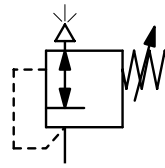


Description	The diaphragm back pressure regulator protects compressed air devices from excessive pressure. If the pressure setpoint is exceeded, overpressure is vented into the atmosphere until the setpoint is reached again. It is recommended to choose a pressure range as low as possible.	
Media	compressed 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					

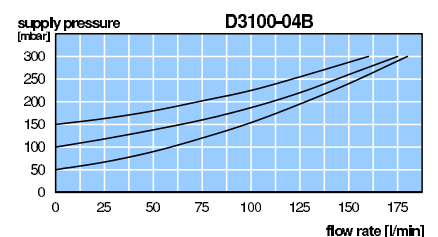
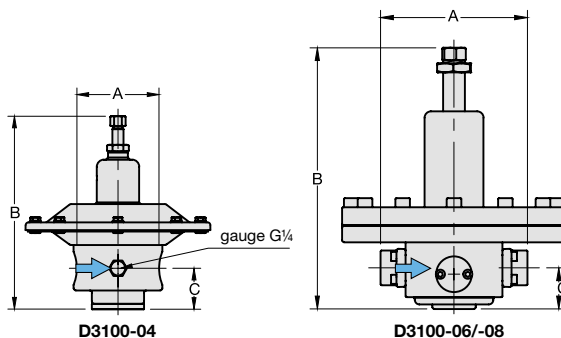
Back pressure regulator				overpressure max. 6/10 bar, PTFE-diaphragm and FKM-o-ring		D3100	
109	181	39	450	10	G $\frac{1}{4}$	0 ... 45	D3100-02AT
			750			0 ... 400	D3100-02BT
			1000			0 ... 1000	D3100-02CT
			1400			0 ... 1500	D3100-02DT
109	181	39	450	10	G $\frac{3}{8}$	0 ... 45	D3100-03AT
			750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

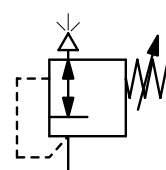


D3100-06/-08/-10/-1A



*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	G1/4 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

G1/4 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					

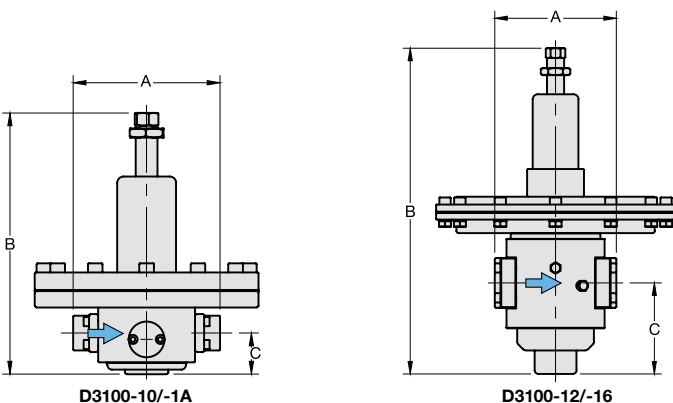
Back pressure regulator			overpressure max. 6/10 bar, PTFE-diaphragm and FKM-o-ring			D3100	
265	290	45	2000	6	G1 1/4	0 ... 300	D3100-10BT
			4100			0 ... 700	D3100-10CT
			5000			0 ... 1200	D3100-10DT
265	290	45	2000	6	G1 1/2	0 ... 300	D3100-1ABT
			4100			0 ... 700	D3100-1ACT
			5000			0 ... 1200	D3100-1ADT
171	460	128	2500	6	G1 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



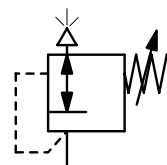
D3100-12/-16



*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. 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

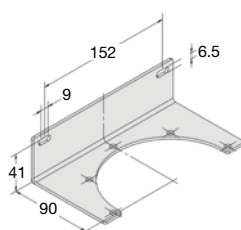
Dimensions			Exhaust rate	Over-pressure	Connection thread	Adjustment range	Order number
A	B	C	l/min*1	max. bar	G	mbar	
mm	mm	mm					

Special options, add the appropriate letter

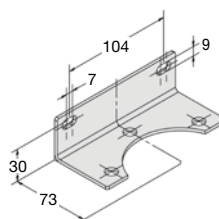
NPT	connection thread	D3100-... N
FKM -o-ring		D3100-... T
EPDM-o-ring		D3100-... TE
EPDM-o-ring	FDA-approval	D3100-... TD
down to -40 °C/ -40 °F	low temperature version	D3100-... X51
up to 130 °C/266 °F	high temperature version	D3100-... X54
ammonia	NH ₃	D3100-... .02
carbon dioxide	CO ₂	D3100-... .03
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
www.aircom.net



Order example:
MS6302-B6