

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

BD

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

Supply pressure max. 16 bar for metal bowl with sight glass, max. 30 bar for metal bowl without 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

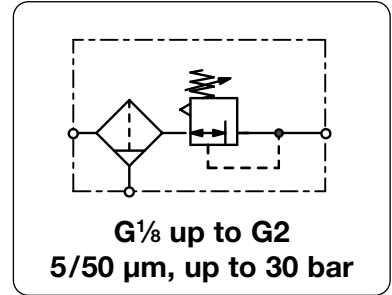
Filter element 50 μ m, optionally 5 μ m, made of propylene

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 -20 °C to 60 °C / -4 °F to 140 °F for metal bowl with sight glass
-30 °C to 80 °C / -22 °F to 176 °F for metal bowl without sight glass

Material Body: aluminium
Elastomer: NBR/Buna-N
Bowl: zinc die-cast, stainless steel by BD-12 and -16



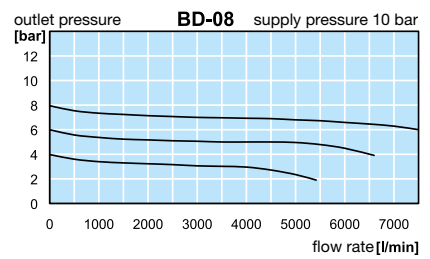
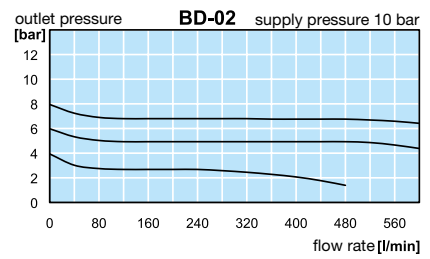
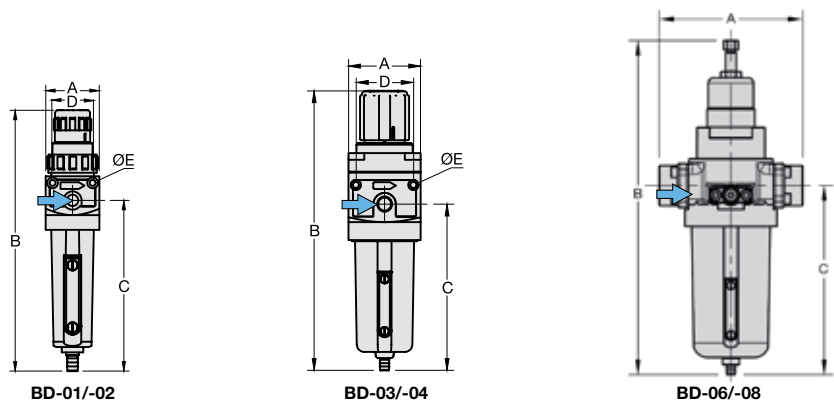
Dimensions			Bowl	Flow	P ₁	Filter	Connection	Order
A	B	C	Design	rate	max.	element	thread	number
mm	mm	mm	made of/with	l m ³ /h*1	l/min*1	μ m	G	

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	251	149	metal/sight glass	0.18	108	1800	16	50	G $\frac{3}{8}$	BD-03M	BD-03NH
			metal	0.18			30				
64	251	149	metal/sight glass	0.18			16		G $\frac{1}{2}$	BD-04M	BD-04NH
			metal	0.18			30				
129	310	174	metal/sight glass	0.50	300	5000	16	50	G $\frac{3}{4}$	BD-06M	BD-06NH
			metal	0.50			30				
129	310	174	metal/sight glass	0.50			16		G1	BD-08M	BD-08NH
			metal	0.50			30				
240	310	174	metal/sight glass	0.50	390	6500	16	50	G1 $\frac{1}{4}$	BD-10M	BD-10NH
			metal	0.50			30				
240	310	174	metal/sight glass	0.50			16		G1 $\frac{1}{2}$	BD-1AM	BD-1ANH
			metal	0.50			30				



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 Ø4 = 0...4 bar, 10 = 0...10 bar, 16 = 0...16 bar

* Product group

Extensions: see chapter for FRL service units
Gauges: see chapter for measuring devices

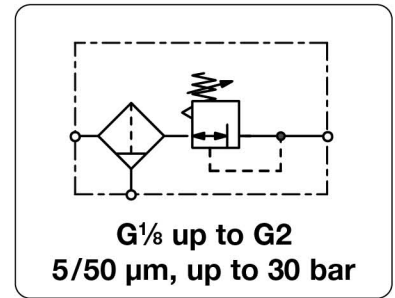
PDF CAD
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Order example: BD-01M

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

BD

Description	Low-cost aluminium 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, max. 30 bar for metal bowl without 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 $\frac{1}{2}$ 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	-20 °C to 60 °C / -4 °F to 140 °F for metal bowl with sight glass -30 °C to 80 °C / -22 °F to 176 °F for metal bowl without sight glass
Material	Body: aluminium Elastomer: NBR/Buna-N Bowl: zinc die-cast, stainless steel by BD-12 and -16



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	

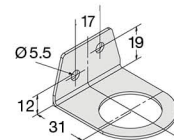
Filter pressure regulator									with semiautomatic drain, relieving, without pressure gauge, pressure range 0.5...8 bar	BD
174	483	213	Metall	1.0	1380	23000	30	50	G1 $\frac{1}{2}$	BD-12NH
174	483	213	Metall	1.0	1380	23000	30	50	G2	BD-16NH



BD-12/-16NH

Special options, add the appropriate letter

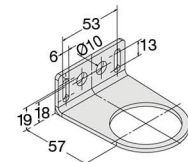
5 μm filter element		BD-... G
0.3 ... 3 bar regulating range		BD-... B
1 ... 15 bar regulating range		BD-... E
manual drain	max. 16 bar for metal bowls with sight glass	BD-... H
automatic drain	max. 16 bar, drainage through float valve for G $\frac{3}{8}$ to G2	BD-... R
flange connection	see chapter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



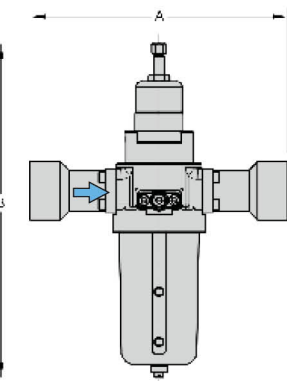
BW30-02

Accessories, enclosed

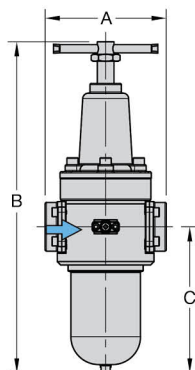
pressure gauge	\varnothing 40 mm, 0...*2 bar, G $\frac{1}{8}$ \varnothing 50 mm, 0...*2 bar, G $\frac{1}{4}$ \varnothing 63 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{1}{8}$ and G $\frac{1}{4}$ for G $\frac{3}{8}$ and G $\frac{1}{2}$ for G $\frac{3}{4}$ up to G2	MA4001-...*2 MA5002-...*2 MA6302-...*2
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 $\frac{3}{8}$ up to G1 $\frac{1}{2}$ (1A)	BW00-59S
set of brackets	made of stainless steel	for G1 $\frac{1}{2}$ (12) and G2	BW00-62S



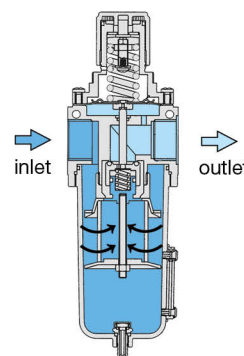
BW50-03



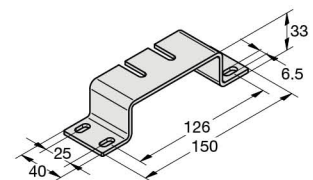
BD-10/-1A



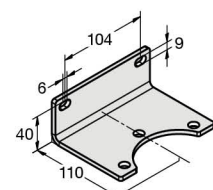
BD-12/-16



cross-section



BW00-59S



BW00-62S

Filter
regulator
17

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

* Product group

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Order example:
BD-12NH