

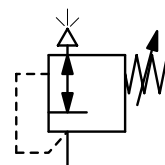
BACK PRESSURE REGULATOR

	DESCRIPTION	OVERPRESSURE max. bar	ADJUSTMENT RANGE bar	CONNECTION	SERIES	PAGE
STANDARD	aluminium	30	0.2 ... 1.5 / 15	G $\frac{1}{8}$ - G2	DBC	8.02
	brass	65	0.2 ... 1.5 / 50	G $\frac{1}{8}$ - G2	DBM	8.04
	- 40 °C	65	0.2 ... 1.5 / 50	G $\frac{1}{4}$ - G2	DBM-X51	8.05
	+130 °C	65	0.2 ... 1.5 / 50	G $\frac{1}{4}$ - G1	DBM-X54	8.05
PRECISE	high-precision	35	0.01 ... 0.14 / 28	G $\frac{1}{4}$ - G $\frac{1}{2}$	10BP	8.06
	ree of non-ferrous metal	35	0.01 ... 0.14 / 28	G $\frac{1}{4}$ - G $\frac{1}{2}$	10BP-X63	8.06
	aluminium	17	0.01 ... 0.14 / 10	G $\frac{1}{4}$ - $\frac{1}{2}$ "NPT	DB240	8.07
	aluminium	10	0.001 ... 0.14 / 7	G $\frac{1}{4}$ u. G $\frac{3}{8}$	DB300	8.09
	aluminium	17	0.03 ... 0.7 / 10	G $\frac{3}{8}$ - G $\frac{3}{4}$	DB400	8.10
LOW PRESSURE	precise	10	0.002 ... 0.035 / 0,8	G $\frac{1}{4}$ - G $\frac{1}{2}$	DB110	8.08
	precise	6	0.005 ... 0.045 / 3	G $\frac{1}{2}$ - G2	DBC	8.11
HIGH PRESSURE	precise	1034	0.35 ... 35 / 1034	$\frac{1}{8}$ "NPT - $\frac{1}{2}$ "NPT	DB26	8.14
PILOT-OPERATED	precise	17	0 ... 10	G $\frac{1}{4}$ - G $\frac{1}{2}$	DB208	8.12
	precise	17	0 ... 10	G $\frac{3}{8}$ - G $\frac{3}{4}$	DB450	8.13
STAINLESS STEEL	für viele Gase, auch FDA	65	0.1 ... 1.5 / 50	G $\frac{1}{8}$ - G2	D3000	15.22
	- 40 °C	65	0.2 ... 1.5 / 50	G $\frac{1}{4}$ - G2	D3000-X51	15.25
	+130 °C	65	0.1 ... 1.5 / 50	G $\frac{1}{4}$ - G2	D3000-X54	15.25
	Niederdruck	6	0.005 ... 0.045 / 3	G $\frac{1}{2}$ - G2	D3100	15.26



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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 DBC-01, by handwheel for DBC-02 to -04 by T-handle with locknut for DBC-06 to -16		
Gauge port	G½ at DBC-01, G¼ from DBC-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 (DBC-01 to -04), 0 °C to 80 °C / 32 °F to 176 °F (DBC-12 and -16), for appropriately conditioned compressed air down to -20 °C / -4 °F		
Material	Body: aluminium Diaphragm: NBR/Buna-N with PTFE coating O-rings: NBR/Buna-N, optionally FKM or EPDM Inner valve: brass		



G½ up to G2
0.1 ... 1.5/15 bar

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



Aluminium back pressure regulator

overpressure max. 30 bar

DBC

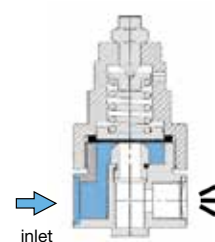
40	78	13	D	200	30	G½	0.2 ... 1.5	DBC-01A
							0.3 ... 3.0	DBC-01B
							0.8 ... 8.0	DBC-01D
							1.5 ... 15	DBC-01E
40	78	13	D	200	30	G¼	0.2 ... 1.5	DBC-A2A
							0.3 ... 3.0	DBC-A2B
							0.8 ... 8.0	DBC-A2D
							1.5 ... 15	DBC-A2E
78	166	33	D	400	30	G¼	0.2 ... 1.5	DBC-02A
							0.3 ... 3.0	DBC-02B
							0.8 ... 8.0	DBC-02D
							1.5 ... 15	DBC-02E
78	166	33	D	500	30	G¾	0.2 ... 1.5	DBC-03A
							0.3 ... 3.0	DBC-03B
							0.8 ... 8.0	DBC-03D
							1.5 ... 15	DBC-03E
82	175	38	D	2200	30	G½	0.2 ... 1.5	DBC-04A
							0.3 ... 3.0	DBC-04B
							0.8 ... 8.0	DBC-04D
							1.5 ... 15	DBC-04E



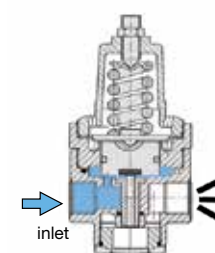
DBC-01/-A2



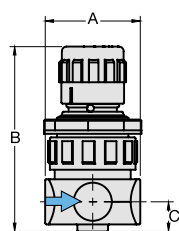
DBC-04



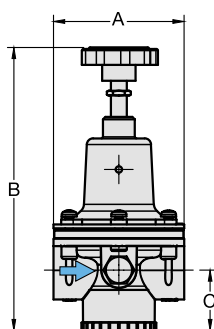
cross-section with diaphragm (D)



cross-section with piston (P)



DBC-01/-A2



DBC-02/-03/-04

*1 at 7 bar overpressure and open outlet

Gauges: see chapter for measuring devices

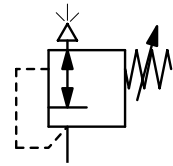
PDF CAD
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* Product group



Order example:
DBC-01A

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 DBC-01, by handwheel for DBC-02 to -04 by T-handle with locknut for DBC-06 to -16		
Gauge port	G½ at DBC-01, G¼ from DBC-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 (DBC-01 to -04), 0 °C to 80 °C / 32 °F to 176 °F (DBC-12 and -16), for appropriately conditioned compressed air down to -20 °C / -4 °F		
Material	Body: aluminium Diaphragm: NBR/Buna-N with PTFE coating O-rings: NBR/Buna-N, optionally FKM or EPDM Inner valve: brass		



G½ up to G2
0.1 ... 1.5/15 bar

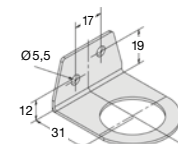
Dimensions			Regul. system	Relief capacity	Over-pressure	Connection thread	Adjustment range	Order number
A	B	C	D: diaphragm P: piston	l/min*1	max. bar	G	bar	
mm	mm	mm						



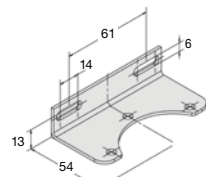
Aluminium back pressure regulator						overpressure max. 30 bar	DBC	
174	283	35	P	25000	30	G1½	0.2 ... 1.5	DBC-12A
							0.3 ... 3.0	DBC-12B
							0.8 ... 8.0	DBC-12D
							1.5 ... 15	DBC-12E
174	283	35	P	25000	30	G2	0.2 ... 1.5	DBC-16A
							0.3 ... 3.0	DBC-16B
							0.8 ... 8.0	DBC-16D
							1.5 ... 15	DBC-16E



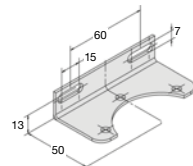
DBC-12/-16
accessory pressure gauge



BW30-02



BW00-44



BW00-63S

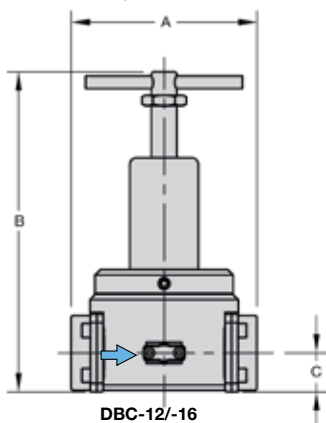
Special options, add the appropriate letter

NPT	connection thread	from G¼ (02)	DBC-... N
FKM o-ring	PTFE-diaphragm		DBC-... V
EPDM o-ring	PTFE-diaphragm		DBC-... E
flange connection	according to EN-1092-1 or ASME B16.5	on request	DBC-... F.

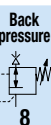
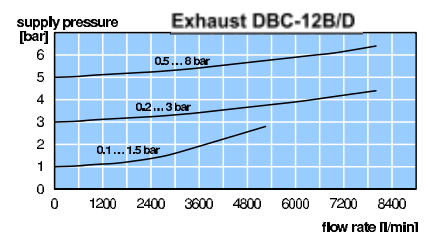
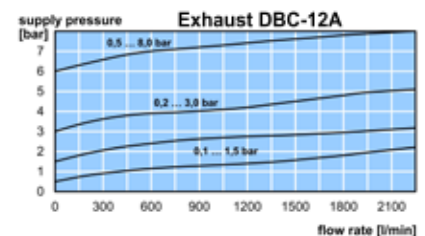
Accessories, enclosed



pressure gauges	Ø 50 mm, 0...*2 bar, G¼	for G¼	MA5002-...*2
pressure gauges	Ø 63 mm, 0...*2 bar, G¼	from G½	MA6302-...*2
mounting bracket	made of steel	for G½ and G¼ (A2)	BW30-02
mounting nut	made of aluminium	for G½ and G¼ (A2)	M30x1,5A
mounting bracket	made of steel	for G¼ (02) to G½	BW00-44
mounting bracket	made of stainless steel	for G½ and G2	BW00-63S



DBC-12/-16



*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

Gauges: see chapter for measuring devices

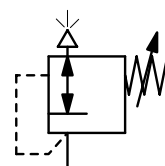
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* Product group



Order example:
DBC-06A

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, non-corrosive gases or liquids		
Adjustment	by black plastic knob with snap-lock for DBM-02/-03 by T-handle with locknut for DBM-04 to -16	Overpressure	see chart, max. 70 bar
Gauge port	G¼ on both sides of the body, from DBM-02 on screw plugs supplied		
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 high temperature version, for appropriately conditioned compressed air down to -20 °C / -4 °F, or low temperature version down to -40 °C / -40 °F		
Mounting position	any		
Material	Body: brass Diaphragm: NBR/Buna-N with PTFE coating	O-rings: FKM, optionally EPDM Inner valve: brass	



G½ up to G2
0.1... 1.5/50 bar

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



Brass back pressure regulator

overpressure max. 30/65 bar

DBM

69	150	35	D	800	30	G¼	0.2 ... 1.5	DBM-02A
							0.3 ... 3.0	DBM-02B
							0.8 ... 8.0	DBM-02D
							1.5 ... 15	DBM-02E
69	145	35	P		65		3.0 ... 30	DBM-02F
69	160	35					5.0 ... 50	DBM-02G
69	150	35	D	800	30	G¾	0.2 ... 1.5	DBM-03A
							0.3 ... 3.0	DBM-03B
							0.8 ... 8.0	DBM-03D
							1.5 ... 15	DBM-03E
69	145	35	P		65		3.0 ... 30	DBM-03F
69	160	35					5.0 ... 50	DBM-03G
78	170	38	D	2500	30	G½	0.2 ... 1.5	DBM-04A
							0.3 ... 3.0	DBM-04B
							0.8 ... 8.0	DBM-04D
							1.5 ... 15	DBM-04E
78	170	38	P		65		3.0 ... 30	DBM-04F
							5.0 ... 50	DBM-04G
118	291	66	D	8000	30	G¾	0.2 ... 1.5	DBM-06A
							0.3 ... 3.0	DBM-06B
							0.8 ... 8.0	DBM-06D
							1.5 ... 15	DBM-06E
118	313	66	P		65		3.0 ... 30	DBM-06F
							5.0 ... 50	DBM-06G
118	291	66	D	8000	30	G1	0.2 ... 1.5	DBM-08A
							0.3 ... 3.0	DBM-08B
							0.8 ... 8.0	DBM-08D
							1.5 ... 15	DBM-08E
118	313	66	P		65		3.0 ... 30	DBM-08F
							5.0 ... 50	DBM-08G



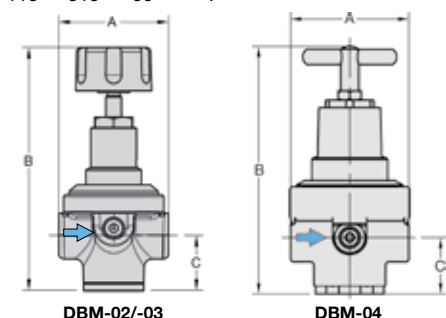
DBM-02/-03



DBM-04

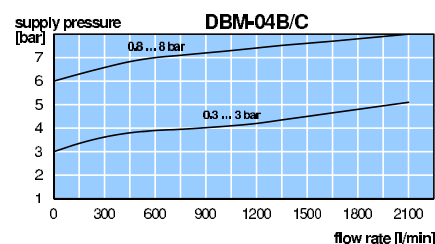
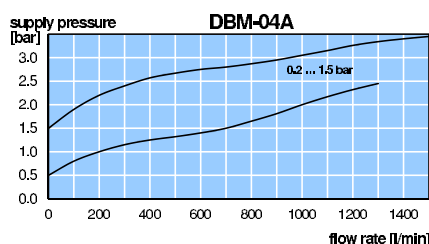


DBM-06/-08



DBM-02/-03

DBM-04



*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, 25 = 0...25 bar 60 = 0...60 bar

* Product group

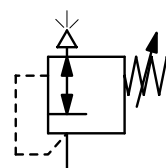
Gauges: see chapter for measuring devices

PDF CAD
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Order example:
DBM-02A

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, non-corrosive gases or liquids		
Adjustment	by spindle with locknut for DBM-01	by black plastic knob with snap-lock for DBM-02/-03	Overpressure see chart, max. 70 bar
Gauge port	by T-handle with locknut for DBM-04/-08	by hexagonal spindle (spanner size 24 mm) with locknut for DBM-12/-16	
Temperature range	G $\frac{1}{4}$ on both sides of the body, from DBM-02 on G $\frac{1}{2}$ at DBM-01, screw plugs supplied 0 °C to 80 °C / 32 °F to 176 °F for 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		
Mounting position	any		
Material	Body: brass Diaphragm: NBR/Buna-N with PTFE coating	O-rings: FKM, optionally EPDM Inner valve: brass	



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

Dimensions			Regul. 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	
mm	mm	mm						



Brass back pressure regulator

overpressure max. 30/65 bar

DBM

174	283	35	P	28000	70	G1½	0.2... 1.5	DBM-12A
							0.3... 3.0	DBM-12B
							0.8... 8.0	DBM-12D
							1.5... 15	DBM-12E
							3.0... 30	DBM-12F
							5.0... 50	DBM-12G
174	283	35	K	28000	70	G2	0.2... 1.5	DBM-16A
							0.3... 3.0	DBM-16B
							0.8... 8.0	DBM-16D
							1.5... 15	DBM-16E
							3.0... 30	DBM-16F
							5.0... 50	DBM-16G

Special options, add the appropriate letter

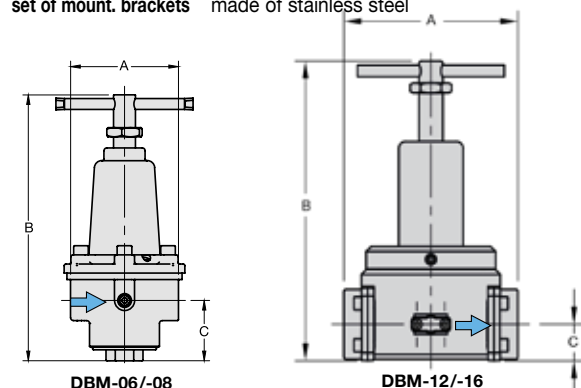
NPT	connection thread		DBM-... N
down to -40 °C / -40 °F	low temperature version		DBM-... X51
up to 130 °C / 266 °F	high temperature version		DBM-0... X54
EPDM o-ring	PTFE diaphragm		DBM-... E
T-handle	instead of knob		DBM-0... T
nitrogen	N ₂ : 07	carbon dioxide CO ₂ : 03	DBM-... 05
helium	He: 09	hydrogen H ₂ : 11	DBM-... 13
oxygen	O ₂ : 15	propane C ₃ H ₈ : 16	DBM-... 17
		nitrous oxide N ₂ O: 18	DBM-... W
		water H ₂ O: 19	DBM-... F.

flange connection according to EN-1092-1 or ASME B16.5 on request

Accessories, enclosed



pressure gauge	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{1}{4}$ and G $\frac{1}{2}$	MA5002-...*2
	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{3}{4}$ to G2	MA6302-...*2
	Ø 50 / Ø 63 mm, 0...25 bar, G $\frac{1}{4}$	für G $\frac{1}{4}$ bis G2	MA...02-25
	Ø 50 / Ø 63 mm, 0...60 bar, G $\frac{1}{4}$	für G $\frac{1}{4}$ bis G2	MA...02-60
mounting bracket	made of stainless steel	for G $\frac{1}{4}$ and G $\frac{3}{8}$	BW35-01S
mounting nut	made of stainless steel	for G $\frac{1}{4}$ and G $\frac{3}{8}$	M35x1,5S
mounting bracket	made of stainless steel	for G $\frac{1}{2}$	BW50-01S
mounting nut	made of stainless steel	for G $\frac{1}{2}$	M50x1,5S
mounting bracket	made of steel	for G $\frac{3}{4}$ and G1	BW00-42
set of mount. brackets	made of stainless steel	for G1½ 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, 25 = 0...25 bar 60 = 0...60 bar

Gauges: see chapter for measuring devices

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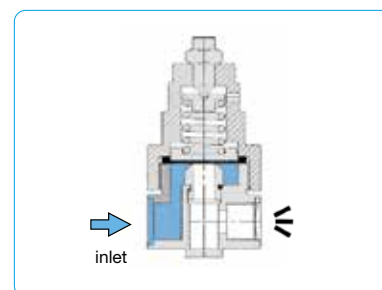
* Product group



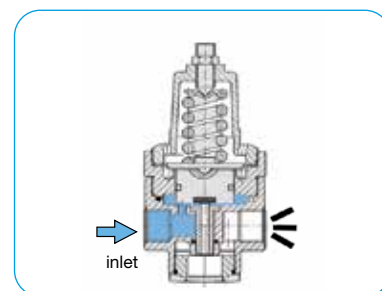
Order example:
DBM-12A



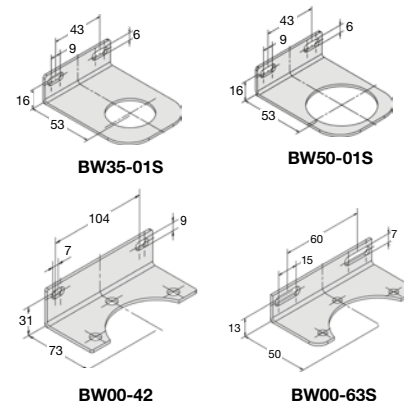
DBM-12/-16



cross-section with diaphragm (D)

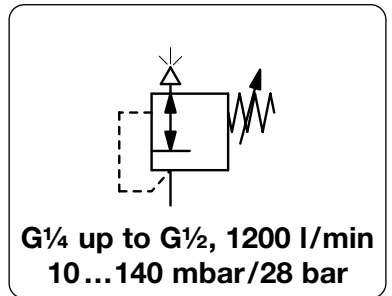


cross-section with piston (P)



PRECISION BACK PRESSURE REGULATOR OF ADVANCED ACCURACY, UP TO 35 BAR 10BP

Description	The back pressure regulator is a high-flow, high-precision pneumatic relief valve with adjustable setpoint. It provides protection against overpressure in the downstream section of pneumatic systems. A convoluted diaphragm provides the sensitivity for venting to the atmosphere in response to the slightest upstream change.
Media	compressed air or non-corrosive gases
Overpressure	max. 21 bar up to pressure range of 14 bar, max. 35 bar beyond
Adjustment	by handwheel with locknut
Gauge port	1/4" NPT on both sides of the body, screw plugs supplied
Mounting position	any
Temperature range	0 °C to 90 °C / 32 °F to 194 °F, for appropriately conditioned compressed air down to -40 °C / -40 °F
Material	Body: aluminium die-cast Elastomer: NBR/Buna-N, optionally FKM Inner valve: stainless steel and brass



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

Precision back pressure regulator					overpressure max. 21/35 bar	Model 10BP	
67	162	19	1200	21	G¼	0.01 ... 0.14	10212BPH
						0.01 ... 0.7	10222BPH
						0.01 ... 2.1	10232BPH
						0.07 ... 4.1	10242BPH
						0.14 ... 10	10262BPH
						0.20 ... 14	10272BPH
67	171	19	1200	35	G¼	0.30... 21	10282BPH
						0.30... 28	10292BPH



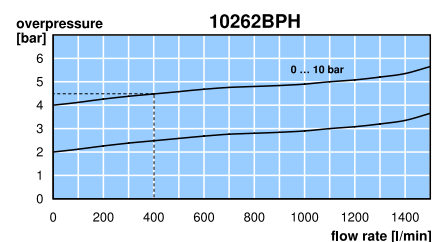
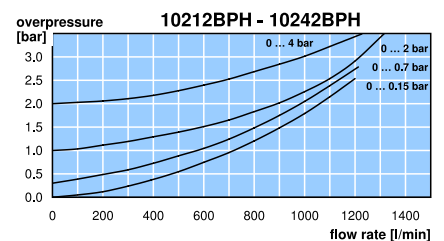
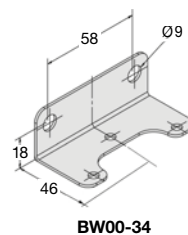
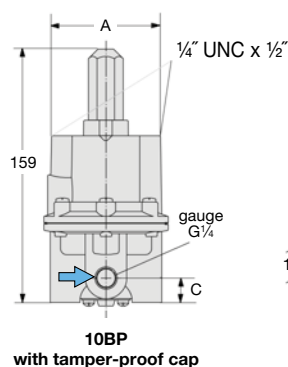
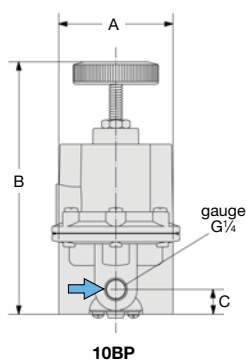
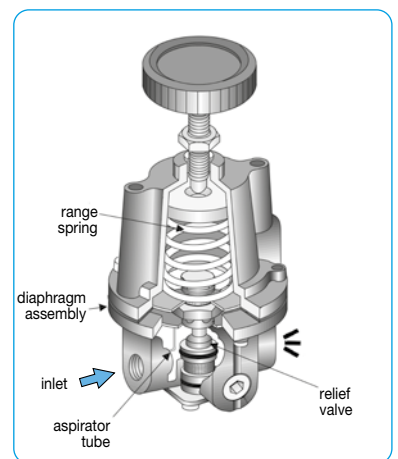
Modell 10BP

Special options, add the appropriate letter

G3/8	connection thread	102.3BPH
G1/2	connection thread, recommended for mbar range	102.4BPH
NPT	connection thread	102.2BP
FKM elastomer		102..BP.J
no yellow metals	FKM elastomer	102..BP.X63
tamper-proof cap	aluminium, adjustment by screwdriver, total height 159 mm	102..BP.T

Accessories, enclosed

pressure gauge	Ø 50 mm, 0...*2 bar, G1/4 Ø 50 mm, 0... 25 bar, G1/4 Ø 50 mm, 0... 60 bar, G1/4 Ø 63 mm, 0...160 mbar, G1/4	MA5002-...*2 MA5002-25 MA5002-60 MA6302-C2
mounting bracket	made of steel	BW00-34
gauge connector	made of brass, adapter 1/4" NPT - G1/4 female	AM-06



*1 at 5 bar overpressure and open outlet

*2 01 = 0...1 bar, 02 = 0...2.5 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar, 25 = 0...25 bar, 60 = 0...60 bar

Gauges: see chapter for measuring devices

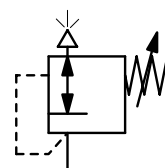
PDF CAD
www.aircom.net

* Product group



Order example:
10212BPH

Description	The back pressure regulator is a high-flow, high-precision pneumatic relief valve with adjustable setpoint. It provides protection against overpressure in the downstream section of pneumatic systems. A convoluted diaphragm provides the sensitivity for venting to the atmosphere in response to the slightest upstream change.
Media	compressed air or non-corrosive gases
Overpressure	max. 17 bar
Adjustment	by handwheel 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 70 °C / 32 °F to 158 °F, for appropriately conditioned compressed air down to -40 °C / -40 °F
Material	Body: aluminium die-cast Elastomer: NBR/Buna-N Inner valve: stainless steel and brass



G $\frac{1}{4}$ / $\frac{1}{4}$ " up to $\frac{1}{2}$ " NPT
10... 140 mbar/10 bar

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

Precision back pressure regulator						overpressure max. 17 bar	DB240
67	154	19	1100	17	G¼	0.01 ... 0.14	DB240-020
						0.01 ... 1.0	DB240-02A
						0.01 ... 2.0	DB240-02B
						0.07 ... 4.0	DB240-02C
						0.14 ... 10	DB240-02D



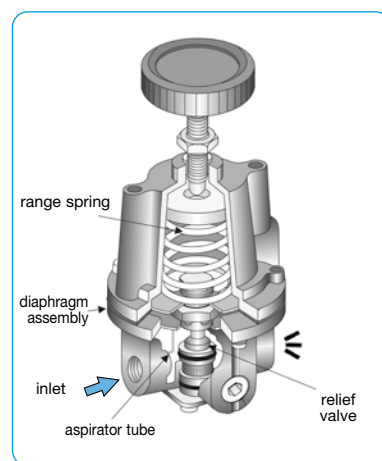
DB240

Special options, add the appropriate letter

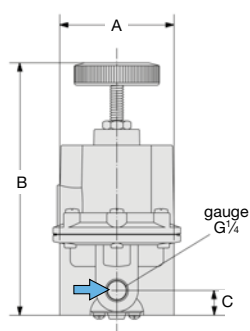
$\frac{1}{4}$" NPT	connection thread	DB240-02 . N
$\frac{3}{8}$" NPT	connection thread	DB240-03 . N
$\frac{1}{2}$" NPT	connection thread, recommended for mbar range	DB240-04 . N
tamper-proof cap	aluminium, adjustment by screwdriver, total height 157 mm	DB240-0 . T

Accessories, enclosed

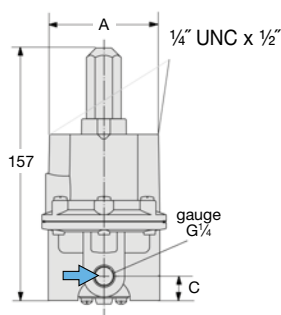
pressure gauge	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$, Bourdon tube, from 1 bar on	MA5002-...*2
	Ø 63 mm, 0...160 mbar, G $\frac{1}{4}$, capsule type	MA6302- C2
mounting bracket	made of steel	BW00-33



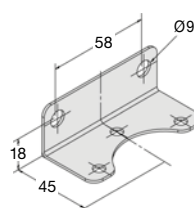
cross-section



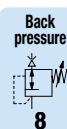
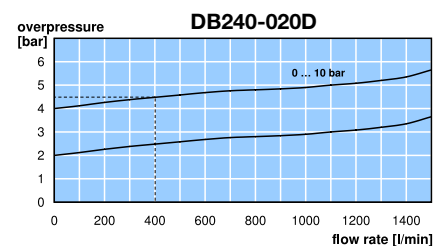
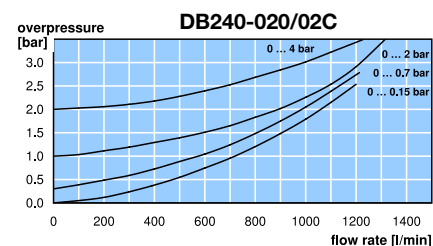
DB240



DB240-...T
with tamper-proof cap



BW00-33



*1 at 5 bar overpressure and open outlet

*2 01 = 0...1 bar, 02 = 0...2.5 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar

Gauges: see chapter for measuring devices

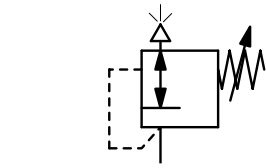
PDF CAD
www.aircom.net

* Product group



Order example:
DB240-020

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
Recommendation	connection thread G½ for pressure range 0...35 / 140 / 280 mbar
Overpressure	max. 4 bar
Accuracy	response sensitivity <2 mbar
Adjustment	by handwheel with locknut
Gauge port	¼" NPT on both sides of the body, screw plugs supplied
Mounting position	any
Temperature range	0 °C to 90 °C / 32 °F to 194 °F , for appropriately conditioned compressed air down to -40 °C / -40 °F
Material	Body: aluminium die-cast Elastomer: NBR/Buna-N, optionally FKM Inner valve: stainless steel and brass



**G¼ up to G½, 700 l/min
0...35/800 mbar**

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

Low back pressure regulator

			overpressure max. 4 bar		DB110		
67	180	25	700	4	G¼	2 ... 35	DB110-020
						2 ... 140	DB110-02A
						2 ... 280	DB110-02B
						2 ... 400	DB110-02C
						2 ... 800	DB110-02D
67	180	25	700	4	G½	2 ... 35	DB110-040
						2 ... 140	DB110-04A
						2 ... 280	DB110-04B
						2 ... 400	DB110-04C
						2 ... 800	DB110-04D



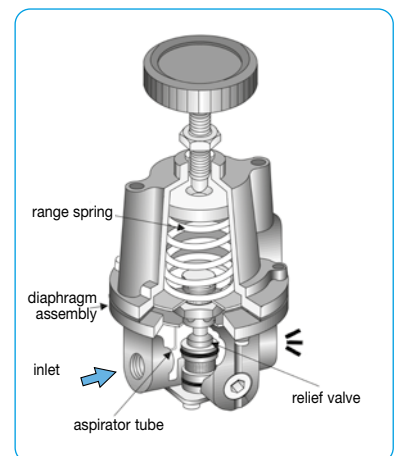
DB110

Special options, add the appropriate letter

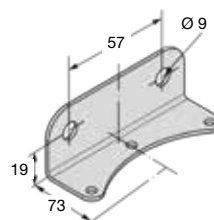
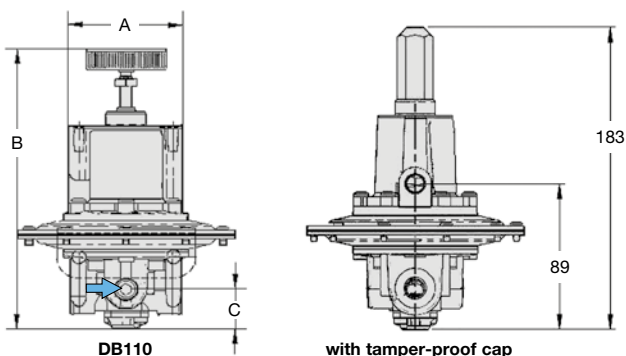
G¾	connection thread	DB110-03.
NPT	connection thread	DB110-0.. N
FKM elastomer		DB110-0.. V
tamper-proof cap	aluminium, adjustment by screwdriver, total height 183 mm	DB110-0.. T

Accessories, enclosed

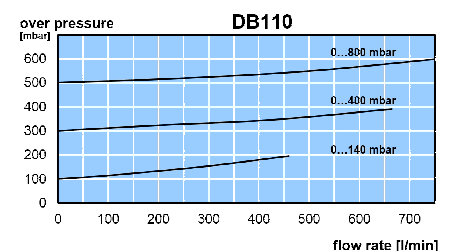
pressure gauge	Ø 63 mm, 0...*2 mbar, G¼, capsule type	MA6302-...*2
	Ø 63 mm, 0... 1 bar, G¼, Bourdon tube	MA6302-01
connecting part gauge	made of brass adapter ¼" NPT - G¼i	AM-06
mounting bracket	made of steel	BW00-58



functional principle



BW00-58



*1 at 200 mbar overpressure and open outlet
*2 B6 = 0...60 mbar, C2 = 0...160 mbar, C3 = 0...250 mbar, C4 = 0...400 mbar

Gauges: see chapter for measuring devices

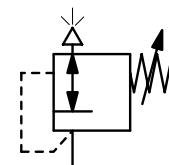
PDF CAD
www.aircom.net

* Product group



Order example:
DB110-020

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	max. 10 bar
Accuracy	response sensitivity <2 mbar
Adjustment	by handwheel with locknut
Gauge port	G $\frac{1}{8}$ on both sides of the body, screw plugs supplied
Mounting position	any
Temperature range	0 °C to 90 °C / 32 °F to 194 °F, for appropriately conditioned compressed air down to -40 °C / -40 °F
Material	Body: aluminium die-cast Elastomer: NBR/Buna-N, optionally FKM Inner valve: brass



**G $\frac{1}{4}$ and G $\frac{3}{8}$, 1100 l/min
0...0.14/7 bar**

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

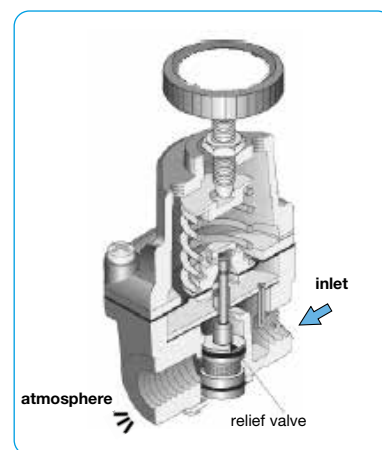
Precision back pressure regulator						overpressure max. 10 bar	DB300
57	126	19	1100	10	G $\frac{1}{4}$	0.001... 0.14	DB300-020
						0.01 ... 0.7	DB300-021
						0.03 ... 2.0	DB300-02A
						0.07 ... 4.0	DB300-02B
						0.14 ... 7.0	DB300-02C
57	126	19	1100	10	G $\frac{3}{8}$	0.001... 0.14	DB300-030
						0.01 ... 0.7	DB300-031
						0.03 ... 2.0	DB300-03A
						0.07 ... 4.0	DB300-03B
						0.14 ... 7.0	DB300-03C



DB300

Special options, add the appropriate letter

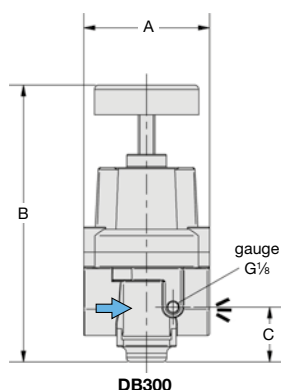
NPT	connection thread	DB300-0 . . N
tamper-proof cap	aluminium, adjustment by screwdriver, total height 141 mm	DB300-0 . . T
FKM elastomer		DB300-0 . . V



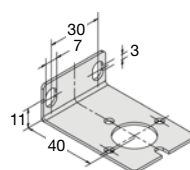
cross-section

Accessories, enclosed

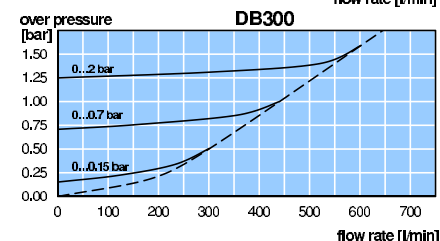
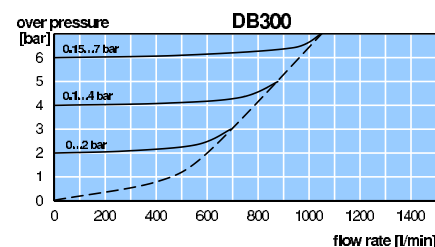
pressure gauge	Ø 63 mm, 0... 160 mbar, G $\frac{1}{4}$ - connecting parts required	MA6302-C2
	Ø 50 mm, 0...*2 bar, G $\frac{1}{8}$	MA5001-...*2
connecting parts gauge	made of brass, adapter G $\frac{1}{8}$ a - G $\frac{1}{4}$ i	AM-04
mounting bracket	made of steel	BW00-46



DB300



BW00-46



*1 at 7 bar overpressure and open outlet
*2 01 = 0...1 bar, 02 = 0...2.5 bar, 04 = 0...4 bar, 10 = 0...10 bar

Gauges: see chapter for measuring devices

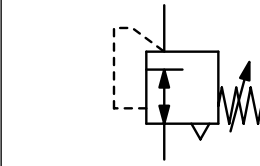
PDF CAD
www.aircom.net

* Product group



Order example:
DB300-020

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	max. 17 bar
Adjustment	by handwheel with locknut
Gauge port	1/4" NPT on both sides of the body, screw plugs supplied
Mounting position	any
Temperature range	0 °C to 90 °C / 32 °F to 194 °F, for appropriately conditioned compressed air down to -40 °C / -40 °F
Material	Body: aluminium die-cast Elastomer: NBR/Buna-N, optionally FKM Inner valve: stainless steel, brass, aluminium and cadmium-plated steel



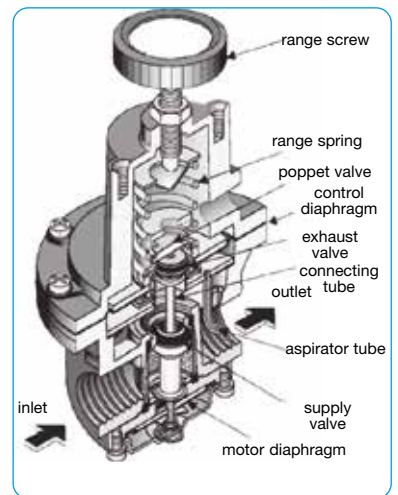
G³/₈ up to G³/₄, 4200 l/min
0.03 ... 0.7/10 bar

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

Precision back pressure regulator						overpressure max. 17 bar	DB400
89	206	39	3800	17	G ³ / ₈	0.03 ... 0.7	DB400-031
						0.03 ... 2.0	DB400-03A
						0.07 ... 4.0	DB400-03B
						0.15 ... 10	DB400-03C
89	206	39	4000	17	G ¹ / ₂	0.03 ... 0.7	DB400-041
						0.03 ... 2.0	DB400-04A
						0.07 ... 4.0	DB400-04B
						0.15 ... 10	DB400-04C
89	206	39	4200	17	G ³ / ₄	0.03 ... 0.7	DB400-061
						0.03 ... 2.0	DB400-06A
						0.07 ... 4.0	DB400-06B
						0.15 ... 10	DB400-06C



DB400



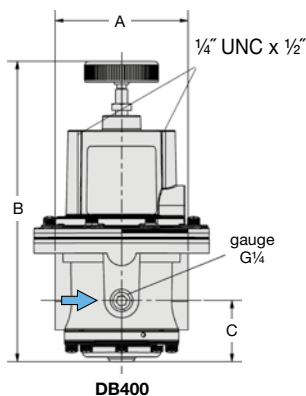
cross-section

Special options, add the appropriate letter

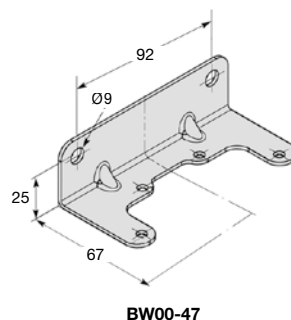
NPT	connection thread	DB400-0..N
tamper-proof cap	aluminium, adjustment by screwdriver, total height 295 mm	DB400-0..T
FKM elastomer		DB400-0..V

Accessories, enclosed

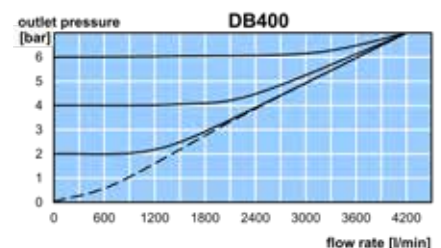
pressure gauge	Ø 63 mm, 0... ^{*2} bar, G ¹ / ₄	MA6302-... ^{*2}
gauge connection	made of brass, adapter 1/4" NPT - G ¹ / ₄ female	AM-06
mounting bracket	made of steel	BW00-47



DB400



BW00-47



*1 at 7 bar inlet pressure and 1.4 bar outlet pressure

*2 01 = 0...1 bar, 02 = 0...2.5 bar, 04 = 0...4 bar, 10 = 0...10 bar, 25 = 0...25 bar

Gauges: see chapter for measuring devices

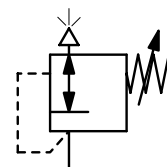
PDF CAD
www.aircom.net

* Product group



Order example:
DB400-031

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	max. 6 bar
Adjustment	by handwheel with locknut for DBC-04 by hexagonal spindle (spanner size 24 mm) with locknut for DBC-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	-20 °C to 60 °C / -4 °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



G $\frac{1}{2}$ up to G2
5 ... 45/3000 mbar

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

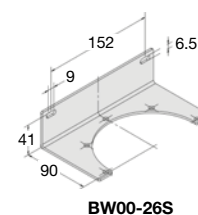
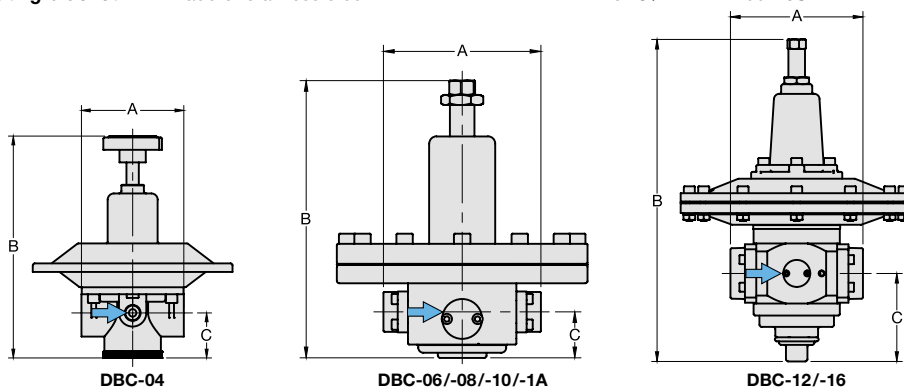
Aluminium back pressure regulator			NBR/Buna-N with PTFE coating		DBC		
82	186	38	300	1	G $\frac{1}{2}$	5 ... 45	DBC-04N
			500			20 ... 200	DBC-04P
			1000			150 ... 700	DBC-04Q
161	290	45	1300	6	G $\frac{3}{4}$	50 ... 300	DBC-06P
			2300			100 ... 700	DBC-06Q
			5000			200 ... 1200	DBC-06R
161	290	45	1300	6	G1	50 ... 300	DBC-08P
			2300			100 ... 700	DBC-08Q
			5000			200 ... 1200	DBC-08R
265	290	45	1300	6	G1 $\frac{1}{4}$	50 ... 300	DBC-10P
			2300			100 ... 700	DBC-10Q
			5000			200 ... 1200	DBC-10R
265	290	45	1300	6	G1 $\frac{1}{2}$	50 ... 300	DBC-1AP
			2300			100 ... 700	DBC-1AQ
			5000			200 ... 1200	DBC-1AR
192	444	128	2500	6	G1 $\frac{1}{2}$	20 ... 50	DBC-12N
			5000			50 ... 150	DBC-12P
			7500			150 ... 300	DBC-12Q
			10000			300 ... 3000	DBC-12R
192	444	128	2500	6	G2	20 ... 50	DBC-16N
			5000			50 ... 150	DBC-16P
			7500			150 ... 300	DBC-16Q
			10000			300 ... 3000	DBC-16R

Special options, add the appropriate letter

NPT	connection thread	DBC-... N
FKM o-ring	PTFE-diaphragm	DBC-... V
EPDM o-ring	PTFE-diaphragm	DBC-... E
flange connection	according to EN-1092-1 or ASME B16.5	on request DBC-... F.

Accessories, enclosed

pressure gauge	Ø 63 mm, 0...*2 mbar, G $\frac{1}{4}$, capsule type, up to 400 mbar	MA6302-...*2
	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$, Bourdon tube, up 1 bar	MA6302-...*2
gauge connection	made of brass, extension G $\frac{1}{4}$ a-G $\frac{1}{4}$ i	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, C01 = 0...1 bar, 04 = 0...4 bar, 06 = 0...6 bar

Gauges: see chapter for measuring devices

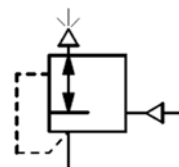
PDF CAD
www.aircom.net

* Product group



Order example:
DBC-04N

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	max. 17 bar	Pilot pressure	0 ... 10 bar
Accuracy	1% at 7 bar pilot pressure	Response sensitivity	1 mbar
Adjustment	depending on the level of signal pressure the response value will change accordingly		
Gauge port	1/4" NPT on both sides of the body, screw plugs supplied	Mounting position	any
Temperature range	0 °C to 90 °C / 32 °F to 194 °F, for appropriately conditioned compressed air down to -40 °C / -40 °F		
Material	Body: aluminium die casting O-rings: NBR/Buna-N, optionally FKM Elastomer: NBR/Buna-N Inner valve: brass and zinc-plated steel		



**G1/4 up to G1/2, 1700 l/min
0... 10 bar**

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

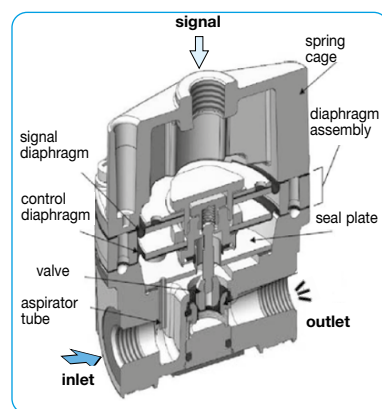
Back pressure regulator, pilot-operated						pilot pressure overpressure	0...10 bar max. 17 bar	DB208
76	98	24	1700	17	0... 10	G1/4		DB208-02
						G3/8		DB208-03
						G1/2		DB208-04



DB208

Special options, add the appropriate letter

NPT	connection thread	DB208-0.N
FKM elastomer		DB208-0.V

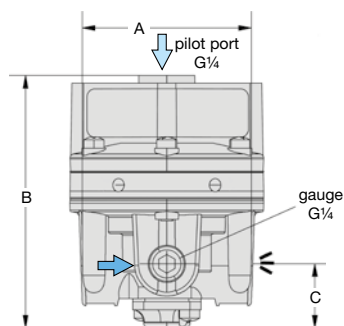


cross-section

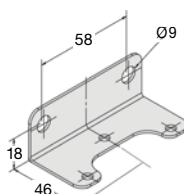
Accessories, enclosed

pressure gauge	Ø 50 mm, 0...*2 bar, G1/4	MA5002-...*2
gauge connection	made of brass, adapter 1/4" NPT - G1/4 female	AM-06
mounting bracket	made of steel	BW00-34

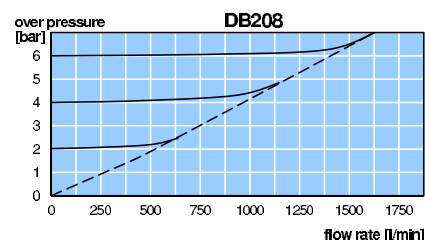
Back pressure



DB208



BW00-34



*1 at 7 bar inlet pressure and open outlet
*2 02 = 0...2.5 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar

Gauges: see chapter for measuring devices

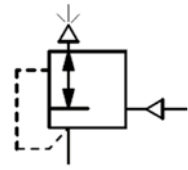
PDF CAD
www.aircom.net

* Product group



Order example:
DB208-02

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	max. 17 bar	Pilot pressure	0 ... 10 bar
Accuracy	3% at 7 bar pilot pressure	Response sensitivity	2.5 mbar
Adjustment	depending on the level of signal pressure the response value will change accordingly		
Gauge port	¼" NPT on both sides of the body, screw plugs supplied	Mounting position	any
Temperature range	0 °C to 90 °C / 32 °F to 194 °F, for appropriately conditioned compressed air down to -40 °C / -40 °F		
Material	Body: aluminium die casting O-rings: NBR/Buna-N, optionally FKM	Elastomer: NBR/Buna-N Inner valve: brass and aluminium	



**G^{3/8} up to G^{3/4}, 3500 l/min
0... 10 bar**

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

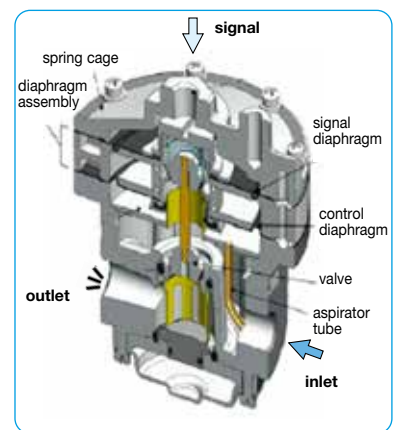
Back pressure regulator, pilot-operated						pilot pressure overpressure	0...10 bar max. 17 bar	DB450
87	129	40	3500	17	0...10	G $\frac{3}{8}$	DB450-03	
						G $\frac{1}{2}$	DB450-04	
						G $\frac{3}{4}$	DB450-06	



DB450

Special options, add the appropriate letter

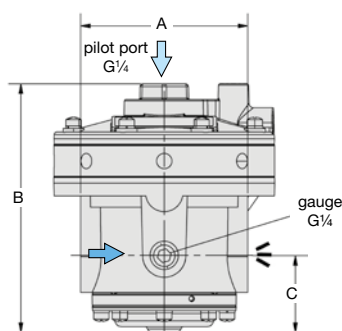
NPT	connection thread	DB450-0. N
FKM elastomer		DB450-0. V



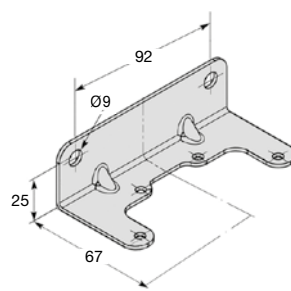
cross-section

Accessories, enclosed

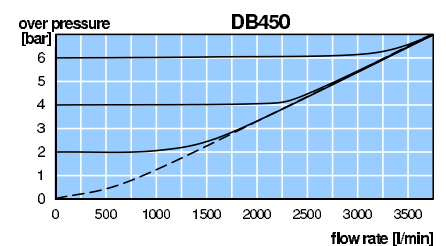
pressure gauge	Ø 63 mm, 0...*2 bar, G ^{1/4}	MA6302-..*2
gauge connection	made of brass, adapter ¼" NPT - G ^{1/4} female	AM-06
mounting bracket	made of steel	BW00-47



DB450



BW00-47



*1 at 6 bar inlet pressure and open outlet

*2 02 = 0...2.5 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar

* Product group

