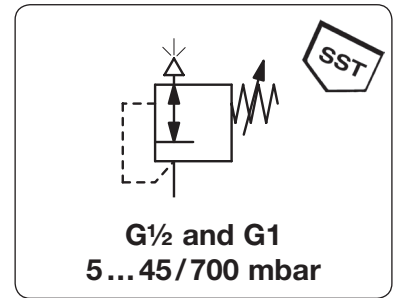


Description	The diaphragm back pressure regulator protects compressed air devices from excessive pressure. If the pressure setpoint is exceeded, overpressure is vented into the atmosphere until the setpoint is reached again. It is recommended to choose a pressure range as low as possible.
Media	compressed air, gases or liquids
System pressure	max. 6 bar
Adjustment	by adjusting screw, with tamper-proof locknut
Gauge port	G $\frac{1}{4}$ on both sides of the body, screw plugs supplied
Mounting position	any
Temperature range	0 to 60 °C / 32 to 140 °F for NBR/Buna-N, EPDM or FKM, for appropriately conditioned compressed air down to -20 °C / -4 °F
Material	Body: stainless steel 316L, material no. 1.4404 Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel O-rings: FKM, optionally NBR/Buna-N or EPDM Inner valve: stainless steel 316L, material no. 1.4404



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

Back pressure regulator							overpressure max. 6 bar, PTFE diaphragm and FKM o-ring	D3100
80	170	37	600	6	G $\frac{1}{2}$	5 ... 45	D3100-04AT	
						20 ... 200	D3100-04BT	
						150 ... 700	D3100-04CT	
125	275	66	3000	6	G1	20 ... 50	D3100-08AT	
						50 ... 100	D3100-08BT	
						100 ... 700	D3100-08CT	



D3100-04CT, accessory: gauge

Special options, add the appropriate letter

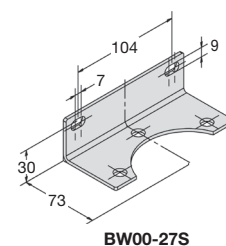
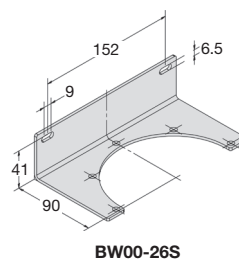
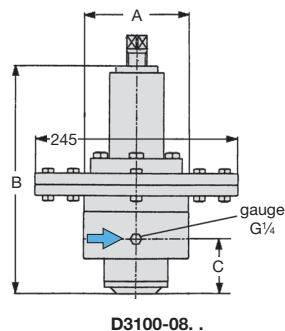
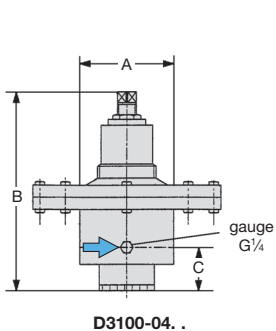
NPT	connection thread	D3100-... N
FKM o-ring	at piston regulator or PTFE diaphragm	D3100-... T
NBR/Buna-N o-ring		D3100-... TB
EPDM o-ring		D3100-... TE
nitrogen N $_2$: 07	ammonia NH $_3$: 02	carbon dioxide CO $_2$: D3100-... 03
argon Ar: 05	helium He: 09	hydrogen H $_2$: D3100-... 11
methane CH $_4$: 13	oxygen O $_2$: 15	propane C $_3$ H $_8$: D3100-... 16
nitrous oxide N $_2$ O: 17		water H $_2$ O: D3100-... W
flange connection	see end of the chapter / flanges	D3100-... F.



D3100-08BT, accessory: gauge

Accessories, enclosed

pressure gauge	Ø 63 mm, 0...*2 mbar, G $\frac{1}{4}$, capsule type	for G $\frac{1}{2}$ and G1 MS6302-...*2
	Ø 63 mm, 0... 1 bar, G $\frac{1}{4}$, Bourdon tube	for G $\frac{1}{2}$ and G1 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



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