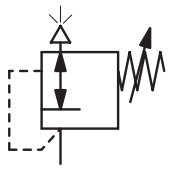
BACK PRESSURE REGULATOR

	DESCRIPTION	OVERPRESSURE max. bar	ADJUSTMENT RANGE bar	CONNECTION	SERIES	PAGE
STANDARD	aluminium	30	0.2 ... 1.5 / 15	G⅛ - G2	DBC	**8.02**
	brass	65	0.2 ... 1.5 / 50	G⅛ - G2	DBM	**8.04**
	- 40 °C	65	0.2 ... 1.5 / 50	G¼ - G2	DBM-X51	**8.05**
	+130 °C	65	0.2 ... 1.5 / 50	G¼ - G1	DBM-X54	**8.05**
PRECISE	high-precision	35	0.01 ... 0.14 / 28	G¼ - G½	10BP	**8.06**
	ree of non-ferrous metal	35	0.01 ... 0.14 / 28	G¼ - G½	10BP-X63	**8.06**
	aluminium	17	0.01 ... 0.14 / 10	G¼ - ½″NPT	DB240	**8.07**
	aluminium	10	0.001 ... 0.14 / 7	G¼ u.G⅜	DB300	**8.09**
	aluminium	17	0.03 ... 0.7 / 10	G⅜ - G¾	DB400	**8.10**
LOW PRESSURE	precise	10	0.002 ... 0.035 / 0,8	G¼ - G½	DB110	**8.08**
	precise	6	0.005 ... 0.045 / 3	G½ - G2	DBC	**8.11**
HIGH PRESSURE	precise	1034	0.35 ... 35 / 1034	⅛″NPT-½″NPT	DB26	**8.14**
PILOT-OPERATED	precise	17	0 ... 10	G¼ - G½	DB208	**8.12**
	precise	17	0 ... 10	G⅜ - G¾	DB450	**8.13**
STAINLESS STEEL	für viele Gase, auch FDA	65	0.1 ... 1.5 / 50	G⅛ - G2	D3000	15.22
	- 40 °C	65	0.2 ... 1.5 / 50	G¼ - G2	D3000-X51	15.25
	+130 °C	65	0.1 ... 1.5 / 50	G¼ - G2	D3000-X54	15.25
	Niederdruck	6	0.005 ... 0.045 / 3	G½ - G2	D3100	15.26



8

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	G⅛ 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 O-rings: NBR/Buna-N, optionally FKM or EPDM Diaphragm: NBR/Buna-N with PTFE coating Inner valve: brass



G⅛ up to G2
0.1 ... 1.5/15 bar

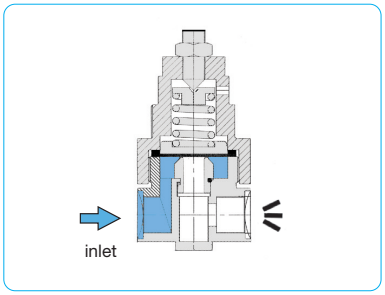
Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	Relief capacity l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range bar	Order number	D*
Aluminium back pressure regulator				overpressure max. 30 bar				**DBC**	
40	78	13	D	200	30	G⅛	0.2 ... 1.5	**DBC-01A**	
							0.3 ... 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	G⅜	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**	



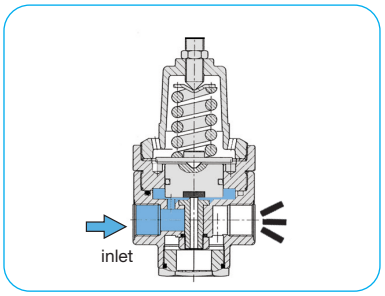
DBC-01/-A2



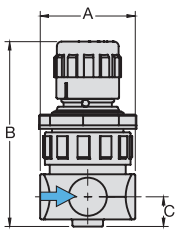
DBC-04



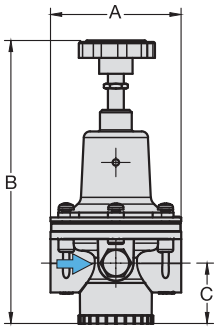
cross-section with diaphragm (D)



cross-section with piston (P)



DBC-01/-A2



DBC-02/-03/-04

*1 at 7 bar overpressure and open outlet

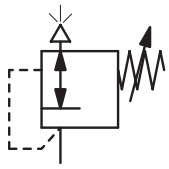
* Product group

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

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	G⅛ 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 O-rings: NBR/Buna-N, optionally FKM or EPDM Diaphragm: NBR/Buna-N with PTFE coating Inner valve: brass

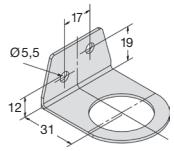


G⅛ up to G2
0.1 … 1.5/15 bar

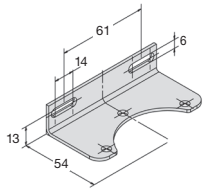
Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	Relief capacity l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range bar	Order number	D*
Aluminium back pressure regulator				overpressure max. 30 bar				**DBC**	
174	283	35	P	25000	30	G1½	0.2 … 1.5	**DBC-12A**	
							0.3 … 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**	



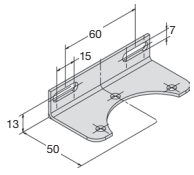
DBC-12/-16
accessory pressure gauge



BW30-02



BW00-44



BW00-63S

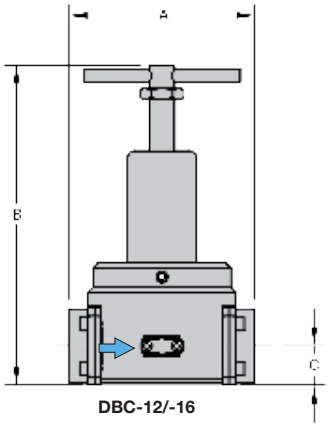
Special options, add the appropriate letter

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.**

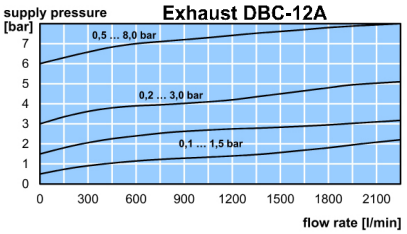
Accessories, enclosed

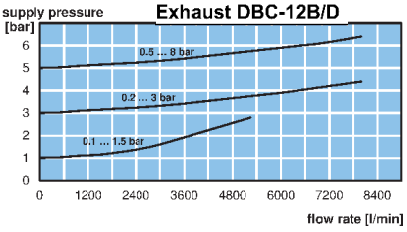
B*

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 G⅛	and G¼ (A2)	**BW30-02**
mounting nut	made of aluminium	for G⅛	and G¼ (A2)	**M30x1,5A**
mounting bracket	made of steel	for G¼ (02)	to G½	**BW00-44**
mounting bracket	made of stainless steel	for G1½	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

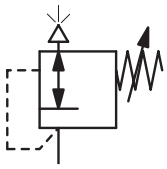
* Product group

Gauges: see chapter for measuring devices

PDF CAD
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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 **Overpressure** see chart, max. 70 bar
Adjustment	by black plastic knob with snap-lock for DBM-02/-03 by T-handle with locknut for DBM-04 to -16
Gauge port	G¼ on both sides of the body, from DBC-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 O-rings: FKM, optionally EPDM Diaphragm: NBR/Buna-N with PTFE coating Inner valve: brass Spring cover: Brass for DMB-02 to -04, aluminum for DBM-06 to -16



G⅛ up to G2
0.1…1.5/50 bar

Dimensions A mm	B mm	C mm	Regul. system D: diaphragm P: piston	Relief capacity l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range bar	Order number	D*
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	G⅜	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**	



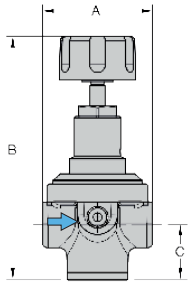
DBM-02/-03



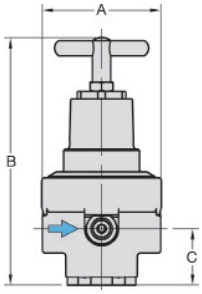
DBM-04



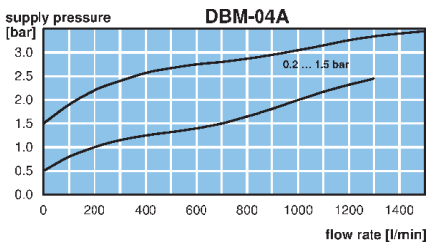
DBM-06/-08

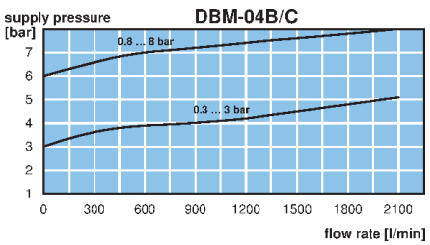


DBM-02/-03



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

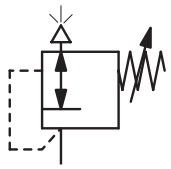
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
DBM-02A

BRASS BACK PRESSURE REGULATOR, UP TO 50 BAR — DBM

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 **Overpressure** see chart, max. 70 bar
Adjustment	by spindle with locknut for DBM-01 by black plastic knob with snap-lock for DBM-02/-03 by T-handle with locknut for DBM-04/-08 by hexagonal spindle (spanner size 24 mm) with locknut for DBM-12/-16
Gauge port	G¼ on both sides of the body, from DBC-02 on G⅛ at DBM-01, 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 O-rings: FKM, optionally EPDM Diaphragm: NBR/Buna-N with PTFE coating Inner valve: brass Spring cover: Brass for DMB-02 to -04, aluminum for DBM-06 to -16



G⅛ up to G2
0.1…1.5/50 bar

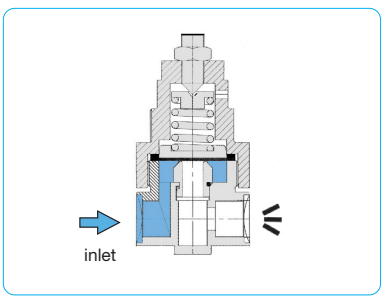
Dimensions A mm	B mm	C mm	Regul. system **D:** diaphragm **P:** piston	Relief capacity l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range bar	Order number
Brass back pressure regulator					overpressure max. 30/65 bar			**DBM**
174	283	35	P	28 000	70	G1½	0.2…1.5	**DBM-12A**
							0.3…3.0	**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	28 000	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**



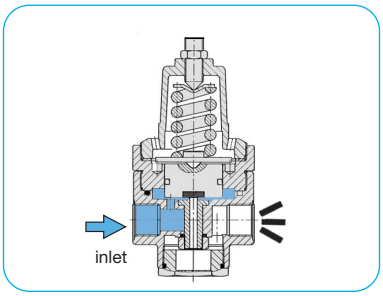
DBM-12/-16

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-02 / -03 only		DBM-0 . . **T**
nitrogen	N_2:	**07**	**carbon dioxide**	CO_2:	**03**	**argon**	Ar:	DBM-. . . **05**
helium	He:	**09**	**hydrogen**	H_2:	**11**	**methane**	CH_4:	DBM-. . . **13**
oxygen	O_2:	**15**	**propane**	C_3H_8:	**16**	**nitrous oxide**	N_2O:	DBM-. . . **17**
						water	H_2O:	DBM-. . . **W**
flange connection	according to EN-1092-1 or ASME B16.5 on request							DBM-. . . **F.**



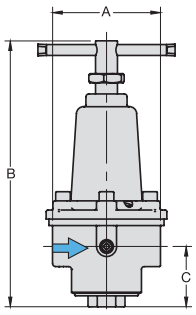
cross-section with diaphragm (D)



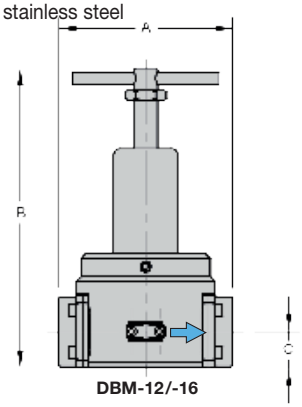
cross-section with piston (P)

Accessories, enclosed

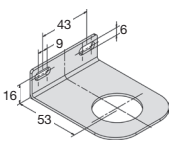
pressure gauge	Ø 50 mm, 0…*2 bar, G¼	for G¼ and G½	**MA5002-..*2**
	Ø 63 mm, 0…*2 bar, G¼	for G¾ to G2	**MA6302-..*2**
	Ø 50 / Ø 63 mm, 0…25 bar, G¼	für G¼ bis G2	**MA . . 02-25**
	Ø 50 / Ø 63 mm, 0…60 bar, G¼	für G¼ bis G2	**MA . . 02-60**
mounting bracket	made of stainless steel	for G¼ and G⅜	**BW35-01S**
mounting nut	made of stainless steel	for G¼ and G⅜	**M35x1,5S**
mounting bracket	made of stainless steel	for G½	**BW50-01S**
mounting nut	made of stainless steel	for G½	**M50x1,5S**
mounting bracket	made of steel	for G¾ and G1	**BW00-42**
set of mount. brackets	made of stainless steel	for G1½ and G2	**BW00-63S**



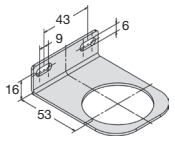
DBM-06/-08



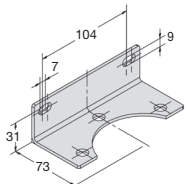
DBM-12/-16



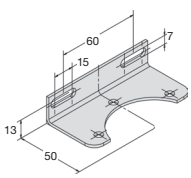
BW35-01S



BW50-01S



BW00-42



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

* Product group

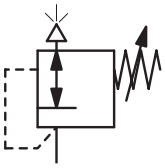
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example: DBM-12A

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

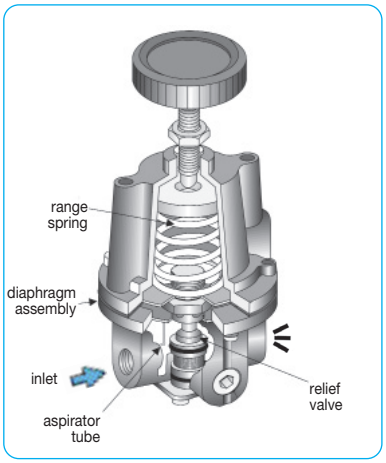
Description	The back pressure regulator is a high-flow, high-precision pneumatic relief valve with adjustable setpoint. It provides protection against overpressure in the downstream section of pneumatic systems. A convoluted diaphragm provides the sensitivity for venting to the atmosphere in response 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	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, 1200 l/min
10…140 mbar/28 bar



Modell 10BP



cross section

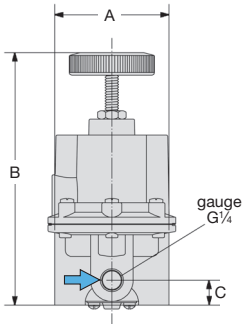
Dimensions A mm	B mm	C mm	Relief capacity l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range bar	Order number	D*
Precision back pressure regulator				overpressure max. 21/35 bar			**Model 10BP**	
67	162	19	1200	21	G¼	0.01… 0.14	**10212BPH**	
						0.01… 0.7	**10222BPH**	
						0.01… 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**	

Special options, add the appropriate letter

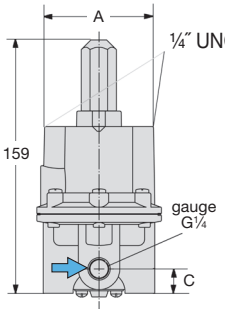
G⅜	connection thread	102.**3**BPH
G½	connection thread, recommended for mbar range	102.**4**BPH
NPT	connection thread	102.2BP
FKM elastomer		102. .BP.**J**
no yellow metals	FKM elastomer	102. .BP.**X63**
tamper-proof cap	aluminium, adjustment by screwdriver, total height 159 mm	102. .BP.**T**

Accessories, enclosed B*

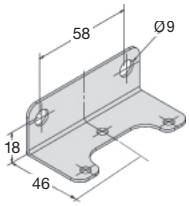
pressure gauge	Ø 50 mm, 0…*2 bar, G¼	**MA5002-..*2**
	Ø 50 mm, 0… 25 bar, G¼	**MA5002-25**
	Ø 50 mm, 0… 60 bar, G¼	**MA5002-60**
	Ø 63 mm, 0…160 mbar, G¼	**MA6302-C2**
mounting bracket	made of steel	**BW00-34**
gauge connector	made of brass, adapter ¼″ NPT - G¼ female	**AM-06**



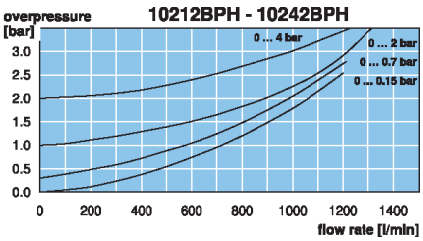
10BP

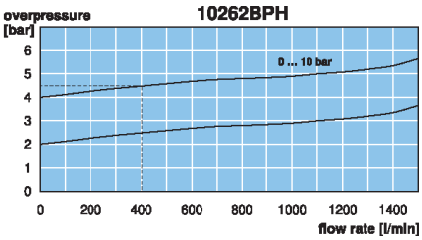


10BP with tamper-proof cap



BW00-34





*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

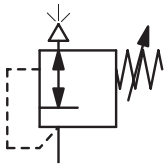
* Product group

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

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	G¼ 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



G¼ / ¼″ up to ½″ NPT
10…140 mbar/10 bar

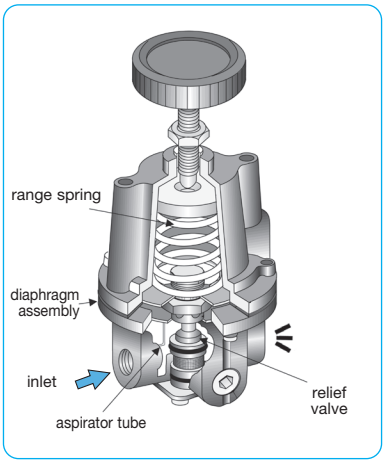
Dimensions A mm	B mm	C mm	Relief capacity l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range bar	Order number	D*
Precision back pressure regulator				**overpressure max. 17 bar**			**DB240**	
67	154	19	1100	17	G¼	0.01… 0.14	**DB240-020**	
						0.01… 1.0	**DB240-02A**	
						0.01… 2.0	**DB240-02B**	
						0.07… 4.0	**DB240-02C**	
						0.14… 10	**DB240-02D**	



DB240

Special options, add the appropriate letter

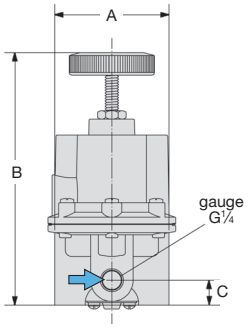
¼″ NPT	connection thread	DB240-0**2** . **N**
⅜″ NPT	connection thread	DB240-0**3** . **N**
½″ NPT	connection thread, recommended for mbar range	DB240-0**4** . **N**
tamper-proof cap	aluminium, adjustment by screwdriver, total height 157 mm	DB240-0 . . **T**



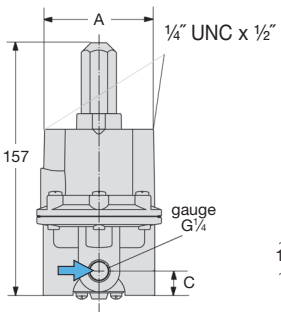
cross-section

Accessories, enclosed B*

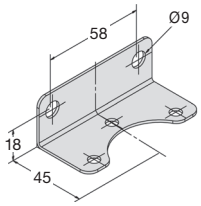
pressure gauge	Ø 50 mm, 0…*2 bar,	G¼, Bourdon tube, from 1 bar on	**MA5002-..*2**
	Ø 63 mm, 0…160 mbar,	G¼, capsule type	**MA6302-C2**
mounting bracket	made of steel		**BW00-33**



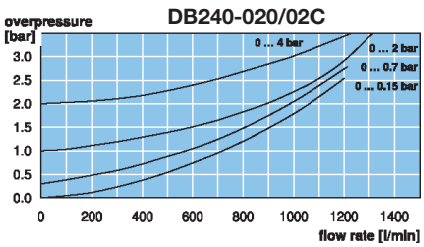
DB240

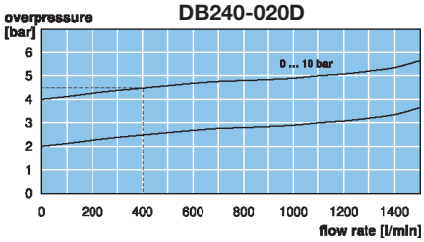


DB240-...T with tamper-proof cap



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

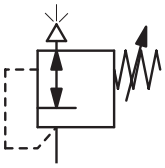
* Product group

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

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

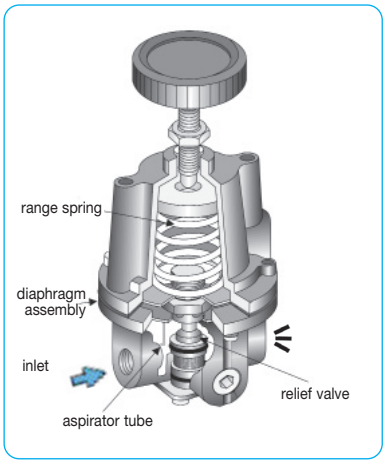
Dimensions A mm	B mm	C mm	Relief capacity l/min*1	Over-pressure max. bar	Connection thread G	Adjustement range mbar	Order number D*
Low back pressure regulator				overpressure max. 4 bar			**DB110**
67	180	25	700	4	G¼	2… 35	**DB110-020**
						2… 140	**DB110-02A**
						2… 280	**DB110-02B**
						2… 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

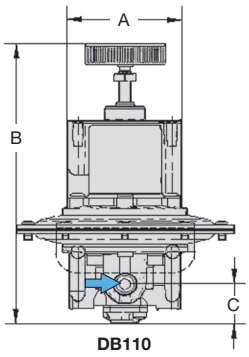
G⅜	connection thread	DB110-0**3**.
NPT	connection thread	DB110-0**..N**
FKM elastomer		DB110-0**..V**
tamper-proof cap	aluminium, adjustment by screwdriver, total height 183 mm	DB110-0**..T**



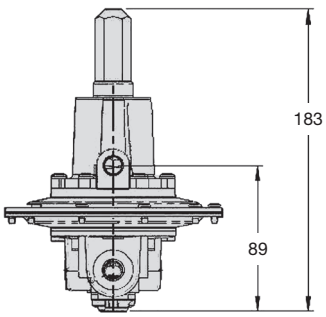
functional principle

Accessories, enclosed B*

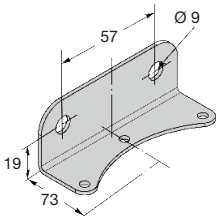
pressure gauge	Ø 63 mm, 0…*2 mbar, G¼, capsule type	**MA6302-..*2**
	Ø 63 mm, 0… 1 bar, G¼, Bourdon tube	**MA6302-01**
connecting part gauge	made of brass adapter ¼˝ NPT - G¼i	**AM-06**
mounting bracket	made of steel	**BW00-58**



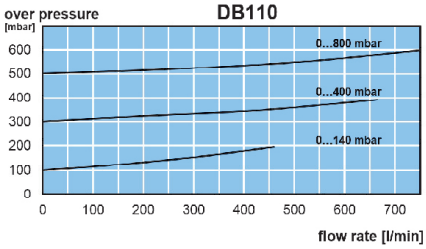
DB110



with tamper-proof cap



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

* Product group

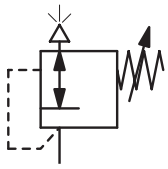
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
DB110-020

PRECISION BACK PRESSURE REGULATOR, SMALL AND LIGHTWEIGHT DB300

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	G⅛ 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

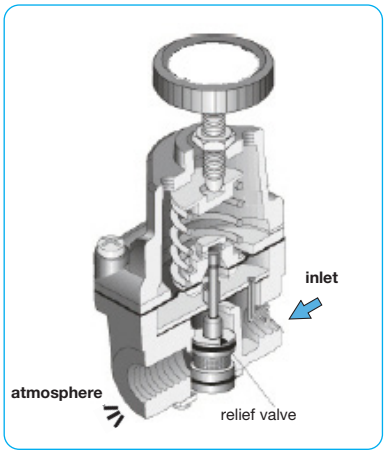


G¼ and G⅜, 1100 l/min
0...0.14/7 bar

Dimensions A mm	B mm	C mm	Relief capacity l/min*1	Over-pressure max. bar	Connection thread G	Adjustement range mbar	Order number	D*
Precision back pressure regulator				overpressure max. 10 bar			**DB300**	
57	126	19	1100	10	G¼	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	G⅜	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



cross-section

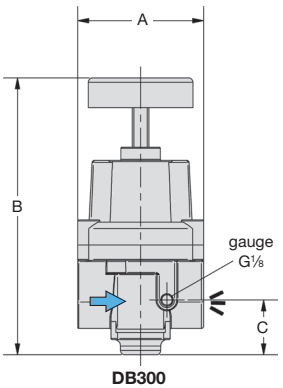
Special options, add the appropriate letter

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**

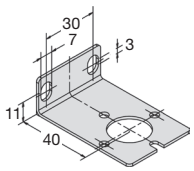
Accessories, enclosed

B*

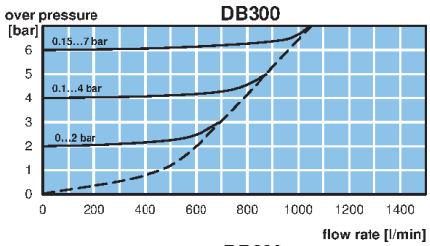
pressure gauge	Ø 63 mm, 0... 160 mbar, G¼ - connecting parts required		**MA6302-C2**
	Ø 50 mm, 0...*2 bar, G⅛		**MA5001-..*2**
connecting parts gauge	made of brass, adapter G⅛a - G¼i	for MA6302-C2	**AM-04**
mounting bracket	made of steel		**BW00-46**

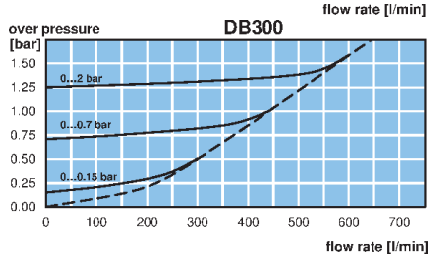


DB300



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

* Product group

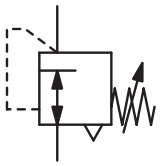
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
DB300-020

Back pressure 8

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	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, brass, aluminium and cadmium-plated steel

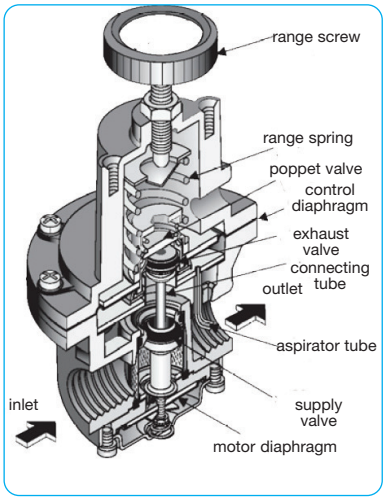


G⅜ up to G¾, 4200 l/min
0.03 … 0.7/10 bar



DB400

Dimensions A mm	B mm	C mm	Relief capacity l/min*1	Over-pressure max. bar	Connection thread G	Adjustement range bar	Order number	D*
Precision back pressure regulator				overpressure max. 17 bar			**DB400**	
89	206	39	3800	17	G⅜	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	G½	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	G¾	0.03 … 0.7	**DB400-061**	
						0.03 … 2.0	**DB400-06A**	
						0.07 … 4.0	**DB400-06B**	
						0.15 … 10	**DB400-06C**	



cross-section

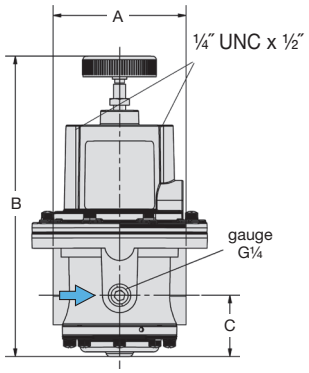
Special options, add the appropriate letter

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**

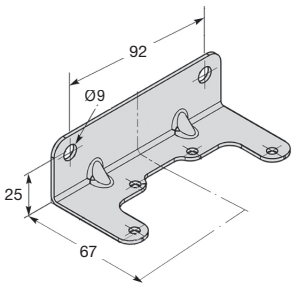
Accessories, enclosed

B*

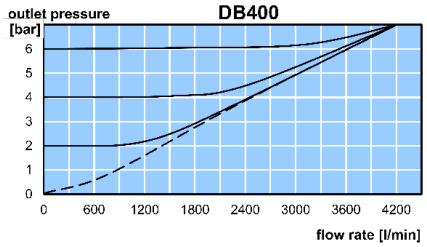
pressure gauge	Ø 63 mm, 0…*2 bar, G¼	**MA6302-..*2**
gauge connection	made of brass, adapter ¼″ NPT - G¼ female	**AM-06**
mouting bracket	made of steel	**BW00-47**



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

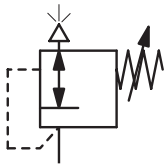
* Product group

Gauges: see chapter for measuring devices

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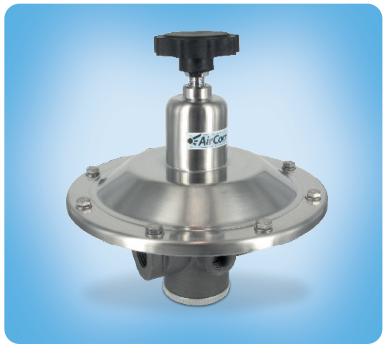
Order example:
DB400-031

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	G¼ 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

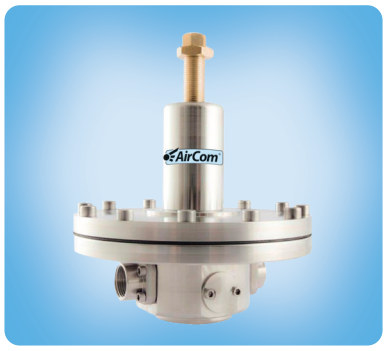


G½ up to G2
5…45/3000 mbar

Dimensions A mm	B mm	C mm	Relief capacity l/min*1	Over-pressure max. bar	Connection thread G	Adjustment range mbar	Order number	D*
Aluminium back pressure regulator NBR/Buna-N with PTFE coating							**DBC**	
82	186	38	300	6	G½	5… 45	**DBC-04N**	
			500			20… 200	**DBC-04P**	
			1000			150… 700	**DBC-04Q**	
161	290	45	1300	6	G¾	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	G1¼	50… 300	**DBC-10P**	
			2300			100… 700	**DBC-10Q**	
			5000			200…1200	**DBC-10R**	
265	290	45	1300	6	G1½	50… 300	**DBC-1AP**	
			2300			100… 700	**DBC-1AQ**	
			5000			200…1200	**DBC-1AR**	
192	444	128	2500	6	G1½	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**	



DBC-04



DBC-06/-08



DBC-12/-16

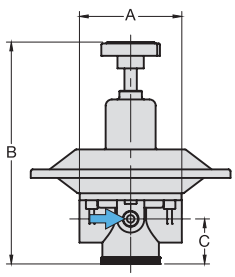
Special options, add the appropriate letter

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.**

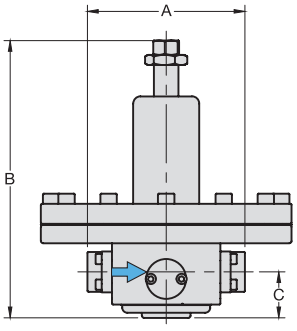
Accessories, enclosed

B*

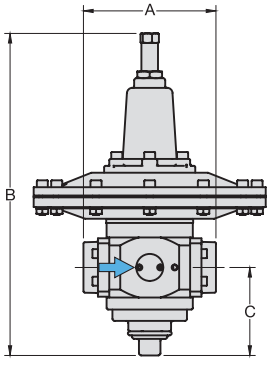
pressure gauge	Ø 63 mm, 0…*2 mbar, G¼, capsule type,	up to 400 mbar	**MA6302-..*2**
	Ø 63 mm, 0…*2 bar, G¼, Bourdon tube,	up 1 bar	**MA6302-..*2**
gauge connection	made of brass, extension G¼a-G¼i		**AM-01**
mouting bracket	made of stainless steel	for G½	**BW00-26S**



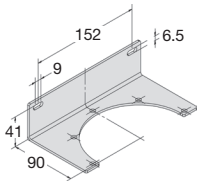
DBC-04



DBC-06/-08/-10/-1A



DBC-12/-16



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

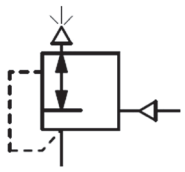
* Product group

Gauges: see chapter for measuring devices

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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
Accurcay	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	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: Inner valve:	NBR/Buna-N brass and zinc-plated steel



G¼ up to G½, 1700 l/min
0…10 bar

Dimensions A mm	B mm	C mm	Relief capacity l/min*1	Over-pressure max. bar	Adjustment range bar	Connection thread G	Order number	D*
76	98	24	1700	17	0…10	G¼	**DB208-02**	
						G⅜	**DB208-03**	
						G½	**DB208-04**	

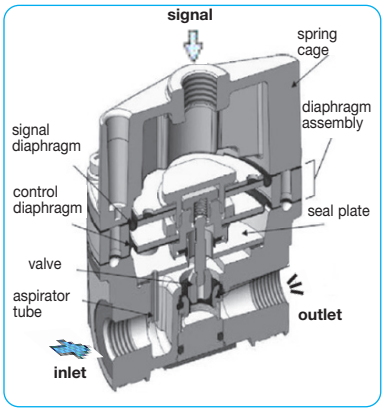
Back pressure regulator, pilot-operated

pilot pressure 0...10 bar
overpressure max. 17 bar

DB208



DB208



cross-section

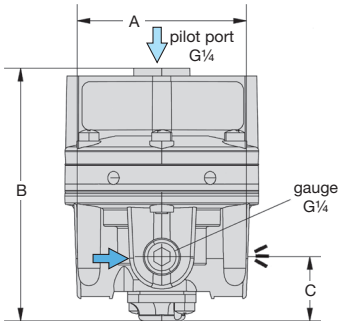
Special options, add the appropriate letter

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

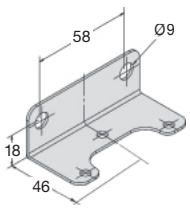
Accessories, enclosed

B*

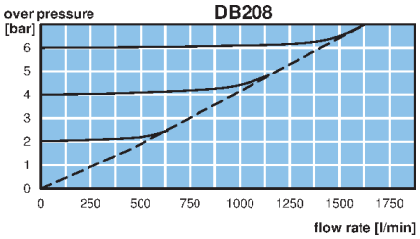
pressure gauge	Ø 50 mm, 0…*2 bar, G¼	**MA5002-…*2**
gauge connection	made of brass, adapter ¼˝ NPT - G¼ female	**AM-06**
mounting bracket	made of steel	**BW00-34**



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

* Product group

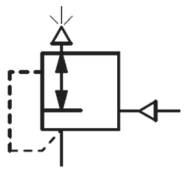
Gauges: see chapter for measuring devices

PDF CAD
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Order example:
DB208-02

PRECISION BACK PRESSURE REGULATOR, PILOT-OPERATED DB450

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
Accurcay	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	

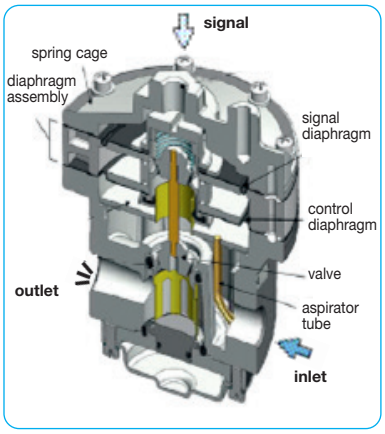


G⅜ up to G¾, 3500 l/min
0…10 bar

Dimensions A mm	B mm	C mm	Relief capacity l/min*1	Over-pressure max. bar	Adjustment range bar	Connection thread G	Order number	D*
Back pressure regulator, pilot-operated pilot pressure 0...10 bar overpressure max. 17 bar							**DB450**	
87	129	40	3500	17	0…10	G⅜	**DB450-03**	
						G½	**DB450-04**	
						G¾	**DB450-06**	



DB450



cross-section

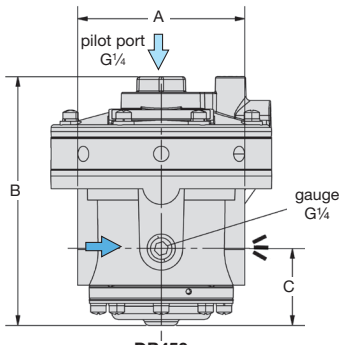
Special options, add the appropriate letter

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

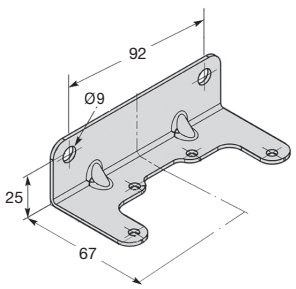
Accessories, enclosed

B*

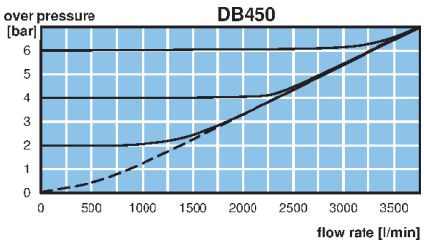
pressure gauge	Ø 63 mm, 0…*2 bar, G¼	**MA6302-..*2**
gauge connection	made of brass, adapter ¼" NPT - G¼ female	**AM-06**
mounting bracket	made of steel	**BW00-47**



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

Gauges: see chapter for measuring devices

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Order example:
DB450-03

Back pressure 8