

# Preparation unit—A, B Series

## AFR、BFR Series Filter & regulator



### Symbol



### Product feature

1. The structure is delicate and compact, which is convenient for installation and application.
2. The pressed-in self-locking mechanism can prevent the abnormal movement of the set pressure caused by external interfere.
3. The pressure loss is low and the efficiency of water separating is high;
4. In addition to standard type, lower pressure type is optional(The highest adjustable pressure is 0.4MPa).

### Specification

Model	AFR1500	AFR2000	BFR2000	BFR3000	BFR4000
Fluid	Air				
Port size [Note1]	1/8"	1/4"	1/4"	3/8"	1/2"
Filtering grade	40μm or 5μm				
Pressure range	Semi-auto and automatic drain:0.15~0.9MPa(20~130Psi)		Manual drain:0.05~0.9MPa(7~130Psi)		
Max. pressure	1.0MPa(145Psi)				
Proof pressure	1.5MPa(215Psi)				
Temperature range	-5~70°C(unfreeze)				
Capacity of drain bowl	15CC		60CC		
Weight	260g		400g		

[Note1] PT thread, G thread and NPT thread are available.

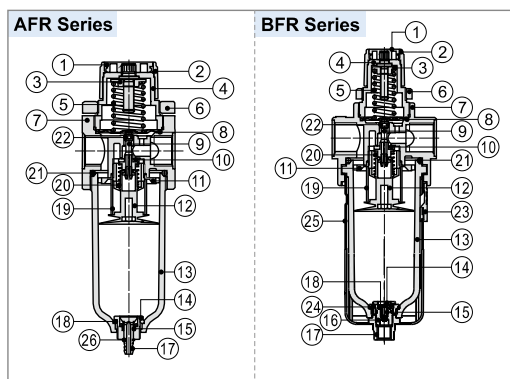
### Ordering code

AFR 2000 M □ □ □ 1 W □

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Model	② Port size	③ Drain type	④ Type code	⑤ Accessories	⑥ Pressure gauge	⑦ Scale	⑧ Filtering grade	⑨ Thread type
AFR: A Series Filter & regulator	1500: 1/8" 2000: 1/4"	Blank: Semi-auto drain M: Manual drain	Blank: Standard (0.9MPa)	Blank: Bracket J: No bracket	Blank: Pressure gauge N: No pressure gauge	1: MPa 2: psi 3: bar 4: kgf/cm <sup>2</sup> & psi	Blank: 40μm W : 5μm	Blank: PT (Scale: Mpa or kgf/cm <sup>2</sup> & psi) G: G(Scale:bar) T: NPT(Scale:psi)
BFR: B Series Filter & regulator	2000: 1/4" 3000: 3/8" 4000: 1/2"	Blank: Semi-auto drain M: Manual drain A: Automatic drain	L: Lower pressure (0.4MPa)					

### Inner structure



No.	Item	Material	No.	Item	Material
1	Push button	POM	14	Drain kit	A:Steel/B:POM
2	Adjusting button	POM	15	Return spring	Stainless steel
3	Adjusting nut	08A	16	Drain seat	A:Steel/B:POM
4	Adjusting seat	POM	17	Drain pillar	POM
5	Adjusting spring	SWC	18	Drain O-ring	NBR
6	Fixed ring	POM	19	Filter element	5μm HDPE
7	Body	Aluminum alloy			40μm HDPE
8	Diaphragm	Stainless steel & rubber	20	Return spring	Stainless steel
9	Balance needle	POM	21	Drain bowl O-ring	NBR
10	Needle gasket	Aluminum alloy & rubber	22	Needle O-ring	NBR
11	Air guider	POM	23	Bowl guard switch	POM
12	Umbrella baffle	POM	24	Gasket	POM
13	Drain bowl	PC	25	Bowl guard	PA66
			26	Clip	Spring steel

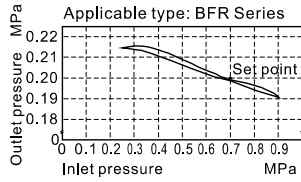
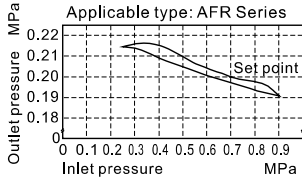
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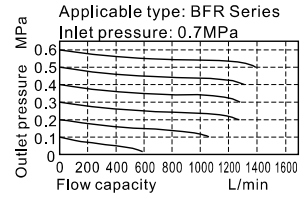
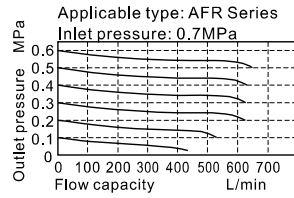
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### Pressure and feature of flow

#### Pressure chart



#### Flow chart

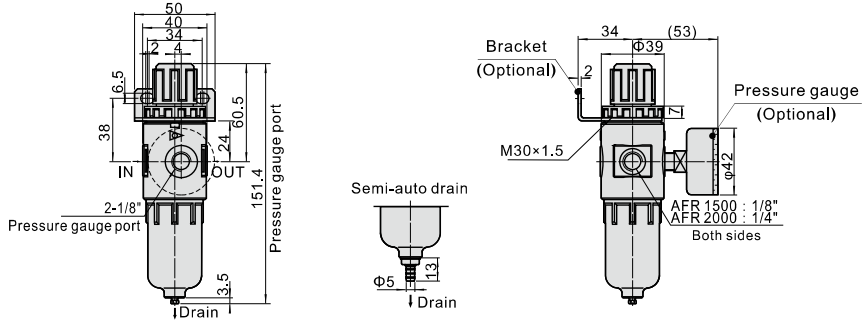


### Selection of drain mode

The drain modes of different series are different. Please refer to P263 for details.

### Dimensions

#### AFR Series



#### BFR Series

