

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).

Ordering code

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

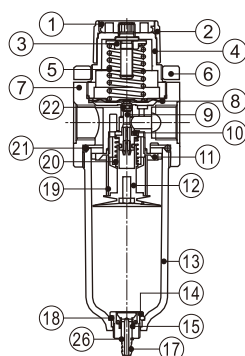
Specification

Model	AFR1500	AFR2000	BFR2000	BFR3000	BFR4000
Fluid	Air				
Port size	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				
Capacity of drain bowl	15CC		60CC		
Weight	260g		400g		

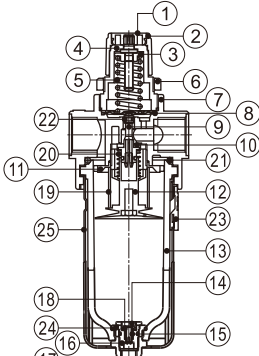
Note: PT thread, G thread and NPT thread are available.

Inner structure and material of major parts

AFR

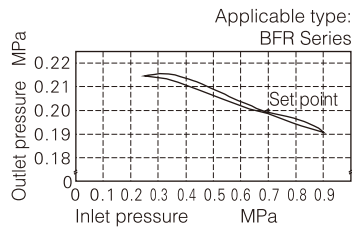
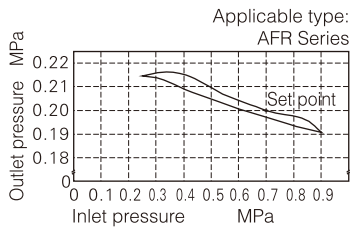


BFR

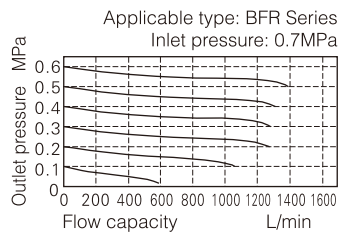
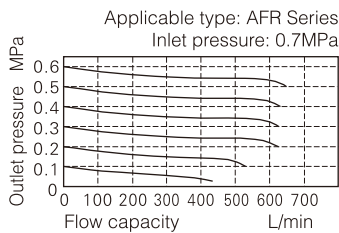


No.	Item	Material	No.	Item	Material
1	Push button	POM	15	Return spring	Stainless steel
2	Adjusting button	POM	16	Drain seat	POM
3	Adjusting nut	Steel	17	Drain pillar	POM
4	Adjusting seat	POM	18	Drain O-ring	NBR
5	Adjusting spring	SWC	19	Filter element	40μm Madrolon fiber
6	Fixed ring	POM			5μm Agglomerated by bronze grain
7	Body	Aluminum alloy	20	Return spring	Stainless steel
8	Diaphragm	SUS304 & rubber	21	Drain bowl O-ring	NBR
9	Balance needle	POM	22	Needle O-ring	NBR
10	Needle gasket	Aluminum alloy & rubber	23	Bowl guard switch	POM
11	Air guider	POM	24	Gasket	POM
12	Umbrella baffle	POM	25	Bowl guard	PA66
13	Drain bowl	PC	26	Clip	Spring steel
14	Drain kit	POM			

Pressure chart



Flow chart

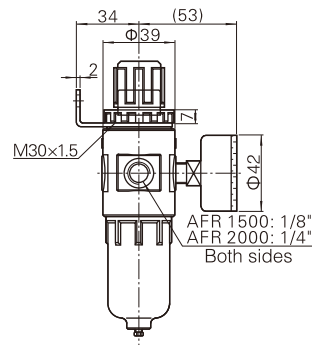
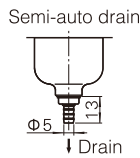
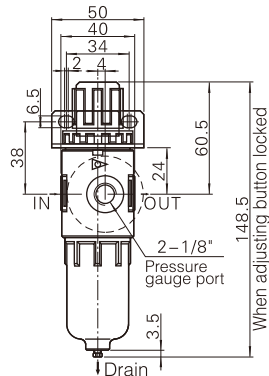


Selection of drain mode

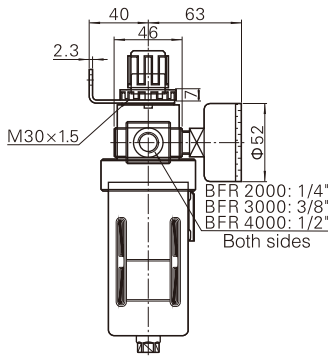
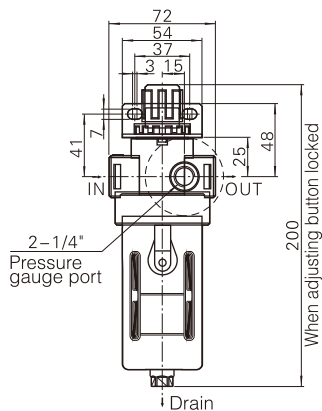
The drain modes of different series are different.
Please refer to AC/BC for details.

Dimensions

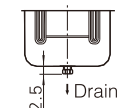
AFR



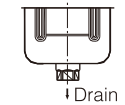
BFR



Manual drain



Automatic drain
Semi-auto drain



FRL

AC/BC

AF/BC

AFR/BFR

AF/BF

AR/BR

AL/BL

SR

SDR

AC

AW

AF

AR

AL

F3

F2

F1

F

R

L

USFRL

USFR/L

USFR

USF

USR

USL

QSL

QTY

QIU

QTYH

QSLH

QFRH

AFF

AF(Big)

AL(Big)

AR(Big)

AD402

AH402

AD-5

IR

ITV

ACR

F804

PG