

**Description** Low-cost zinc die-cast regulator of solid design and diaphragm operating system up to G $\frac{1}{2}$ . From G $\frac{3}{4}$  on with piston operating system. Suitable for compressed air or non-corrosive gases.

**Supply pressure** max. 16 bar for metal bowl with sight glass

**Adjustment** by knob with snap-lock up to G $\frac{1}{2}$ , by hexagon head screw from G $\frac{3}{4}$  up to G1 $\frac{1}{2}$  (BD-1A), by T-handle from G1 $\frac{1}{2}$  (BD-12.) up to G2

**Gauge port** G $\frac{1}{4}$  on both sides of the body, G $\frac{1}{8}$  on both sides of the body at BD-01/02, one screw plug supplied

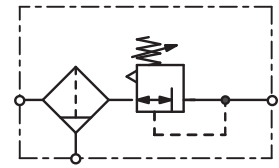
**Filter element** 50  $\mu$ m, optionally 5  $\mu$ m, made of propylene

**Bowl** plastic version, standard or short, metal version with or without sight glass

**Drainage** semiautomatic drain as standard for max. 16 bar, respectively manual drain max. 30 bar, automatic drain max. 16 bar as option

**Temperature range** -10 °C to 50 °C / 14 °F to 122 °F for metal bowl with sight glass, for G $\frac{1}{8}$  up to G $\frac{1}{2}$  -20 °C to 60 °C / -4 °F to 140 °F for metal bowl with sight glass, for G $\frac{3}{4}$  up to G2 -30 °C to 80 °C / -22 °F to 176 °F for metal bowl without sight glass, for all sizes

**Material** Body: zinc die-cast at G $\frac{1}{8}$  and G $\frac{1}{4}$ , aluminium at G $\frac{3}{8}$  to G2  
Elastomer: NBR/Buna-N  
Bowl: zinc die-cast



**G $\frac{1}{8}$  up to G2**  
**5/50  $\mu$ m, up to 30 bar**

Dimensions			Bowl	Flow	P <sub>1</sub>	Filter	Connection	Order
A	B	C	Design	Capacity	rate	element	thread	number
mm	mm	mm	made of/with	l	m <sup>3</sup> /h*1 l/min*1	$\mu$ m	G	

Filter pressure regulator										
with semiautomatic drain, relieving, without pressure gauge, pressure range 0.5...8 bar										
									BD	
40	201	128	metal/sight glass	0.05	27	450	16	50	G $\frac{1}{8}$	BD-01M BD-01NH
			metal	0.05			30			
40	201	128	metal/sight glass	0.05	30	500	16	50	G $\frac{1}{4}$	BD-02M BD-02NH
			metal	0.05			30			
64	248	148	metal/sight glass	0.18	108	1800	16	50	G $\frac{3}{8}$	BD-03M BD-03NH
			metal	0.18			30			
64	248	148	metal/sight glass	0.18			16		G $\frac{1}{2}$	BD-04M BD-04NH
			metal	0.18			30			
130	314	179	metal/sight glass	0.50	300	5000	16	50	G $\frac{3}{4}$	BD-06M BD-06NH
			metal	0.50			30			
130	314	179	metal/sight glass	0.50			16		G1	BD-08M BD-08NH
			metal	0.50			30			
241	314	179	metal/sight glass	0.50	390	6500	16	50	G1 $\frac{1}{4}$	BD-10M BD-10NH
			metal	0.50			30			
241	314	179	metal/sight glass	0.50			16		G1 $\frac{1}{2}$	BD-1AM BD-1ANH
			metal	0.50			30			



BD-01/-02  
Accessory: gauge



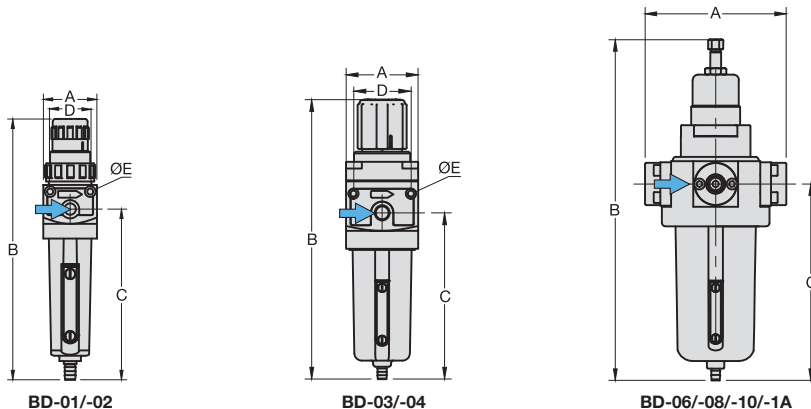
BD-03/-04  
Accessory: gauge



BD-06/-08/-10/-1A  
Accessory: gauge

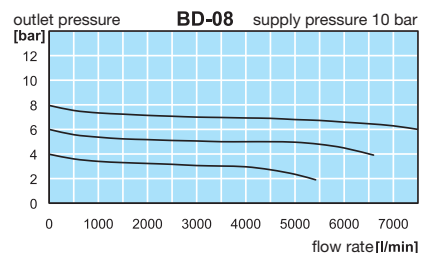
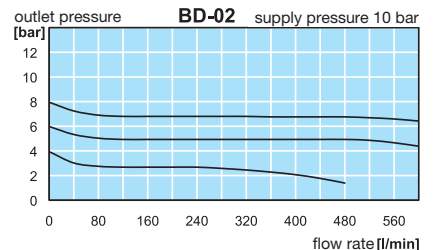
Filter regulator  
17

Type	M	D	Ø E
BD-01/02	M30x1,5	30	4.5
BD-03/04	M50x1,5	51	5.5



\*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

\*2 04 = 0...4 bar, 10 = 0...10 bar, 16 = 0...16 bar

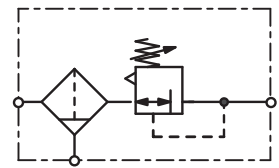


Extensions: see chapter for FRL service units  
Gauges: see chapter for measuring devices  
Spare parts: see separate spare parts list

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Order example:  
BD-01M

<b>Description</b>	Low-cost zinc die-cast regulator of solid design and diaphragm operating system up to G $\frac{1}{2}$ . From G $\frac{3}{4}$ on with piston operating system. Suitable for compressed air or non-corrosive gases.
<b>Supply pressure</b>	max. 16 bar for metal bowl with sight glass
<b>Adjustment</b>	by knob with snap-lock up to G $\frac{1}{2}$ , by hexagon head screw from G $\frac{3}{4}$ up to G $1\frac{1}{2}$ (BD-1A), by T-handle from G $1\frac{1}{2}$ (BD-12.) up to G2
<b>Gauge port</b>	G $\frac{1}{4}$ on both sides of the body, G $\frac{1}{8}$ on both sides of the body at BD-01/02, one screw plug supplied
<b>Filter element</b>	50 $\mu$ m, optionally 5 $\mu$ m, made of propylene
<b>Bowl</b>	plastic version, standard or short, metal version with or without sight glass
<b>Drainage</b>	semiautomatic drain as standard for max. 16 bar, respectively manual drain max. 30 bar, automatic drain max. 16 bar as option
<b>Temperature range</b>	-10 °C to 50 °C / 14 °F to 122 °F for metal bowl with sight glass, for G $\frac{1}{8}$ up to G $\frac{1}{2}$ -20 °C to 60 °C / -4 °F to 140 °F for metal bowl with sight glass, for G $\frac{3}{4}$ up to G2 -30 °C to 80 °C / -22 °F to 176 °F for metal bowl without sight glass, for all sizes
<b>Material</b>	Body: zinc die-cast at G $\frac{1}{8}$ and G $\frac{1}{4}$ , aluminium at G $\frac{3}{8}$ to G2 Elastomer: NBR/Buna-N Bowl: zinc die-cast



**G $\frac{1}{8}$  up to G2**  
**5/50  $\mu$ m, up to 30 bar**

Dimensions			Bowl	Flow	P <sub>1</sub>	Filter	Connection	Order
A	B	C	Design	Capacity	rate	max.	element	number
mm	mm	mm	made of/ with	l	m <sup>3</sup> /h*1	l/min*1	$\mu$ m	G

Filter pressure regulator									with semiautomatic drain, relieving, without pressure gauge, pressure range 0.5...8 bar	<b>BD</b>
192	429	220	metal/sight glass	1.20	960	16000	16	50	G $1\frac{1}{2}$	<b>BD-12M</b>
			metal	1.20			30			<b>BD-12NH</b>
192	429	220	metal/sight glass	1.20	1020	17000	16		G2	<b>BD-16M</b>
			metal	1.20			30			<b>BD-16NH</b>

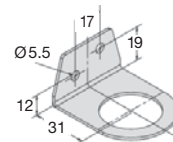
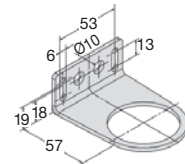
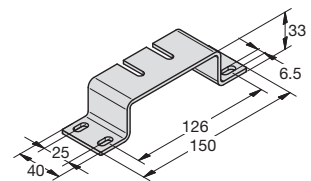
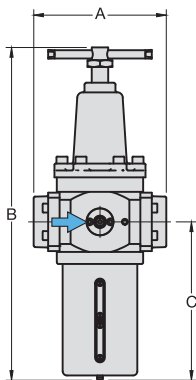
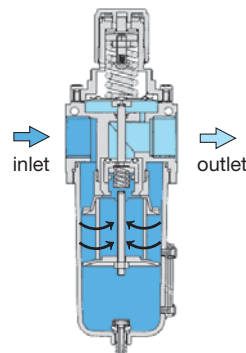
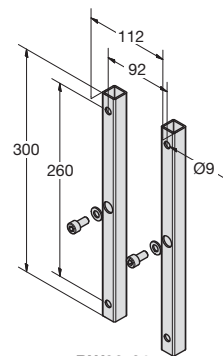

**BD-12/-16**

## Special options, add the appropriate letter

<b>5 <math>\mu</math>m filter element</b>		for G $\frac{1}{8}$ to G $\frac{1}{2}$	BD-...G
		for G $\frac{3}{4}$ to G1	BD-...G
		for G $1\frac{1}{4}$ to G2	BD-...G
<b>0.3 ... 3 bar regulating range</b>			BD-...B
<b>1 ... 15 bar regulating range</b>			BD-...E
<b>manual drain</b>	max. 16 bar for metal bowls with sight glass		BD-...H
<b>automatic drain</b>	max. 16 bar, drainage through float valve	for G $\frac{3}{8}$ to G2	BD-...R
<b>flange connection</b>	see chapter for stainless steel devices / flanges		BD-...F.

## Accessories

<b>pressure gauge</b>	$\varnothing$ 40 mm, 0... <sup>*2</sup> bar, G $\frac{1}{8}$ $\varnothing$ 50 mm, 0... <sup>*2</sup> bar, G $\frac{1}{4}$ $\varnothing$ 63 mm, 0... <sup>*2</sup> bar, G $\frac{1}{4}$	for G $\frac{1}{8}$ and G $\frac{1}{4}$ for G $\frac{3}{8}$ and G $\frac{1}{2}$ for G $\frac{3}{4}$ up to G2	<b>MA4001-...<sup>*2</sup></b> <b>MA5002-...<sup>*2</sup></b> <b>MA6302-...<sup>*2</sup></b>
<b>mounting bracket</b>	made of steel	for G $\frac{1}{8}$ and G $\frac{1}{4}$	<b>BW30-02</b>
<b>mounting nut</b>	made of plastic	for G $\frac{1}{8}$ and G $\frac{1}{4}$	<b>M30x1,5K</b>
<b>mounting bracket</b>	made of steel	for G $\frac{3}{8}$ and G $\frac{1}{2}$	<b>BW50-03</b>
<b>mounting nut</b>	made of plastic	for G $\frac{3}{8}$ and G $\frac{1}{2}$	<b>M50x1,5K</b>
<b>mounting bracket</b>	made of stainless steel	for G $\frac{3}{4}$ up to G $1\frac{1}{2}$ (1A)	<b>BW00-59S</b>
<b>set of brackets</b>	made of steel	for G $1\frac{1}{2}$ (12) and G2	<b>BW00-61</b>


**BW30-02**

**BW50-03**

**BW00-59S**

**BD-12/-16**

**cross-sec-**

**BW00-61**
<sup>\*1</sup> at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

<sup>\*2</sup> 04 = 0...4 bar, 10 = 0...10 bar, 16 = 0...16 bar

**Extensions:** see chapter for FRL service units  
**Gauges:** see chapter for measuring devices  
**Spare parts:** see separate spare parts list

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**Order example:**  
**BD-12M**