

**How to Order****AFF37B, 75B**

**AFF** **37** **B** - **10** - - - -

Size

37
75

Thread type

Symbol	Type
Nil	Rc
F	G
N	NPT

Port size

Symbol	Port size	Applicable size	
		37	75
10	1	●	—
14	1 1/2	●	●
20	2	—	●

Accessory

Symbol	Description
Nil	—
B	Bracket *1

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

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 \*2

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

Symbol	Description
Nil	—
J	Drain guide 1/4 female threaded *5
R	IN-OUT reversal direction
T	With element service indicator

\*5 Without a valve function

Auto drain \*2

Symbol	Description
Nil	Without auto drain (With drain cock *3)
D	N.O. (Normally open) Drain port is open when pressure is not applied.

\*2 Refer to the following table for the available combinations of the auto drain specifications and options.

\*3 When the option J is selected, the auto drain and drain cock are not available.

\*4 Body size 75B is equipped with a ball valve (Rc 3/8). Mount a piping adapter IDF-AP609 (page 267) to the ball valve if NPT 3/8 female threaded is required.

**Auto Drain Specifications/Option Combinations**

○ : Available    □ : Not available

Auto drain specifications/Option				Auto drain specifications		Option				Applicable model	
				D	J	R	T			AFF37B	AFF75B
Auto drain specifications	N.O. auto drain			D	□	○	○	○	○	○	○
	Drain guide 1/4			J	□	○	○	○	○	○	○
	IN-OUT reversal direction			R	○	○	○	○	○	○	○
	With element service indicator			T	○	○	○	○	○	○	○

**AFF75A to 220A**

**AFF** **75** **A** - **20** - - - -

Size

75
125
150
220

Port size

Symbol	Port size	Applicable size			
		75	125	150	220
20	50(2B) JIS 10K FF flange	●	—	—	—
30	80(3B) JIS 10K FF flange	—	●	—	—
40	100(4B) JIS 10K FF flange	—	—	●	●

Auto drain (Accessory)

Symbol	Description
Nil	Without auto drain
D	With metal case (2 pcs. each)
P	With resin case (2 pcs. each)

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.

Anchor bolt (Accessory)

Symbol	Description
Nil	Without anchor bolt
L	Anchor bolt (3 pcs. each)

Companion flange (Accessory)

Symbol	Description
Nil	Without companion flange
F	Companion flange (2 pcs. each)

Pressure gauge (Accessory)

Symbol	Description
Nil	Without pressure gauge
G	Pressure gauge (2 pcs. each)

# 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)	AI-2S			

### Model Selection

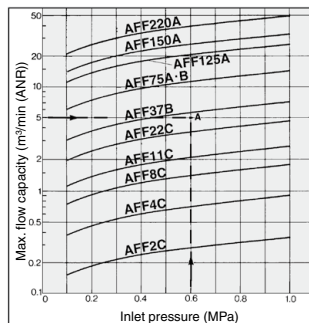
Select a model in accordance with the following procedure taking the inlet pressure and the max. flow capacity into consideration.  
(Example) Inlet pressure: 0.6 MPa

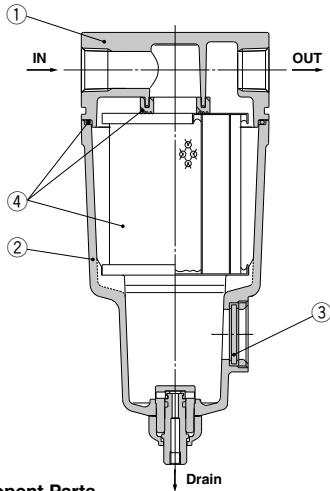
Max. flow capacity: 5 m<sup>3</sup>/min (ANR)

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

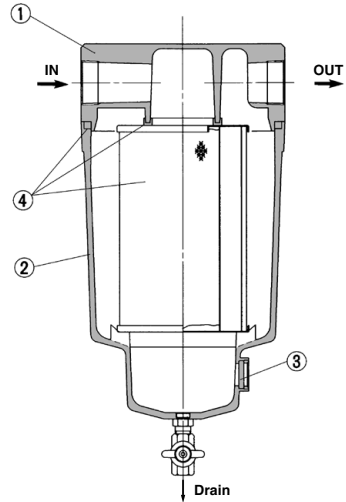
Note) Make sure to select a model that has the max. flow capacity line above the obtained intersecting point. With a model that has the max. flow capacity line below the obtained intersecting point, the flow rate will be exceeded, thus leading to a problem such as being unable to satisfy the specifications.

### 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.

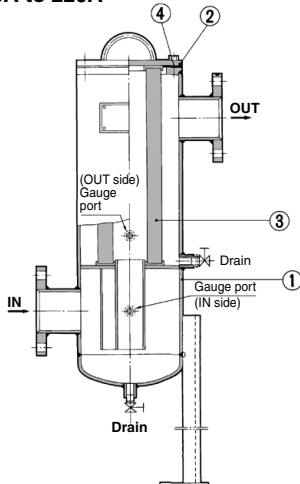
Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Please refer to pages 220 through to 222 for details.

**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