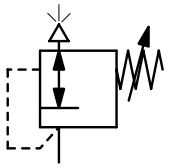
STAINLESS STEEL LOW BACK PRESSURE REGULATOR D3100

Description	The diaphragm back pressure regulator protects compressed air devices from excessive pressure. If the pressure setpoint is exceeded, overpressure is vented into the atmosphere until the setpoint is reached again. It is recommended to choose a pressure range as low as possible.
Media	compressed air, gases
System pressure	max. 10 bar (see table)
Adjustment	by adjusting screw for D3100-02 to - 1A, with locknut by T-handle for D3100-12 and -16, with locknut
Gauge port	G¼ on both sides of the body, screw plugs supplied
Mounting position	any
Temperature range	0 °C to 80 °C / 32 °F to 176 °F, FKM or EPDM 0 °C to 130 °C / 32 °F to 266 °F, high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40 °C / -40 °F
Material	Body: stainless steel 316L, material no. 1.4404 Diaphragm: NBR/Buna-N with PTFE coating Inner valve: stainless steel 316L, material no. 1.4404
	O-rings: FKM, optionally EPDM

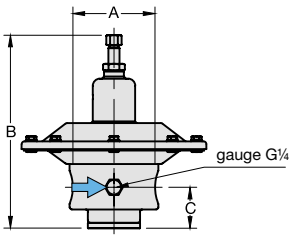


G¼ and G2
0…45/3000 mbar

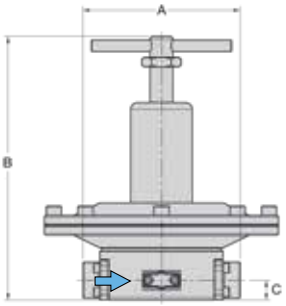
D3100-02/-03/-04

D3100-06/-08

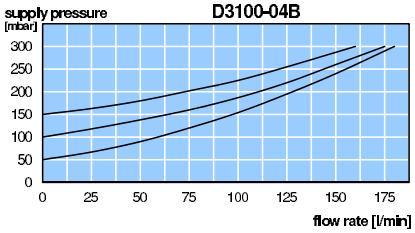
Dimensions A mm	B mm	C mm	Exhaust rate l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range mbar	Order number
Back pressure regulator			overpressure max. 6/10 bar, PTFE-diaphragm and FKM-o-ring				**D3100**
109	181	39	450	10	G¼	0… 45	**D3100-02AT**
			750			0… 400	**D3100-02BT**
			1000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



D3100-02/-03/-04



D3100-06/-08



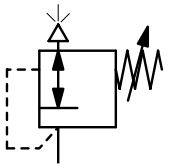
*1 at 6 bar overpressure and open outlet
*2 **B6** = 0…60 mbar, **C3** = 0…250 mbar

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
D3100-02AT

Description	The diaphragm back pressure regulator protects compressed air devices from excessive pressure. If the pressure setpoint is exceeded, overpressure is vented into the atmosphere until the setpoint is reached again. It is recommended to choose a pressure range as low as possible.
Media	compressed air, gases
System pressure	max. 10 bar (see table)
Adjustment	by adjusting screw for D3100-02 to - 1A, with locknut by T-handle for D3100-12 and -16, with locknut
Gauge port	G¼ on both sides of the body, screw plugs supplied
Mounting position	any
Temperature range	0 °C to 80 °C / 32 °F to 176 °F, FKM or EPDM 0 °C to 130 °C / 32 °F to 266 °F, high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40 °C / -40 °F
Material	Body: stainless steel 316L, material no. 1.4404 Diaphragm: NBR/Buna-N with PTFE coating Inner valve: stainless steel 316L, material no. 1.4404
	O-rings: FKM, optionally EPDM

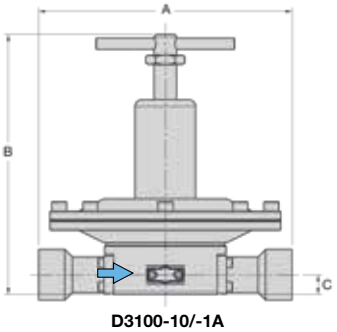


G¼ and G2
0…45/3000 mbar

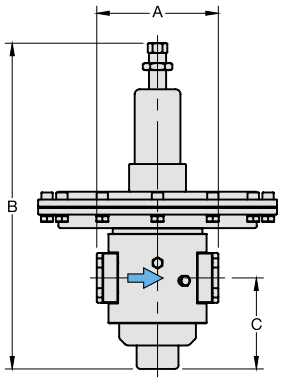
D3100-10/-1A

D3100-12/-16

Dimensions A mm	B mm	C mm	Exhaust rate l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range mbar	Order number
Back pressure regulator			overpressure max. 6 / 10 bar, PTFE-diaphragm and FKM-o-ring				**D3100**
265	290	45	2000	6	G1¼	0… 300	**D3100-10BT**
			4100			0… 700	**D3100-10CT**
			5000			0…1200	**D3100-10DT**
265	290	45	2000	6	G1½	0… 300	**D3100-1ABT**
			4100			0… 700	**D3100-1ACT**
			5000			0…1200	**D3100-1ADT**
171	460	128	2500	6	G1½	20… 50	**D3100-12AT**
			5000			50… 150	**D3100-12BT**
			7500			150… 300	**D3100-12CT**
171	420	128	10000			300…3000	**D3100-12DT**
171	460	128	2500	6	G2	20… 50	**D3100-16AT**
			5000			50… 150	**D3100-16BT**
			7500			150… 300	**D3100-16CT**
171	420	128	10000			300…3000	**D3100-16DT**



D3100-10/-1A



D3100-12/-16

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

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

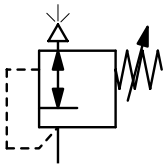
Order example:
D3100-10BT

Description	The diaphragm back pressure regulator protects compressed air devices from excessive pressure. If the pressure setpoint is exceeded, overpressure is vented into the atmosphere until the setpoint is reached again. It is recommended to choose a pressure range as low as possible.
Media	compressed air, gases
Adjustment	by adjusting screw for D3100-02 to - 1A, with locknut by T-handle for D3100-12 and -16, with locknut
Gauge port	G¼ on both sides of the body, screw plugs supplied
Temperature range	0 °C to 80 °C / 32 °F to 176 °F, FKM or EPDM 0 °C to 130 °C / 32 °F to 266 °F, high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40 °C / -40 °F
Material	Body: stainless steel 316L, material no. 1.4404 Diaphragm: NBR/Buna-N with PTFE coating Inner valve: stainless steel 316L, material no. 1.4404

System pressure max. 10 bar (see table)

Mounting position any

O-rings: FKM, optionally EPDM



G¼ and G2
0…45/3000 mbar

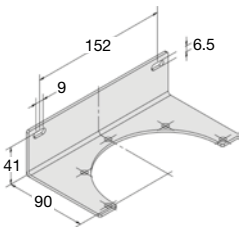
Dimensions A mm	B mm	C mm	Exhaust rate l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range mbar	Order number

Special options, add the appropriate letter

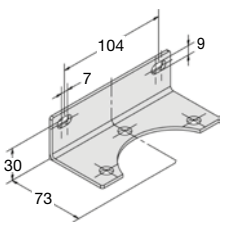
NPT	connection thread		D3100-. . . .**N**
FKM -o-ring			D3100-. . .**T**
EPDM-o-ring			D3100-. . .**TE**
EPDM-o-ring	FDA-approval		D3100-. . .**TD**
down to -40 °C/ -40°F	low temperature version		D3100-. . . .**X51**
up to 130 °C/266 °F	high temperature version		D3100-. . . .**X54**
ammonia	NH_3		D3100-. . . .**02**
carbon dioxide	CO_2		D3100-. . . .**03**
argon	Ar		D3100-. . . .**05**
nitrogen	N_2		D3100-. . . .**07**
helium	He		D3100-. . . .**09**
hydrogen	H_2		D3100-. . . .**11**
methane	CH_4		D3100-. . . .**13**
natural gas *3			D3100-. . . .**14**
Sauerstoff	O_2		D3100-. . . .**15**
propane	C_3H_8		D3100-. . . .**16**
nitrous oxide	N_2O		D3100-. . . .**17**
flange connection	according to EN-1092-1 or ASME B16.5	on request	D3100-. . . .**F.**

Accessories, enclosed

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



BW00-26S



BW00-27S

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

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
MS6302-B6