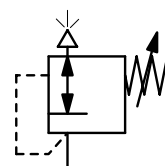


Description	Back pressure regulators protect pneumatic devices against overpressure. If the pressure exceeds the setpoint, the pressure valve exhausts to the atmosphere until the pressure level is below the setpoint. It is advisable to select the pressure range as near as possible to the maximum setpoint.		
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



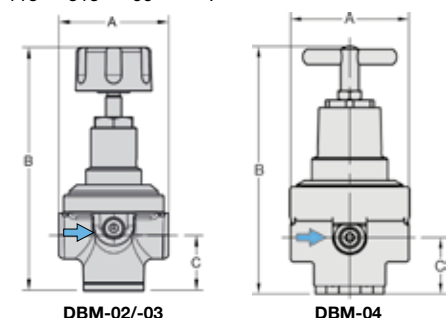
DBM-04



DBM-06/-08

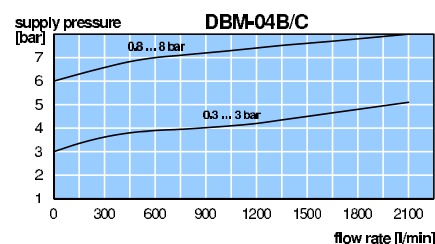
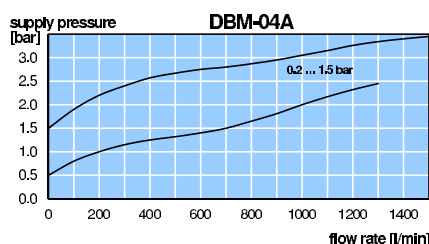


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DBM-02/-03

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

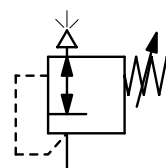
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net



Order example:
DBM-02A

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

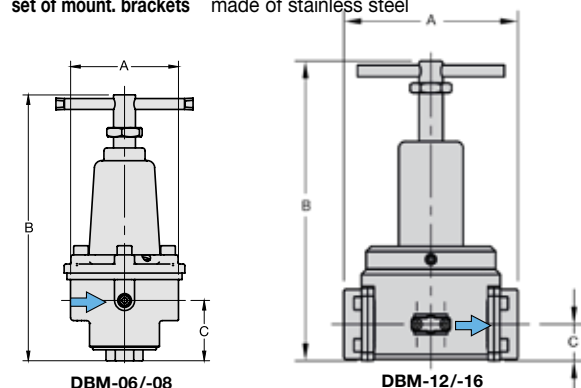
NPT	connection thread		DBM-... N
down to -40 °C / -40 °F	low temperature version		DBM-... X51
up to 130 °C / 266 °F	high temperature version		DBM-0... X54
EPDM o-ring	PTFE diaphragm		DBM-... E
T-handle	instead of knob		DBM-0... T
nitrogen	N ₂ : 07	carbon dioxide CO ₂ : 03	DBM-... 05
helium	He: 09	hydrogen 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

PDF CAD
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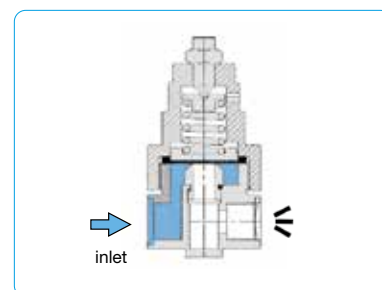
* Product group



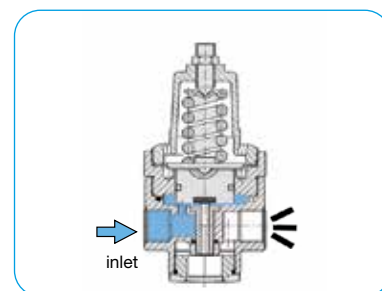
Order example:
DBM-12A



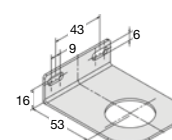
DBM-12/-16



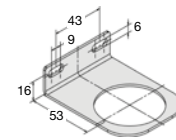
cross-section with diaphragm (D)



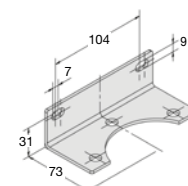
cross-section with piston (P)



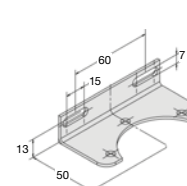
BW35-01S



BW50-01S



BW00-42



BW00-63S

