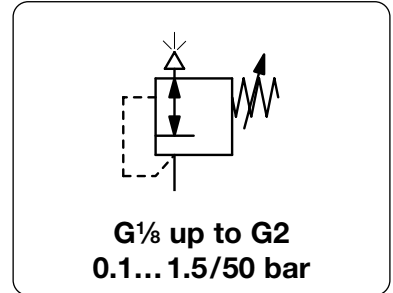


# BRASS BACK PRESSURE REGULATOR, UP TO 50 BAR

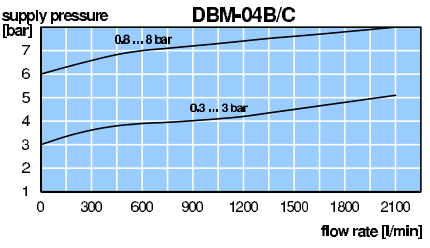
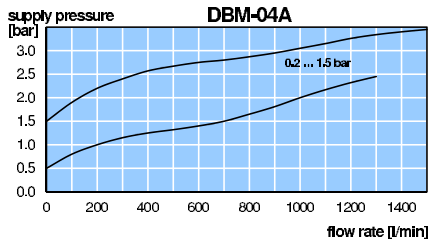
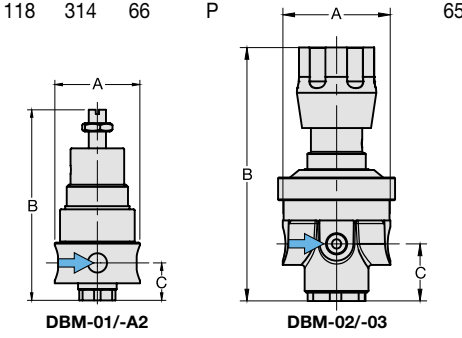
DBM

<b>Description</b>	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.		
<b>Media</b>	compressed air, non-corrosive gases or liquids		
<b>Adjustment</b>	by spindle with locknut for DBM-01	by black plastic knob with snap-lock for DBM-02	<b>Overpressure</b> see chart, max. 65 bar
<b>Gauge port</b>	by T-handle with locknut for DBM-04/-08	by hexagonal spindle (spanner size 24 mm) with locknut for DBM-12/-16	
<b>Temperature range</b>	G $\frac{1}{4}$ on both sides of the body, from DBC-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		
<b>Mounting position</b>	any		
<b>Material</b>	Body: brass	O-rings: FKM, optionally EPDM	
	Diaphragm: NBR/Buna-N with PTFE coating	Inner valve: brass	



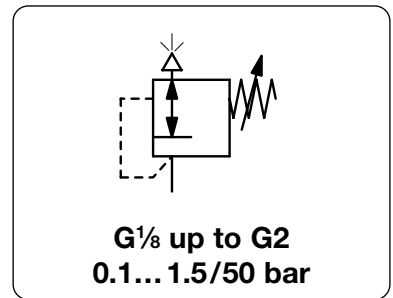
Dimensions			Regul. system	Relief capacity	Over-pressure	Connection thread	Adjustment range	Order number
A	B	C	D: diaphragm P: piston	l/min*1	max. bar	G	bar	

Brass back pressure regulator					overpressure max. 30/65 bar	DBM		
40	82	10	D	400	30	G $\frac{1}{8}$	0.2... 1.5	DBM-01A
							0.3... 3.0	DBM-01B
							0.8... 8.0	DBM-01D
							1.5... 15	DBM-01E
40	82	10	D	400	30	G $\frac{1}{4}$	0.2... 1.5	DBM-A2A
							0.3... 3.0	DBM-A2B
							0.8... 8.0	DBM-A2D
							1.5... 15	DBM-A2E
63	140	34	D	800	30	G $\frac{1}{4}$	0.2... 1.5	DBM-02A
							0.3... 3.0	DBM-02B
							0.8... 8.0	DBM-02D
							1.5... 15	DBM-02E
63	141	34	P		65		3.0... 30	DBM-02F
63	156	34					5.0... 50	DBM-02G
63	140	34	D	800	30	G $\frac{3}{8}$	0.2... 1.5	DBM-03A
							0.3... 3.0	DBM-03B
							0.8... 8.0	DBM-03D
							1.5... 15	DBM-03E
63	141	34	P		65		3.0... 30	DBM-03F
63	156	34					5.0... 50	DBM-03G
78	161	38	D	2500	30	G $\frac{1}{2}$	0.2... 1.5	DBM-04A
							0.3... 3.0	DBM-04B
							0.8... 8.0	DBM-04D
							1.5... 15	DBM-04E
78	157	38	P		65		3.0... 30	DBM-04F
							5.0... 50	DBM-04G
118	289	66	D	8000	30	G $\frac{3}{4}$	0.2... 1.5	DBM-06A
							0.3... 3.0	DBM-06B
							0.8... 8.0	DBM-06D
							1.5... 15	DBM-06E
118	314	66	P		65		3.0... 30	DBM-06F
							5.0... 50	DBM-06G
118	289	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	314	66	P		65		3.0... 30	DBM-08F
							5.0... 50	DBM-08G



\*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

<b>Description</b>	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.		
<b>Media</b>	compressed air, non-corrosive gases or liquids	<b>Overpressure</b>	see chart, max. 65 bar
<b>Adjustment</b>	by spindle with locknut for DBM-01 by T-handle with locknut for DBM-04/-08	by black plastic knob with snap-lock for DBM-02 by hexagonal spindle (spanner size 24 mm) with locknut for DBM-12/-16	
<b>Gauge port</b>	G $\frac{1}{4}$ on both sides of the body, from DBC-02 on	G $\frac{1}{2}$ at DBM-01, screw plugs supplied	
<b>Temperature range</b>	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		
<b>Mounting position</b>	any		
<b>Material</b>	Body: brass Diaphragm: NBR/Buna-N with PTFE coating	O-rings: FKM, optionally EPDM Inner valve: brass	



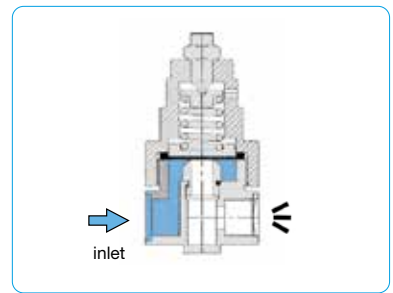
Dimensions			Regul. system	Relief capacity	Over-pressure	Connection thread	Adjustment range	Order number
A	B	C	D: diaphragm P: piston	l/min*1	max. bar	G	bar	

Brass back pressure regulator							overpressure max. 30/65 bar	DBM
180	385	128	D	25 000	30	G $\frac{1}{2}$	0.2... 1.5	<b>DBM-12A</b>
							0.3... 3.0	<b>DBM-12B</b>
							0.8... 8.0	<b>DBM-12D</b>
							1.5... 15	<b>DBM-12E</b>
180	400	128	P		65		3.0... 30	<b>DBM-12F</b>
							5.0... 50	<b>DBM-12G</b>
180	385	128	D	25 000	30	G2	0.2... 1.5	<b>DBM-16A</b>
							0.3... 3.0	<b>DBM-16B</b>
							0.8... 8.0	<b>DBM-16D</b>
							1.5... 15	<b>DBM-16E</b>
180	400	128	P		65		3.0... 30	<b>DBM-16F</b>
							5.0... 50	<b>DBM-16G</b>



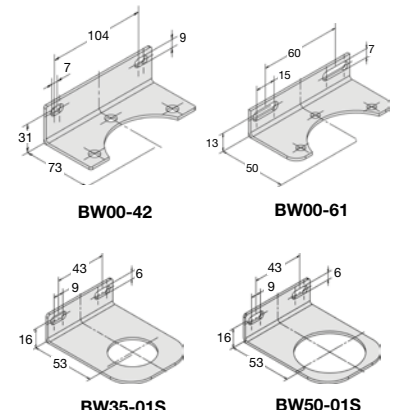
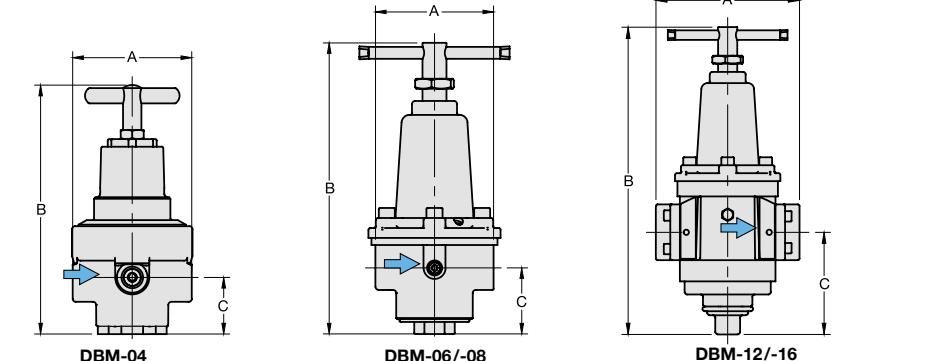
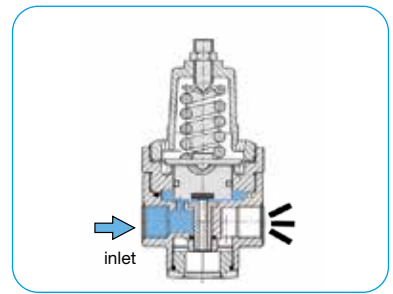
**Special options, add the appropriate letter**

<b>NPT</b>	connection thread	from G $\frac{1}{4}$ (02)	DBM-... N
<b>down to -40 °C / -40 °F</b>	low temperature version		DBM-... X51
<b>up to 130 °C / 266 °F</b>	high temperature version	up to DBM-04	DBM-0... X54
<b>EPDM o-ring</b>	PTFE diaphragm		DBM-... E
<b>T-handle</b>	instead of knob	DBM-02 only	DBM-02. T
<b>flange connection</b>	see chapter for stainless steel devices / flanges		DBM-... F.
<b>nitrogen</b>	N $_2$ : <b>07</b>	<b>carbon dioxide</b> CO $_2$ : <b>03</b>	<b>argon</b> Ar: DBM-... 05
<b>helium</b>	He: <b>09</b>	<b>hydrogen</b> H $_2$ : <b>11</b>	<b>methane</b> CH $_4$ : DBM-... 13
<b>oxygen</b>	O $_2$ : <b>15</b>	<b>propane</b> C $_3$ H $_8$ : <b>16</b>	<b>nitrous oxide</b> N $_2$ O: DBM-... 17
		<b>water</b> H $_2$ O:	DBM-... W



**Accessories, enclosed**

<b>pressure gauge</b>	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{1}{4}$ and G $\frac{1}{2}$	<b>MA5002-...*2</b>
	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{3}{4}$ to G2	<b>MA6302-...*2</b>
	Ø 50 / Ø 63 mm, 0...25 bar, G $\frac{1}{4}$	für G $\frac{1}{4}$ bis G2	<b>MA...02-25</b>
	Ø 50 / Ø 63 mm, 0...60 bar, G $\frac{1}{4}$	für G $\frac{1}{4}$ bis G2	<b>MA...02-60</b>
<b>mounting bracket</b>	made of stainless steel	for G $\frac{1}{4}$ and G $\frac{3}{8}$	<b>BW35-01S</b>
<b>mounting nut</b>	made of stainless steel	for G $\frac{1}{4}$ and G $\frac{3}{8}$	<b>M35x1,5S</b>
<b>mounting bracket</b>	made of stainless steel	for G $\frac{1}{2}$	<b>BW50-01S</b>
<b>mounting nut</b>	made of stainless steel	for G $\frac{1}{2}$	<b>M50x1,5S</b>
<b>mounting bracket</b>	made of steel	for G $\frac{3}{4}$ and G1	<b>BW00-42</b>
<b>set of mount. brackets</b>	made of steel	for G $\frac{1}{2}$ and G2	<b>BW00-61</b>



\*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