N with PTFE coating, FKM o-ring **R3100**

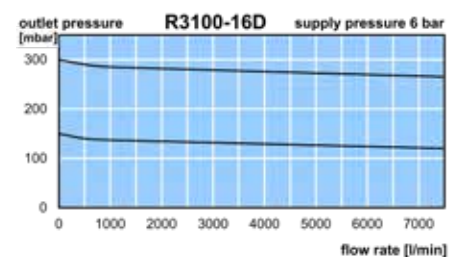
265	234	69	1.4	84	1400	7	G1¼	5 ... 45	R3100-10A
								10 ... 120	R3100-10B
								10 ... 400	R3100-10C
265	296	53	8.4	576	9600			15 ... 700	R3100-10D
								200 ... 1200	R3100-10E
265	234	69	1.4	84	1400	7	G1½	5 ... 45	R3100-1AA
								10 ... 120	R3100-1AB
								10 ... 400	R3100-1AC
265	296	53	8.4	576	9600			15 ... 700	R3100-1AD
								200 ... 1200	R3100-1AE
171	431	97	6.2	420	7000	6	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	6	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



R3100-12/-16



R3100-12/-16



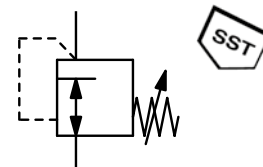
*1 at 6 bar supply pressure and 1 bar / 0.7 bar (-04) outlet pressure

PDF CAD
www.aircom.net



Order example:
R3100-10A

Description	Precision low pressure regulator with large diaphragm, completely made of stainless steel.		
Media	compressed air or gases		
Supply pressure	max. 7 bar, min. 1 bar		
Air consumption	without constant bleed		
Adjustment	by adjusting screw		
Relieving function	non-relieving		
Gauge port	G $\frac{1}{4}$ 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	Inner valve: stainless steel 316L / 1.4404
	Diaphragm: NBR/Buna-N with PTFE coating		



G $\frac{1}{4}$ up to G2
5 ... 45/1500 mbar

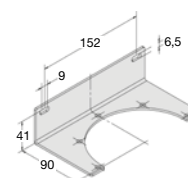
Dimensions			K _v -value	Flow rate	Supply pressure	Connection- thread	Pressure range	Order number
A	B	C		m ³ /h*1	l/min*1	max. bar	G	mbar
mm	mm	mm	(m ³ /h)					

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 ₃ H ₈	R3100- ... 16
nitrous oxide	N ₂ O	R3100- ... 17
flange connection	see end of the chapter / flanges	R3100- ... F .

Accessories, enclosed

pressure gauge	Ø 63 mm, 0... ^{*3} mbar, G $\frac{1}{4}$, capsule type	up to 600 mbar	MS6302- ..^{*3}
	Ø 63 mm, 0... ^{*4} bar, G $\frac{1}{4}$, Bourdon tube	from 1 bar on	MS6302- ..^{*4}
mounting bracket		for G $\frac{1}{4}$ to G $\frac{1}{2}$	BW00-26S



BW00-26S

*1 at 6 bar supply pressure and 1 bar / 0.7 bar (-04) outlet pressure
*3 B6 = 0...60 mbar, C3 = 0...250 mbar, C4 = 0...400 mbar, C6 = 0...600 mbar

*2 without DVGW-approval
*4 02 = 0...2 bar, 04 = 0...4 bar, 06 = 0...6 bar



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

Material

Body: stainless steel 316

Diaphragm: stainless steel 316

O-ring: FKM / PTFE

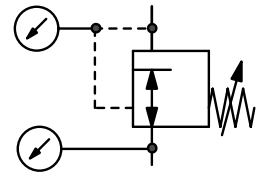
Mounting position

any

Filter: stainless steel 316

Valve seat: FKM

Piston: stainless steel 316



G $\frac{1}{4}$ up to G $\frac{1}{4}$
1 ... 8/200 bar

Dimensions			Relief valve	K _v -value	Flow rate	Connection thread	Pressure range	Order number
A	B	C	S: with valve	(m ³ /h)	m ³ /h*1	l/min*1	inlet/outlet	bar
mm	mm	mm						

High pressure regulator 220 bar

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

RH3000

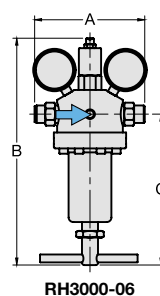
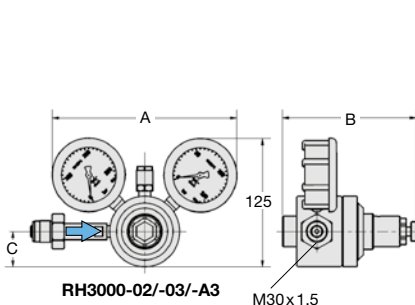
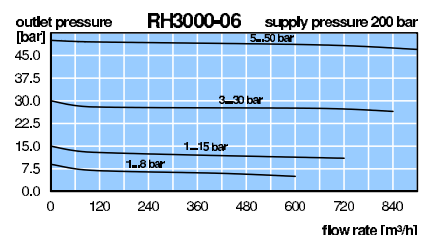
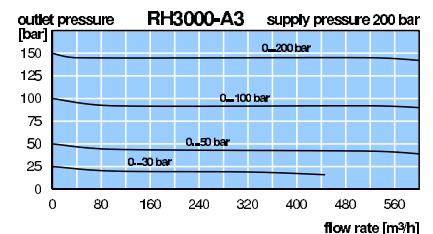
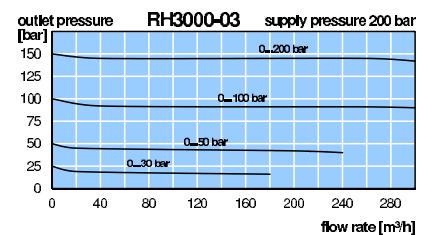
170	159	32	S	0.05	30	500	DIN 477 / G $\frac{1}{4}$ f	1 ... 8	RH3000-02A
			S		45	750		1 ... 15	RH3000-02B
170	172	32	S		60	1000		3 ... 30	RH3000-02C
			S		60	1000		5 ... 50	RH3000-02D
			S		60	1000		10 ... 100	RH3000-02E
			-		60	1000		20 ... 200	RH3000-02F
186	172	40	S	0.15	70	1150	DIN 477 / G $\frac{3}{8}$ f	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
					390	6500		20 ... 200	RH3000-03F
186	196	40	-						
178	241	40	S	0.25	370	6170	G $\frac{3}{4}$ f / G $\frac{3}{8}$ f	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
					700	11670		20 ... 200	RH3000-A3F
178	196	40	-						
178	241	40	S	0,25	370	6170	G $\frac{3}{4}$ i / G $\frac{1}{2}$ i	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
			-		700	11670		20 ... 200	RH3000-04F
178	196	40	-						
166	345	232	S	1.5	600	10000	G $\frac{3}{4}$ m / G $\frac{3}{4}$ m	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



RH3000-03



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

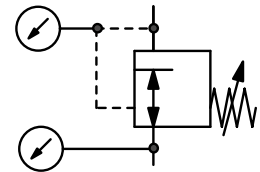
PDF CAD
www.aircom.net



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		
Material	Body:	stainless steel 316	Mounting position any
	Diaphragm:	stainless steel 316	Filter: stainless steel 316
	O-ring:	FKM / PTFE	Valve seat: FKM
			Piston: stainless steel 316



G $\frac{1}{4}$ up to G1 $\frac{1}{4}$
1 ... 8/200 bar

Dimensions			Relief valve	K _v -value	Flow rate	Connection thread	Pressure range	Order number
A	B	C	S: with valve	(m ³ /h)	m ³ /h*1	l/min*1	inlet/outlet	bar
mm	mm	mm						

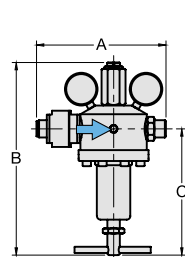
High pressure regulator 220 bar					non-relieving, for compressed air with supply and outlet pressure gauges			RH3000	
253	365	242	S	1,8	1100	18330	G1a / G1 a	1 ... 8	RH3000-08A
			S		1300	21670		1 ... 15	RH3000-08B
253	406	278	S		1500	25000		3 ... 30	RH3000-08C
			S		1650	27500		5 ... 50	RH3000-08D
			-		1850	30830		20 ... 200	RH3000-08F
248	370	270	S	3,1	3850	65830	G1a / G1 $\frac{1}{4}$ i	1 ... 8	RH3000-10A
								1 ... 15	RH3000-10B
								3 ... 30	RH3000-10C
								5 ... 50	RH3000-10D

Special options, add the appropriate letter

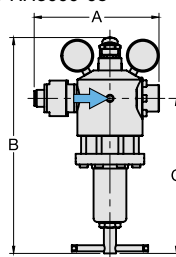
diaphragm relieving		RH3000-... R
piston relieving		RH3000-... R
EPDM elastomer		RH3000-... E
for panel mounting	for RH3000-02 to -A3	RH3000-... P
carbon dioxide*2	CO ₂	RH3000-... 03
argon	Ar	RH3000-... 05
nitrogen	N ₂	RH3000-... 07
helium	He	RH3000-... 09
hydrogen	H ₂	RH3000-... 11
methane	CH ₄	RH3000-... 13
natural gas *3		RH3000-... 14
propane	C ₃ H ₈	RH3000-... 16
nitrous oxide	N ₂ O	RH3000-... 17
without cylinder connection		RH3000-... X40

Accessories, enclosed

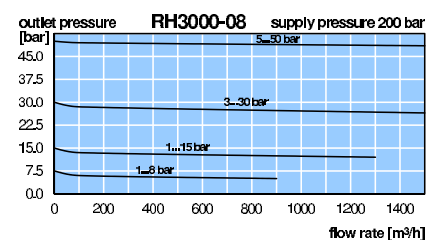
mounting bracket	for RH3000-02	BW45-03S
mounting nut	for RH3000-02	M45x1,5S
mounting bracket	for RH3000-03 and -A3	BW50-01S
mounting nut	for RH3000-03 and -A3	M50x1,5S
mounting bracket	for RH3000-06	BW00-31S
	for RH3000-08	BW00-35S



RH3000-08



RH3000-10



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

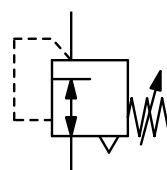
*2 max. 80 bar

*3 without DVGW-approval



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 G $\frac{1}{4}$		
Relieving function	non-relieving, optionally relieving		
Exhaust	DN 2, optionally DN 4		
Gauge port	G $\frac{1}{4}$ 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 SST	O-rings: FKM, optionally EPDM Inner valve: SST 316L, W.-Nr. 1.4404	Mounting position any



SST

G $\frac{1}{4}$ to G2, FDA gases or liquids

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

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	G $\frac{1}{4}$	15	1...15	R3000-02J2T	
64	92	38	K					50	1...50	R3000-02J5T	
109	90	39	M	3.0	168	2800	G $\frac{1}{2}$	15	1...15	R3000-04J2T	
109	108	39	K					50	1...50	R3000-04J5T	
165	137	60	M	9.7	540	9000	G $\frac{3}{4}$	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	
269	137	60	M	9.7	540	9000	G1 $\frac{1}{4}$	15	1...15	R3000-10J2T	
269	172	60	K					50	1...50	R3000-10J5T	
269	137	60	M	9.7	540	9000	G1 $\frac{1}{2}$	15	1...15	R3000-1AJ2T	
269	172	60	K					50	1...50	R3000-1AJ5T	



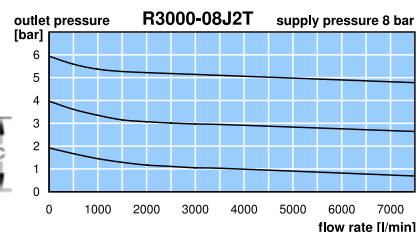
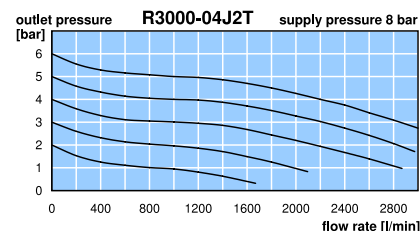
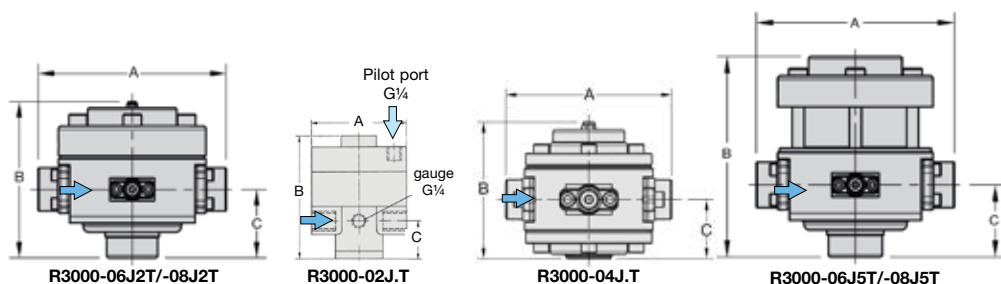
R3000-02J2T
accessory: gauge



R3000-04J



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



*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop
*2 02 = 0...2.5 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar, 60 = 0...60 bar

Gauges: see chapter for measuring devices

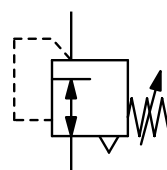
PDF CAD
www.aircom.net



Order example:
R3000-02J2T

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 G $\frac{1}{4}$		
Relieving function	non-relieving, optionally relieving		
Exhaust	DN 2, optionally DN 4		
Gauge port	G $\frac{1}{4}$ 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 SST	O-rings: FKM, optionally EPDM Inner valve: SST 316L, W.-Nr. 1.4404	Mounting position any



SST

G $\frac{1}{4}$ to G2, FDA gases or liquids

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

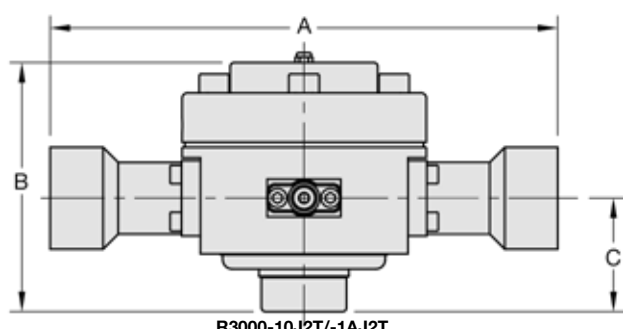
Stainless steel booster				supply pressure max. 60 bar, non-relieving, ratio 1:1, PTFE-diaphragm and FKM-o-ring				R3000-J		
174	226	126	K	25.0	1380	23000	G1 $\frac{1}{2}$	50	1...15	R3000-12J2T
174	226	126	K					50	1...50	R3000-12J5T
174	226	126	K	25.0	1380	23000	G2	50	1...15	R3000-B6J2T
174	226	126	K					50	1...50	R3000-B6J5T
171	268	128	K	25.0	1440	24000	G2	15	1...15	R3000-16J2T



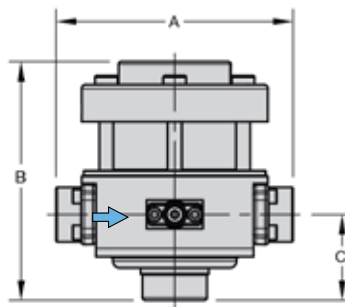
R3000-12J2T

SST

SST
15



R3000-10J2T/-1AJ2T



R3000-06J/-08J

*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

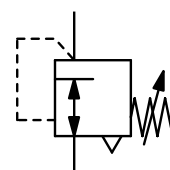
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net



Order example:
R3000-12J2T

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 G $\frac{1}{4}$		
Relieving function	non-relieving, optionally relieving		
Exhaust	DN 2, optionally DN 4		
Gauge port	G $\frac{1}{4}$ 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 SST	O-rings: FKM, optionally EPDM Inner valve: SST 316L, W.-Nr. 1.4404	Mounting position any

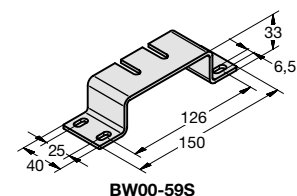


G $\frac{1}{4}$ to G2, FDA gases or liquids

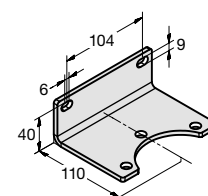
Dimensions	Regulating System	K _v -value	Flow rate	Connection	Pilot pressure	Pressure range	Order number
A B C	D: Diaphragm P: Piston	(m ³ /h)	m ³ /h*1 l/min*1	thread G	max. bar	bar	
mm mm mm							

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.O2
carobon dioxide	CO ₂		R3000-...J.O3
argon	Ar		R3000-...J.O5
nitrogen	N ₂		R3000-...J.O7
helium	He		R3000-...J.O9
hydrogen	H ₂		R3000-...J.O11
methane	CH ₄		R3000-...J.O13
natural gas *3			R3000-...J.O14
oxygen	O ₂		R3000-...J.O15
propane	C ₃ H ₈		R3000-...J.O16
nitrous oxide	N ₂ O		R3000-...J.O17
water	H ₂ O		R3000-...J.W
flange connection	see end of the chapter / flanges		R3000-...J.F.



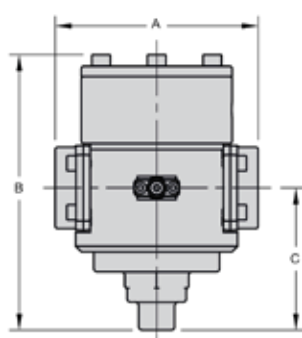
BW00-59S



BW00-68S

Accessories, enclosed

pressure gauge	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{1}{4}$ and G $\frac{1}{2}$	MS5002-...*2
	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{1}{4}$ to G2	MS6302-...*2
mounting bracket		for G $\frac{1}{4}$ and G1	BW00-59S
		for G $\frac{1}{2}$ (12) and G2 (B6)	BW00-68S

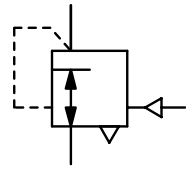


R3000-12J/-B6J

*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



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 outlet pressure 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		
Pilot pressure	max. 10 bar	Supply pressure	max. 17 bar
Accuracy	response sensitivity 15 mbar		
Air consumption	no air consumption	Relieving function	relieving, tapped exhaust function ¼ 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		
Temperature range	-40 to 93 °C / -72 to 167.4 °F; optionally to -52 °C / -93.6 °F	Mounting position:	any
Material	Body and inner valve stainless steel 316L		Elastomer: NBR



¾" NPT and 1" NPT
13000 l/min

Dimensions			K _v -value	Flow rate		Connection thread	Supply pressure	Pilot pressure	Order number
A	B	C	(m³/h)	m³/h*1	l/min*1	NPT	max. bar	signal : outlet	
mm	mm	mm							

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



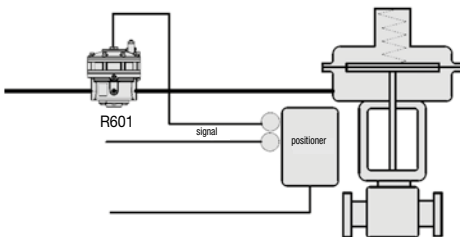
R601

Special options, add the appropriate letter

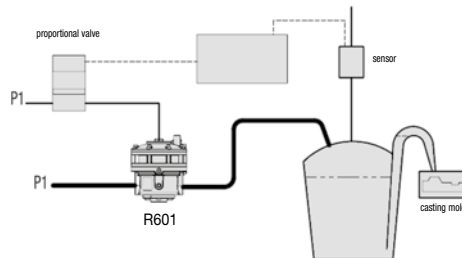
Low temperature option to -52 °C / -93 °F R600-0 . NX51

Accessories, enclosed

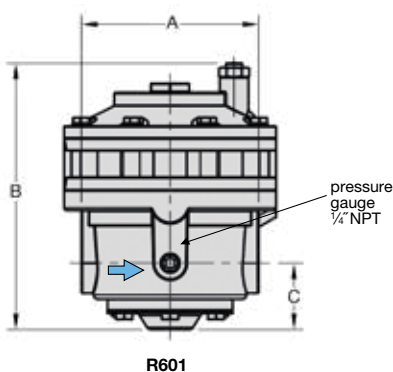
Pressure gauge Ø 63 mm, 0...*2 bar, G¼
Connection part pressure gauge 1/4" NPTa-G1/4
Mounting bracket
MA6302-..*2
VP-0202N
BW00-66S



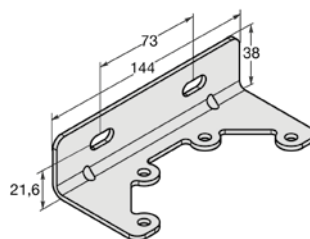
Volume flow booster with single-acting positioner and diaphragm actuator



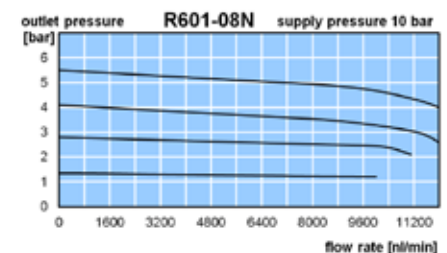
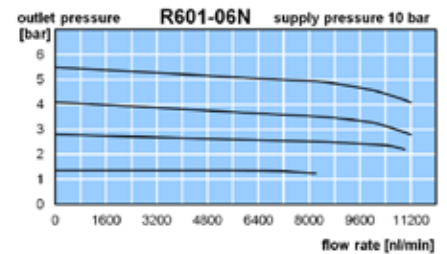
Volume flow booster in a casting plant



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

Gauge: see chapter for measuring devices

PDF CAD
www.aircom.net

* Product group



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 Adjustment

see chart, max. 70 bar
by adjusting screw at D3000-01 to -A6, with locknut
by T-handle at D3000-06 to -16, with locknut
for inlet pressure, G $\frac{1}{8}$ on both sides, all others G $\frac{1}{4}$, screw plugs supplied

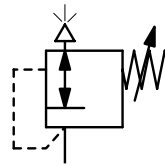
Gauge port

Mounting position

Temperature range

any
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
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

Material



G $\frac{1}{8}$ to G2, FDA
0.1 ... 1.5 / 50 bar

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

Back pressure regulator

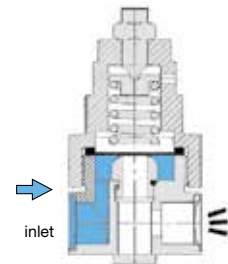
overpressure max. 22.5 / 30 / 70 bar,
PTFE diaphragm and FKM o-ring

D3000

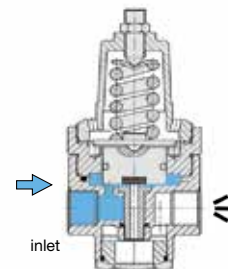
40	83	13	M	400	30	G $\frac{1}{8}$	0,1 ... 1,5 0,2 ... 3,0 0,5 ... 8,0 1,0 ... 15	D3000-01AT D3000-01BT D3000-01DT D3000-01ET
40	83	13	M	400	30	G $\frac{1}{4}$	0,1 ... 1,5 0,2 ... 3,0 0,5 ... 8,0 1,0 ... 15	D3000-A2AT D3000-A2BT D3000-A2DT D3000-A2ET
109	140	17	M	2300	22,5	G $\frac{1}{4}$	0,1 ... 1,5 0,2 ... 3,0 0,5 ... 8,0 1,0 ... 15	D3000-02AT D3000-02BT D3000-02DT D3000-02ET
109	153	17	K	2300	70		2,0 ... 30 3,0 ... 50	D3000-02FT D3000-02GT
109	140	17	M	2300	22,5	G $\frac{3}{8}$	0,1 ... 1,5 0,2 ... 3,0 0,5 ... 8,0 1,0 ... 15	D3000-03AT D3000-03BT D3000-03DT D3000-03ET
109	153	17	K	2300	70		2,0 ... 30 3,0 ... 50	D3000-03FT D3000-03GT
109	140	17	M	2300	22,5	G $\frac{1}{2}$	0,1 ... 1,5 0,2 ... 3,0 0,5 ... 8,0 1,0 ... 15	D3000-04AT D3000-04BT D3000-04DT D3000-04ET
109	153	17	K	2300	70		2,0 ... 30 3,0 ... 50	D3000-04FT D3000-04GT



D3000-02/-03/-04

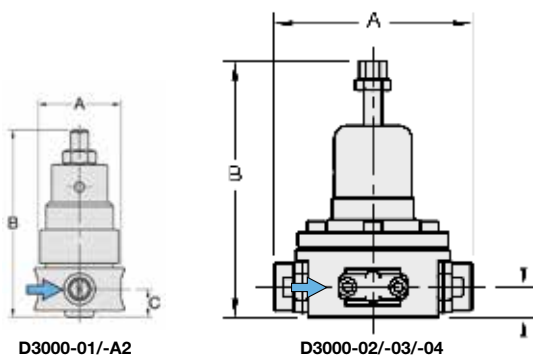


with diaphragm



with piston

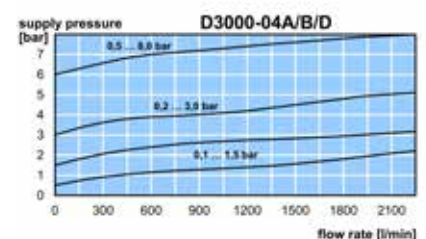
Accessories, see next pages



D3000-01/-A2

D3000-02/-03/-04

*1 at 7 bar overpressure and open outlet



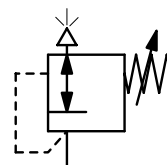
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net



Order example:
D3000-02AT

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, G $\frac{1}{4}$ on both sides, screw plugs supplied
Mounting position	any
Temperature range	0 °C to 80 °C / 32 °C to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °C to 266 °F for high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40 °C / -40 °F
Material	Body: stainless steel 316L, material no 1.4404 O-rings: FKM, optionally EPDM Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel Inner valve: stainless steel 316L, material no 1.4404



SST

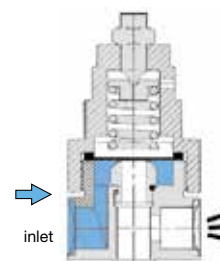
G $\frac{1}{8}$ to G2, FDA
0.1 ... 1.5 / 50 bar

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

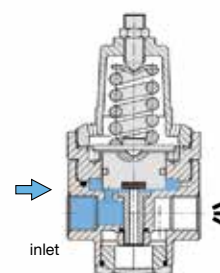
Back pressure regulator					overpressure max. 30 / 65 bar, PTFE diaphragm and FKM o-ring	D3000	
165	246	21	M	8000	30	G $\frac{3}{4}$	0,1 ... 1,5 D3000-06AT 0,2 ... 3,0 D3000-06BT 0,5 ... 8,0 D3000-06DT 1,0 ... 15 D3000-06ET
165	270	21	K	8000	65		2,0 ... 30 D3000-06FT 3,0 ... 50 D3000-06GT
165	246	21	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	G1 $\frac{1}{4}$	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	G1 $\frac{1}{2}$	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



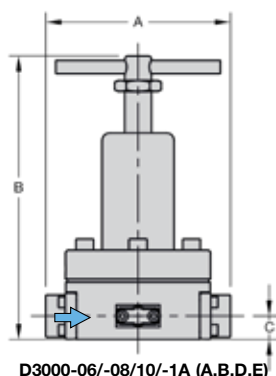
with piston

SST

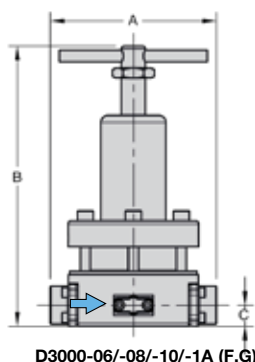
SST

15

Accessories, see next pages

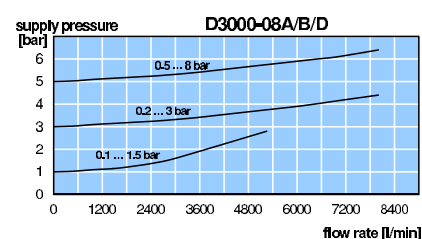


D3000-06/-08/-10/-1A (A,B,D,E)



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

*1 at 7 bar overpressure and open outlet



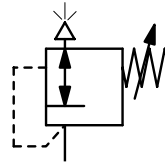
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net



Order example:
D3000-06AT

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, G $\frac{1}{4}$ on both sides, screw plugs supplied
Mounting position	any
Temperature range	0 °C to 80 °C / 32 °C to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °C to 266 °F for high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40 °C / -40 °F
Material	Body: stainless steel 316L, material no 1.4404 O-rings: FKM, optionally EPDM Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel Inner valve: stainless steel 316L, material no 1.4404



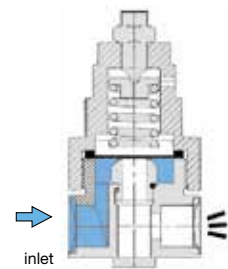
G $\frac{1}{8}$ to G2, FDA
0.1 ... 1.5 / 50 bar

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

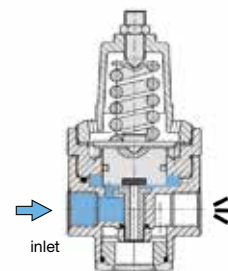
Back pressure regulator					overpressure max. 70 bar, PTFE diaphragm and FKM o-ring	D3000		
174	283	35	M	28 000	70	G1 $\frac{1}{2}$	0.1 ... 1.5	D3000-12AT
							0.2 ... 3.0	D3000-12BT
							0.5 ... 8.0	D3000-12DT
							1.0 ... 15	D3000-12ET
							2.0 ... 30	D3000-12FT
							3.0 ... 50	D3000-12GT
174	283	35	M	28 000	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
							2.0 ... 30	D3000-16FT
							3.0 ... 50	D3000-16GT



D3000-12/-16

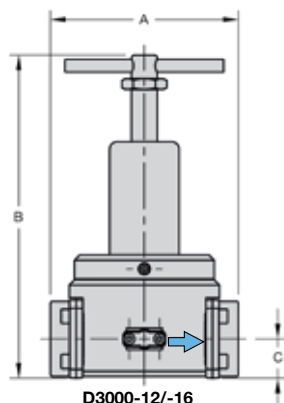


with diaphragm

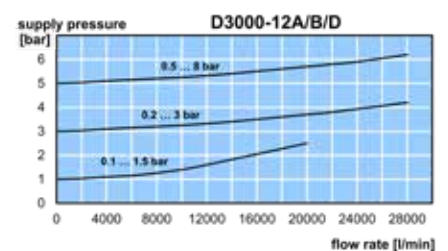


with piston

Accessories, see next page



D3000-12/-16



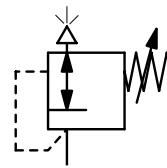
*1 at 7 bar overpressure and open outlet

PDF CAD
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Order example:
D3000-12AT

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, G $\frac{1}{4}$ on both sides, screw plugs supplied
Mounting position	any
Temperature range	0 °C to 80 °C / 32 °C to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °C to 266 °F for high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40 °C / -40 °F
Material	Body: stainless steel 316L, material no 1.4404 O-rings: FKM, optionally EPDM Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel Inner valve: stainless steel 316L, material no 1.4404

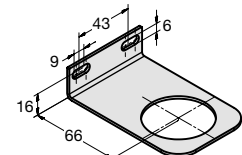


G $\frac{1}{8}$ to G2, FDA
0.1 ... 1.5 / 50 bar

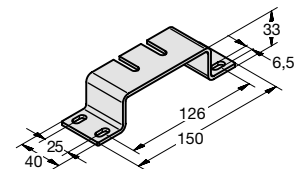
Dimensions	Regul. system	Exhaust	Over-	Connection	Adjustment	Order
A B C	D: Diaphragm	rate	pressure	thread	range	number
mm mm mm	P: Piston	l/min*1	max. bar	G	bar	

Special options, add the appropriate letter

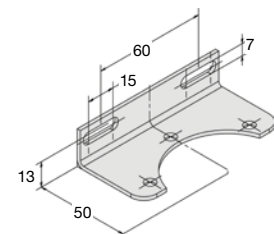
pilot operated	Diaphragm version, control press. max. 15 bar, 1 ... 15 bar	D3000-...J2
pilot operated	Piston version, control press. max. 50 bar, 1 ... 50 bar	D3000-...J5
NPT	connection thread	D3000-...N
down to -40 °C/ -40 °F	low temperature version	D3000-...X51
up to 130 °C/266 °F	high temperature 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	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 ₃ H ₈	D3000-...16
nitrous oxide	N ₂ O	D3000-...17
water	H ₂ O	D3000-...W
flange connection	see end of the chapter / flanges	D3000-...F.



BW45-03S



BW00-59S



BW00-63S

SST



Accessories, enclosed

pressure gauge	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{1}{4}$ to G $\frac{1}{2}$	MS5002-...*2
	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{3}{4}$ to G2	MS6302-...*2
mounting bracket		for G $\frac{1}{4}$ and G $\frac{1}{2}$	BW45-03S
mounting nut			M45x1,5S
mounting bracket		for G $\frac{3}{4}$ to G1 $\frac{1}{2}$ (1A)	BW00-59S
		for G1 $\frac{1}{2}$ (12) and G2	BW00-63S

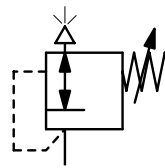
*1 at 7 bar overpressure and open outlet

*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



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
Adjustment	by adjusting screw for D3100-02 to -1A, with locknut by T-handle for D3100-12 and -16, with locknut	
Gauge port	G $\frac{1}{4}$ 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	



G $\frac{1}{4}$ and G2
0 ... 45/3000 mbar

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

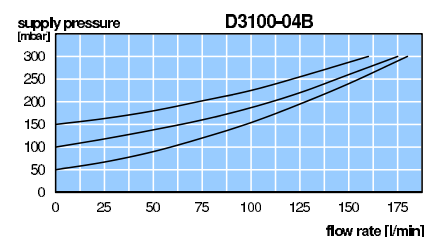
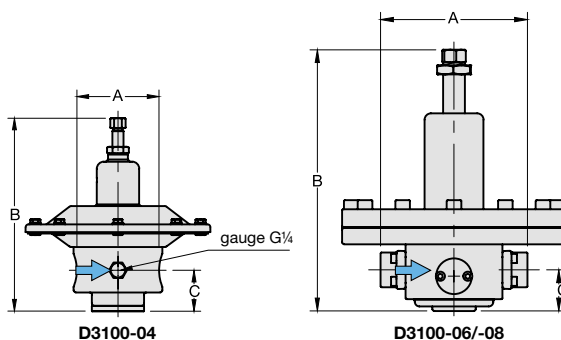
Back pressure regulator				overpressure max. 6/10 bar, PTFE-diaphragm and FKM-o-ring		D3100	
109	181	39	450	10	G $\frac{1}{4}$	0 ... 45	D3100-02AT
			750			0 ... 400	D3100-02BT
			1000			0 ... 1000	D3100-02CT
			1400			0 ... 1500	D3100-02DT
109	181	39	450	10	G $\frac{3}{8}$	0 ... 45	D3100-03AT
			750			0 ... 400	D3100-03BT
			1000			0 ... 1000	D3100-03CT
			1400			0 ... 1500	D3100-03DT
109	181	39	450	10	G $\frac{1}{2}$	0 ... 45	D3100-04AT
			750			0 ... 400	D3100-04BT
			1000			0 ... 1000	D3100-04CT
			1400			0 ... 1500	D3100-04DT
161	290	45	1500	6	G $\frac{3}{4}$	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

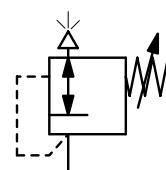


D3100-06/-08/-10/-1A



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

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
Adjustment	by adjusting screw for D3100-02 to -1A, with locknut by T-handle for D3100-12 and -16, with locknut	Mounting position	any
Gauge port	G $\frac{1}{4}$ 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 O-rings: FKM, optionally EPDM		



SST

G $\frac{1}{4}$ and G2
0...45/3000 mbar

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

Back pressure regulator			overpressure max. 6/10 bar, PTFE-diaphragm and FKM-o-ring		D3100		
265	290	45	2000	6	G $\frac{1}{4}$	0... 300	D3100-10BT
			4100			0... 700	D3100-10CT
			5000			0...1200	D3100-10DT
265	290	45	2000	6	G $\frac{1}{2}$	0... 300	D3100-1ABT
			4100			0... 700	D3100-1ACT
			5000			0...1200	D3100-1ADT
171	460	128	2500	6	G $\frac{1}{2}$	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



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

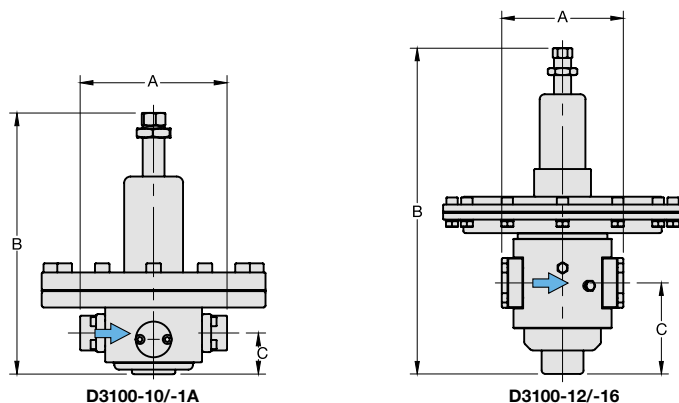


D3100-12/-16

SST

SST

15



D3100-10/-1A

D3100-12/-16

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

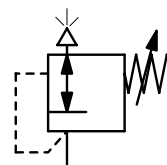
Gauges: see chapter for measuring devices

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	System pressure	max. 6 bar
Adjustment	by adjusting screw for D3100-02 to -1A, with locknut by T-handle for D3100-12 and -16, with locknut	Mounting position	any
Gauge port	G $\frac{1}{4}$ 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 O-rings: FKM, optionally EPDM		



G $\frac{1}{4}$ and G2
0 ... 45/3000 mbar

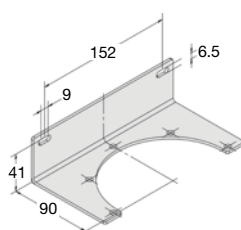
Dimensions			Exhaust rate	Over-pressure	Connection thread	Adjustment range	Order number
A	B	C	l/min*1	max. bar	G	mbar	
mm	mm	mm					

Special options, add the appropriate letter

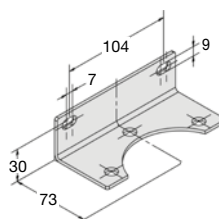
NPT	connection thread	D3100-...N
FKM -o-ring		D3100-...T
EPDM-o-ring		D3100-...TE
EPDM-o-ring	FDA-approval	D3100-...TD
down to -40 °C/ -40 °F	low temperature version	D3100-...X51
up to 130 °C/266 °F	high temperature version	D3100-...X54
ammonia	NH ₃	D3100-...02
carbon dioxide	CO ₂	D3100-...03
argon	Ar	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 ₃ H ₈	D3100-...16
nitrous oxide	N ₂ O	D3100-...17
flange connection	see end of the chapter / flanges	D3100-...F.

Accessories, enclosed

pressure gauge	Ø 63 mm, 0 ... *2 mbar, G $\frac{1}{4}$, capsule type	up to 600 mbar	MS6302-...*2
	Ø 63 mm, 0 ... *2 bar, G $\frac{1}{4}$, Bourdon tube	from 1 bar on	MS6302-01
gauge connection parts		for G $\frac{1}{2}$	AM-03S
mounting bracket		for G $\frac{1}{2}$	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

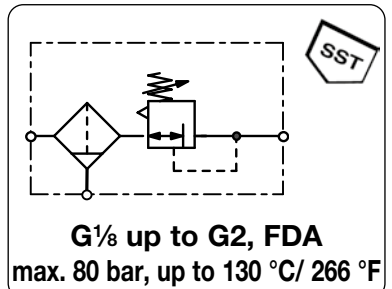
PDF CAD
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Order example:
MS6302-B6

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 G $\frac{1}{4}$ 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	G $\frac{1}{4}$ on both sides of the body, G $\frac{1}{8}$ for B3000-01/-A2, one screw plug supplied
Filter element	50 μ m and 5 μ m, 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 G $\frac{1}{4}$ (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



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

Filter pressure regulator					with screw plug, relieving, w/o gauge, supply pressure max. 30 / 50 bar			B3000
40	147	83	0,03	200	5	G $\frac{1}{8}$	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	G $\frac{1}{4}$	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	G $\frac{1}{4}$	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	G $\frac{3}{8}$	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	G $\frac{1}{2}$	0.8 ... 8	B3000-04G
							1.5 ... 15	B3000-04GD
							3.0 ... 30	B3000-04GE
							5.0 ... 50	B3000-04GF
							0.8 ... 8	B3000-04
							1.5 ... 15	B3000-04D
							3.0 ... 30	B3000-04E
							5.0 ... 50	B3000-04F



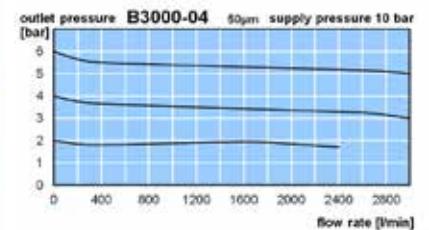
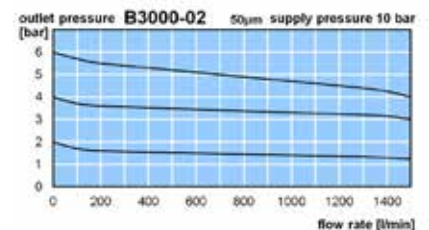
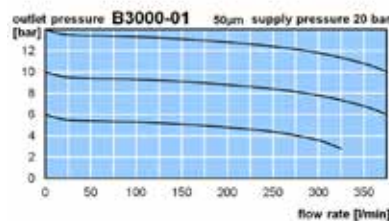
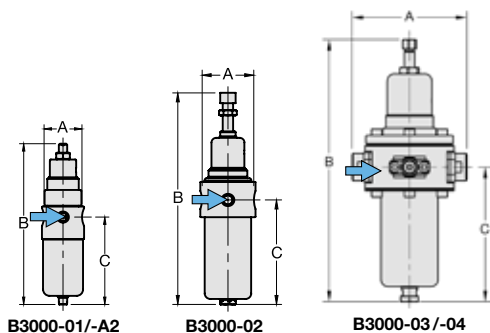
B3000-01/-A2



B3000-02



B3000-03/-04



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

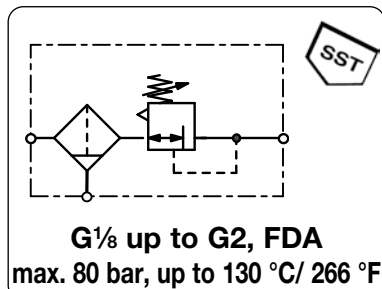
PDF CAD
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Order example:
B3000-01GH

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 G $\frac{3}{4}$ 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	G $\frac{1}{4}$ on both sides of the body, G $\frac{1}{8}$ for B3000-01/-A2, one screw plug supplied
Filter element	50 μ m and 5 μ m, 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 G $\frac{1}{4}$ (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



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

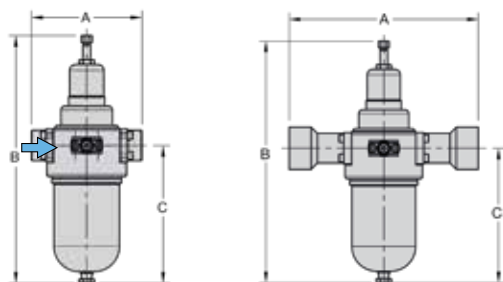
Filter pressure regulator					with screw plug, relieving, w/o gauge, supply pressure max. 30 / 50 bar			B3000
137	304	168	0,5	4500	5	G $\frac{3}{4}$	0.8 ... 8	B3000-06G
							1.5 ... 15	B3000-06GD
							3.0 ... 30	B3000-06GE
							5.0 ... 50	B3000-06GF
							0.8 ... 8	B3000-06
				6000	50	G1	1.5 ... 15	B3000-06D
							3.0 ... 30	B3000-06E
							5.0 ... 50	B3000-06F
							0.8 ... 8	B3000-08G
							1.5 ... 15	B3000-08GD
137	304	168	0,5	4500	5	G1	3.0 ... 30	B3000-08GE
							5.0 ... 50	B3000-08GF
							0.8 ... 8	B3000-08
							1.5 ... 15	B3000-08D
							3.0 ... 30	B3000-08E
				6000	50	G1 $\frac{1}{4}$	5.0 ... 50	B3000-08F
							0.8 ... 8	B3000-10G
							1.5 ... 15	B3000-10GD
							3.0 ... 30	B3000-10GE
							5.0 ... 50	B3000-10GF
137	304	168	0,5	4500	5	G1 $\frac{1}{4}$	0.8 ... 8	B3000-10
							1.5 ... 15	B3000-10D
							3.0 ... 30	B3000-10E
							5.0 ... 50	B3000-10F
				6000	50	G1 $\frac{1}{2}$	0.8 ... 8	B3000-1AG
							1.5 ... 15	B3000-1AGD
							3.0 ... 30	B3000-1AGE
							5.0 ... 50	B3000-1AGF
							0.8 ... 8	B3000-1A
248	304	168	0,5	4500	5	G1 $\frac{1}{2}$	1.5 ... 15	B3000-1AD
							3.0 ... 30	B3000-1AE
							5.0 ... 50	B3000-1AF



B3000-06/-08

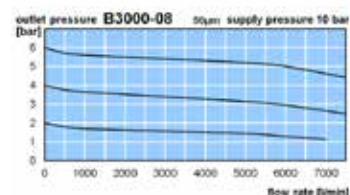


B3000-10/-1A



B3000-06/-08

B3000-10/-1A



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

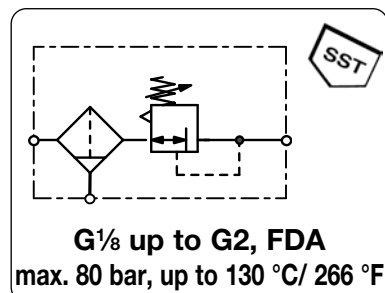
PDF CAD
www.aircom.net



Order example:
B3000-01GH

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 G $\frac{1}{4}$ 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	G $\frac{1}{4}$ on both sides of the body, G $\frac{1}{8}$ for B3000-01/-A2, one screw plug supplied
Filter element	50 μ m and 5 μ m, 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
Temperature range	automatic drain (max. 16 bar) for G $\frac{1}{4}$ (02) up to G1 -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



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

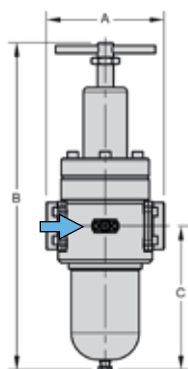
Filter pressure regulator				with screw plug, relieving, w/o gauge, supply pressure max. 30 / 50 bar				B3000
174	483	213	1,0	17500	5	G1 $\frac{1}{2}$	0.8 ... 8	B3000-12G
							1.5 ... 15	B3000-12GD
							3.0 ... 30	B3000-12GE
							5.0 ... 50	B3000-12GF
				23000	50		0.8 ... 8	B3000-12
							1.5 ... 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



B3000-12/-16

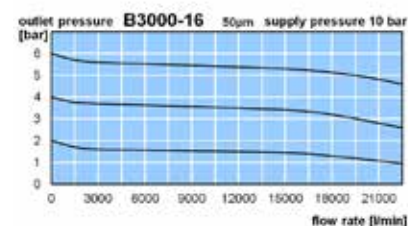


Accessories, see next page



B3000-12/-16

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

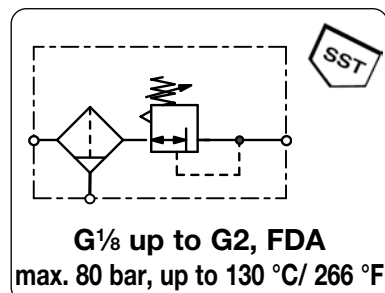


PDF CAD
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Order example:
B3000-12G

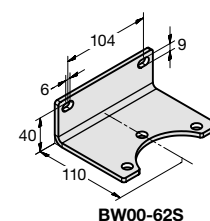
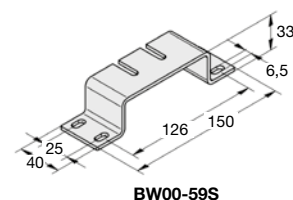
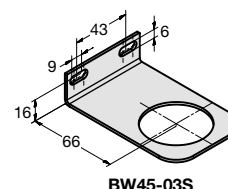
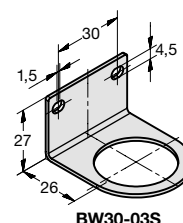
Description	Filter pressure regulator with bowl without sight glass, completely made of stainless steel. Diaphragm-operated, from size G $\frac{1}{8}$ on piston-operated.
Media	compressed air, gases or liquids
Supply pressure	max. 30 bar, 50 bar or 80 bar (only with locking screw)
Adjustment	by adjusting screw, from B3000-12 on with T-handle, max. 50 bar for B3000-02 to -16, optionally 80 bar relieving, optionally non-relieving
Relieving function	G $\frac{1}{4}$ on both sides of the body, G $\frac{1}{8}$ for B3000-01/-A2, one screw plug supplied
Gauge port	50 μ m and 5 μ m, made of stainless steel Bowl stainless steel version without sight glass
Filter element	manual drain (max. 30 bar), screw plug for 50 bar and 80 bar version
Drain	automatic drain (max. 16 bar) for G $\frac{1}{4}$ (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



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

Special options, add the appropriate letter

NPT	connection thread	for G $\frac{1}{4}$ (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 G $\frac{1}{4}$ (02) to G2	B3000-...H
automatic drain	max. 16 bar	for G $\frac{1}{4}$ (02) to G2	B3000-...R
non-relieving	without relieving function		B3000-...K
P ₁ : max. 80 bar		for G $\frac{1}{4}$ (02) to G1 $\frac{1}{2}$ (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
spring cage made of POM		for G $\frac{1}{8}$ and G $\frac{1}{4}$ (A2)	R3000-...X57
EPDM-o-ring			B3000-...E
EPDM-o-ring	FDA approval		B3000-...TD
SST diaphragm	not suitable for water	for G $\frac{1}{4}$ (02) to G $\frac{1}{2}$	B3000-...S
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 ₃ H ₈			B3000-...16
nitrous oxide N ₂ O			B3000-...17
flange connection	see end of the chapter / flanges		B3000-...F.



Accessories, enclosed

pressure gauge	Ø 40 mm, 0...*2 bar, G $\frac{1}{8}$	for G $\frac{1}{8}$ and G $\frac{1}{4}$ (A2)	MS4001-..*2
	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{1}{4}$ to G $\frac{1}{2}$	MS5002-..*2
	Ø 63 mm, 0...*2 bar, G $\frac{1}{2}$	for G $\frac{3}{4}$ to G2	MS6302-..*2
mounting bracket		for G $\frac{1}{8}$ and G $\frac{1}{4}$ (A2)	BW30-03S
mounting nut			M30x1,5SS
mounting bracket		for G $\frac{1}{4}$ (02) to G1 $\frac{1}{2}$ (1A)	BW45-03S
mounting nut			M45x1,5S
mounting bracket		for G $\frac{3}{8}$ to G1 $\frac{1}{2}$ (1A)	BW00-59S
mounting bracket		for G1 $\frac{1}{2}$ (12) and G2	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

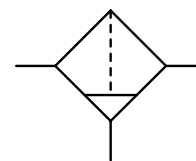
*3 without DVGW-approval



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 filter 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



SST

G $\frac{1}{8}$ up to G2, max. 80 bar
-40 °C to 130 °C, FDA

Dimensions			Bowl capacity	Flow rate	P ₁ max.	Filter element	Connection thread	Order number
A	B	C						
mm	mm	mm	l	m ³ /h*1	l/min*1	µm	G	

Stainless steel filter, up to 50 bar with screw plug F3000

40	92	81	0,03	45	750	50	50	G $\frac{1}{8}$	F3000-01 F3000-01G
40	92	81	0,03	45	750	50	50	G $\frac{1}{4}$	F3000-A2 F3000-A2G
64	140	125	0,14	54	900	50	50	G $\frac{1}{4}$	F3000-02 F3000-02G F3000-02I
64	1409	133					0,01		F3000-03 F3000-03G F3000-03I
109	140	123	0,2	150	2500	50	50	G $\frac{3}{8}$	F3000-04 F3000-04G F3000-04I
64	1409	133					0,01		F3000-06 F3000-06G F3000-06I
109	140	123	0,2	150	2500	50	50	G $\frac{1}{2}$	F3000-08 F3000-08G F3000-08I
79	158	138	0,2	150	2500	50	0,01		F3000-10 F3000-10G F3000-10I
137	194	167	0,50	432	7200	50	50	G $\frac{3}{4}$	F3000-1A F3000-1AG F3000-1AI
							0,01		F3000-12 F3000-12G
137	194	167	0,50	432	7200	50	50	G1	F3000-16 F3000-16G
							0,01		
241	194	167	0,50	432	7200	50	50	G1 $\frac{1}{4}$	
							0,01		
241	194	167	0,50	432	7200	50	50	G1 $\frac{1}{2}$	
							0,01		
174	248	218	1,00	1380	23000	50	50	G1 $\frac{1}{2}$	
				1050	17500		5		
174	248	218	1,00	1380	23000	50	50	G2	
				1050	17500		5		

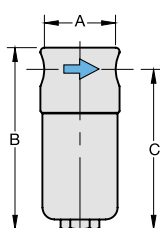
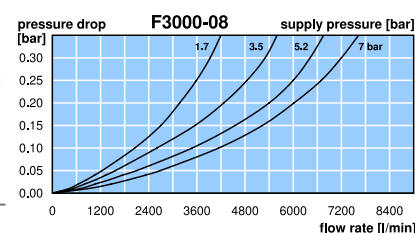
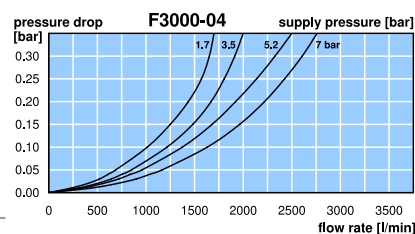
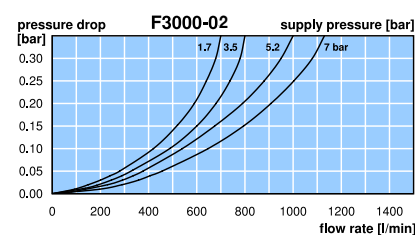


F3000-02

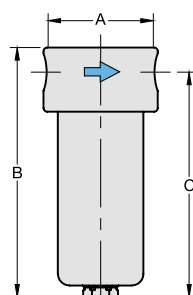


F3000-03/-04

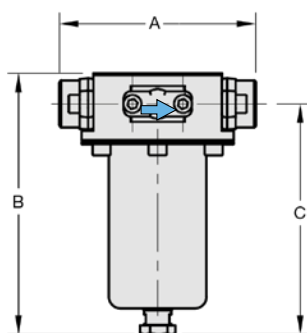
SST
SST
15



F3000-01/-A2



F3000-02



F3000-03/-04

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

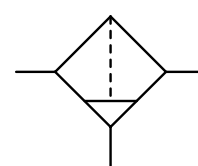
Extensions: see chapter for FRL service units
Spare parts: see separate spare parts list

PDF CAD
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Order example:
F3000-01

Description	Filter with bowl without sight glass completely made of stainless steel, extremely robust, suitable for compressed air, gases or liquids. Application examples are the chemistry, petroleum processing as well as food industry and medical technology.
Filter element	50 µm, optionally 5 µm, made of stainless steel, coalescing filter 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

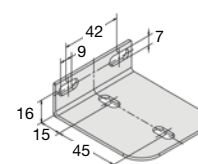


G¹/₈ up to G2, max. 80 bar
-40 °C to 130 °C, FDA

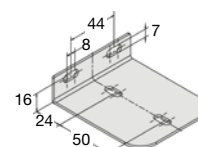
Dimensions			Bowl capacity	Flow rate	P ₁ max.	Filter element	Connection thread	Order number
A	B	C	l	m ³ /h*1	l/min*1	µm	G	
mm	mm	mm						

Special options, add the appropriate letter

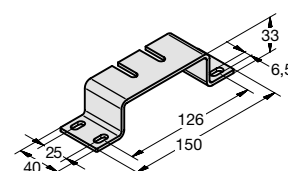
NPT	connection thread	F3000-...N
P₁: max. 80 bar		F3000-...X48
down to -40 °C / -40 °F	low temperature version	F3000-...X51
up to 130 °C / 266 °F	high temperature version	F3000-...X54
manual drain	max. 30 bar	F3000-...H
automatic drain	max. 16 bar	F3000-...R
EPDM-elastomer		F3000-...E
EPDM-elastomer	FDA-approval	F3000-...TD
ammonia	NH ₃	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 ₃ H ₈	F3000-...16
nitrous oxide	N ₂ O	F3000-...17
flange connection	see end of the chapter / flanges	F3000-...F.



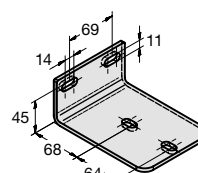
BW00-17S



BW00-18S



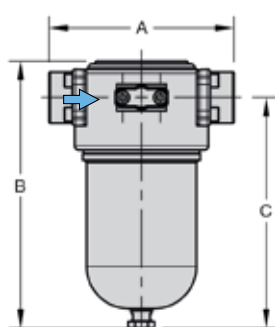
BW00-59S



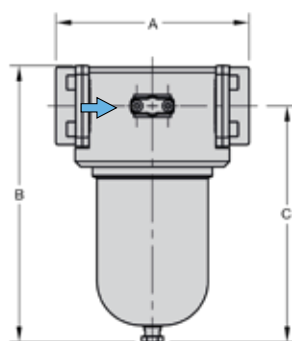
BW00-63S

Accessories, enclosed

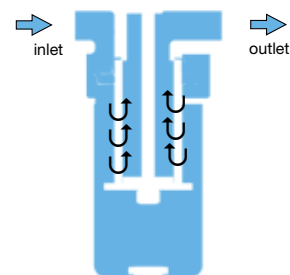
mounting bracket	for G ¹ / ₄ (02)	BW00-17S
	for G ¹ / ₂ (only 04I)	BW00-18S
	for G ³ / ₈ to G ¹ / ₂ (1A)	BW00-59S
	for G ¹ / ₂ (12) and G2	BW00-63S



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



F3000-12/-16



cross-section

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

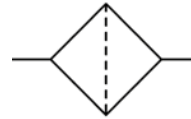
*2 without DVWG-approval

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

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Order example:
BW00-17S

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, Bowl: SST 316L, material-no. 1.4404 Inner valve: SST 316L, material-no. 1.4404	optionally brass Filter elements 5/50 µm: SST 316L Elastomer: FKM, optionally EPDM	



G $\frac{1}{4}$ up to 1
max. 220 bar

Dimensions			Bowl capacity	Flow rate	Filter element	Connection thread	Order number
A	B	C					
mm	mm	mm	l	m ³ /h*1	l/min*1	G	

SST Filter, up to 220 bar				50 µm / 5 µm		FH3	
70	123	99	0.04	120	2000	5	G $\frac{1}{4}$ FH3-02G
				160	2670	50	G $\frac{1}{4}$ FH3-02
				120	2000	5	G $\frac{3}{8}$ FH3-03G
				160	2670	50	G $\frac{3}{8}$ FH3-03
170	123	99	0.04	120	2000	5	G $\frac{1}{2}$ FH3-04G
				160	2670	50	G $\frac{1}{2}$ FH3-04
204	145	125	0.08	240	4000	5	G $\frac{3}{4}$ FH3-06G
				320	5530	50	G $\frac{3}{4}$ 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

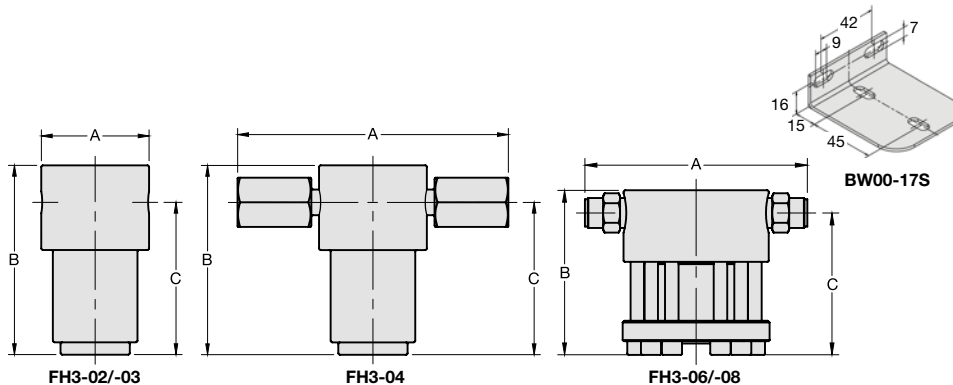
Special options, add the appropriate letter

Coalescing filter	0.01 µm / 99.99 %, brass version	for G $\frac{1}{4}$ to G $\frac{1}{2}$	FH3-...IMS
	0.01 µm / 99.99 %, SST version	for G $\frac{1}{4}$ to G $\frac{1}{2}$	FH3-...I
	0.01 µm / 99.99 %, SST and brass version	for G $\frac{3}{4}$ 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 ₃ H ₈		FH3-... 16
nitrous oxide	N ₂ O		FH3-... 17
water	H ₂ O		FH3-... W

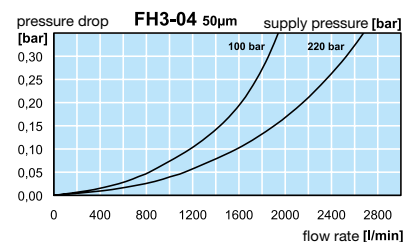
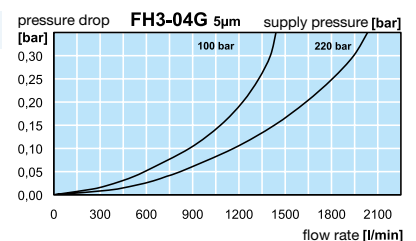
Accessories, enclosed

mouting bracket with screws

BW00-17S



*1 at max. operating pressure



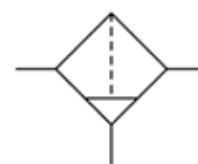
Extensions: see chapter for FRL service units
Spare parts: see separate spare parts list

PDF CAD
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Order example:
FH3-02G

Description	The 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			Bowl		Flow		Connection	Order
A	B	C	Design	Capacity	rate *2		thread	number
mm	mm	mm	made of/with	l	m³/h	l/min	G	

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	3/8" NPT	FB100-03C
79	140	21	w/o manual drain	0.10	100	1660	3/8" NPT	FB100-A3C
78	214	23		0.40	270	4500	1/2" NPT	FB100-04C
78	264	23		0.50	460	7660	1/2" NPT	FB100-A4C
114	270	30		1.20	680	11300	3/4" NPT	FB100-06C
114	420	30		1.90	1200	20000	1" NPT	FB100-08C
174	481	50		2.90	1700	28000	1 1/2" NPT	FB100-12C
174	784	50		5.40	3400	55000	2" NPT	FB100-16C



FB100-03CH
accessory: manual drain

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	1/4" NPT	FB350-02C
79	140	21	w/o manual drain	0.10	130	2160	3/8" NPT	FB350-03C
78	214	23		0.40	351	5850	3/8" NPT	FB350-A3C
78	264	23		0.50	598	9960	1/2" NPT	FB350-04C
114	270	30		1.20	884	14730	3/4" 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	1 1/2" NPT	FB350-12C



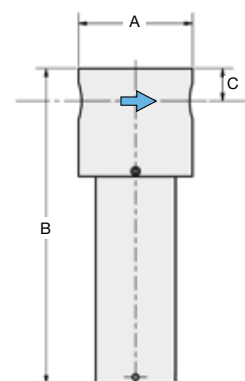
FB350-04CDH
accessories: pressure gauge and manual drain

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	1/4" NPT	FB500-02C
79	140	21	w/o manual drain	0.10	140	2330	3/8" NPT	FB500-03C
113	221	25		0.40	378	6300	3/8" NPT	FB500-A3C
113	271	25		0.50	644	10730	1/2" NPT	FB500-04C

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
0.01 µm filter element	99.99999 %	< 0.003 mg/m³	0.04 bar		FB... AC



FB

*1 initial pressure drop

*2 at max. operating pressure

Spare parts: see separate spare parts list

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Order example:
FB100-03C

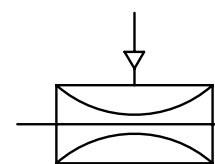
Description	The 2-port/2-way valve functions as a pinch valve in a new design of housing with full flow cross-section. Since the straight valve passage has neither constrictions nor back-points, there is no danger of clogging or blockage. Frictional loss is at a minimum.		
Media	compressed air, gases, 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 Differential pressure: max. 2.5 bar	Pilot pressure: max. 6.5 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		

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

Flow control valve				operating pressure max. 4 bar, pilot pressure max. 2.5 bar above operating pressure		QE	
70	26	6	0.01	M5	4	G $\frac{1}{4}$	QE06-02NR
80	38	10	0.03	M5	4	G $\frac{3}{8}$	QE10-03NR
95	44	15	0.04	G $\frac{1}{8}$	4	G $\frac{1}{2}$	QE15-04NR
110	55	20	0.05	G $\frac{1}{8}$	4	G $\frac{3}{4}$	QE20-06NR
125	60	25	0.07	G $\frac{1}{8}$	4	G1	QE25-08NR
140	73	32	0.10	G $\frac{1}{8}$	4	G1 $\frac{1}{4}$	QE32-10NR
150	83	40	0.13	G $\frac{1}{8}$	4	G1 $\frac{1}{2}$	QE40-12NR
185	99	50	0.28	G $\frac{1}{4}$	4	G2	QE50-16NR

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



DN6 up to DN50



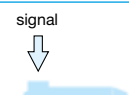
QE10



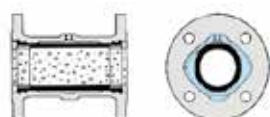
QE25



QE40



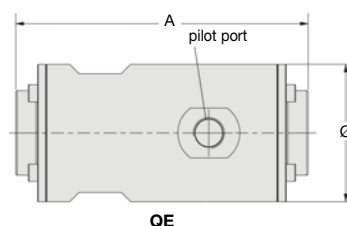
cross section



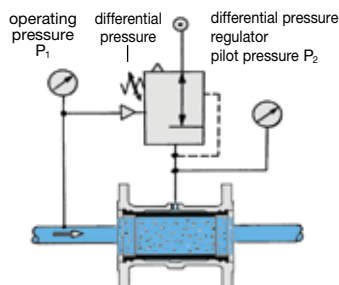
closing process



solenoid valve control



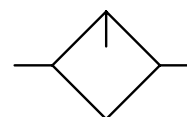
QE



constant cross section at changing operating pressure



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



G $\frac{1}{4}$ to G2, max. 50 bar
-40 °C / -40 °F to 130 °C / 266 °F

Dimensions			Bowl capacity	Flow rate		Operating pressure	Connection thread	Order number
A	B	C		m ³ /h*1	l/min*1			
mm	mm	mm	l			max. bar	G	

Lubricator			operating pressure max. 50 bar				L3000	
64	174	130	0.14	54	900	50	G $\frac{1}{4}$	L3000-02
109	161	121	0,20	144	2400	50	G $\frac{3}{8}$	L3000-03
				144	2400		G $\frac{1}{2}$	L3000-04
137	201	168	0.50	480	8000	50	G $\frac{3}{4}$	L3000-06
				480	8000		G1	L3000-08
241	201	168	0.50	480	8000	50	G1 $\frac{1}{4}$	L3000-10
				480	8000		G1 $\frac{1}{2}$	L3000-1A
171	278	218	1.00	720	12000	50	G1 $\frac{1}{2}$	L3000-12
				720	12000		G2	L3000-16



L3000-02



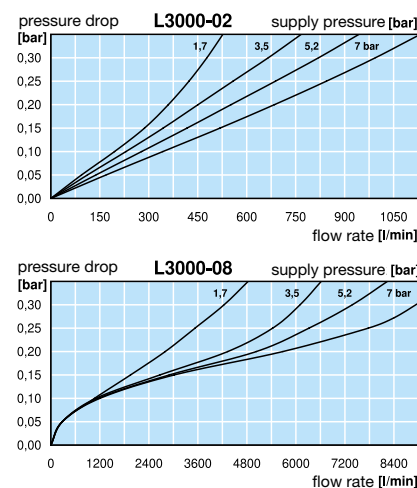
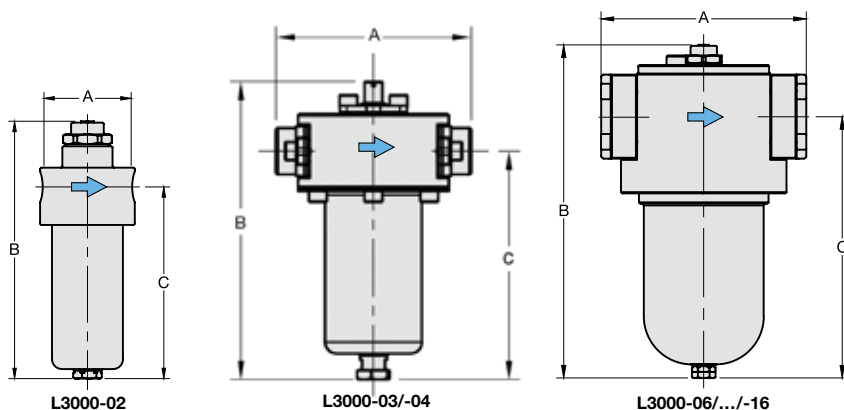
L3000-03/-04



L3000-12 flow rate

Special options, add the appropriate letter

NPT	connection thread	L3000-... N
down to -40 °C / -40 °F	low temperature version	from G $\frac{1}{4}$ on L3000-... X51
up to 130 °C / 266 °F	high temperature version	from G $\frac{1}{4}$ on L3000-... X54
flange connection	see end of the chapter / flanges	L3000-... F.



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

Extensions: see chapter for FRL service units

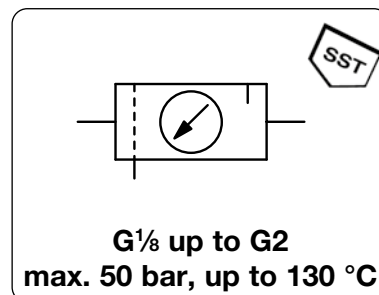
PDF CAD
www.aircom.net



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	G $\frac{1}{4}$ on both sides of the body, G $\frac{1}{8}$ at C3002-01, one screw plug supplied
Filter element	50 μ m, optionally 5 μ m, 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



Dimensions			Combination existing of	Flow rate		Connection thread G	Order number
A	B	C		m ³ /h*1	l/min*1		
mm	mm	mm					

FRL unit, 2-part			P ₁ : max. 50 bar, screw plug,	P ₂ : 0.5...8 bar, relieving,	50 μ m, with gauge	C3002
90	155	85	B+L3000	17	280	G $\frac{1}{8}$ C3002-01H
138	246	124		48	800	G $\frac{1}{4}$ C3002-02
138	246	124		48	800	G $\frac{3}{8}$ C3002-03
168	255	128		180	3000	G $\frac{1}{2}$ C3002-04
289	304	168		360	6000	G $\frac{3}{4}$ C3002-06
289	304	168		360	6000	G1 C3002-08
393	304	168		360	6000	G1 $\frac{1}{4}$ C3002-10
393	304	168		360	6000	G1 $\frac{1}{2}$ C3002-1A
362	482	213		1200	20000	G1 $\frac{1}{2}$ C3002-12
362	482	213		1200	20000	G2 C3002-16



C3002-02/-03

Special options, add the appropriate letter

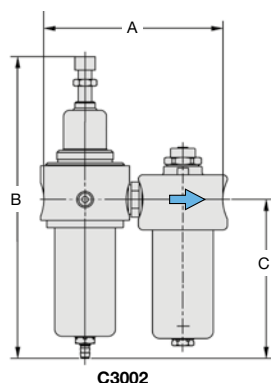
5 μ m filter element			C3002-..G
NPT	connection thread	for G $\frac{1}{4}$ to G2	C3002-..N
pressure range 0.2... 3 bar			C3002-..B
pressure range 1 ...15 bar	P ₁ max. 50 bar		C3002-..D
manual drain	max. 30 bar		C3002-..H
automatic drain	max. 16 bar	for G $\frac{1}{4}$ to G1	C3002-..R
down to -40 °C / -40 °F	low temperature version		C3002-..X51
up to 130 °C / 266 °F	high temperature version		C3002-..X54
EPDM-elastomer			C3002-..E
flange connection	see end of the chapter / flanges		C3002-..F.



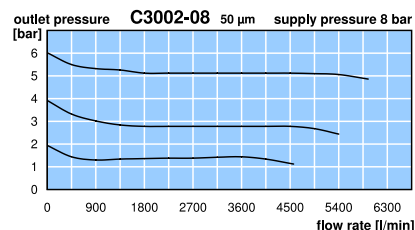
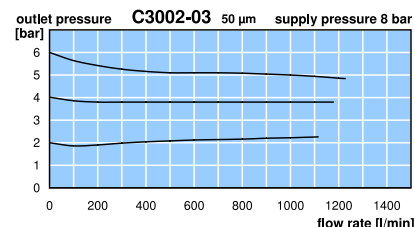
C3002-06/-08/-10/-1A

Accessories, enclosed

mounting bracket	for G $\frac{1}{8}$	BW30-03S
mounting nut		M30x1,5S
mounting bracket	for G $\frac{1}{4}$, G $\frac{3}{8}$, G $\frac{3}{4}$ to G1 $\frac{1}{2}$ (1A)	BW45-03S
mounting nut		M45x1,5S
mounting bracket	for G $\frac{1}{2}$	BW50-01S
mounting nut		M50x1,5S
mounting bracket	for G1 $\frac{1}{2}$ (12) and G2	BW00-62S



C3002



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

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

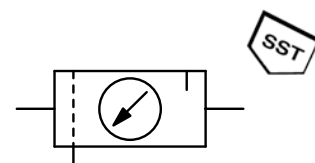
PDF CAD
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Order example:
C3002-01H

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	max. 30 bar, optionally max. 50 bar (for pressure range up to 15 bar)
Adjustment	by hexagon socket screw
Gauge port	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied
Filter element	50 μ m, optionally 5 μ m, 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



G $\frac{1}{4}$ up to G2
max. 50 bar, up to 130 °C

Dimensions			Combination existing of	Flow rate m ³ /h*1	l/min*1	Connection thread G	Order number
A	B	C					
mm	mm	mm					

FRL unit, 3-part			P ₁ : max. 50 bar, screw plug,	P ₂ : 0.5...8 bar, relieving,	50 μ m, with gauge	C3003
212	168	130	F+R+L3000	42	700	G $\frac{1}{4}$ C3003-02
257	167	130		132	2200	G $\frac{1}{2}$ C3003-04
427	219	168		231	3850	G $\frac{3}{4}$ C3003-06
455	286	226		432	7200	G1 C3003-08
531	286	226		432	7200	G1 $\frac{1}{4}$ C3003-10
531	286	226		432	7200	G1 $\frac{1}{2}$ C3003-1A
553	390	262		720	12000	G1 $\frac{1}{2}$ C3003-12
553	390	262		780	13000	G2 C3003-16



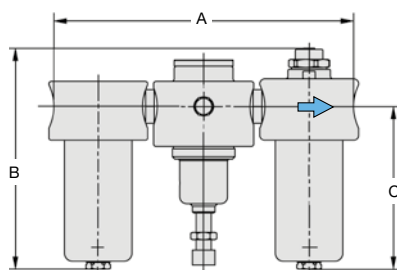
C3003-04

Special options, add the appropriate letter

5 μ m filter element		C3003- . . G
NPT connection thread	for G $\frac{1}{4}$ to G2	C3003- . . N
pressure range 0.2... 3 bar		C3003- . . B
pressure range 1 ...15 bar P ₁ max. 50 bar		C3003- . . D
manual drain max. 30 bar		C3003- . . H
automatic drain max. 16 bar	for G $\frac{1}{4}$ to G1	C3003- . . R
down to -40 °C / -40 °F low temperature version		C3003- . . X51
up to 130 °C / 266 °F high temperature version		C3003- . . X54
EPDM-elastomer		C3003- . . E
flange connection see end of the chapter / flanges		C3003- . . F.

Accessories, enclosed

mounting bracket	for G $\frac{1}{4}$	BW45-03S
mounting nut		M45x1,5S
mounting bracket	for G $\frac{1}{2}$	BW50-01S
mounting nut		M50x1,5S
mounting bracket	for G $\frac{3}{4}$ to G1 $\frac{1}{2}$ (1A)	BW00-59S
mounting bracket	for G1 $\frac{1}{2}$ (12) and G2	BW00-62S



C3003

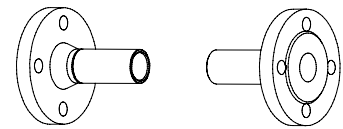
*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

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

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Order example:
C3003-02

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



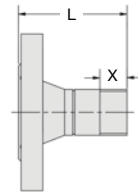
**mounted flange kit
DN15 up to DN80**

Nominal pressure max.	for Devices	Nominal size DN	Screw-In thread G	Order number affic
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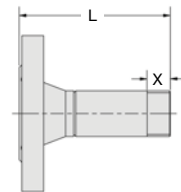
Flange kit, DIN, completely assembled

F

PN40	BD + BM/40	F602	R119	15	G½	F1
	CM/40	F3000/40	R3000	20	G¾	F1
	C3000/40	L606	R3100/L	25	G1	F1
	D3100/L	LM/40	RZ/L	32	G1¼	F1
	DBC/L	L3000/40	R160/L	40	G1½	F1
	R120/40	FM/40		50	G2	F1
				65	G2½	F1
PN100				80	G3	F1
	BM/100	FM	LM/100	15	G½	F6
	CM/100	F3000/100	L3000/100	20	G¾	F6
	C3000/100	R120/100	R3000/100	25	G1	F6
				32	G1¼	F6
				40	G1½	F6
				50	G2	F6
				65	G2½	F6



flange with normal fitting **N**

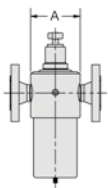


flange with long fitting **L**

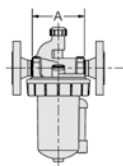
thread	fitting N		fitting L		thread
	PN40	PN100	PN40	PN100	
	L mm		L mm		X mm
G½	75	82	90	97	15
G¾	82	94	112	124	17
G1	82	100	112	130	20
G1¼	94	112	114	132	22
G1½	97	114	117	134	22
G2	100	120	120	140	26
G2½	114	138	124	148	32

Special options

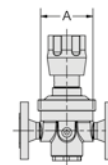
ANSI-flange	150 lbs	F2
	300 lbs	F3
	600 lbs	F4



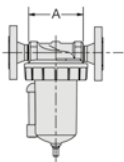
Filter regulator	PN	fitting*
BD	40	N
BM	40/100	N



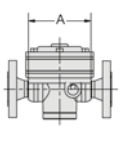
Lubricator	PN	fitting*
L606	40	N
LM	40/100	N
L3000	40/100	N



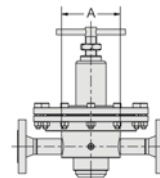
Regulator	PN	fitting*
R119	40	N
R120	40/100	N
R3000	40/100	N



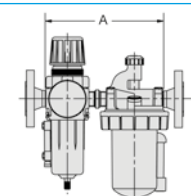
Filter	PN	fitting*
F602	40	N
FM	40/100	N
F3000	40/100	N



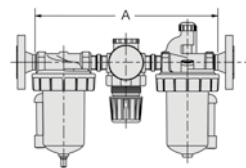
Booster	PN	fitting*
R119-J	40	N
R120-J	40/100	N
R3000-J	40/100	N



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



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

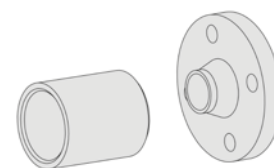


FRL service unit	PN	fitting*
C630	40	N
CM3	40/100	N
C3003	40/100	N

* N = normal fitting L = long fitting



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

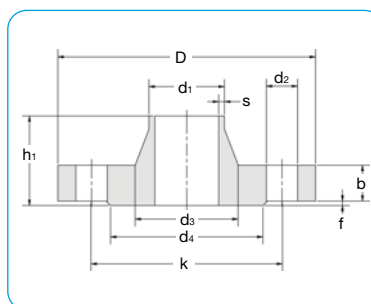


flanges and fittings
DN8 up to DN65

d1/s	D	h ₁	b	d ₄	f	k	d ₂	d ₃	Screws	Connection thread Rp	Nominal size DN	Order number
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Welding neck flange, as per DIN EN 1092-1 Form B (PN40) VSV

21.3 x 2.0	95	36	16	45	2	65	14	32	4 x M12	–	15	VSV-1540
26.9 x 2.3	105	40	18	58	2	75	14	40	4 x M12	–	20	VSV-2040
33.7 x 2.6	115	40	18	68	2	85	14	46	4 x M12	–	25	VSV-2540
42.4 x 2.6	140	42	18	78	2	100	18	56	4 x M16	–	32	VSV-3240
48.3 x 2.6	150	45	18	88	3	110	18	64	4 x M16	–	40	VSV-4040
60.3 x 2.9	165	48	20	102	3	125	18	75	4 x M16	–	50	VSV-5040
76.1 x 2.9	185	52	22	122	3	145	18	90	4 x M16	–	65	VSV-6540
88.9 x 3.2	200	58	24	138	3	160	18	105	8 x M16	–	80	VSV-8040



VSV welding neck flange

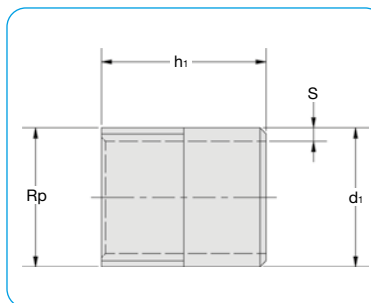
Special options, add the appropriate letter or number

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



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

13.5 x 2.35	30	PN50	1/4"	8	VSA-02
21.3 x 2.65	35	PN50	1/2"	15	VSA-04
26.9 x 2.65	40	PN50	3/4"	20	VSA-06
33.7 x 3.25	40	PN50	1"	25	VSA-08
42.4 x 3.25	50	PN40	1 1/4"	32	VSA-10
48.3 x 3.25	50	PN40	1 1/2"	40	VSA-12
60.3 x 3.65	50	PN40	2"	50	VSA-16
76.1 x 3.65	60	PN25	2 1/2"	65	VSA-20



VSA weld-on fitting