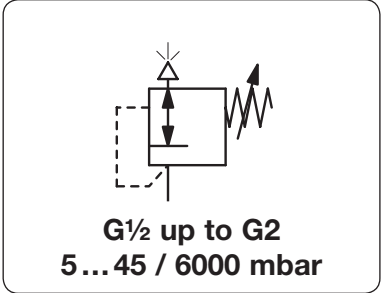


Description	Diaphragm back pressure regulators protect pneumatic devices against overpressure. If the pressure exceeds the setpoint, the pressure valve exhausts to the atmosphere until the pressure level is below the setpoint. It is advisable to select the pressure range as near as possible to the maximum setpoint.
Media	compressed air or non-corrosive gases
Overpressure	see chart
Adjustment	by handwheel with locknut for D160-04 by hexagonal spindle (spanner size 24 mm) with locknut for D160-08/-16
Gauge port	G $\frac{1}{4}$ for operation pressure, on both sides of the body, connection parts required
Mounting position	any
Temperature range	0 °C to 60 °C / 32 °F to 140 °F
Material	Body: aluminium Diaphragm: NBR/Buna-N with PTFE coating O-rings: NBR/Buna-N, optionally FKM or EPDM Inner valve: brass



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

Back pressure regulator			made of aluminium, NBR/Buna-N with PTFE coating			D160	
80	180	38	200	3	G $\frac{1}{2}$	5 ... 45	D160-04N
			500	3		20 ... 200	D160-04P
			800	6		150 ... 700	D160-04Q
127	305	67	2500	3	G1	20 ... 50	D160-08N
				3		50 ... 100	D160-08P
				6		100 ... 700	D160-08Q
				12		600 ... 6000	D160-08R
202	360	52	6500	3	G2	20 ... 50	D160-16N
				3		50 ... 150	D160-16P
				6		150 ... 300	D160-16Q
				12		300 ... 3000	D160-16R



D160-04P

Special options, add the appropriate letter

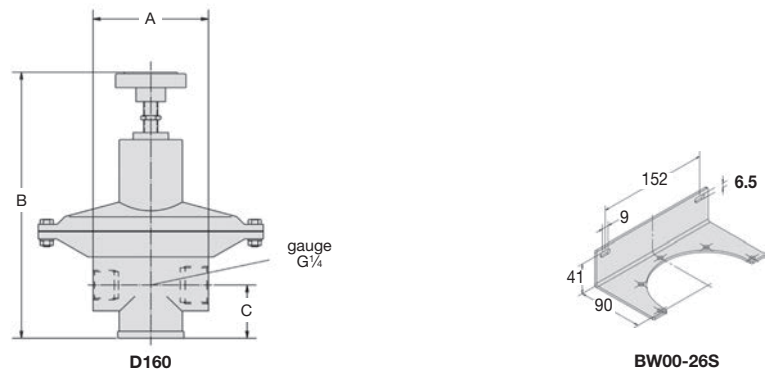
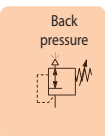
NPT	connection thread	D 160 - .N
FKM o-ring	PTFE diaphragm	D 160 - .V.
EPDM o-ring		D 160 - .E.
flange connection	see chapter for stainless steel devices / flanges	D 160 - .F.



D160-08Q

Accessories, enclosed

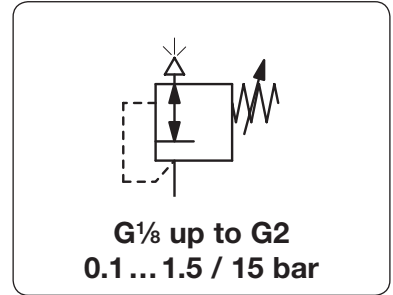
pressure gauge	Ø 63 mm, 0...*2 mbar, G $\frac{1}{4}$, capsule, up to 400 mbar	MA6302-..*2
	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$, Bourdon tube, from 1 bar on	MA6302-..*2
connection parts	required for pressure gauge	AM-01
mounting bracket	made of stainless steel for G $\frac{1}{2}$	BW00-26S



*1 at 6 bar overpressure and open outlet
*2 B6 = 0...60 mbar, C2 = 0...160 mbar, C4 = 0...400 mbar, 01 = 0...1 bar, 04 = 0...4 bar, 06 = 0...6 bar



Description	Back pressure regulators protect pneumatic devices against overpressure. If the pressure exceeds the setpoint, the pressure valve exhausts to the atmosphere until the pressure level is below the setpoint. It is advisable to select the pressure range as near as possible to the maximum setpoint.	
Media	compressed air or non-corrosive gases	
Overpressure	max. 30 bar	
Adjustment	by plastic knob with snap-lock for DBD-01, by handwheel with locknut for DBD-02 / -04, by T-handle with locknut for DBD-08 to -16	
Gauge port	G $\frac{1}{4}$ from DBD-02 on, on both sides of the body, screw plugs supplied	
Mounting position	any	
Temperature range	0 °C to 60 °C / 32 °F to 140 °F	
Material	Body: aluminium Diaphragm: NBR/Buna-N with PTFE coating	O-rings: NBR/Buna-N, optionally FKM or EPDM Inner valve: brass



Dimensions			Reg. system	Relief capacity	Over-pressure	Connection thread	Adjustment range	Order number
A	B	C	D: diaphragm P: piston	l/min*1	max. bar	G	bar	

Back pressure regulator						made of aluminium, overpressure max. 30 bar	DBD	
40	82	13	D	200	30	G $\frac{1}{8}$	0.1 ... 1.5 0.2 ... 3.0 0.5 ... 8.0 1.0 ... 15	DBD-01A DBD-01B DBD-01D DBD-01E
78	157	33	D	300	30	G $\frac{1}{4}$	0.1 ... 1.5 0.2 ... 3.0 0.5 ... 8.0 1.0 ... 15	DBD-02A DBD-02B DBD-02D DBD-02E
82	167	38	D	1800	30	G $\frac{1}{2}$ *3	0.1 ... 1.5 0.2 ... 3.0 0.5 ... 8.0 1.0 ... 15	DBD-04A DBD-04B DBD-04D DBD-04E
127	275	69	D	4000	30	G1	0.1 ... 1.5 0.2 ... 3.0 0.5 ... 8.0 1.0 ... 15	DBD-08A DBD-08B DBD-08D DBD-08E
210	323	52	P	12000	30	G1 $\frac{1}{2}$	0.1 ... 1.5 0.2 ... 3.0 0.5 ... 8.0 1.0 ... 15	DBD-12A DBD-12B DBD-12D DBD-12E
210	323	52	P	12000	30	G2	0.1 ... 1.5 0.2 ... 3.0 0.5 ... 8.0 1.0 ... 15	DBD-16A DBD-16B DBD-16D DBD-16E

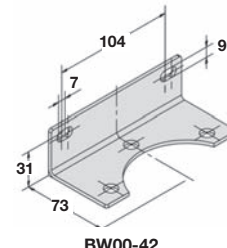
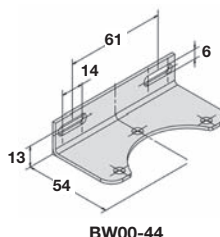
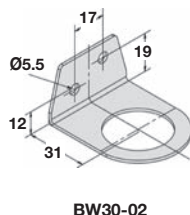
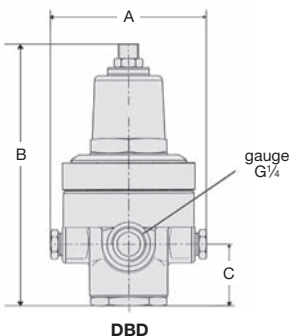
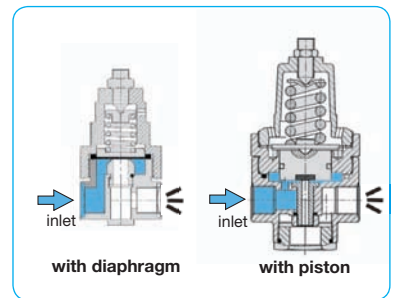


Special options, add the appropriate letter

NPT	connection thread	DBD-... N
FKM o-ring	PTFE diaphragm	DBD-... V
EPDM o-ring	PTFE diaphragm	DBD-... E
flange connection	see chapter for stainless steel devices / flanges	DBD-... F

Accessories, enclosed

pressure gauge	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{1}{4}$	MA5002-..*2
pressure gauge	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	from G $\frac{1}{2}$ on	MA6302-..*2
mounting bracket	made of steel	for G $\frac{1}{8}$	BW30-02
mounting nut	made of aluminium	for G $\frac{1}{8}$	M30x1,5A
mounting bracket	made of steel	for G $\frac{1}{4}$ and G $\frac{1}{2}$	BW00-44
		for G1	BW00-42



*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

*3 G $\frac{3}{8}$ thread at outlet



Order example:
DBD-01A
China website: www.duray-control.cn

