

FILTER PRESSURE REGULATOR SERIES "D", UP TO 30 BAR

BD

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

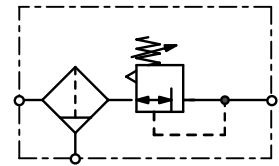
Filter element 50 μ m, optionally 5 μ m, made of propylene

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 80 °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 μ m, up to 30 bar

Dimensions			Bowl	Flow	P ₁	Filter	Connection	Order
A	B	C	Design	rate	max.	element	thread	number
mm	mm	mm	made of/with	l m ³ /h*1	l/min*1	μ 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			



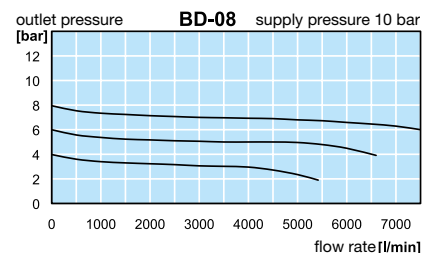
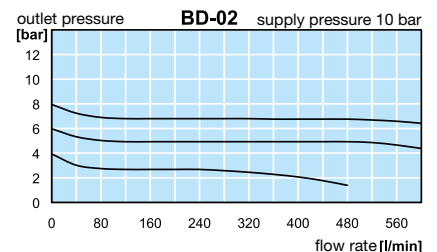
BD-01/-02M



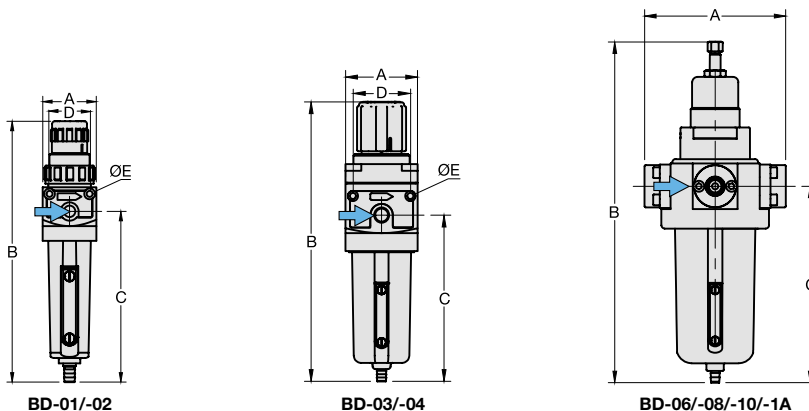
BD-03/-04M



BD-10NH



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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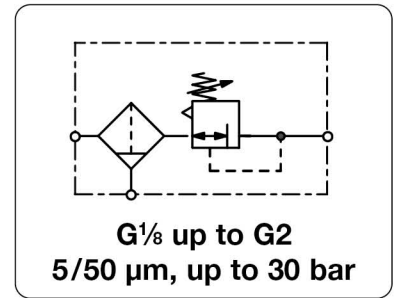
Order example:
BD-01M



FILTER PRESSURE REGULATOR SERIES "D", UP TO 30 BAR

BD

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 μ m, optionally 5 μ 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



Dimensions			Bowl	Flow	P ₁	Filter	Connection	Order
A	B	C	Design	Capacity	rate	element	thread	number
mm	mm	mm	made of/ with	l	m ³ /h*1 l/min*1	μ m	G	

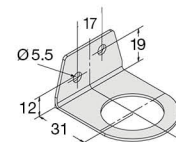
Filter pressure regulator									with semiautomatic drain, relieving, without pressure gauge, pressure range 0.5...8 bar	BD
192	429	220	metal/sight glass	1.20	960	16 000	16	G1 $\frac{1}{2}$		BD-12M
			metal	1.20			30			BD-12NH
192	429	220	metal/sight glass	1.20	1020	17 000	16	G2		BD-16M
			metal	1.20			30			BD-16NH



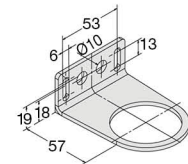
BD-12/-16

Special options, add the appropriate letter

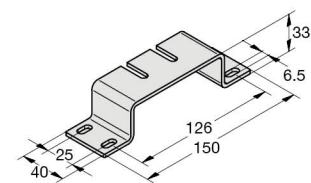
5 μm filter element		for G $\frac{1}{8}$ to G $\frac{1}{2}$	BD-... G
		for G $\frac{3}{4}$ to G1	BD-... G
		for G1 $\frac{1}{4}$ to G2	BD-... G
0.3 ... 3 bar regulating range			BD-... B
1 ... 15 bar regulating range			BD-... E
manual drain	max. 16 bar for metal bowls with sight glass		BD-... H
automatic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



BW30-02



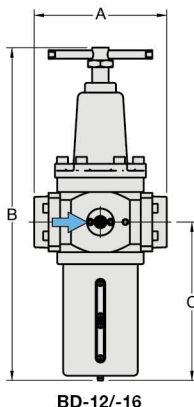
BW50-03



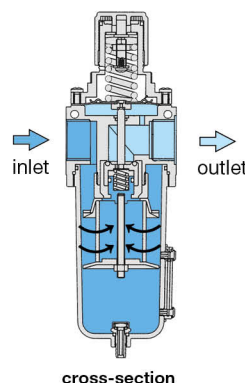
BW00-59S

Accessories, enclosed

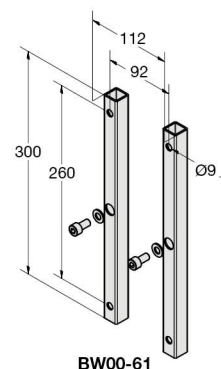
pressure gauge	Ø 40 mm, 0...*2 bar, G $\frac{1}{8}$ Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$ Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{1}{8}$ and G $\frac{1}{4}$ for G $\frac{3}{8}$ and G $\frac{1}{2}$ for G $\frac{3}{4}$ up to G2	MA4001-...*2 MA5002-...*2 MA6302-...*2
mounting bracket	made of steel	for G $\frac{1}{8}$ and G $\frac{1}{4}$	BW30-02
mounting nut	made of plastic	for G $\frac{1}{8}$ and G $\frac{1}{4}$	M30x1,5K
mounting bracket	made of steel	for G $\frac{3}{8}$ and G $\frac{1}{2}$	BW50-03
mounting nut	made of plastic	for G $\frac{3}{8}$ and G $\frac{1}{2}$	M50x1,5K
mounting bracket	made of stainless steel	for G $\frac{3}{4}$ up to G1 $\frac{1}{2}$ (1A)	BW00-59S
set of brackets	made of steel	for G1 $\frac{1}{2}$ (12) and G2	BW00-61



BD-12/-16



cross-section



BW00-61

*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
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Order example:
BD-12M