1

Preparation unit——A、B Series

Production's series



Installation and application

- 1. Check whether the components have been damaged during transportation before installing and using.
- 2. Pay attention to whether the flow direction of air (notice "→" direction) and thread type are correct.
- 3. Please notice whether installation condition accords with technical requirements (such as "working pressure" and "applied temperature range").
- 4. The medium used or installation environment shall be noticed. The matters with chlorine, carbon compound, aromatic compound and oxidizing acid and alkali shall be avoided to prevent the damage of bowl and oil bowl.
- $5. \ Regularly\ clean\ or\ change\ filter\ core.\ Lubricators\ and\ regulators\ shall\ be\ in\ descending\ order.$
- 6. Keep dust away. The dust cover shall be installed in intake and outlet when the device is dismantled and stored.

4

AITTAC

AC、BC Series





Symbol



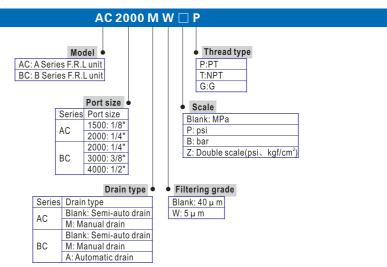
Product feature

- 1. The structure is delicate and compact, which is convenient for installation and application.
- 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. The quantity of oil dripping can be directly observed through transparent check-dome.
- 5. In addition to standard type, lower pressure type is optional (The highest adjustable pressure is 0.4MPa).

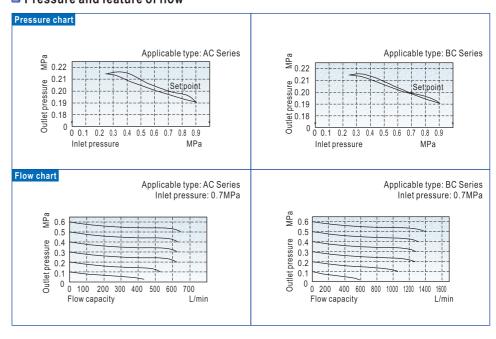
Specification

| Model | | AC1500 | A C2000 | DC2000 | DC2000 | DC4000 | |
|----------------|--------------|-------------------------|----------------------|-----------------|--------------------|------------------|--|
| | | AC1500 | AC2000 | BC2000 | BC3000 | BC4000 | |
| Fluid | | | | Air | | | |
| Port size | | 1/8" | 1/4" | 1/4" | 3/8" | 1/2" | |
| Filtering gr | ade | | | 40 μ m or 5 μ m | | | |
| Pressure ra | ange | Semi-auto and auto | omatic drain:0.15~0. | 9MPa(20~130Psi) | Manual drain:0.05~ | 0.9MPa(7~130Psi) | |
| Max. press | ure | 1.0MPa(145Psi) | | | | | |
| Proof pressure | | 1.5MPa(215Psi) | | | | | |
| Temperatu | re range | –20~70℃ | | | | | |
| Capacity o | f drain bowl | 15 | CC | | 60CC | | |
| Capacity o | f oil bowl | 25CC 90CC | | | | | |
| Recommen | nded | ISO VG 32 or equivalent | | | | | |
| Weight | | 700g | | 900g | | | |
| | Filter | AF1500 | AF2000 | BF2000 | BF3000 | BF4000 | |
| Constitute | Regulator | AR1500 | AR2000 | BR2000 | BR3000 | BR4000 | |
| | Lubricator | AL1500 | AL2000 | BL2000 | BL3000 | BL4000 | |

Ordering code



Pressure and feature of flow

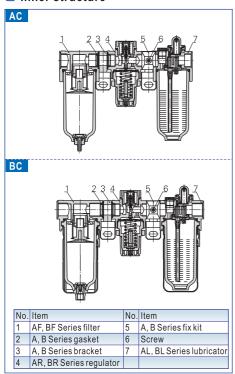


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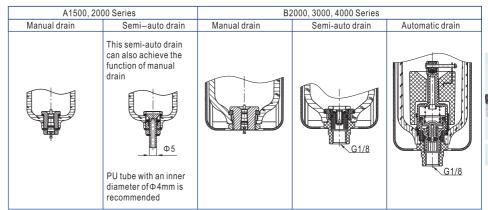


AC、BC Series

Inner structure

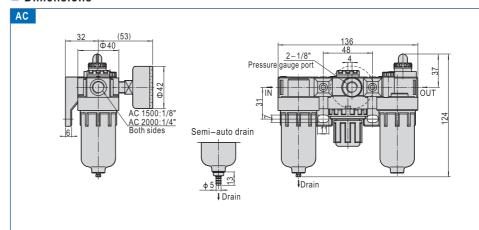


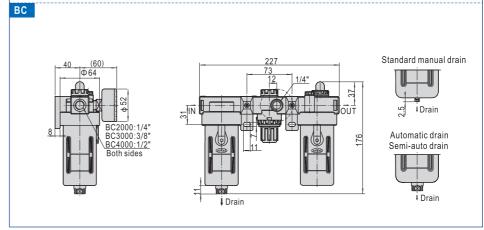
Selection of drain mode



AC BC

Dimensions





 \boldsymbol{A}

AITTAC

AFC、BFC Series





Symbol



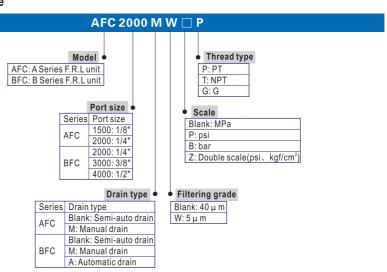
Product feature

- 1. The structure is delicate and compact, which is convenient for installation and application.
- 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. The quantity of oil dripping can be directly observed through transparent check dome.
- 5. In addition to standard type, lower pressure type is optional (The highest adjustable pressure is 0.4MPa).

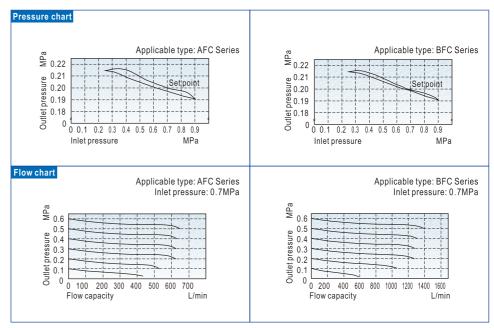
Specification

| Model | | AFC1500 | AFC2000 | BFC2000 | BFC3000 | BFC4000 | | |
|-----------------------|------------------|-------------------------|---------------------|-----------------|-------------------|------------------|--|--|
| Fluid | | | | Air | | | | |
| Port size | | 1/8" | 1/4" | 1/4" | 3/8" | 1/2" | | |
| Filtering gr | ade | | 40 μ m or 5 μ m | | | | | |
| Pressure ra | ange | Semi-auto and autor | matic drain:0.15~0. | 9MPa(20~130Psi) | Manual drain:0.05 | ~0.9MPa(7~130Psi | | |
| Max. press | ure | 1.0MPa(145Psi) | | | | | | |
| Proof press | sure | 1.5MPa(215Psi) | | | | | | |
| Temperatu | re range | –20~70℃ | | | | | | |
| Capacity of | f drain bowl | 15 | CC | | 60CC | | | |
| Capacity of | f oil bowl | 25CC 90CC | | | | | | |
| Recommended lubricant | | ISO VG 32 or equivalent | | | | | | |
| Weight | | 50 | 0g | 700g | | | | |
| Constitute | Filter-Regulator | AFR1500 | AFR2000 | BFR2000 | BFR3000 | BFR4000 | | |
| Constitute | Lubricator | AL1500 | AL2000 | BL2000 | BL3000 | BL4000 | | |

Ordering code



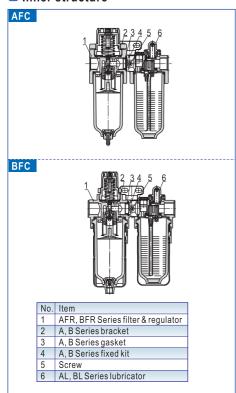
Pressure and feature of flow





AFC、BFC Series

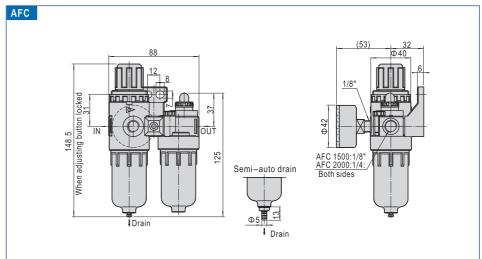
Inner structure



Selection of drain mode

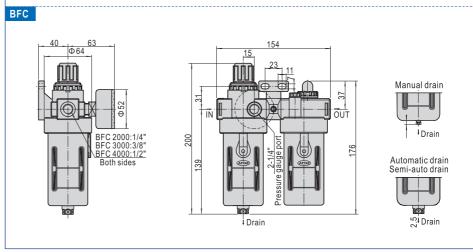
The drain modes of different series are different. Pleaserefer to P 155 for details.

Dimensions





AFC BFC





AFR、BFR Series



Symbol



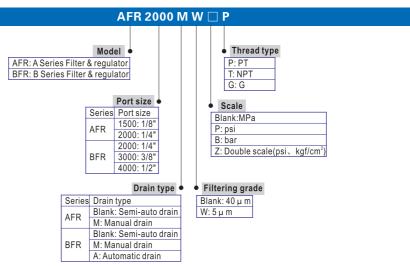
Product feature

- 1. The structure is delicate and compact, which is convenient for installation and application.
- 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).

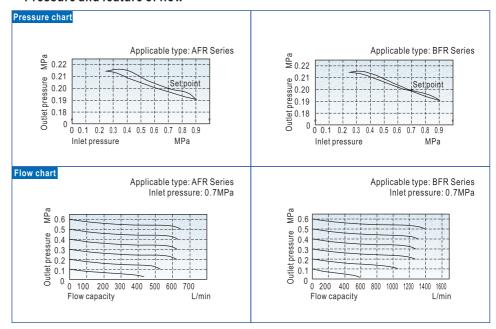
Specification

| Model | AFR1500 | AFR2000 | BFR2000 | BFR3000 | BFR4000 | |
|------------------------|--|---------|---------|---------|---------|--|
| Fluid | | | Air | | | |
| Port size | 1/8" | 1/4" | 1/4" | 3/8" | 1/2" | |
| Filtering grade | 40 μ m or 5 μ m | | | | | |
| 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 | -20~70°C | | | | | |
| Capacity of drain bowl | 15CC | | 60CC | | | |
| Weight 260g | | 400g | | | | |

Ordering code



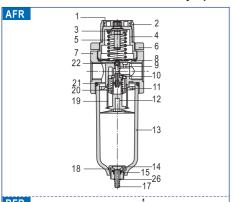
Pressure and feature of flow

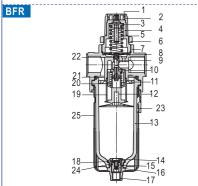




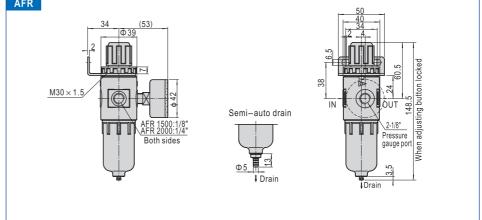
AFR、BFR Series

■ Inner structure and Material of major parts ■ Dimensions



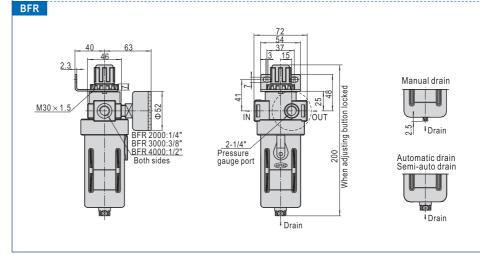


| No. | Item | | Material |
|-----|-------------------|--------|------------------------------|
| 1 | Push button | | POM |
| 2 | Adjusting | button | POM |
| 3 | Adjusting | nut | Steel |
| 4 | Adjusting | seat | POM |
| 5 | Adjusting | | SWC |
| 6 | Fixed ring | g | POM |
| 7 | Body | | Aluminum alloy |
| 8 | Diaphrag | ım | SUS304 & rubber |
| 9 | Balance | needle | POM |
| 10 | needle ga | asket | Aluminum alloy & rubber |
| 11 | Air guide | r | POM |
| 12 | Umbrella | baffle | POM |
| 13 | Drain boy | νl | PC |
| 14 | Drain kit | | POM |
| 15 | Return sp | oring | Stainless steel |
| 16 | Drain sea | at | POM |
| 17 | Drain pill | ar | POM |
| 18 | Drain O-r | ing | NBR |
| 19 | Filter | 5μm | Makrolon fiber |
| 19 | element | 40 μ m | Agglomerated by bronze grain |
| 20 | Returnsp | oring | Stainless steel |
| 21 | Drain bowl O-ring | | NBR |
| 22 | Needle O-ring | | NBR |
| 23 | Bowl guard switch | | POM |
| 24 | Gasket | | POM |
| 25 | Bowl gua | rd | PA66 |
| 26 | Clip | | Spring steel |









Selection of drain mode

The drain modes of different series are different. Pleaserefer to P 155 for details.

AITTAC

AF、BF Series



Symbol



Product feature

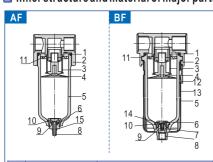
AF series

- 1. The structure is delicate and compact.
- 2. The pressure loss is low and the efficiency of water separating is high;
- 3. The filter precision includes 5 μ m and 40 μ m (optional);

BF series

- 1. The pressure loss is low and the efficiency of water separating is high.
- 2. The bowl has high-strength plastic shields outside, which is more safe and reliable to use.
- 3. The filter precision includes 5 μ m and 40 μ m (optional).

Inner structure and material of major parts



| No. | Item | | Material |
|-----|-------------------|----------|------------------------------|
| 1 | Drain bowl O-ring | | NBR |
| 2 | Body | | Aluminum alloy |
| _ | Filter | 5μm | Makrolon fiber |
| 3 | element | 40 μ m | Agglomerated by bronze grain |
| 4 | Umbrella | a baffle | POM |
| 5 | Drain bo | wl | PC |
| 6 | Drain kit | | POM |
| 7 | Drain se | at | POM |
| 8 | Drain pil | lar | POM |
| 9 | Returns | pring | Stainless steel |
| 10 | Gasket | | POM |
| 11 | Air guide | er | POM |
| 12 | Bowl guard switch | | POM |
| 13 | Bowl guard | | PA6 |
| 14 | Drain seat O-ring | | NBR |
| 15 | Clip | | Spring steel |

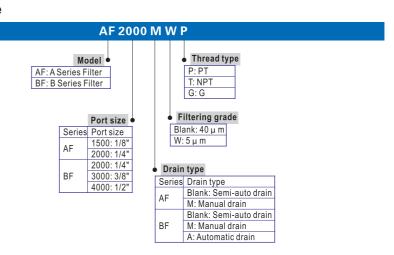
Selection of drain mode

The drain modes of different series are different. Please refer to P155 for details.

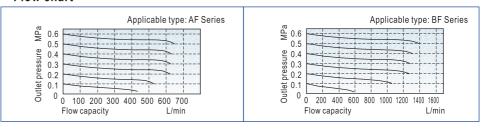
Specification

| Model | AF1500 | AF2000 | BF2000 | BF3000 | BF4000 |
|------------------------|--------------------------------------|--------|-----------------|---------------------|------------------|
| Fluid | | Air | | | |
| Port size | 1/8" | 1/4" | 1/4" | 3/8" | 1/2" |
| Filtering grade | 40 μ m or 5 μ m | | | | |
| Pressure range | Semi-auto and automatic drain:0.15~0 | | 9MPa(20~130Psi) | Manual drain:0.05~0 | 0.9MPa(7~130Psi) |
| Proof pressure | 1.5MPa(215Psi) | | | | |
| Temperature range | -21 | | -20~70°C | | |
| Capacity of drain bowl | 15CC | | 60CC | | |
| Weight | 140g | | 330g | | |

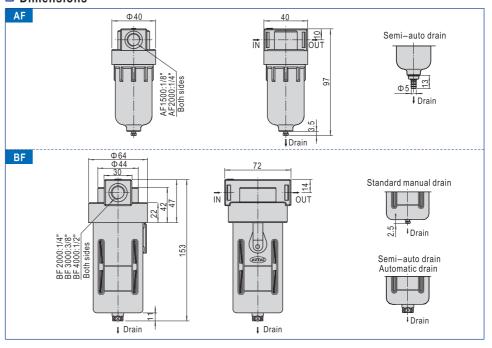
Ordering code



■ Flow chart



Dimensions



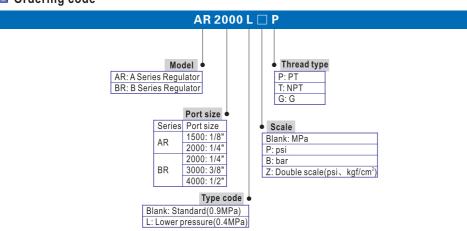


AR, BR Series

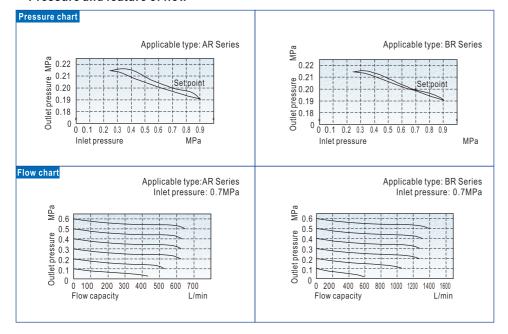
Specification

| Model | Ar1500 | AR2000 | BR2000 | BR3000 | BR4000 | |
|-------------------|-----------------------|--------|----------------|--------|--------|--|
| Fluid | Air | | | | | |
| Port size | 1/8" | 1/4" | 1/4" | 3/8" | 1/2" | |
| Pressure range | 0.05~0.9MPa(7~130Psi) | | | | | |
| Max. pressure | 1.0MPa(145Psi) | | | | | |
| Proof pressure | | | 1.5MPa(215Psi) | | | |
| Temperature range | –20~70℃ | | | | | |
| Weight | 200g | | 230g | | | |

Ordering code



Pressure and feature of flow







AR BR

Symbol



Product feature

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

A



AR、BR Series

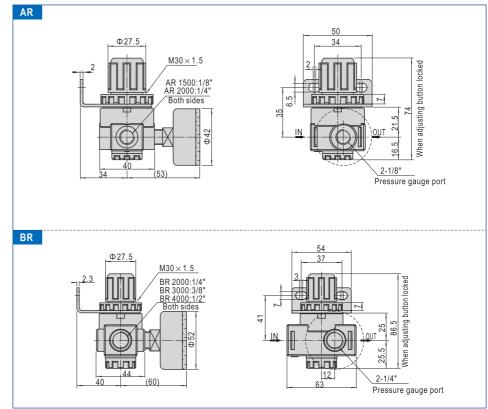
Inner structure and material of major parts

AR 1 2 3 3 4 5 5 6 6 7 8 9 9 10 10 11 11 12

BR 1 2 3 4 5 5 6 6 7 8 9 9 10 11 11 12 12 13 13 14

| No. | Item | Material |
|-----|------------------|-------------------------|
| 1 | Push button | POM |
| 2 | Adjusting button | POM |
| 3 | Adjusting nut | Steel |
| 4 | Adjusting pillar | Steel |
| 5 | Adjusting spring | SWC |
| 6 | Fixed ring | POM |
| 7 | Adjusting seat | POM |
| 8 | Body | Aluminum alloy |
| 9 | Diaphragm | SUS304 & rubber |
| 10 | Needle O-ring | NBR |
| 11 | Balance needle | POM |
| 12 | Needle gasket | Aluminum alloy & rubber |
| 13 | Cap O-ring | NBR |
| 14 | Return spring | Stainless steel |
| 15 | Regulator cap | POM |

Dimensions



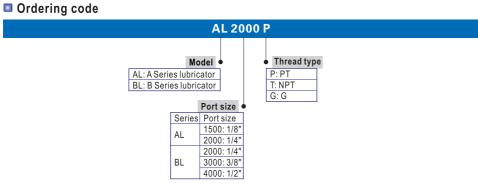


AL、BL Series

Specification

| Model | AL1500 | AL2000 | BL2000 | BL3000 | BL4000 | |
|----------------------|----------------|--------|-----------------------|--------|--------|--|
| Fluid | | Air | | | | |
| Port size | 1/8" | 1/4" | 1/4" | 3/8" | 1/2" | |
| Pressure range | ange | | 0.05~0.9MPa(7~130Psi) | | | |
| Proof pressure | 1.5MPa(215Psi) | | | | | |
| Temperature range | -20~70°C | | | | | |
| Capacity of oil bowl | owl 25CC | | 90CC | | | |
| Recommended | | I | SO VG 32 or equivale | nt | | |
| Weight 170g | | '0g | | 250g | | |





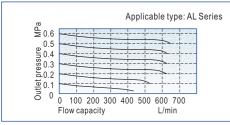
Symbol

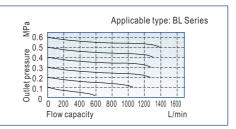


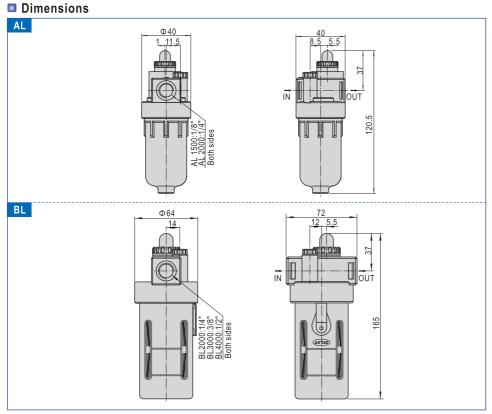
■ Product feature

- 1. The structure is delicate and compact.
- 2. The quantity of oil dripping can be directly observed through transparent inspection sheet.
- 3. BL has high-strength plastic shields, which is more safe and reliable to use.
- 4. The pressure loss and the flow of miststart is low.

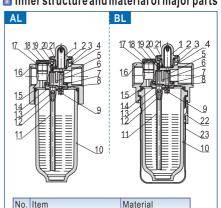
■ Flow chart







Inner structure and material of major parts



| No. | Item | Material |
|-----|------------------------|-----------------|
| 1 | Drip pipe | PC |
| 2 | Dripper O-ring | NBR |
| 3 | Oil adjusting dial | POM |
| 4 | Adjusting ring | NBR |
| 5 | Lubricator seat | POM |
| 6 | Partition | PU |
| 7 | Lubricator kit gasket | NBR |
| 8 | Adjustor | HDPE |
| 9 | Return spring | Stainless steel |
| 10 | Oil bowl | PC |
| 11 | Sunk tube | PU |
| 12 | Lubricator kit | POM |
| 13 | Ball | Stainless steel |
| 14 | Lubricator fixed plate | SPCC |
| 15 | Oil bowl O-ring | NBR |
| 16 | Body | Aluminum alloy |
| 17 | Oil filling nut O-ring | NBR |
| 18 | Oil filling plug | Steel |
| 19 | Needle spring | Stainless steel |
| 20 | Injector pin | Bronze |
| 21 | Check-dome | PC |
| 22 | Bowl guard switch | POM |
| 23 | Bowl guard | PA6 |