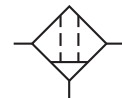


Предназначен для удаления из сжатого воздуха масляного тумана и твердых частиц размером свыше 0.3 мкм.

- Высокая пропускная способность
- Продолжительный срок службы
- Встроенный индикатор контроля состояния фильтрующего элемента (потерь давления)
- Легкая замена фильтрующего элемента
- Большой объем резервуара
- Автоматический отвод конденсата
- Возможность модульного монтажа (для AM150C ~ AM550C)
- Возможность исполнения с уплотнениями из FKM (для AM150C ~ AM550C)



### Технические характеристики

Типоразмер <sup>4)</sup>	AM150C	AM250C	AM350C	AM450C	AM550C	AM650	AM850
Присоединительная резьба	G1/8 G1/4	G1/4 G3/8	G3/8 G1/2	G1/2 G3/4	G3/4 G1	G1 G1 1/2	G1 1/2 G2
Номинальный расход воздуха (норм. л/мин) <sup>1)</sup>	300	750	1500	2200	3700	6000	12000
Испытательное давление (МПа)	1.5 (2.0 – для исполнения с опцией H)						
Макс. рабочее давление (МПа)	1.0 (1.6 – для исполнения с опцией H)						
Мин. рабочее давление (МПа)	0.05						
Диапазон рабочих температур (°C)	5 ~ 60						
Тонкость фильтрации (мкм)	0.3						
Содержание масла на выходе <sup>2)</sup>	Не более 1 мг/норм. м <sup>3</sup>						
Срок службы фильтрующего элемента <sup>3)</sup>	2 года или при достижении перепада давления больше 0.1 МПа						
Вес (кг)	0.38	0.55	0.9	1.4	2.1	4.2	10.5

1) при давлении на входе P1=0.7 МПа

2) при 30 мг/норм.м<sup>3</sup> на входе

3) индикатор контроля состояния фильтрующего элемента полностью выдвигается при перепада давления 0.1 МПа

4) на большие типоразмеры используйте фильтры серии AFFPA с исполнением –X13

### Номер для заказа

Типоразмер	Присоединительная резьба	Номинальный расход воздуха (норм. л./мин.)	Номер для заказа	
				Исп. для высокого давления (1.6 МПа)
AM150C	G1/8	300	AM150C-F01C-T	AM150C-F01D-H
	G1/4		AM150C-F02C-T	AM150C-F02D-H
AM250C	G1/4	750	AM250C-F02C-T	AM250C-F02D-H
	G3/8		AM250C-F03C-T	AM250C-F03D-H
AM350C	G3/8	1500	AM350C-F03D-T	AM350C-F03D-H
	G1/2		AM350C-F04D-T	AM350C-F04D-H
AM450C	G1/2	2200	AM450C-F04D-T	AM450C-F04D-H
	G3/4		AM450C-F06D-T	AM450C-F06D-H
AM550C	G3/4	3700	AM550C-F06D-T	AM550C-F06D-H
	G1		AM550C-F10D-T	AM550C-F10D-H
AM650	G1	6000	AM650-F10D-T	
	G1 1/2		AM650-F14D-T	
AM850	G1 1/2	12000	AM850-F14D-T	
	G2		AM850-F20D-T	

Размеры см. стр. 30

Конструкция и модульный монтаж см. стр. 34

### Принадлежности (заказываются отдельно)

Типоразмер	AM150C	AM250C	AM350C	AM450C	AM550C	AM650	AM850
Крепежный угольник	AM-BM101	AM-BM102	AM-BM103	AM-BM104	AM-BM105	BM56	BM57
Переходная деталь	Y200	Y300	Y400	Y500	Y600	–	–
Сменный фильтрующий элемент	AM-EL150	AM-EL250	AM-EL350	AM-EL450	AM-EL550	AM-EL650	AM-EL850

# Микрофильтр AM

## Выбор модели

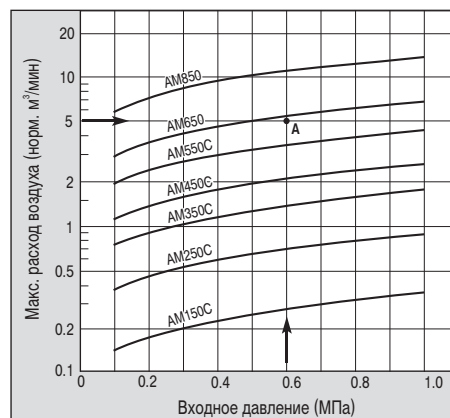
Модель микрофильтра выбирается по значениям входного давления и максимального расхода сжатого воздуха с использованием графика расходной характеристики.

### Пример:

Входное давление 0.6 МПа, максимальный уровень расхода 5 норм. м<sup>3</sup>/мин.

- На графике расходной характеристики находим точку пересечения **A** для значений давления питания 0.6 МПа и максимального расхода 5 норм. м<sup>3</sup>/мин.
- Далее выбирается ближайшая к точке **A** кривая максимального расхода, расположенная выше. В данном случае это кривая для фильтра AM650.

Не рекомендуется использовать данные устройства при расходах воздуха, превышающих расходы, указанные в технических характеристиках.



## Специальные исполнения

AM□-X37, AM□C-U	AM□-X6, AM□C-X6	AM□-X15, AM□C-X15	AM□C-F
<p>Дифференциальное реле давления, сигнализирующее о достижении предельно допустимого перепада давления.</p> <p>Контакты реле переключаются, когда разность между давлениями на входе и выходе достигает 0.1 МПа</p>	<p>Дифференциальный манометр GD40-2-01.</p> <p>Устанавливается на крышке фильтра и позволяет постоянно контролировать перепад давлений без дополнительных отводов от трубопроводов</p>	Фланцевое присоединение	Материал уплотнений FKM
AM□D, AM□C□D			
Устройство автоматического отвода конденсата			

# Mist Separator

# Series AM

Can remove oil mist in compressed air and remove particles such as rust or carbon of more than 0.3 μm.

Modular connection is possible with AM150C to 550C.  
(For details, refer to page 58.)

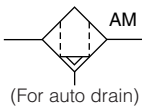
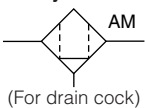


AM150C to 550C



AM650/850

Symbol



**Made to Order**  
(For details, refer to page 63.)

## Model

Model	AM150C	AM250C	AM350C	AM450C	AM550C	AM650	AM850
Rated flow (ℓ/min (ANR)) <sup>Note)</sup>	300	750	1500	2200	3700	6000	12000
Port size	1/8, 1/4	1/4, 3/8	3/8, 1/2	1/2, 3/4	3/4, 1	1, 1 1/2	1 1/2, 2
Mass (kg)	0.38	0.55	0.9	1.4	2.1	4.2	10.5



Note) Max. flow at 0.7 MPa.

Max. flow varies depending on the operating pressure.

Refer to "Flow Characteristics" (page 21) and "Maximum Air Flow" (page 22).



Note) Refer to "Made to Order" (page 63) for high flow type of AM850 or more.

## Specifications

Fluid	Compressed air
Max. operating pressure	1.0 MPa
Min. operating pressure*	0.05 MPa
Proof pressure	1.5 MPa
Ambient and fluid temperature	5 to 60°C
Nominal filtration rating	0.3 μm (Filtration efficiency: 99.9%)
Oil mist density at outlet	Max. 1.0 mg/m <sup>3</sup> (ANR) (=0.8 ppm)*
Element life	2 years or when pressure drop reached 0.1 MPa

\* With auto drain: 0.1 MPa (N.O. type) or 0.15 MPa (N.C. type)

\* Oil mist density at 30 mg/m<sup>3</sup> (ANR) blown out by compressor.

## Accessory

Applicable model	AM150C	AM250C	AM350C	AM450C	AM550C	AM650	AM850
Bracket assembly (with 2 mounting screws)	AM-BM101	AM-BM102	AM-BM103	AM-BM104	AM-BM105	BM56	BM57

## Caution

Be sure to read this before handling.

Refer to back pages 1 and 2 for Safety Instructions, "Precautions for Handling Pneumatic Devices" (M-03-E3A) for Common Precautions, and back pages 3 through to 7 for Specific Product Precautions.

## How to Order



### AM150C to 550C

AM **550C** - [ ] **10** [ ] [ ] - [ ] - [ ]

**Body size**

Symbol	Applicable compressor output (guide)
150C	2.2 kW
250C	3.7 kW
350C	7.5 kW
450C	11 kW
550C	22 kW

**Thread type**

Symbol	Type
—	Rc
F	G*1
N	NPT

\*1 Conforms to ISO1179-1.

**Port size**

Symbol	Size	Applicable body size				
		150C	250C	350C	450C	550C
01	1/8	●				
02	1/4	●	●			
03	3/8		●	●		
04	1/2			●	●	
06	3/4				●	●
10	1					●

**Accessory**

Symbol	Description
—	—
B	Bracket *2

\*2 Bracket is included, (but not assembled).

**Made to Order**

("How to Order" and the applicable models are different from those shown on this page. Be sure to refer to "Made to Order".)

Symbol	Description	Page for details
—	—	—
X6	With differential pressure gauge (GD40-2-01)	P.64
X26	N.C., N.O. auto drain, drain piping type	P.65

**Option \*3**

Symbol	Description
—	—
F	Rubber material: Fluororubber
H	For medium air pressure (1.6 MPa)
J	Drain guide 1/4 female threaded *4
R	IN-OUT reversal direction
U	With differential pressure switch (30 VDC) *5
T	Element service indicator
V	Degreasing wash, *6 white vaseline

\*4 Drain piping and piping for a stop valve such as ball valve are required.  
 \*5 Differential pressure gauge is included, (but not assembled).  
 \*6 Only body/housing is degreasing washed.

**Auto Drain Specifications/Option Combinations**

○ : All draining specifications are available (including drain guide, J type).  
 △ : N.C. auto drain (C type) is not available.  
 ▼ : N.C. auto drain (C type) and N.O. auto drain (D type) are not available.

	—	F	H	R	U	T	V
—	○	○	△	○	Note	○	○
F	○	○	▼	○			▼
H	△	▼	○	△			▼
R	○	○	△		Note		○
U	Note			Note			
T	○						○
V	○	▼	▼	○		○	

Note) one of them selectable □ : Not available

**Auto drain \*3**

Symbol	Description
—	Drain cock (Without auto drain)
C	N.C. auto drain
D	N.O. auto drain

\*3 Refer to the table below for the combination between the draining specification and option. (Only one draining specification is selectable).

## Options

**Symbol F: Rubber material: Fluororubber**

Fluororubber 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**

Can be piped to the drain exhaust port.

**Symbol R: IN-OUT reversal direction**

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

**Symbol U: With differential pressure switch (with indicator)**

Saturation of the separator can be observed visually or by an electrical signal. (Element life check)

**Symbol T: With element service indicator**

Saturation of the separator can be observed visually. (Element life check)

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

**Symbol V: Degreasing wash, white vaseline**

Body/housing is degreasing washed. The lubrication grease for O-ring and gasket is changed to white vaseline.



**How to Order**

**AM650/850**



**Body size**

Symbol	Applicable compressor output (guide)
<b>650</b>	37 kW
<b>850</b>	75 kW

**Thread type**

Symbol	Type
—	Rc
<b>F</b>	G
<b>N</b>	NPT

**Port size**

Symbol	Size	Applicable body size	
		650	850
<b>10</b>	1	●	—
<b>14</b>	1 1/2	●	●
<b>20</b>	2	—	●

**Accessory**

Symbol	Description
—	—
<b>B</b>	Bracket *1

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

**Made to Order**

("How to Order" and the applicable models are different from those shown on this page. Be sure to refer to "Made to Order".)

Symbol	Description	Page for details
—	—	—
<b>X6</b>	With differential pressure gauge (GD40-2-01)	P.64
<b>X26</b>	N.C., N.O. auto drain, drain piping type	P.65
<b>X12</b>	White vaseline specifications	P.65

**Option \*2**

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

\*4 Drain piping and piping for a stop valve such as ball valve are required.

**Auto drain \*2**

Symbol	Description
—	Drain cock (Without auto drain) *3
<b>D</b>	N.O. auto drain

\*2 Refer to "Auto Drain Specifications/Option Combinations".

\*3 Body size 850 is equipped with a ball valve (Rc3/8 female threaded). Mount a piping adapter IDF-AP609 (page 58) to the ball valve if NPT3/8 female threaded is required.



Note) Refer to "How to Order Bowl Assembly" on page 59.

**Auto Drain Specifications/Option Combinations**

○ : Available    □ : Not available

Auto drain specifications/Option		Auto drain specifications	Option			Applicable model		
			D	J	R	T	AM650	AM850
Auto drain specifications	N.O. auto drain	<b>D</b>	□	□	○	○	○	○
	Drain guide 1/4	<b>J</b>	□	□	○	○	○	□
Option	IN-OUT reversal direction	<b>R</b>	○	○	□	○	○	○
	With element service indicator	<b>T</b>	○	○	○	□	○	○

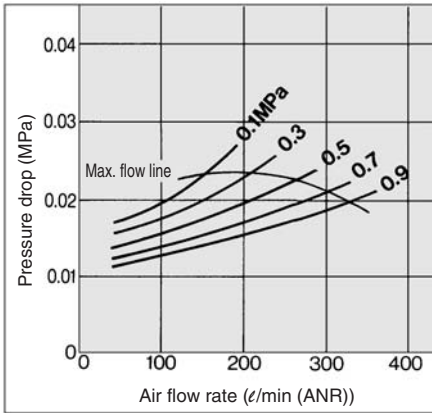
# Series AM

## Flow Characteristics (Element oil saturation)

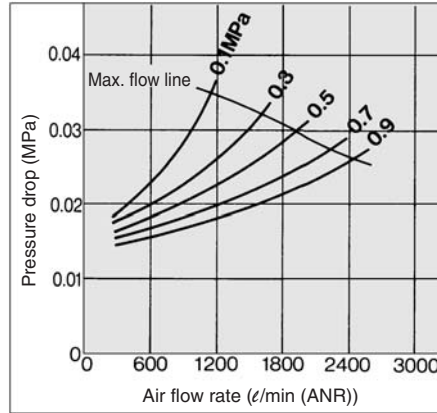


Note) Compressed air over max. flow line in the table below may not meet the specifications of the product. It may cause damage to the element.

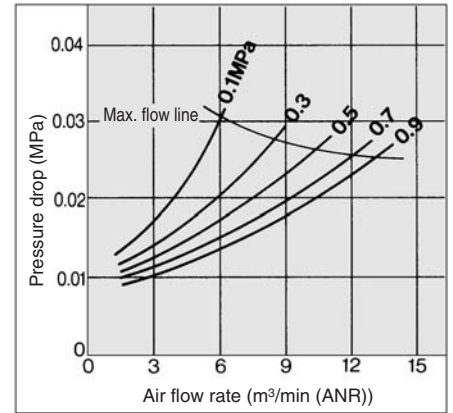
**AM150C**



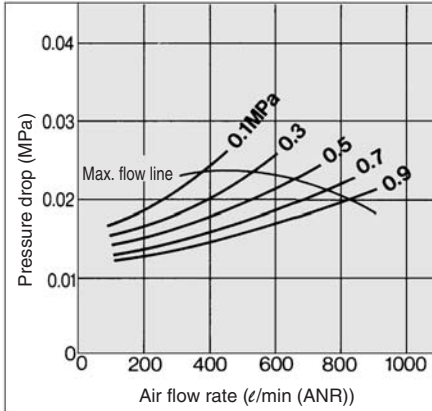
**AM450C**



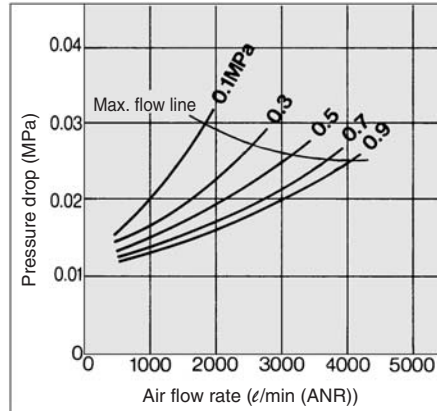
**AM850**



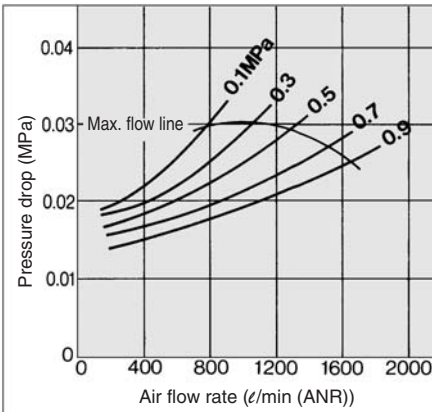
**AM250C**



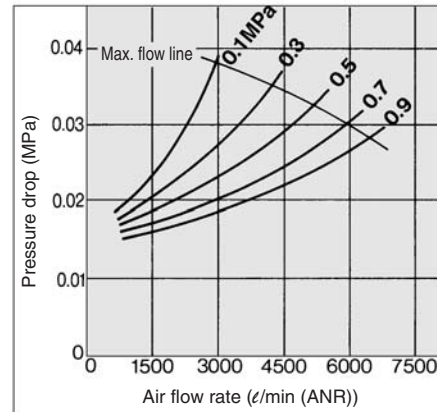
**AM550C**



**AM350C**

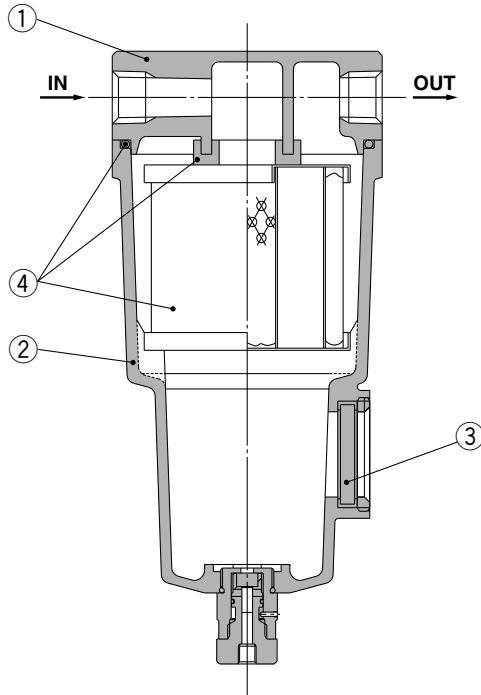


**AM650**

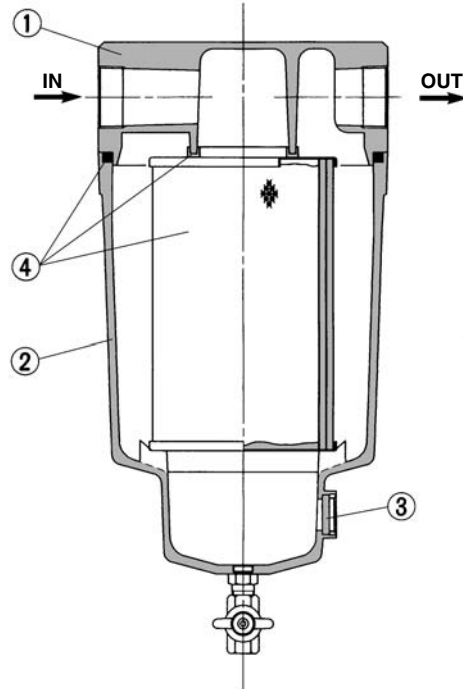


## Construction

### AM150C to 550C, AM650



### AM850



### Component Parts

No.	Description	Material	Note
1	<b>Body</b>	Aluminum die-casted	Chrome treated
2	<b>Housing</b>	Aluminum die-casted*	Epoxy coating on inner surface
3	<b>Sight glass</b>	Tempered glass	—

\* The AM850 is aluminum casted.



Note) Refer to "How to Order Bowl Assembly" on page 59.



Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Refer to dimensions on pages 23 through to 25 for details.

### Replacement Parts

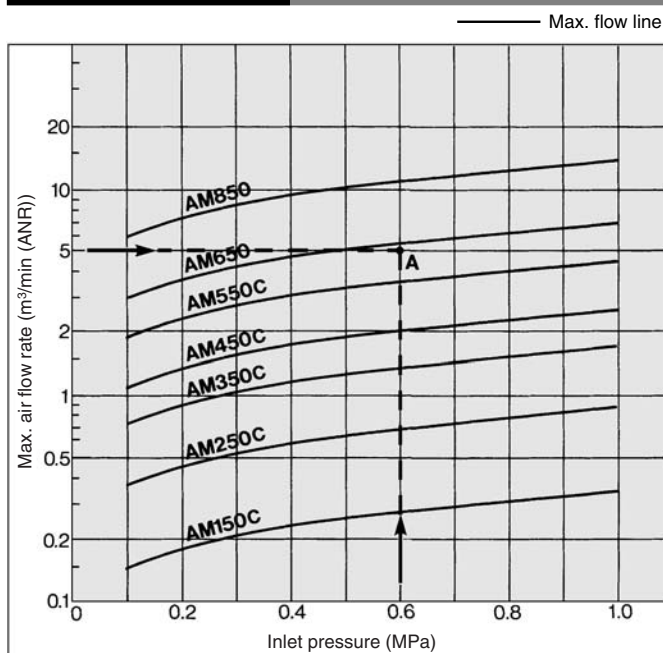
No.	Description	Material	Applicable model	Model						
				AM150C	AM250C	AM350C	AM450C	AM550C	AM650	AM850
4	<b>Element assembly</b>	Glass fiber, others	Except option F	AM-EL150	AM-EL250	AM-EL350	AM-EL450	AM-EL550	AM-EL650	AM-EL850
			For option F	AM-EL150-F	AM-EL250-F	AM-EL350-F	AM-EL450-F	AM-EL550-F	—	—

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

\* Refer to back page 6 for replacement of auto drain.

\* Element assemblies for Made to Order (X6, X12, X20, X26) are same as those for standard (see the above table).

### Maximum Air Flow



### Model Selection

Select a model in accordance with the following procedure taking the inlet pressure and the max. air flow rate into consideration.

(Example) Inlet pressure: 0.6 MPa

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

1. Obtain the intersecting point A of inlet pressure and max. air flow rate in the graph.
2. The AM650 is obtained when the max. flow line is above the intersecting point A in the graph.

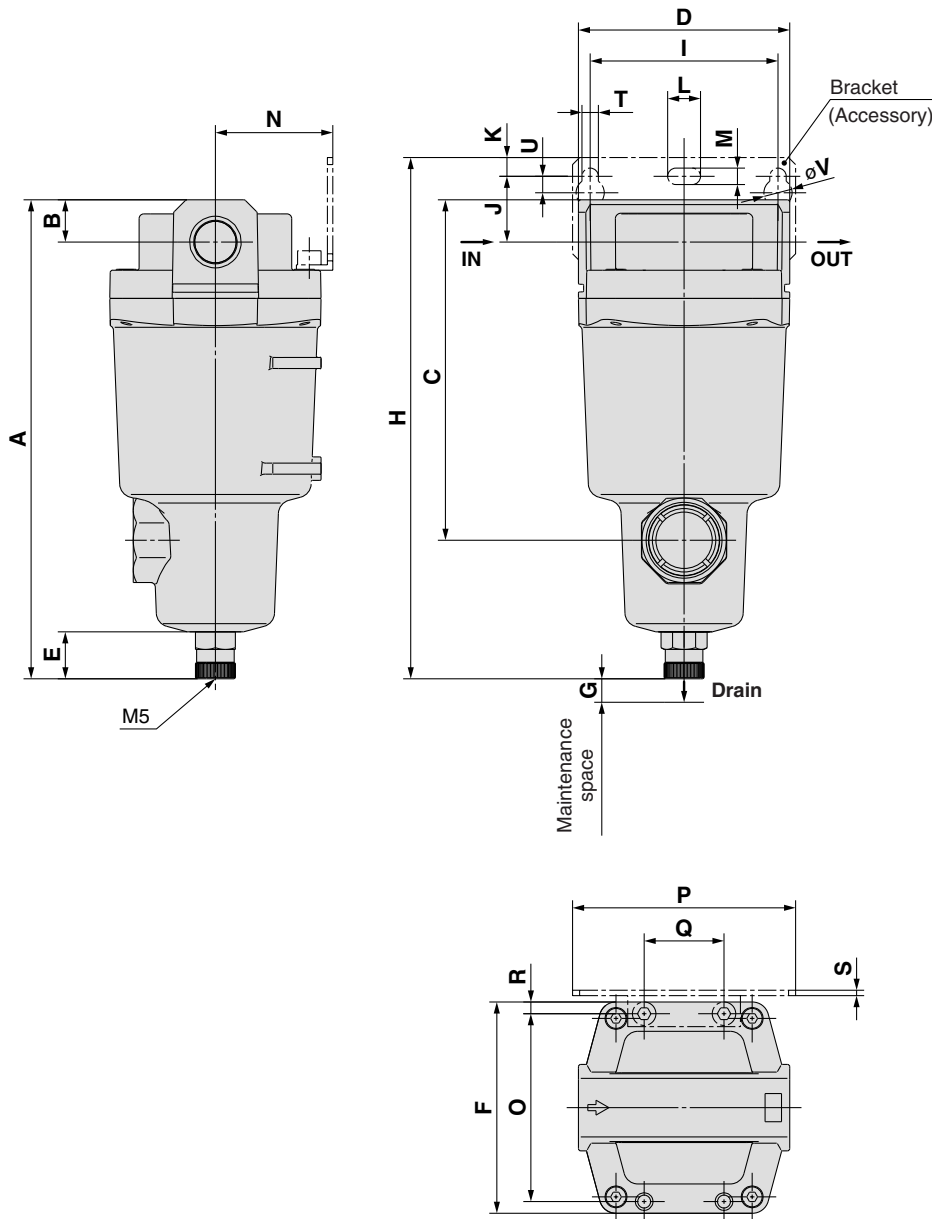


Note) Make sure to select a model that has the max. flow line above the obtained intersecting point. With a model that has the max. flow line below the obtained intersecting point, the flow rate will be exceeded, thus leading to a problem such as being unable to satisfy the specifications.

# Series AM

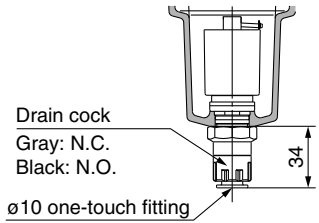
## Dimensions

### AM150C to 550C

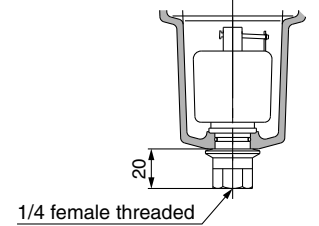


### Auto drain

C: With auto drain (N.C.)  
D: With auto drain (N.O.)

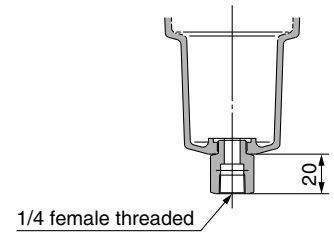


Combination of D: With auto drain (N.O.)  
and H: For medium air pressure

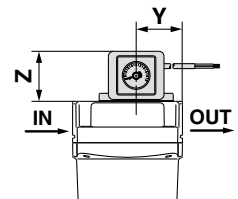


### Option

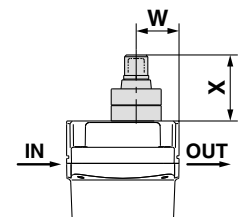
J: Drain guide 1/4 female threaded



U: With differential pressure switch (with indicator)



T: With element service indicator

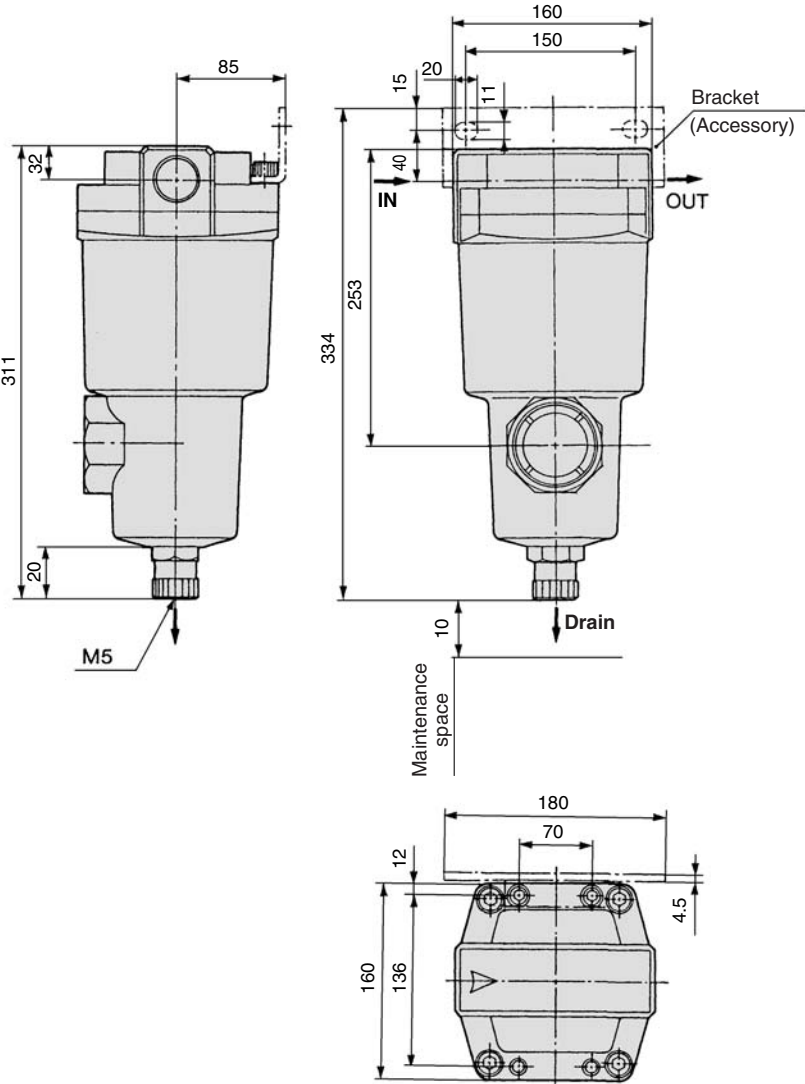


Model	Port size	A	B	C	D	E	F	G	Bracket related dimensions													Element service indicator related dimensions		Differential pressure switch related dimensions			
									H	I	J	K	T	U	L	M	V	N	O	P	Q	R	S	W	X	Y	Z
AM150C	1/8, 1/4	158	10	99	63	20	63	10	173	56	20	5	6	6	12	6	10	35	54	70	26	4.5	1.6	24	37	32	41
AM250C	1/4, 3/8	172	14	113	76	20	76	10	190	66	24	8	6	6	12	6	10	40	66	80	28	5	2	27	37	36	41
AM350C	3/8, 1/2	204	18	145	90	20	90	10	222	80	28	8	7	7	14	7	12	50	80	95	34	5	2.3	32	37	42	41
AM450C	1/2, 3/4	225	20	166	106	20	106	10	246	90	31	10	9	9	18	9	15	55	88	111	50	9	3.2	37	37	43	41
AM550C	3/4, 1	259	24	200	122	20	122	15	278	100	33	10	9	9	18	9	15	65	102	126	60	10	3.2	39	37	51	41



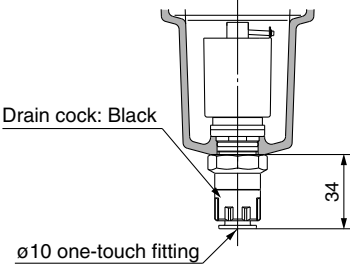
**Dimensions**

**AM650**



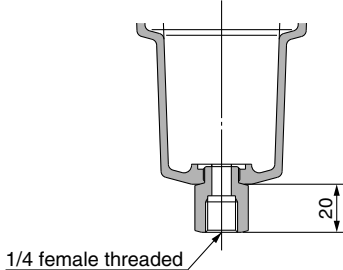
**Auto drain**

**D: With auto drain (N.O.)**

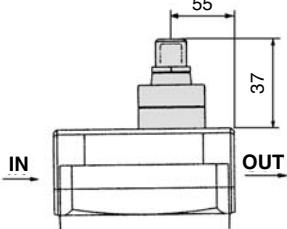


**Option**

**J: Drain guide 1/4 female threaded**



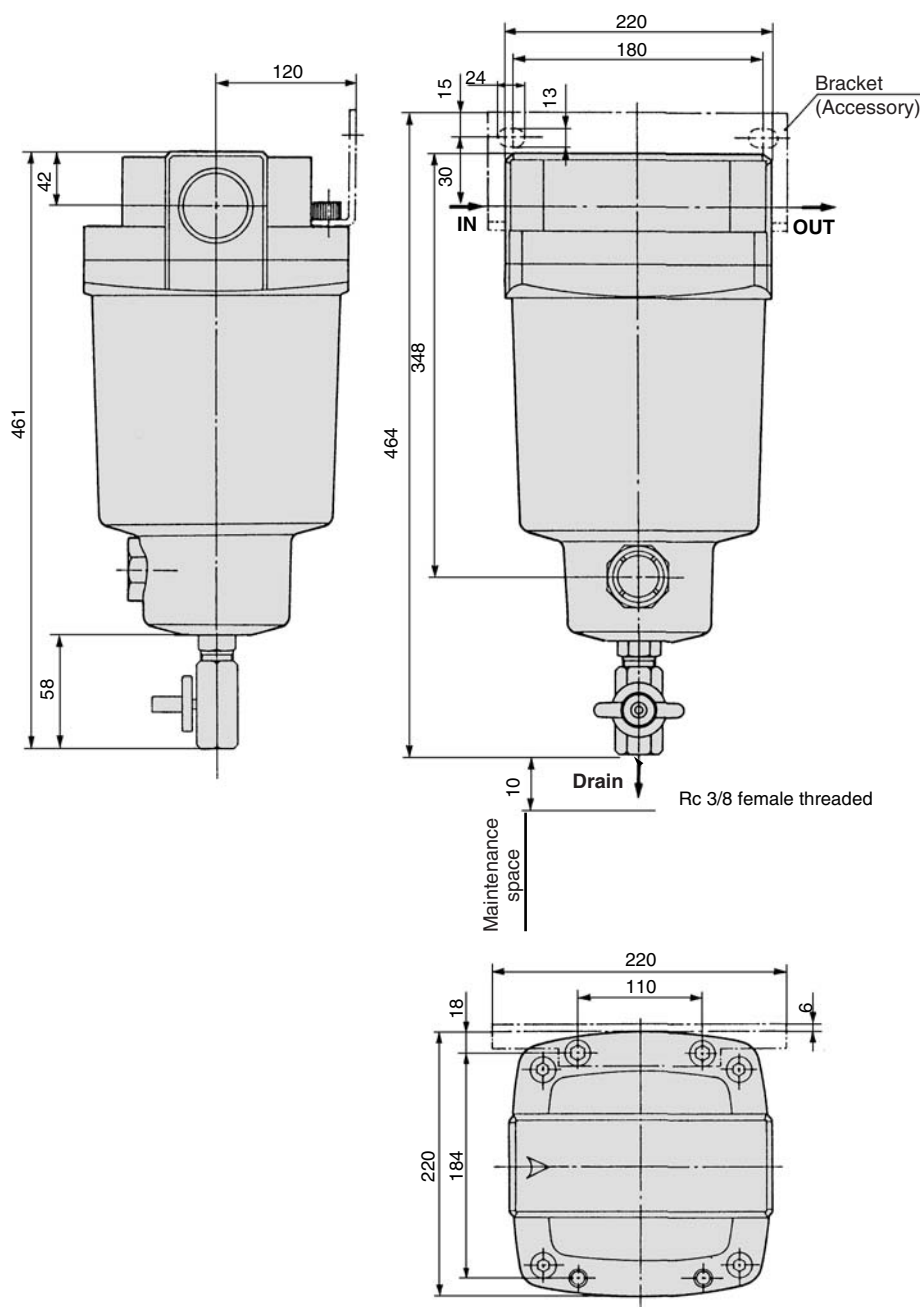
**T: With element service indicator**



# Series AM

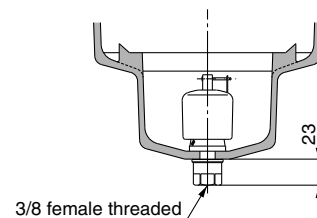
## Dimensions

### AM850



### Auto drain

D: With auto drain (N.O.)  
for AM850



### Option

T: With element service indicator

