

Odor Removal Filter Series *AMF*

Efficiently can remove odor in compressed air with an activated carbon element. The unit is designed for use in the area such as a clean room where odors must be avoided.

Can remove odor and gas ingredients in compressed air.
Activated carbon element with large filtration area.
Easy replacement of elements.

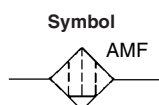
Modular connection is possible with AMF150C to 550C.
(For details, refer to page 204.)



AMF150C to 350C AMF450C/550C



AMF650/850



Made to Order
(For details, refer to page 210.)

Model

Model	AMF150C	AMF250C	AMF350C	AMF450C	AMF550C	AMF650	AMF850
Rated flow (ℓ/min (ANR)) Note)	200	500	1000	2000	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)	0.3	0.48	0.8	1.3	2.0	4.2	10.5



Note) Max. flow at 0.7 MPa.

Max. flow varies depending on the operating pressure.

Refer to "Flow Characteristics" (page 198) and "Maximum Air Flow" (page 197).

Model/Free Standing Type

Model	AMF800	AMF900	AMF1000
Rated flow (ℓ/min (ANR))	8000	24000	40000
Port size	50 (2B) JIS 10K FF flange	50 (2B), 80 (3B), 100 (4B) JIS 10K FF flange	100 (4B), 150 (6B) JIS 10K FF flange
Mass (kg)	90	200	410

Model/Piping Support Type

Model	AMF801	AMF901
Rated flow (ℓ/min (ANR))	8000	24000
Port size	50 (2B) JIS 10K FF flange	50 (2B), 80 (3B), 100 (4B) JIS 10K FF flange
Mass (kg)	40	120

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	0.01 μm (Filtration efficiency: 99.9%)
Cleanliness at outlet	Less than 100 particles of 0.3 μm or larger per cubic foot [Less than 35 particles per 10 liters (ANR)] (The "AME" series is required on the inlet side.)
Oil mist density at outlet	Max. 0.004 mg/m ³ (ANR) (≈ 0.0032 ppm) (The "AME" series is required on the inlet side.)
Element life	1. Replace the element when you smell oil on the outlet side. 2. Even if the deodorization performance is normal, the replacement interval for the element is when the pressure drop reaches 0.1 MPa or after two years of operation, whichever comes first.

Accessory (Option)

Applicable model	AMF150C	AMF250C	AMF350C	AMF450C	AMF550C	AMF650	AMF850
Bracket assembly (with 2 mounting screws)	AM-BM101	AM-BM102	AM-BM103	AM-BM104	AM-BM105	BM56	BM57

⚠ Caution

Be sure to read before handling.
Refer to front matters 42 and 43 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

Series AMF

How to Order



AMF150C to 550C

AMF **550C** - **10** -

Body size

150C
250C
350C
450C
550C

Thread type

Symbol	Type
Nil	Rc
F	G* ¹
N	NPT

*1 Conforms to ISO1179-1.

Option

Symbol	Description
Nil	—
F	Rubber material: Fluororubber
H	For medium air pressure (1.6 MPa)
R	IN-OUT reversal direction
V	Degreasing wash, * ³ white vaseline

*3 Only body/housing is degreasing washed.

Accessory

Symbol	Description
Nil	—
B	Bracket * ²

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

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					●

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 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 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

AMF650/850

AMF 650 - 10 - - -

Body size

650
850

Thread type

Symbol	Type
Nil	Rc
F	G
N	NPT

Port size

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

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
Nil	—	—
X12	White vaseline specifications	P.213

Option

Symbol	Description
Nil	—
R	IN-OUT reversal direction

Accessory

Symbol	Description
Nil	—
B	Bracket*

* Bracket is included, (but not assembled).



Note) Refer to "How to Order Bowl Assembly" on page 206.



Free standing type AMF800 to 1000

AMF 80 0 - 20

Body size

80
90
100

Vessel shape

Free standing type

Port size

Symbol	Size	Applicable body size		
		800	900	1000
20	50 (2B) JIS 10K FF flange	●	●	—
30	80 (3B) JIS 10K FF flange	—	●	—
40	100 (4B) JIS 10K FF flange	—	●	●
60	150 (6B) JIS 10K FF flange	—	—	●



Piping support type AMF801/901

AMF 80 1 - 20

Body size

80
90

Vessel shape

Piping support type

Port size

Symbol	Size	Applicable body size	
		801	901
20	50 (2B) JIS 10K FF flange	●	●
30	80 (3B) JIS 10K FF flange	—	●
40	100 (4B) JIS 10K FF flange	—	●



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

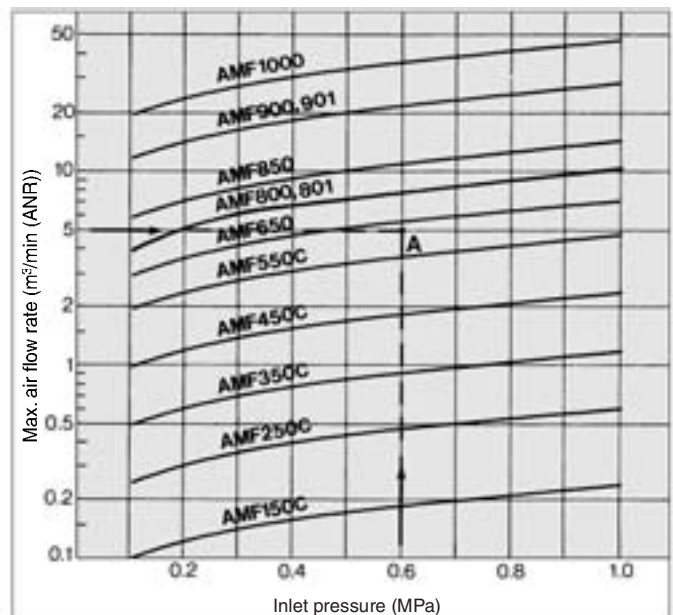
Max. air flow rate: 5 m³/min (ANR)

1. Obtain the intersecting point A of inlet pressure and max. air flow rate in the graph.
2. The AMF650 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.

Maximum Air Flow



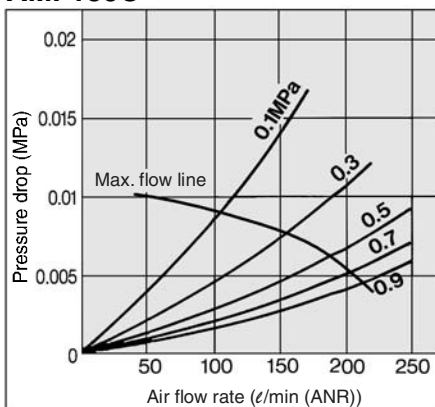
Series AMF

Flow Characteristics (Representative values)/Refer to "Model Selection" on page 197. (Element initial condition)

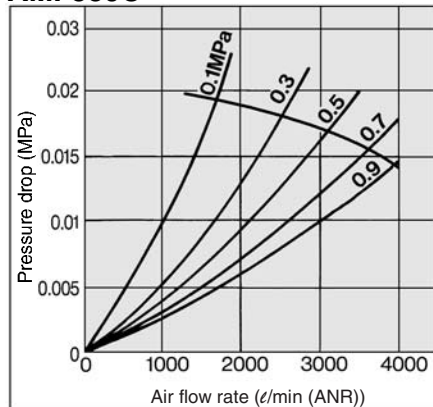


Note) Compressed air over max. flow line in the table below may not meet the specifications of the product.

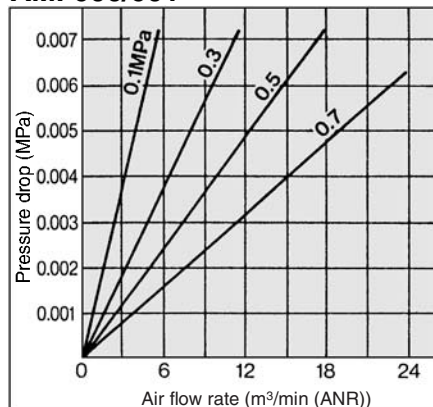
AMF150C



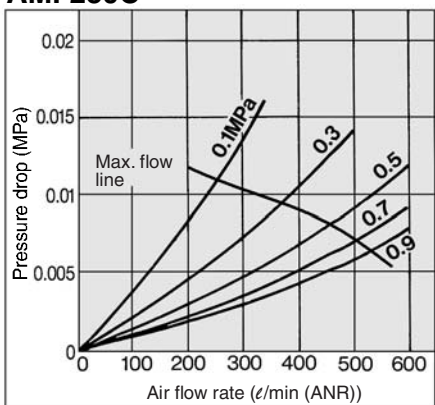
AMF550C



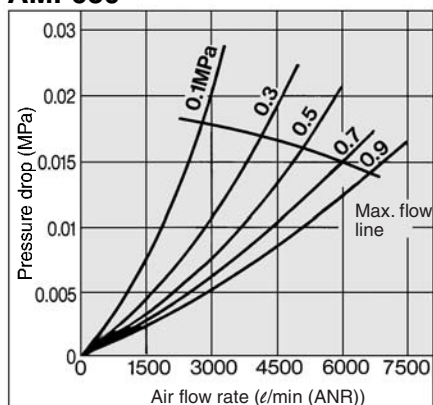
AMF900/901



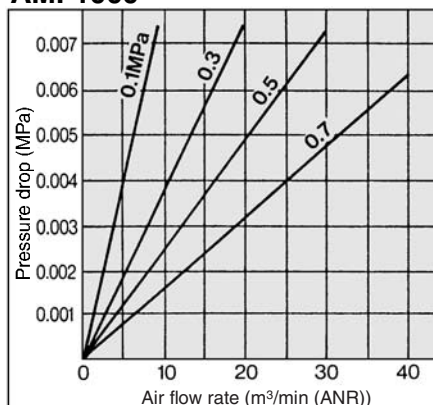
AMF250C



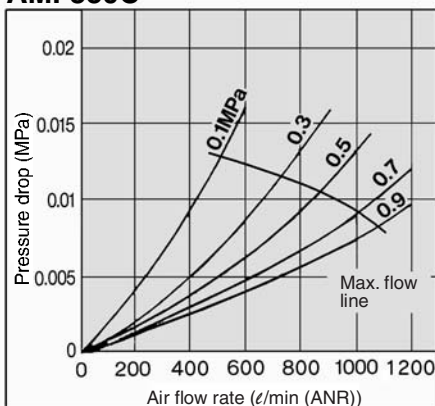
AMF650



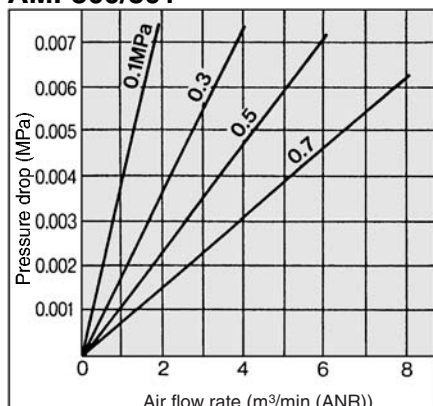
AMF1000



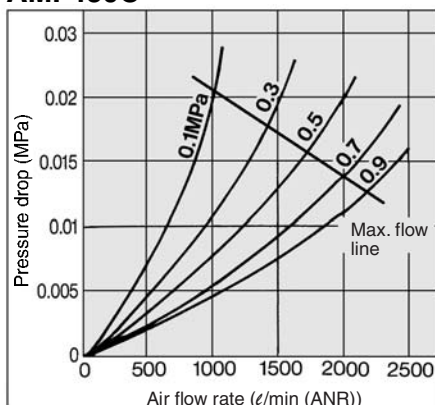
AMF350C



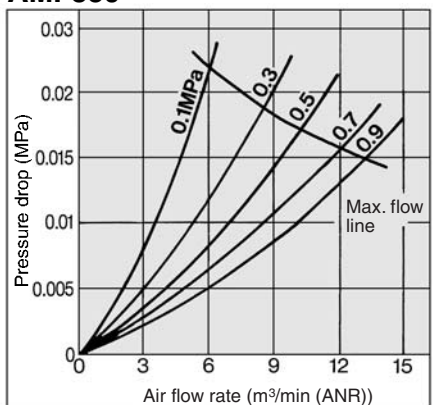
AMF800/801



AMF450C

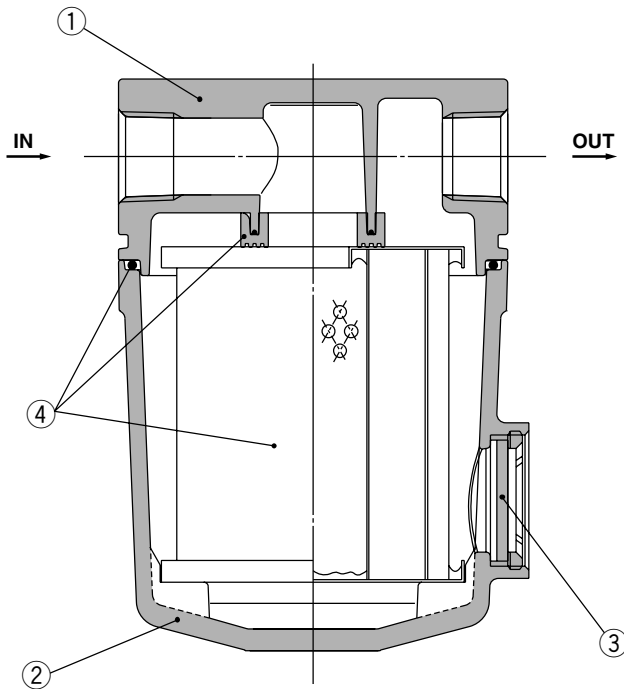


AMF850

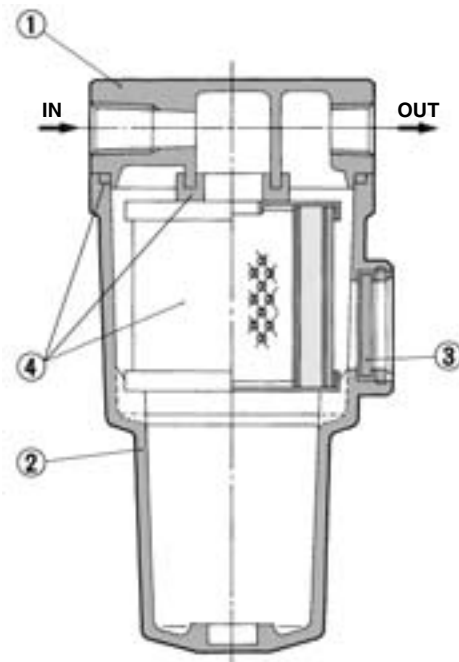


Construction

AMF150C to 550C



AMF650/850



Component Parts

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

* The AMF850 is aluminum casted.



Note) Refer to "How to Order Bowl Assembly" on page 206.



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 200 to 203 for details.

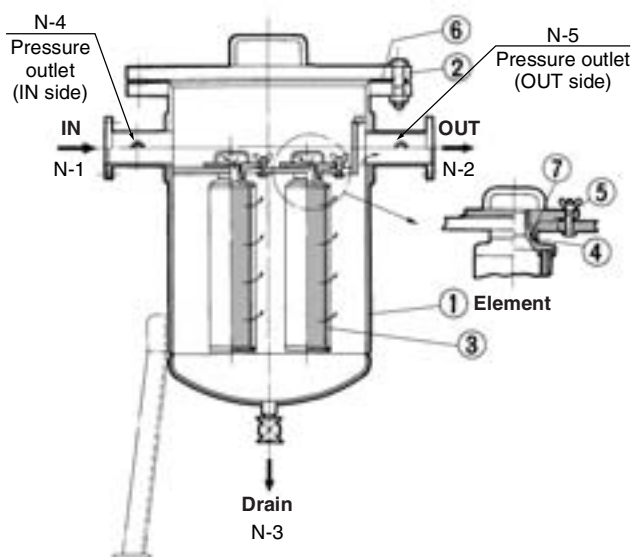
Replacement Parts

No.	Description	Material	Applicable model	Model						
				AMF150C	AMF250C	AMF350C	AMF450C	AMF550C	AMF650	AMF850
4	Element assembly	Glass fiber, others	Except option F	AMF-EL150	AMF-EL250	AMF-EL350	AMF-EL450	AMF-EL550	AMF-EL650	AMF-EL850
			For option F	AMF-EL150-F	AMF-EL250-F	AMF-EL350-F	AMF-EL450-F	AMF-EL550-F	—	—

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

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

AMF80□/90□/1000



Component Parts/Material

No.	Description	Model	
		AMF800/900/1000	AMF801/901
1	Filter case	SGP-E: SS400	SGP-E: SS400
2	Cover	SS400	SGP-E: SS400

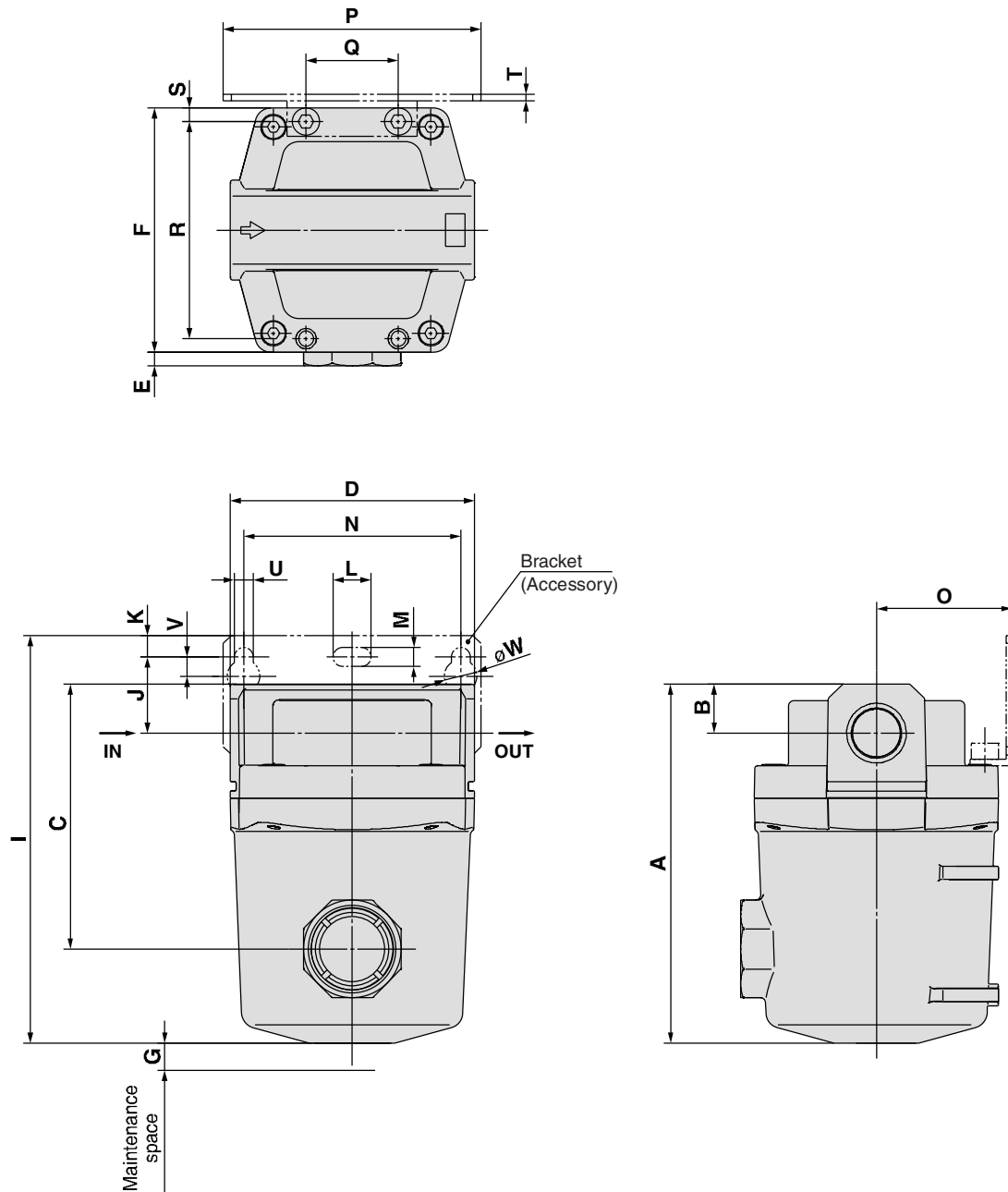
Replacement Parts

No.	Description	Material	Model				
			AMF800	AMF801	AMF900	AMF901	AMF1000
3	Element	—	63271	63271	63271 3 pcs.	63271 3 pcs.	63271 5 pcs.
4	Seal	NBR	63148	63148	63148 3 pcs.	63148 3 pcs.	63148 5 pcs.
5	Seal	NBR	O.D112 x I.D90 x T3 1 pc.	—	O.D112 x I.D90 x T3 3 pcs.	—	O.D112 x I.D90 x T3 5 pcs.
6	Gasket	V#6500	AL-61S	AL-60S	AL-63S 3 pcs.	AL-62S	AL-31S
7	O-ring	NBR	JIS B2401G35 1 pc.	JIS B2401G35 1 pc.	JIS B2401G35 3 pcs.	JIS B2401G35 3 pcs.	JIS B2401G35 5 pcs.

Series AMF

Dimensions

AMF150C to 350C

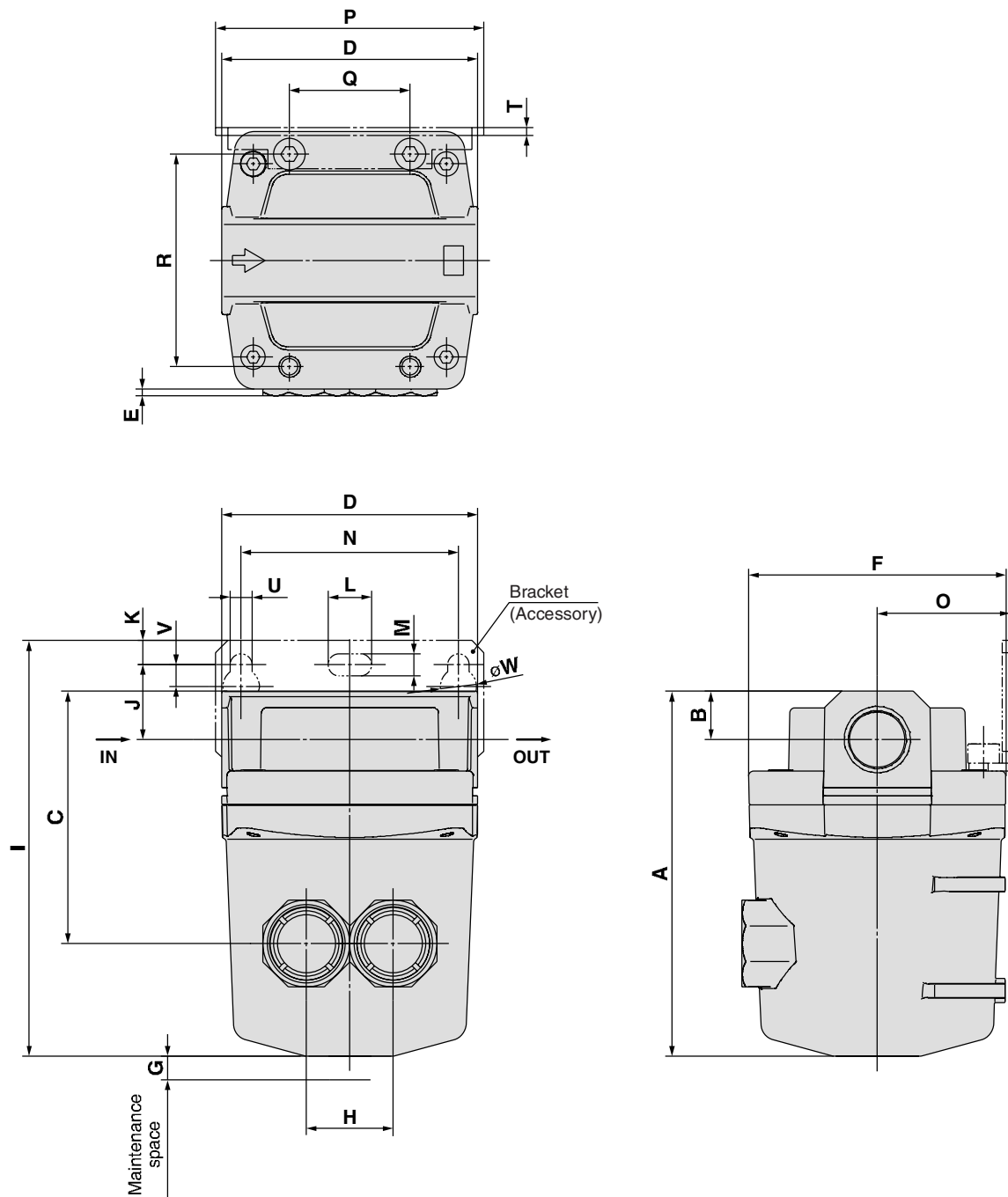


Model	Port size	A	B	C	D	E	F	G	Bracket related dimensions														
									I	N	J	K	U	V	L	M	W	O	P	Q	R	S	T
AMF150C	1/8, 1/4	83	10	54	63	7.5	63	10	99	56	20	5	6	6	12	6	10	35	70	26	54	4.5	1.6
AMF250C	1/4, 3/8	103	14	73	76	5	76	10	121	66	24	8	6	6	12	6	10	40	80	28	66	5	2
AMF350C	3/8, 1/2	132	18	98	90	5	90	10	150	80	28	8	7	7	14	7	12	50	95	34	80	5	2.3

(mm)

Dimensions

AMF450C/550C



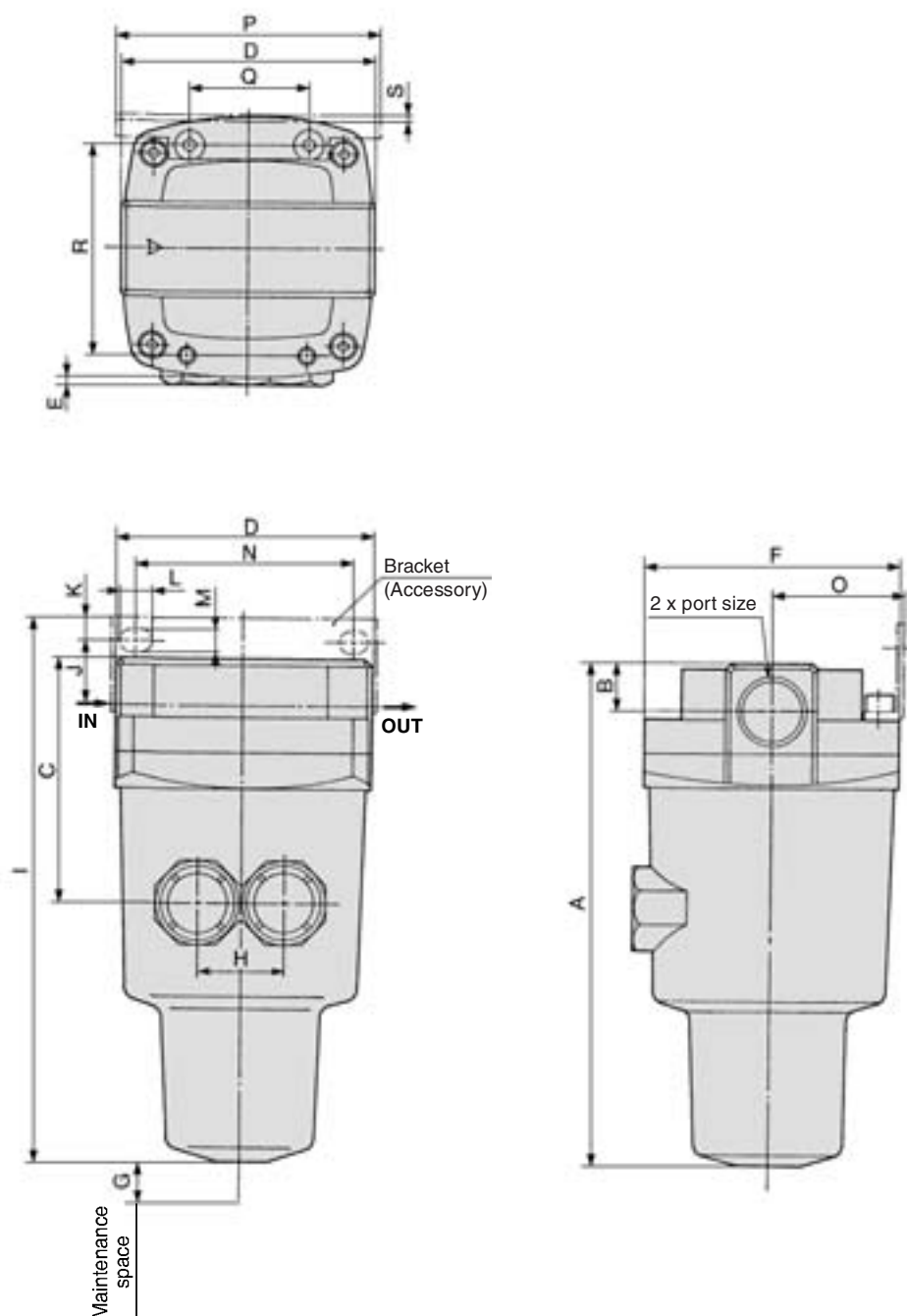
(mm)																							
Model	Port size	A	B	C	D	E	F	G	H	Bracket related dimensions													
										I	N	J	K	U	V	L	M	W	O	P	Q	R	T
AMF450C	1/2, 3/4	151	20	105	106	3	106	10	36	172	90	31	10	9	9	18	9	15	55	111	50	88	3.2
AMF550C	3/4, 1	187	24	130	122	3	122	15	44	206	100	33	10	9	9	18	9	15	65	126	60	102	3.2

(mm)

Series AMF

Dimensions

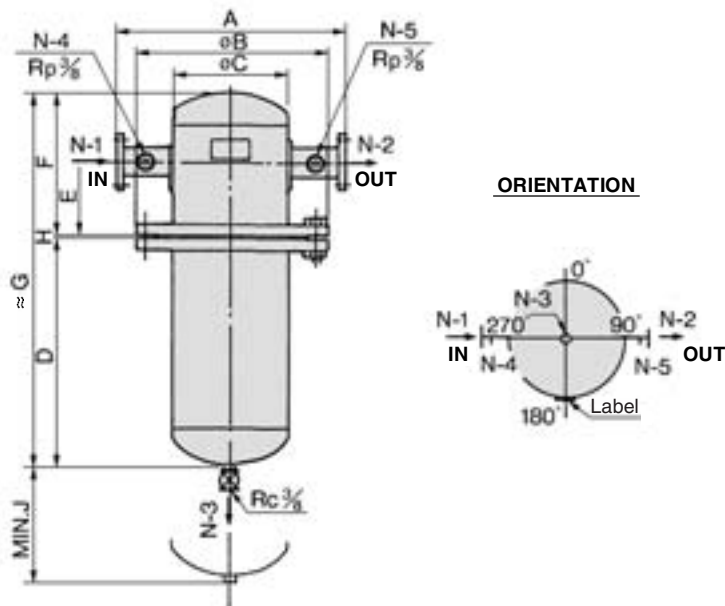
AMF650/850



(mm)																				
Model	Port size	A	B	C	D	E	F	G	H	Bracket related dimensions										
										I	J	K	L	M	N	O	P	Q	R	S
AMF650	1, 1½	291	32	167	160	—	160	10	66	314	40	15	20	11	150	85	180	76	136	4.5
AMF850	1½, 2	403	42	235	220	—	220	10	96	406	30	15	24	13	180	120	220	110	184	6

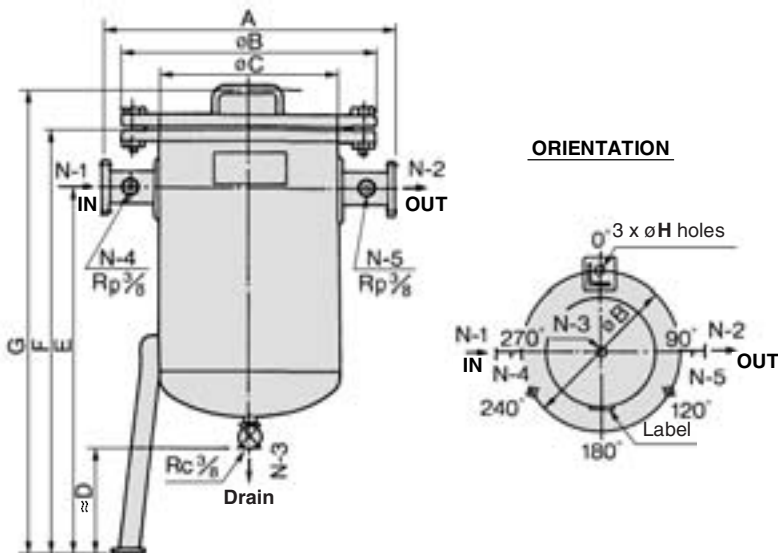
Dimensions

AMF801/901



(mm)										
Model	Connection (Flange)	A	øB	øC	D	E	F	G	H	J
AMF801	50 (2B) JIS 10K FF flange	400	280	150 (6B)	550	150	270	823	3	797
AMF901	50 (2B), 80 (3B), 100 (4B) JIS 10K FF flange	620	445	300 (12B)	570	300	520	1093	3	867

AMF800/900/1000



(mm)										
Model	Connection (Flange)	A	øB	øC	D	E	F	G	H	J
AMF800	50 (2B) JIS 10K FF flange	500	330	200(8B)	300	1070	1200	1290	20	Anchor bolt
AMF900	50 (2B), 80 (3B), 100 (4B) JIS 10K FF flange	720	560	400	300	1070	1230	1335	24	M20 x ℓ 500
AMF1000	100 (4B), 150 (6B) JIS 10K FF flange	870	745	550	300	1090	1320	1450	24	M20 x ℓ 500