

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	AFR1500C	AFR2000C	BFR2000C	BFR3000C	BFR4000C10	BFR4000C
Fluid	Air					
Port size [Note1]	PT1/8	PT1/4	PT1/4	PT3/8	PT3/8	PT1/2
Filtering grade	40μm or 5μm					
Pressure range	Semi-auto and automatic drain:0.15~0.9MPa(20~130Psi)					
Max. pressure	1.0MPa(145Psi)					
Proof pressure	1.5MPa(215Psi)					
Temperature range	-5~70°C(unfreeze)					
Capacity of drain bowl	15CC		40CC		60CC	

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

Ordering code

AFR 2000C D ☐ ☐ ☐ ☐ 1 W ☐

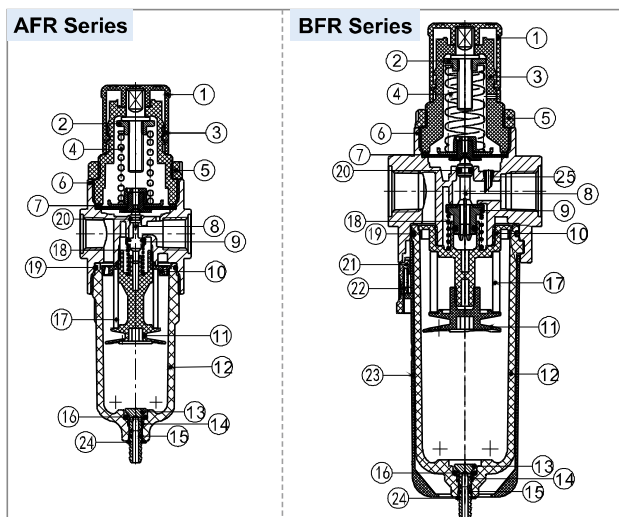
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

①Model	②Port size	③Guage port position	④Drain type	⑤Type code	⑥Accessories	⑦Pressure gauge	⑧Scale	⑨Filtering grade	⑩Thread type
AFR: A Series Filter & regulator	1500C:1/8" 2000C:1/4"	Blank: single-sided, D:double-sided	Blank: Semi-auto drain	Blank:Standard (0.9MPa) L: Lower pressure (0.4MPa)	Blank: Bracket J: No bracket	Blank: Pressure gauge[Note2]	1: MPa 2: psi 3: bar 4: kgf/cm² & psi	Blank: 40µm W: 5µm	Blank: PT (Scale: Mpa or kgf/cm² & psi) G: G(Scale:bar) T: NPT(Scale:psi)
BFR: B Series Filter & regulator	2000C: 1/4" 3000C: 3/8"		Blank: Semi-auto drain A: Automatic drain			N: No pressure gauge			
	4000C10: 3/8" 4000C: 1/2"	Blank: double-sided [Note1]							

[Note1]BFR4000C with thread on two sides of pressure gauge by default;

[Note2] Gauge model GS40 used on AFR1500C/2000C and BFR2000C/3000C/4000C10/4000C.

Inner structure



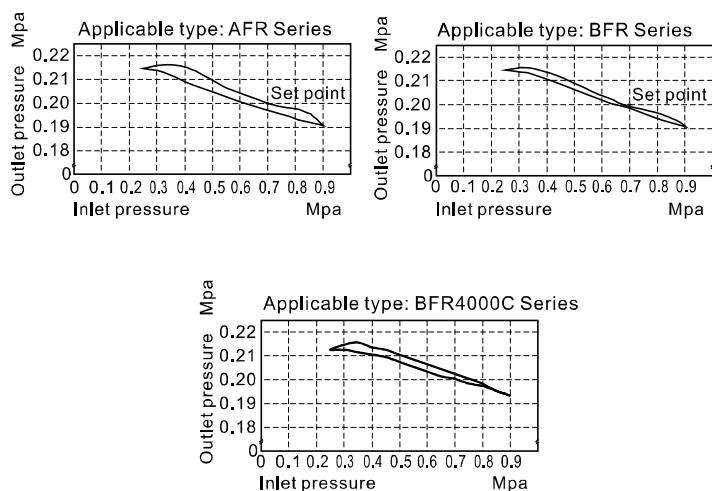
No.	Item	Material	No.	Item	Material
1	Adjusting button	POM	14	Return spring	Stainless steel
2	Adjusting nut	Carbon steel	15	Drain O-ring	NBR
3	Adjusting seat	POM(Other specifications)/PA66+Glass fiber(BFR4000C)	16	O-ring	NBR
4	Adjusting spring	SWC	17	Filter element	HDPE
5	Fixed ring	POM	18	Return spring	Stainless steel
6	Body	Aluminum alloy	19	Drain bowl O-ring	NBR
7	Diaphragm	SPCC+PA66+TPU+NBR	20	Needle O-ring	NBR
8	Balance needle	Aluminum alloy+NBR (A series) / POM(B series)	21	Push button	POM
9	Needle gasket	Aluminum alloy+NBR	22	Spring	Stainless steel
10	Air guider	POM	23	Bowl guard	PA6+Glass fiber
11	Umbrella baffle	POM	24	Clip	Spring steel
12	Drain bowl	PC	25	Feedback tube	POM
13	Drain kit	Steel			

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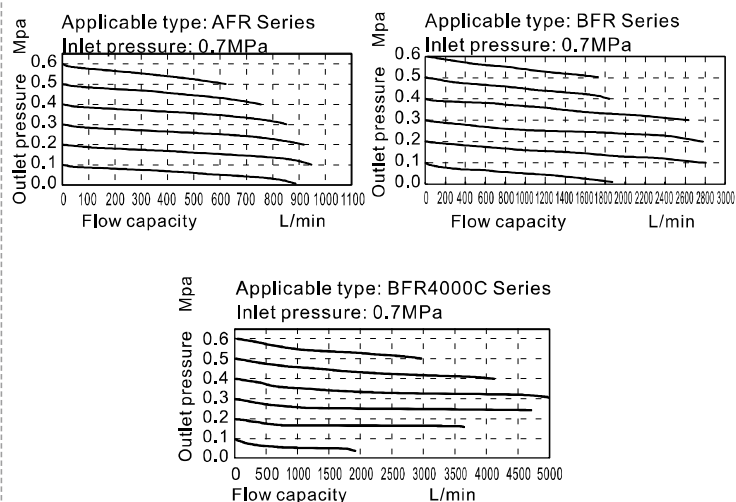
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Pressure and feature of flow

Pressure chart



Flow chart

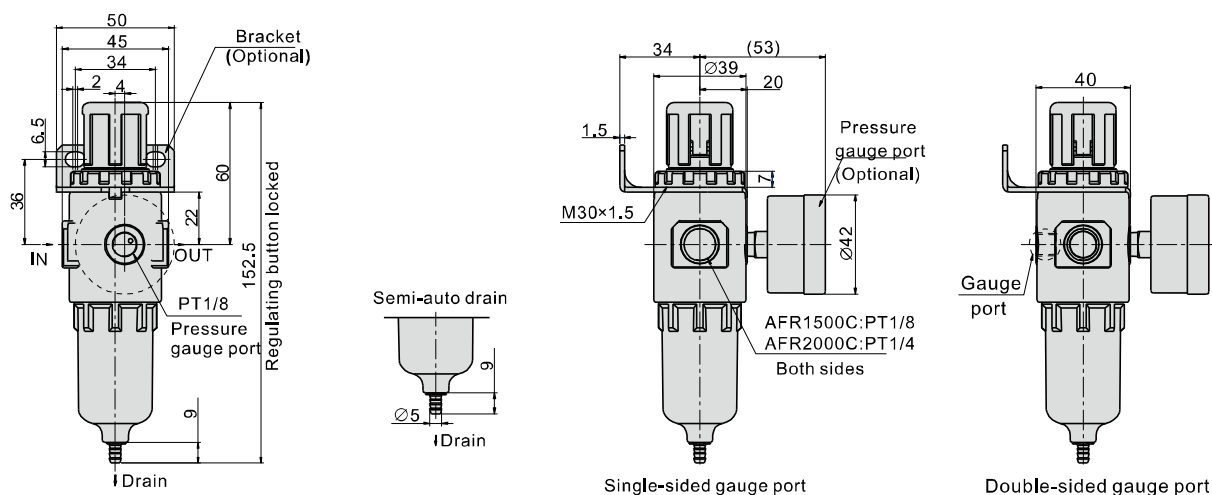


Selection of drain mode

The drain modes of different series are different. Please refer to P241 for details.

Dimensions

AFR1500C/AFR2000C

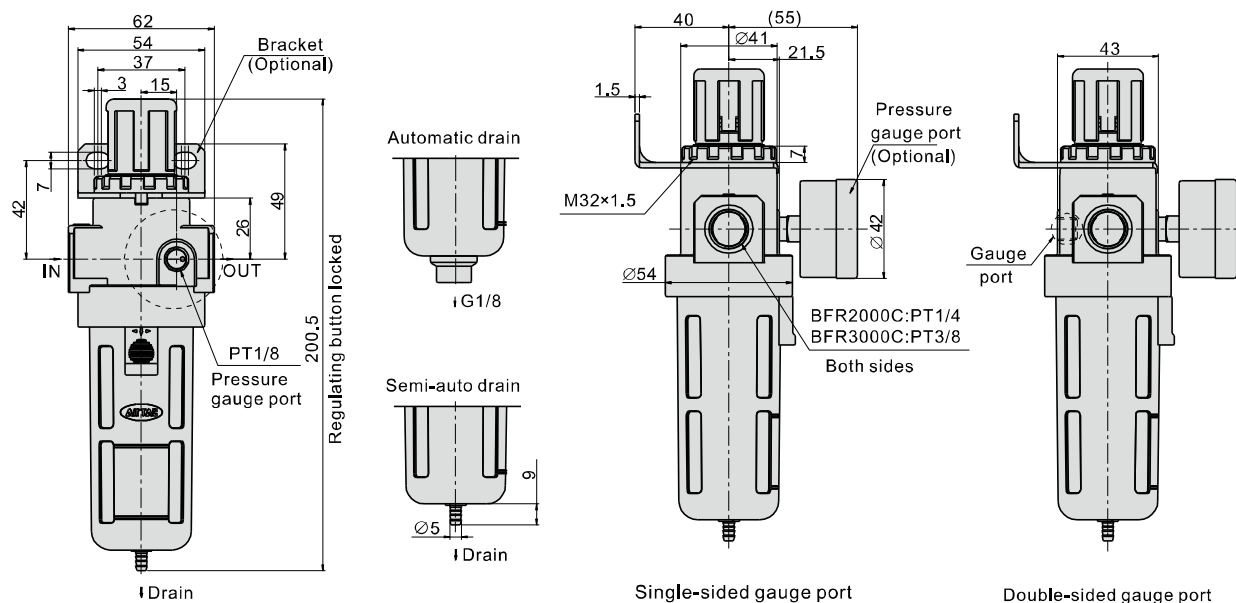


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AirTAC

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BFR2000C/BFR3000C



BFR4000C10/BFR4000C

