

How to Order



AFF2C to 22C

AFF 22 C - [] [] [] [] [] []

Size

2
4
8
11
22

Thread type

Symbol	Type
Nil	Rc
F	G
N	NPT

Made to Order

Symbols are only added at the end for Made to Order. Refer to page 272 and later for the contents of Made to Order, How to Order, and the applicable models.

Option *3

- Multiple options can be selected.
- Refer to the table on the lower left for the available combinations.
- Indicate symbols in alphabetical order.

Port size

Symbol	Port size	Applicable size	2	4	8	11	22
01	1/8	●					
02	1/4	●	●				
03	3/8		●	●			
04	1/2			●	●		
06	3/4				●	●	
10	1					●	●

Accessory

Symbol	Description
Nil	—
B	Bracket *1

*1 Bracket is included, (but not assembled).

Symbol	Description
Nil	—
F	Rubber material: FKM
H	For medium air pressure (1.6 MPa)
J	Drain guide 1/4 female threaded *5
R	IN-OUT reversal direction
S	With differential pressure switch (125 VAC, 30 VDC) *6, (Note)
U	With differential pressure switch (30 VDC) *6
T	With element service indicator
V	White vaseline

*5 Without a valve function

*6 Differential pressure switch is included, (but not assembled).

(Note) Select "U" if conformity to the EU directive is required.

Auto Drain Specifications/Option Combinations

○ : All types of auto drain specifications are available. (including drain guide, "J" specification)

△ : N.C. auto drain ("C" specification) is not available.

▼ : Both N.C. and N.O. auto drain ("C", "D" specification) are not available.

	Nil	F	H	R	S	U	T	V
Nil	○	○	○	○	○	○	○	○
F	○	○	○	○	○	○	○	○
H	○	○	○	○	○	○	○	○
R	○	○	○	○	○	○	○	○
S	○	○	○	○	○	○	○	○
U	Note			Note				
T								
V	○	○	○	○	○	○	○	○

Note: Only one drain exhaust method can be selected.

□ : Not available

Auto drain *2 *3

Symbol	Description
Nil	Without auto drain (With drain cock *4)
C	N.C. (Normally closed) Drain port is closed when pressure is not applied.
D	N.O. (Normally open) Drain port is open when pressure is not applied.

*2 Refer to page 265 for proper use of the auto drain.

(Only one auto drain specification can be selected.)

*3 Refer to the table on the left for the available combinations of the auto drain specifications and options.

*4 When the option J is selected, the auto drain and drain cock are not available.

Options

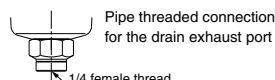
Symbol F: Rubber material: FKM

FKM is used for the parts such as O-ring and gasket.

Symbol H: For medium air pressure (1.6 MPa)

Can be used up to 1.6 MPa at maximum.

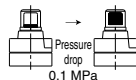
Symbol J: Drain guide 1/4 female threaded



Symbol R: IN-OUT reversal direction

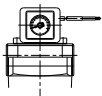
Flow direction: Right to left
Air flow is changed to right to left. (Flow direction of the standard: Left to right)

Symbol T: With element service indicator



Clogging of the element can be observed visually.

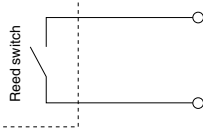
Symbol S: With differential pressure switch (with indicator)



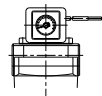
Clogging of the element can be observed visually or with an electrical signal.

* The rated contact voltage is different from "U".

Max. contact capacity: 10 VA AC, 10 W DC
Rated contact voltage (max. operating current): 125 V AC (0.08 A), 30 V DC (0.33 A)



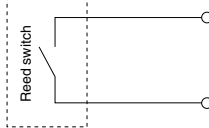
Symbol U: With differential pressure switch (with indicator)



Clogging of the element can be observed visually or with an electrical signal.

* The rated contact voltage is different from "S".

Max. contact capacity: 10 W DC
Rated contact voltage (max. operating current): 30 V DC (0.33 A)



Symbol V: White vaseline

The body/housing is degreased, and the grease used for the parts requiring lubrication has been changed to white vaseline.

Main Line Filter

AFF Series

RoHS

Can remove impurities such as oil, water and foreign matter in compressed air and can improve the function of a dryer in the downstream, extend the replacement period of precision filter element, and prevent trouble with the equipment.

Modular connection is possible with AFF2C to 22C.

(For details, refer to page 266.)



AFF2C to 22C



AFF37B, 75B

Symbol



(Drain cock specifications)



(Auto drain specifications)



Made to Order

(For details, refer to page 272.)

Caution

Be sure to read this before handling the products.
Refer to back page 50 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

Model

Model	AFF2C	AFF4C	AFF8C	AFF11C	AFF22C	AFF37B	AFF75B	AFF75A	AFF125A	AFF150A	AFF220A
Rated flow (Note) (L/min (ANR))	300	750	1500	2200	3700	6000	12000	12400	23700	30000	45000
Port size	1/8, 1/4	1/4, 3/8	3/8, 1/2	1/2, 3/4	3/4, 1	1 1/2	1 1/2, 2	50(2B)	80(3B)	100(4B)	100(4B)
								JIS 10K FF flange			
Weight (kg)	0.38	0.55	0.9	1.4	2.1	4.2	10.5	50	52	72	87

Note) Max. flow capacity at 0.7 MPa.

Max. flow capacity varies depending on the operating pressure.

Refer to "Flow Rate Characteristics" (page 218) and "Maximum Flow Capacity Line" below.

Specifications

Fluid	Compressed air
Max. operating pressure	1.0 MPa Note 1)
Min. operating pressure Note 2)	0.05 MPa
Proof pressure	1.5 MPa
Ambient and fluid temperature	5 to 60°C
Filtration rating	3 μm (Filtration efficiency: 99%)
Element replacement period	2 years Note 1) or when pressure drop reached 0.1 MPa

Note 1) The maximum operating pressure of the AFF75A to AFF220A is 0.97 MPa, and the element replacement period is when the pressure drop reaches 0.1 MPa or after 1 year operation.

Note 2) With auto drain: 0.1 MPa (N.O. type) or 0.15 MPa (N.C. type)

Accessory Part No./For AFF2C to 22C, AFF37B/75B

Applicable model	AFF2C	AFF4C	AFF8C	AFF11C	AFF22C	AFF37B	AFF75B
Bracket assembly (with 2 mounting screws)	AM-BM101	AM-BM102	AM-BM103	AM-BM104	AM-BM105	BM56	BM57

Accessory Part No./For AFF75A to 220A

Applicable model	AFF75A	AFF125A	AFF150A	AFF220A
Auto drain with metal case (2 pcs. each)	AD402-03-2			
Auto drain with resin case (2 pcs. each)	AD402-03			
Pressure gauge (2 pcs. each)	G46-15-02			
Companion flange (2 pcs. each)	50(2B)JIS 10K FF flange	80(3B)JIS 10K FF flange	100(4B)JIS 10K FF flange	
Anchor bolt (3 pcs. each)	A1-2S			

Model Selection

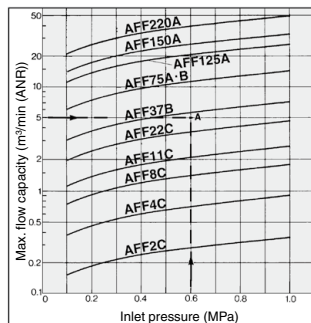
Select a model in accordance with the following procedure taking the inlet pressure and the max. flow capacity into consideration.
(Example) Inlet pressure: 0.6 MPa

Max. flow capacity: 5 m³/min (ANR)

1. Obtain the intersecting point A of inlet pressure and max. flow capacity in the graph.
2. The AFF37B is obtained when the max. flow capacity line is above the intersecting point A in the graph.

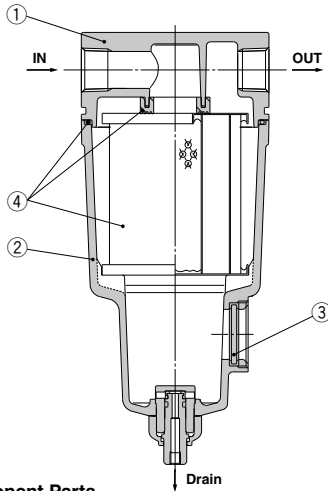
Note) Make sure to select a model that has the max. flow capacity line above the obtained intersecting point. With a model that has the max. flow capacity line below the obtained intersecting point, the flow rate will be exceeded, thus leading to a problem such as being unable to satisfy the specifications.

Maximum Flow Capacity Line



Construction

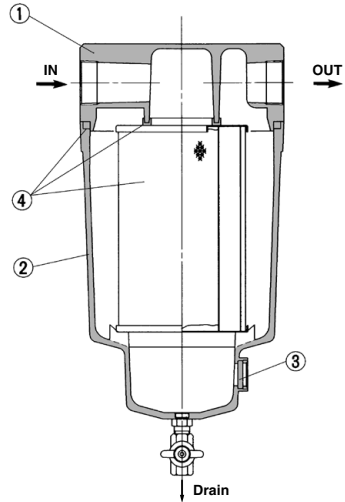
AFF2C to 22C, AFF37B



Component Parts

No.	Description	Material	Note
1	Body	Aluminum alloy	Inner/outer surface coating
2	Housing (Case)	Aluminum alloy	
3	Sight glass	Tempered glass	—

AFF75B



Note) The figure shows the drain cock specification.

Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Please refer to pages 220 through to 222 for details.

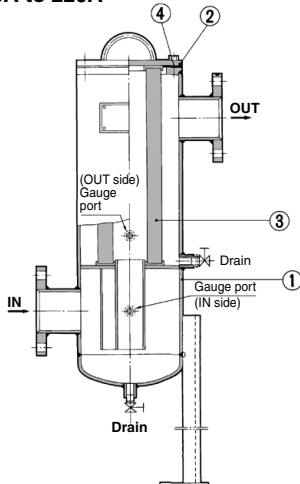
Replacement Parts

No.	Description	Material	Applicable model	Model					
				AFF2C	AFF4C	AFF8C	AFF11C	AFF22C	AFF37B
4	Element assembly	Cotton paper, others	Except option F	AFF-EL2B	AFF-EL4B	AFF-EL8B	AFF-EL11B	AFF-EL22B	AFF-EL37B
			For option F	AFF-EL2B-F	AFF-EL4B-F	AFF-EL8B-F	AFF-EL11B-F	AFF-EL22B-F	AFF-EL75B

• Element assembly: With gasket (1 pc.) and O-ring (1 pc.)

• Refer to page 280 for replacement of auto drain.

AFF75A to 220A



Component Parts

No.	Description	Material	Note
1	Case	Carbon steel	
2	Cover	Carbon steel	

Replacement Parts

No.	Description	Material	Qty.	Model			
				AFF75A	AFF125A	AFF150A	AFF220A
3	Element	—	1	EC700-003N	EC800-003N	EC900-003N	EC900-003N
4	Seal	NBR	1	AL-33S	AL-34S	AL-35S	AL-35S