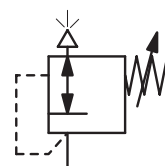


# Brass Back Pressure Regulator, up to 65 bar

DBN

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. 65 bar		
Adjustment	by spindle with locknut	for DBN-01	
	by black plastic knob with snap-lock	for DBN-02	
	by T-handle with locknut	for DBN-04 / -08	
	by hexagonal spindle (spanner size 24 mm) with locknut	for DBC-12 / -16	
Gauge port	G½ at DBN-01 on both sides of the body, G¼ from DBC-02 on, screw plugs supplied		
Temperature range	0 °C to 60 °C / 32 °F to 140 °F, optionally high temperature version up to 130 °C / 266 °F		
Material	Body: brass	O-rings:	NBR/Buna-N, optionally FKM or EPDM
	Inner valve: brass	Diaphragm:	NBR/Buna-N with PTFE coating



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

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

## Brass back pressure regulator

overpressure max. 30/65 bar

DBN

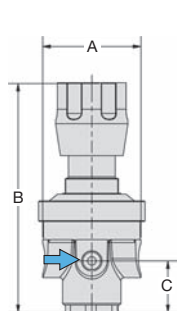
40	82	10	D	200	30	G $\frac{1}{8}$	0.1 ... 1.5 0.2 ... 3.0 0.5 ... 8.0 1.0 ... 15	DBN-01A DBN-01B DBN-01D DBN-01E
78	157	33	D	300	30	G $\frac{1}{4}$	0.1 ... 1.5 0.2 ... 3.0 0.5 ... 8.0 1.0 ... 15 2.0 ... 30 3.0 ... 50	DBN-02A DBN-02B DBN-02D DBN-02E DBN-02F DBN-02G
			P		65			
82	167	38	D	1800	30	G $\frac{1}{2}$	0.1 ... 1.5 0.2 ... 3.0 0.5 ... 8.0 1.0 ... 15 2.0 ... 30 3.0 ... 50	DBN-04A DBN-04B DBN-04D DBN-04E DBN-04F DBN-04G
			P		65			
127	275	69	D	4000	30	G $\frac{3}{4}$	0.1 ... 1.5 0.2 ... 3.0 0.5 ... 8.0 1.0 ... 15 2.0 ... 30 3.0 ... 50	DBN-A6A DBN-A6B DBN-A6D DBN-A6E DBN-A6F DBN-A6G
			P		65			
			D		30	G1	0,1 ... 1.5 0,2 ... 3.0 0,5 ... 8.0 1,0 ... 15 2,0 ... 30 3,0 ... 50	DBN-08A DBN-08B DBN-08D DBN-08E DBN-08F DBN-08G
			P		65			



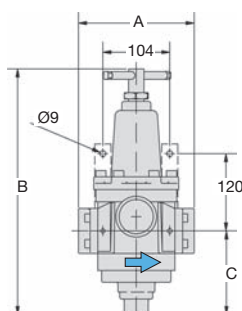
DBN-02D



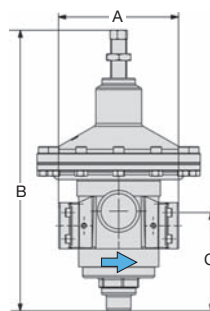
DBN-04D  
accessory: gauge



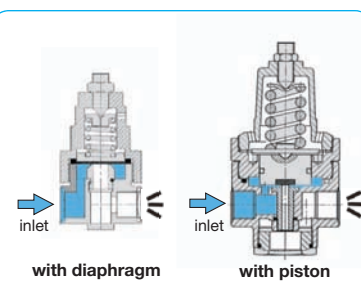
DBN-02



DBN-12/B6



DBN-16



cross section

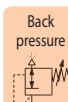
\*1 at 7 bar overpressure and open outlet

\*2 02 = 0...2.5 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar, 60 = 0...60 bar



Order example:  
DBN-01A

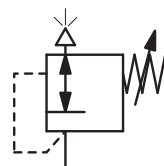
China website: [www.duray-control.cn](http://www.duray-control.cn)



# Brass Back Pressure Regulator, up to 50 bar

DBN

<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 DBN-01 by T-handle with locknut for DBN-04/-08	by black plastic knob with snap-lock for DBN-02 by hexagonal spindle (spanner size 24 mm) with locknut for DBN-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 DBN-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	



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

Dimensions	Reg. 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	

Back pressure regulator							made of brass, overpressure max. 30 bar	DBN
210	323	52	D	12 000	30	G $\frac{1}{2}$	0.1 ... 1.5	DBN-12A
							0.2 ... 3.0	DBN-12B
							0.5 ... 8.0	DBN-12D
							1.0 ... 15	DBN-12E
			P		65		2.0 ... 30	DBN-12F
							3.0 ... 50	DBN-12G
			D		30	G2	0.1 ... 1.5	DBN-B6A
							0.2 ... 3.0	DBN-B6B
							0.5 ... 8.0	DBN-B6D
							1.0 ... 15	DBN-B6E
			P		65		2.0 ... 30	DBN-B6F
							3.0 ... 50	DBN-B6G



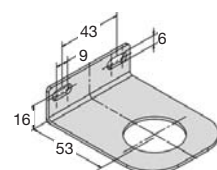
DBN-08D

## Special options, add the appropriate letter

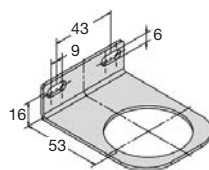
<b>NPT</b>	connection thread		DBN-...N
down to -40 °C / -40 °F	low temperature version		DBN-...X51
up to 130 °C / 266 °F	high temperature version		DBN-0...X54
<b>EPDM o-ring</b>	PTFE diaphragm		DBN-...E
<b>T-handle</b>	instead of knob		DBN-02.T
<b>flange connection</b>	see chapter for stainless steel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

## Accessories, enclosed

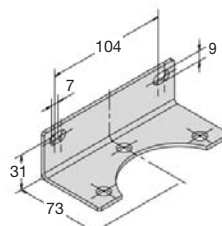
<b>pressure gauge</b>	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$ on the back	for G $\frac{1}{4}$ and G $\frac{1}{2}$	<b>MA5002-...*</b>
<b>pressure gauge</b>	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$ on the back	for G $\frac{3}{4}$ up to G2	<b>MA6302-...*</b>
<b>mounting bracket</b>	made of stainless steel	for G $\frac{1}{4}$	<b>BW35-01S</b>
<b>mounting nut</b>	made of stainless steel	for G $\frac{1}{4}$	<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>
		for G1 $\frac{1}{2}$ and G2	<b>BW00-43</b>



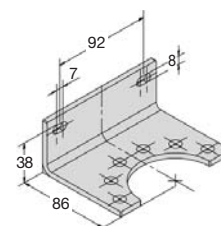
BW35-01S



BW50-01S



BW00-42



BW00-43

\*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, 60 = 0...60 bar



Order example:  
DBN-12A

China website: www.duray-control.cn