

Mist Separator

AM150, 250, 350, 450, 550, 650, 850



Specifications

Fluid	Air
Max. operating pressure PSI (MPa)	150 (1.0)
Min. operating pressure PSI (MPa)	7 (0.05)
Proof pressure PSI (MPa)	220 (1.5)
Ambient and fluid temperature	40°~140°F (5~60°C)
Filtration degree	0.3μ(95% scavenging particle size)
Oil mist removal rate	*Max. 1.0mg/m ³ (≈ 0.08 ppm)
Element life	When ΔP reaches 15 psig (0.1 MPa) or 2 yrs
*Min. operating pressure for unit with auto drain is 22 psig. Compressor discharge concentration 30mgf/m ³	

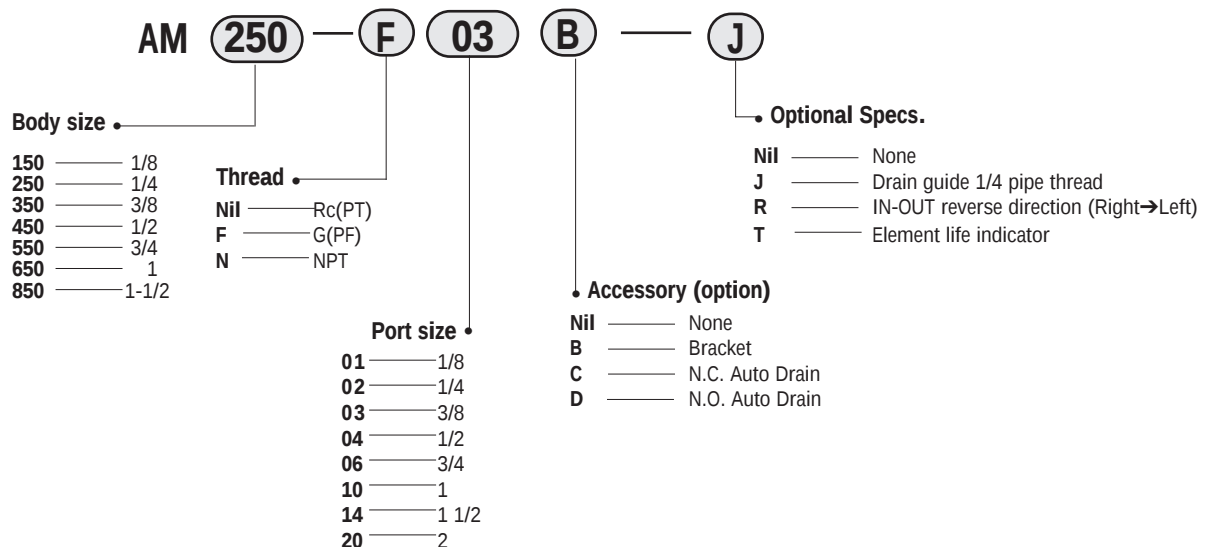
Model

Model	AM150	AM250	AM350	AM450	AM550	AM650	AM850
Flow capacity scfm (l/min)	10.6 (300)	26.5 (750)	53 (1500)	77.7 (2200)	123.6 (3500)	212 (6000)	424 (12000)
Port Size	1/8• 1/4• 3/8	1/4• 3/8• 1/2	3/8• 1/2• 3/4	1/2• 3/4• 1	3/4• 1	1• 1 1/2	1 1/2 • 2
Weight lbs. (kgf)	.84 (0.38)	1.21 (0.55)	1.98 (0.9)	3.09 (1.4)	4.63 (2.1)	9.26 (4.2)	23.15 (10.5)

Accessories (Optional)

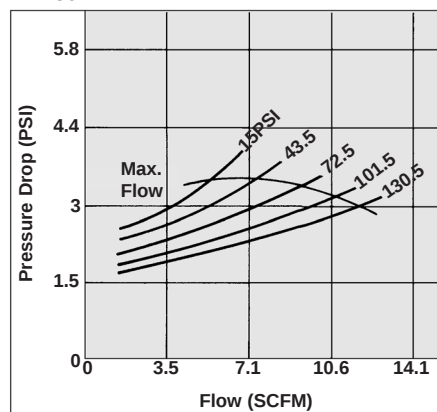
Model	AM150	AM250	AM350	AM450	AM550	AM650	AM850
Bracket assembly with cap screw and spring washer	BM51	BM52	BM53	BM54	BM55	BM56	BM57

How To Order

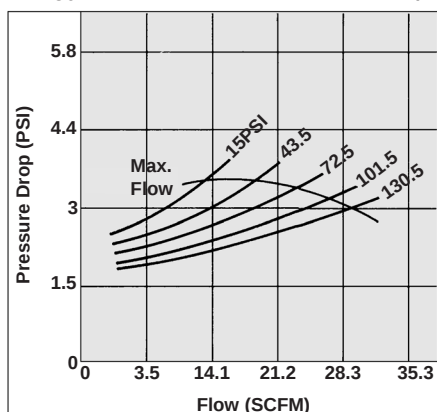


Flow characteristics

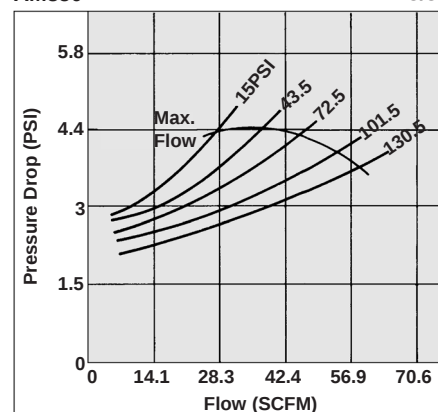
AM150 NPT 1/8



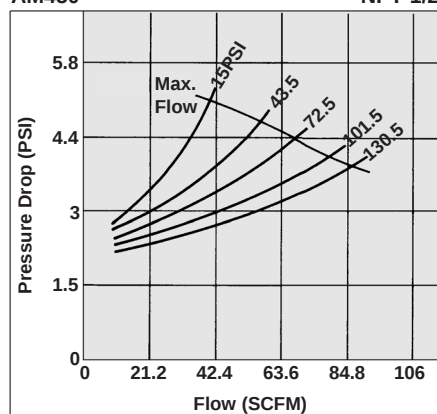
AM250 NPT 1/4



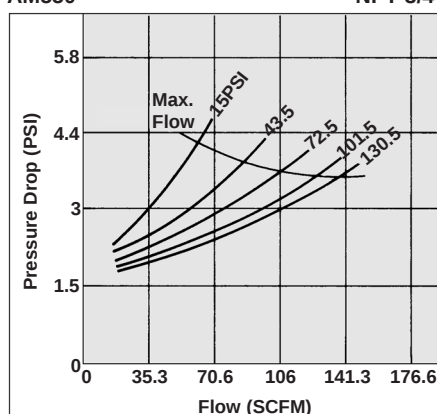
AM350 NPT 3/8



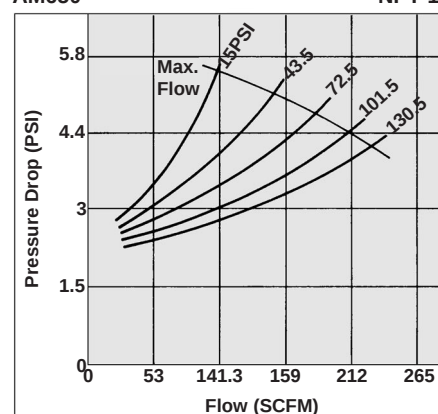
AM450 NPT 1/2



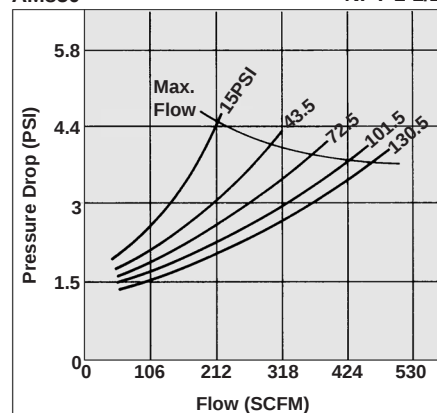
AM550 NPT 3/4



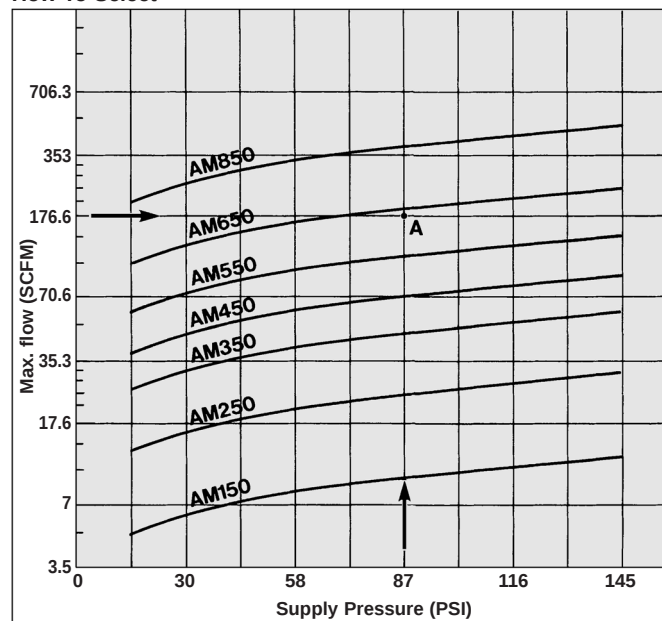
AM650 NPT 1



AM850 NPT 1 1/2



How To Select



Model Selection

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

(Example)

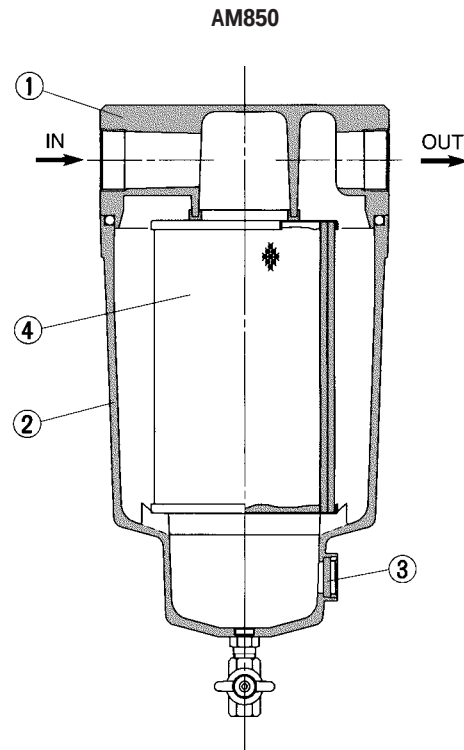
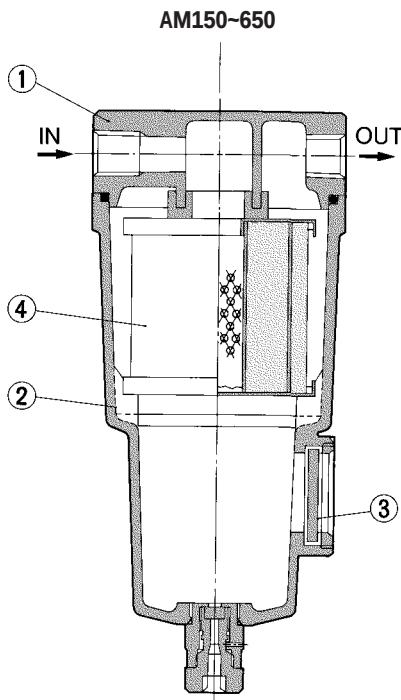
Inlet pressure: 87 PSI

Maximum air flow capacity: 176.6 SCFM

1. Select the point of contact A of inlet pressure and maximum air flow capacity in the graph.
2. Select the type whose maximum air flow capacity is over that point; AM650.

Construction/Parts List

AM150, 250, 350, 450, 550, 650, 850



Parts List

No.	Description	Material	Note
①	Body	*Aluminum die cast	Chromate treatment
②	Housing	*Aluminum die cast	Epoxy coating on inner surface
③	Sight Glass	Tempered	—

*Aluminum coating for AM850

Replacement Parts

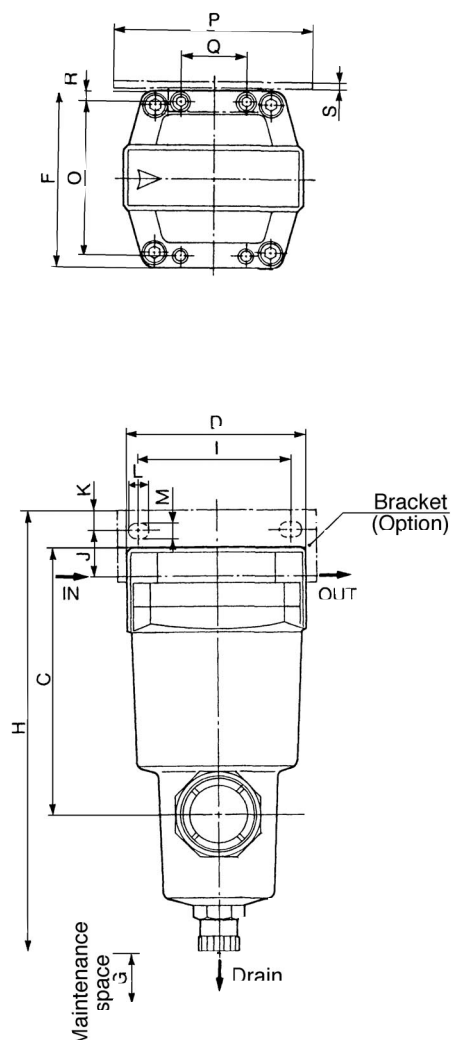
No.	Description	Material	AM150	AM250	AM350	AM450	AM550	AM650	AM850
④	Element Assembly*	Glass Fiber NBR	AM-EL150	AM-EL250	AM-EL350	AM-EL450	AM-EL550	AM-EL650	AM-EL850

*With gasket and O-ring

Precautions

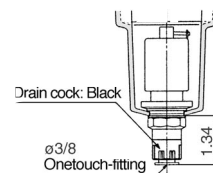
1. Replace element every two years or before reaching a 15 psig pressure drop.
2. Drain line should be $\varnothing 5/16$ in. (8mm) and within 16.5 ft. (5m) for N.O. auto drain.
3. For auto drain AM850, drain line should be $\varnothing 3/8$ in. and within 16.5 ft. (5m).
4. Use a N.C. auto drain for air compressors with air sources less than 3.7 kw (5HP).
5. For manual drain cocks, drain when liquid is visible in the sight glass.

Dimensions

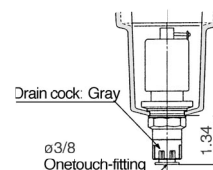


Accessories

D: With auto drain (N.O.)



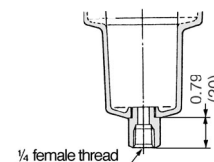
C: With auto drain (N.C.)



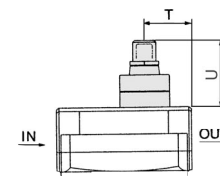
*Not available for AM650 (N.C.)

Optional Specifications

J: With drain guide



T: With element service indicator



Model	Port Size	A	B	C	D	E	F	G	Dimensions with mounting bracket											Element service indicator		
									H	I	J	K	L	M	N	O	P	Q	R	S	T	U
AM150	1/8, 1/4, 3/8	6.26 (159)	.51 (13)	3.94 (100)	2.48 (63)	.79 (20)	2.48 (63)	.39 (10)	6.54 (166)	2.20 (56)	.59 (15)	.20 (5)	.35 (9)	.22 (5.5)	1.38 (35)	2.13 (54)	2.76 (70)	1.02 (26)	.18 (4.5)	.06 (1.6)	.94 (24)	1.46 (37)
AM250	1/4, 3/8	6.77 (172)	.51 (13)	4.45 (113)	2.99 (76)	.79 (20)	2.99 (76)	.39 (10)	7.36 (187)	2.60 (66)	.79 (20)	.31 (8)	.47 (12)	.24 (6)	1.57 (40)	2.60 (66)	3.31 (84)	1.10 (28)	.20 (5)	.08 (2.0)	1.06 (27)	1.46 (37)
	1/2	7.01 (178)	.63 (16)	4.69 (119)	2.99 (76)	.79 (20)	2.99 (76)	.39 (10)	7.36 (187)	2.60 (66)	.67 (17)	.31 (8)	.47 (12)	.24 (6)	1.57 (40)	2.60 (66)	3.31 (84)	1.10 (28)	.20 (5)	.08 (2.0)	1.06 (27)	1.46 (37)
AM350	3/8, 1/2	8.03 (204)	.63 (16)	5.71 (145)	3.54 (90)	.79 (20)	3.54 (90)	.39 (10)	8.58 (218)	3.15 (80)	.87 (22)	.31 (8)	.55 (14)	.28 (7)	1.97 (50)	3.15 (80)	3.94 (100)	1.34 (34)	.20 (5)	.09 (2.3)	1.26 (32)	1.46 (37)
	3/4	8.27 (210)	.75 (19)	5.94 (151)	3.54 (90)	.79 (20)	3.54 (90)	.39 (10)	8.58 (218)	3.15 (80)	.75 (19)	.31 (8)	.55 (14)	.28 (7)	1.97 (50)	3.15 (80)	3.94 (100)	1.34 (34)	.20 (5)	.09 (2.3)	1.26 (32)	1.46 (37)
AM450	1/2, 3/4	8.86 (225)	.75 (19)	6.54 (166)	4.17 (106)	.79 (20)	4.17 (106)	.39 (10)	9.49 (241)	3.54 (90)	.98 (25)	.39 (10)	.55 (14)	.35 (9)	2.17 (55)	3.46 (88)	4.33 (110)	1.97 (50)	.35 (9)	.13 (3.2)	1.46 (37)	1.46 (37)
	1	9.13 (232)	.87 (22)	6.81 (173)	4.17 (106)	.79 (20)	4.17 (106)	.39 (10)	9.49 (241)	3.54 (90)	.83 (21)	.39 (10)	.55 (14)	.35 (9)	2.17 (55)	3.46 (88)	4.33 (110)	1.97 (50)	.35 (9)	.13 (3.2)	1.46 (37)	1.46 (37)
AM550	3/4, 1	10.20 (259)	.87 (22)	7.87 (200)	4.80 (122)	.79 (20)	4.80 (122)	.39 (10)	10.91 (277)	3.94 (100)	1.18 (30)	.39 (10)	.63 (16)	.35 (9)	2.56 (65)	4.02 (102)	5.12 (130)	2.36 (60)	.39 (10)	.18 (4.5)	1.54 (39)	1.46 (37)
AM650	1, 1 1/2	12.24 (311)	1.26 (32)	9.96 (253)	6.30 (160)	.79 (20)	6.30 (160)	.39 (10)	13.15 (334)	5.91 (150)	1.57 (40)	.59 (15)	.79 (20)	.43 (11)	3.35 (85)	5.35 (136)	7.09 (180)	2.99 (76)	.47 (12)	.18 (4.5)	2.17 (55)	1.46 (37)



AM150.....SAM, #1

AM250.....SAM, #2

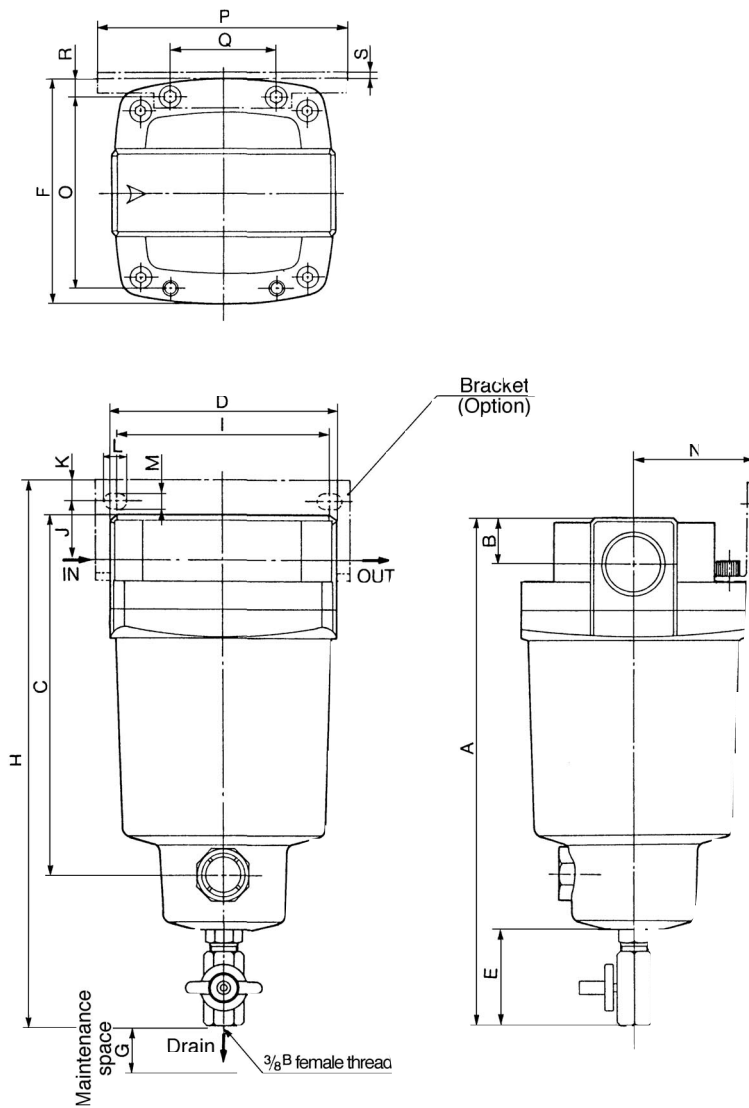
AM350.....SAM, #3

AM450.....SAM, #4

AM550.....SAM, #5

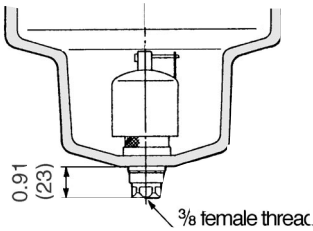
AM650.....SAM, #6

Dimensions



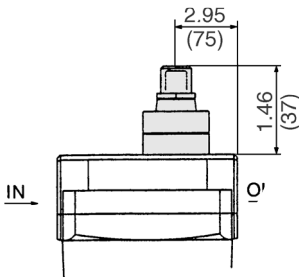
Accessories

D: With auto drain (N.O. type) for AM 850



Optional Specifications

T: With element service indicator



Mdel	Port size Nominal size	A	B	C	D	E	F	G	Dimensions with mounting bracket											
									H	I	J	K	L	M	N	O	P	Q	R	S
AM850	1½, 2	18.13 (460.5)	1.65 (42)	13.70 (348)	8.66 (220)	2.26 (57.5)	8.66 (220)	.39 (10)	18.25 (463.5)	7.09 (180)	1.18 (30)	.59 (15)	.94 (24)	.51 (13)	4.72 (120)	7.24 (184)	8.66 (220)	4.33 (110)	.71 (18)	.24 (6.0)

 AM850.....SAM, #7



Specifications

Fluid	Air
Max. supply pressure PSI (MPa)	220 psig (1.5)
Max. operating pressure PSI (MPa)	150 psig (1.0)
Min. operating pressure PSI (MPa)	7 psig (0.05)
Ambient and Fluid temp.	40° ~ 140° F (5~ 60° C)
Filtration degree	0.01μm (95% scavenging particle size)
Oil mist removal rate	*Max. 0.1mgf/Nm ³ (Before saturated w/oil: 0.01mgf/Nm ³ or less ≈ 0.08 ppm)
Element Life	When ΔP reaches 15 psig or 2 years

*Minimum operating pressure for unit with auto drain is 22 psig. *Compressor discharge concentration: 30mgf/m³

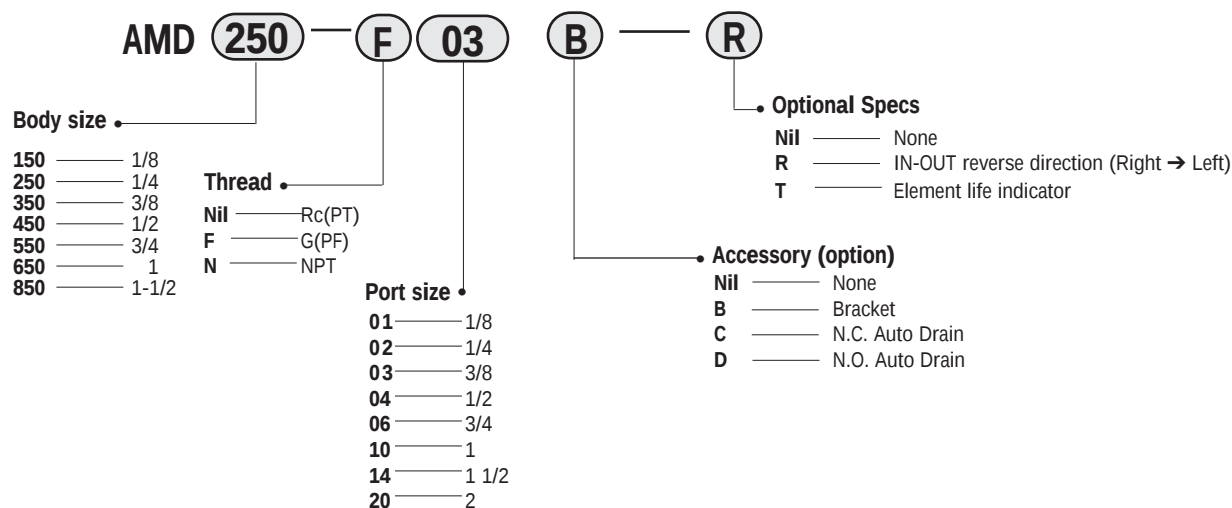
Model

Model	AMD150	AMD250	AMD350	AMD450	AMD550	AMD650	AMD850
Flow capacity Scfm (l/min)	7.1 (200)	17.7 (500)	35.3 (1000)	70.6 (2000)	123.6 (3500)	212 (6000)	424 (12000)
Port Size	1/8•1/4•3/8	1/4•3/8•1/2	3/8•1/2•3/4	1/2•3/4•1	3/4•1	1•1 1/2	1 1/2 • 2
Weight lbs. (kgf)	0.84 (0.38)	1.21 (0.55)	1.98 (0.9)	3.09 (1.4)	4.63 (2.1)	9.26 (4.2)	23.13(10.5)

Accessories (Optional)

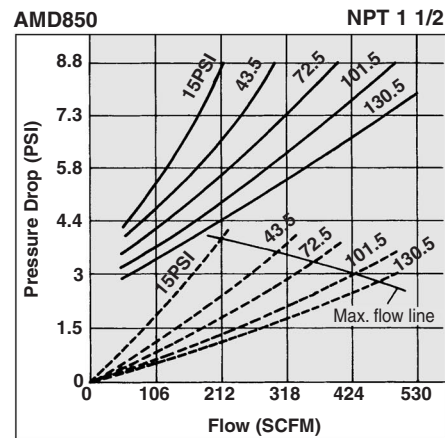
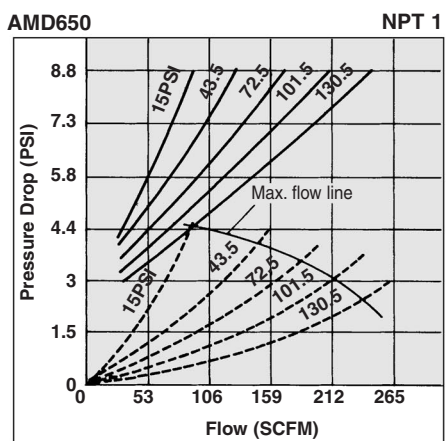
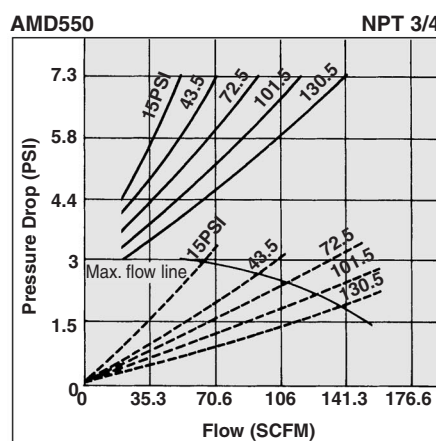
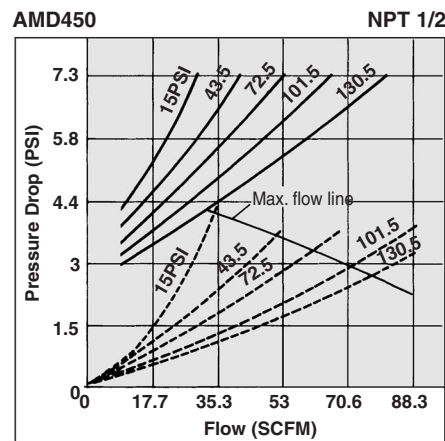
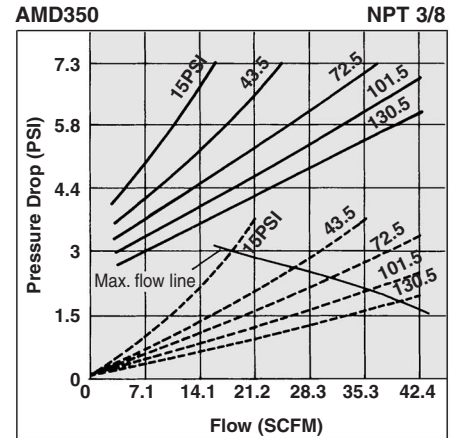
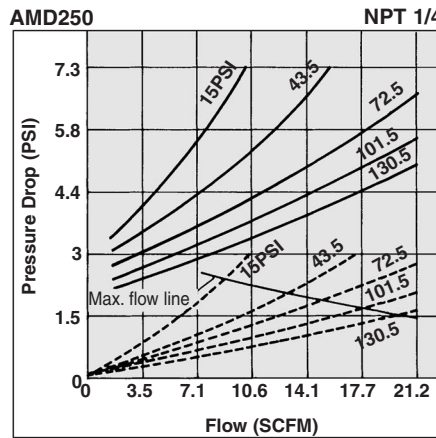
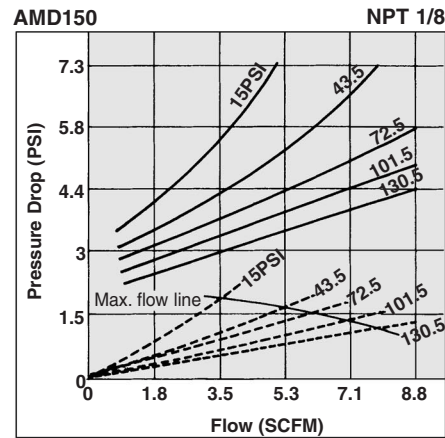
Model	AMD150	AMD250	AMD350	AMD450	AMD550	AMD650	AMD850
Bracket assembly with cap bolt, spring washer	BM51	BM52	BM53	BM54	BM55	BM56	BM57

How To Order



Flow Characteristics

AMD150, 250, 350, 450, 550, 650, 850



Model Selection

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

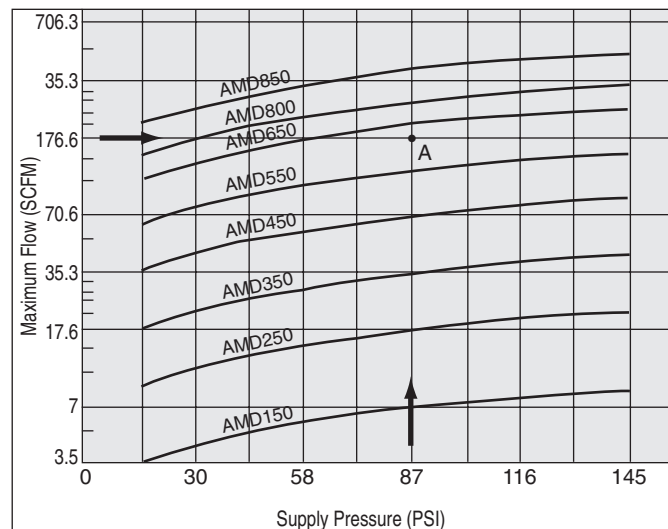
(Example)

Inlet pressure: 87 PSI

Maximum air flow capacity: 176.6 SCFM

1. Select the point of contact A of inlet pressure and maximum air flow capacity in the graph.
2. Select the type whose maximum air flow capacity is over that point; AMD650.

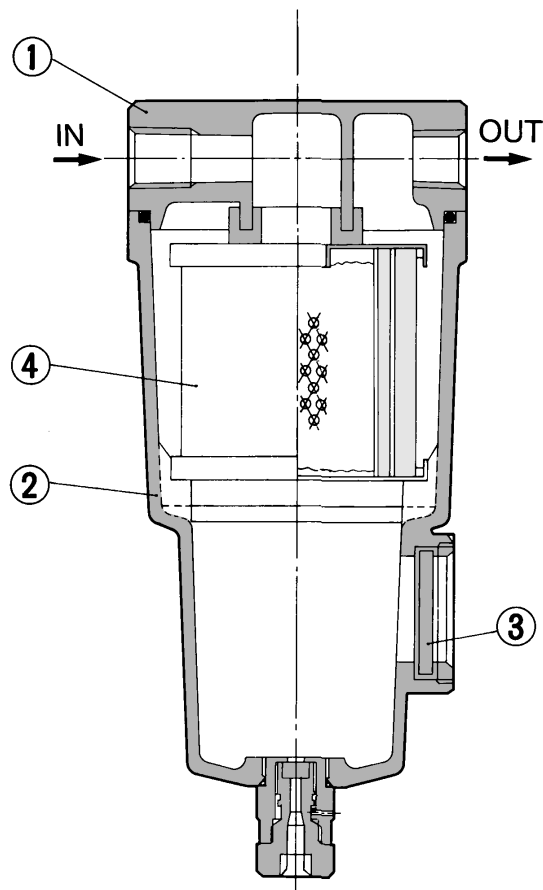
How To Select Flow



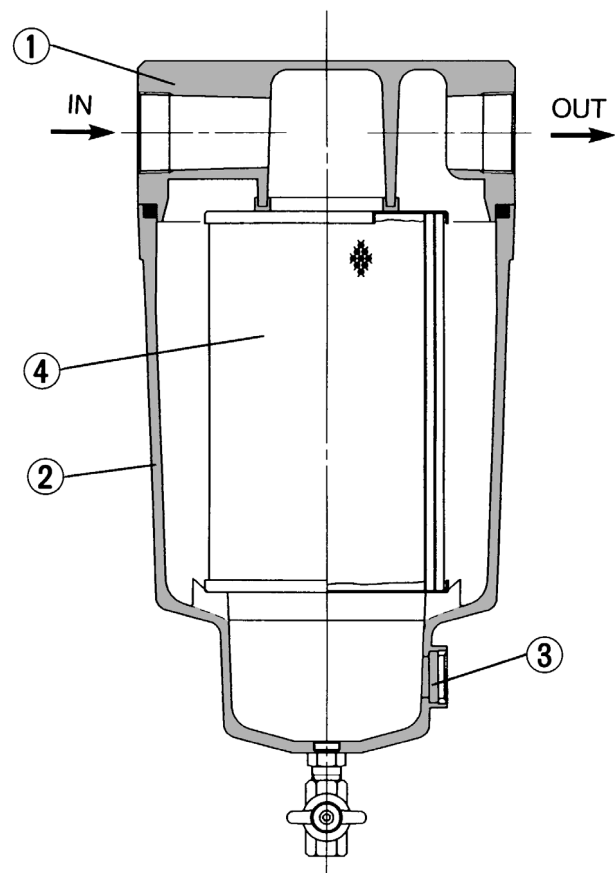
Precautions

1. Replace element every two years or before reaching a 15 psig pressure drop.
2. Drain line should be $\phi 5/16$ in. (8mm) and within 16.5 ft. (5m) for N.O. auto drain.
3. For auto drain AMD850, drain line should be $\phi 3/8$ in. and within 16.5 ft. (5m).
4. Use a N.C. auto drain for air compressors with air sources less than 3.7 kw (5HP).
5. For manual drain cocks, drain when liquid is visible in the sight glass.

AMD150~650



AMD850



Parts list

No.	Description	Material	Note
①	Body	*Aluminum die cast	Chromate treatment
②	Housing	*Aluminum die cast	Epoxy coating on inner surface
③	Sight Glass	Tempered glass	—

*Aluminum coating for NAMD850

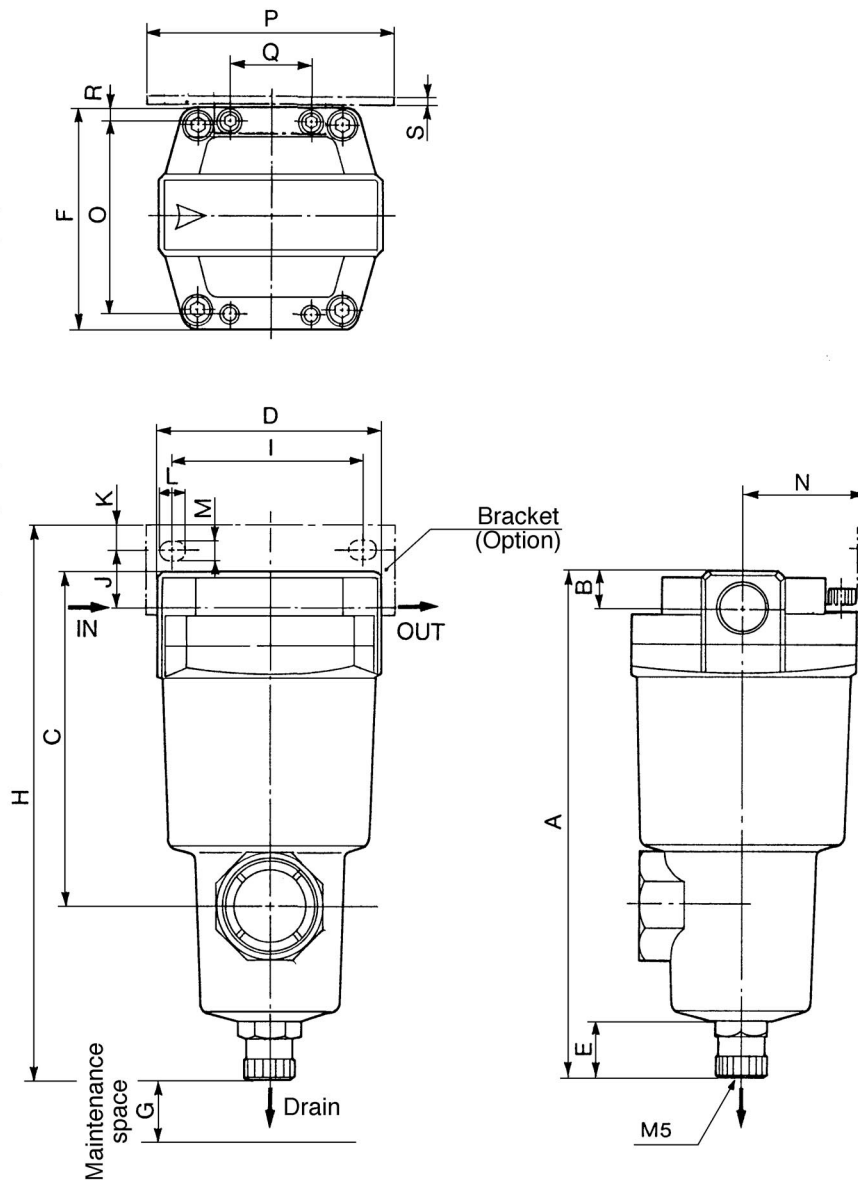
Replacement parts

No.	Description	Material	Model						
			AMD150	AMD250	AMD350	AMD450	AMD550	AMD650	AMD850
④	Element Ass'y*	Glass Fiber NBR	AMD-EL150	AMD-EL250	AMD-EL350	AMD-EL450	AMD-EL550	AMD-EL650	AMD-EL850

*With gasket and O-ring

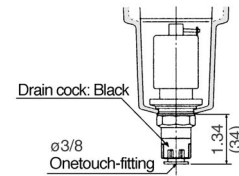
Dimensions
AMD150~650

Dimensions

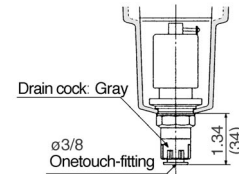


Accessories

D: With auto drain (N.O.)



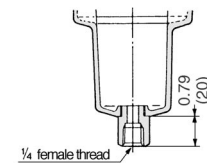
C: With auto drain (N.C.)



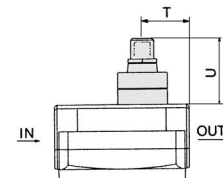
*Not available for AMD650 (N.C.)

Optional Specifications

J: With drain guide

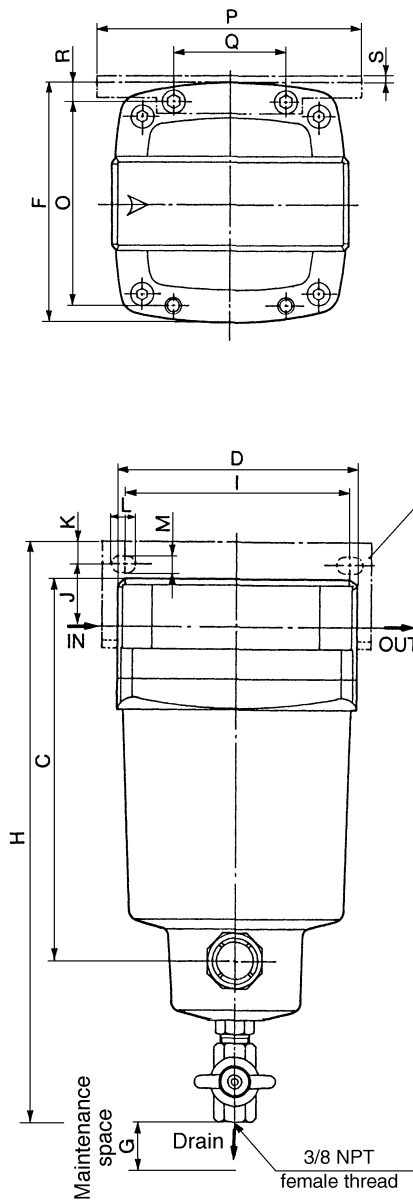


T: With element service indicator



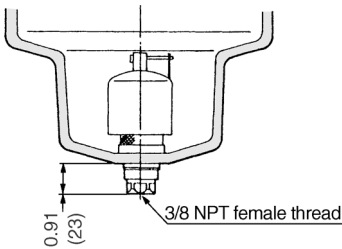
Model	Port Size	A	B	C	D	E	F	G	Mounting Dimensions											
									H	I	J	K	L	M	N	O	P	Q	R	S
AMD150	1/8 • 1/4 • 3/8	6.26 (159)	.51 (13)	3.94 (100)	2.48 (63)	.79 (20)	2.48 (63)	.39 (10)	6.54 (166)	2.20 (56)	.59 (15)	.20 (5)	.35 (9)	.22 (5.5)	1.38 (35)	2.13 (54)	2.76 (70)	1.02 (26)	.18 (4.5)	.06 (1.6)
AMD250	1/4 • 3/8	6.77 (172)	.51 (13)	4.45 (113)	2.99 (76)	.79 (20)	2.99 (76)	.39 (10)	7.36 (187)	2.60 (66)	.79 (20)	.31 (8)	.47 (12)	.24 (6)	1.57 (40)	2.60 (66)	3.31 (84)	1.10 (28)	.20 (5)	.08 (2.0)
AMD350	3/8 • 1/2	8.03 (204)	.63 (16)	5.71 (145)	3.54 (90)	.79 (20)	3.54 (90)	.39 (10)	8.58 (218)	3.15 (80)	.87 (22)	.31 (8)	.55 (14)	.28 (7)	1.97 (50)	3.15 (80)	3.94 (100)	1.34 (34)	.20 (5)	.09 (2.3)
AMD450	1/2 • 3/4	8.86 (225)	.75 (19)	6.54 (166)	4.17 (106)	.79 (20)	4.17 (106)	.39 (10)	9.49 (241)	3.54 (90)	.98 (25)	.39 (10)	.55 (14)	.35 (9)	2.17 (55)	3.46 (88)	4.33 (110)	1.97 (50)	.35 (9)	.126 (3.2)
AMD550	3/4 • 1	10.20 (259)	.87 (22)	7.87 (200)	4.80 (122)	.79 (20)	4.80 (122)	.39 (10)	10.91 (277)	3.94 (100)	1.18 (30)	.39 (10)	.63 (16)	.35 (9)	2.56 (65)	4.02 (102)	5.12 (130)	2.36 (60)	.39 (10)	.18 (4.5)
AMD650	1 • 1 1/2	12.24 (311)	1.26 (32)	9.96 (253)	6.30 (160)	.79 (20)	6.30 (160)	.39 (10)	13.15 (334)	5.91 (150)	1.57 (40)	.59 (15)	.79 (20)	.43 (11)	3.35 (85)	5.35 (136)	7.09 (180)	2.99 (76)	.47 (12)	.18 (4.5)

Dimensions

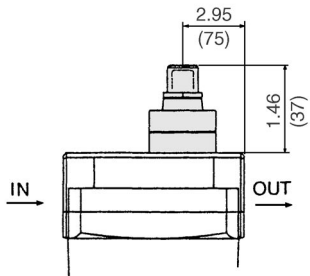


Accessories

D: With auto drain (N.O.) for AMD850



T: With element service indicator



Model	Port size	A	B	C	D	E	F	G	Dimensions with mounting bracket											
									H	I	J	K	L	M	N	O	P	Q	R	S
AMD850	1½ • 2	18.13 (460.5)	1.65 (42)	13.7 (348)	8.66 (220)	2.26 (57.5)	8.66 (220)	.39 (10)	18.25 (463.5)	7.09 (180)	1.18 (30)	.59 (15)	.94 (24)	.51 (13)	4.72 (120)	7.24 (184)	8.66 (220)	4.33 (110)	.71 (18)	.24 (6)



Specifications

Fluid	Air
Max. operating pressure PSI (MPa)	150 psig (1.0)
Min. operating pressure PSI (MPa)	7 psig (0.05)
Proof pressure PSI (MPa)	220 psig (1.5)
Ambient and Fluid temp.	40° ~ 140° F (5° ~60° C)
Filtration	0.01μm (95% efficient)
Efficiency outlet	Less than 3.5 particles 0.3 microns or larger per liter of air (100 particles or less per cubic foot)
Element Life	Element color indicator type (When element becomes saturated with oil the element surface changes from white to red)

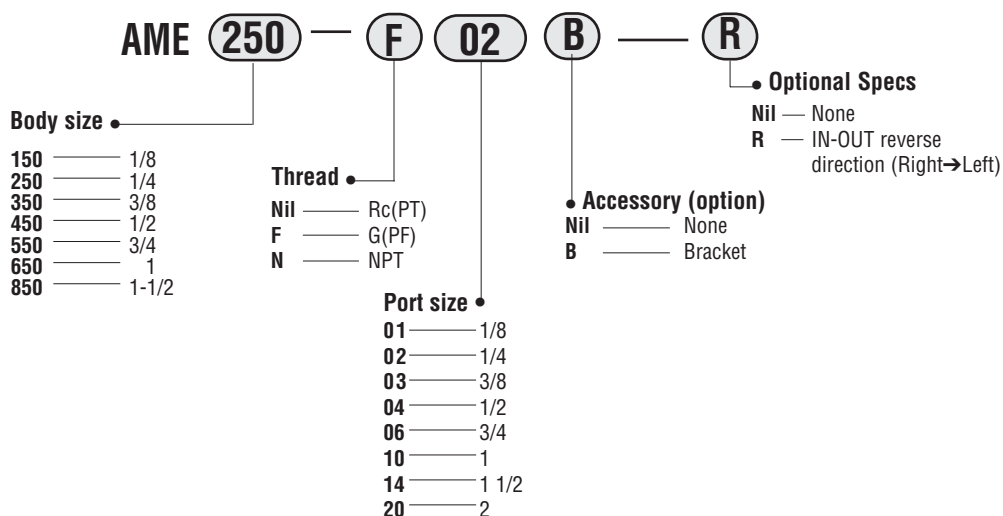
Model

Model	AME150	AME250	AME350	AME450	AME550	NME650	AME850
Flow capacity Scfm (Nℓ/min)	7.1 (200)	17.7 (500)	35.3 (1000)	70.6 (2000)	123.6 (3500)	212 (6000)	424 (12000)
Port Size	1/8• 1/4• 3/8	1/4• 3/8• 1/2	3/8• 1/2• 3/4	1/2• 3/4• 1	3/4• 1	1• 1 1/2	1 1/2 • 2
Weight lbs. (kgf)	.84 (0.38)	1.21 (0.55)	1.98 (0.9)	3.09 (1.4)	4.63 (2.1)	9.26 (4.2)	13.15 (10.5)

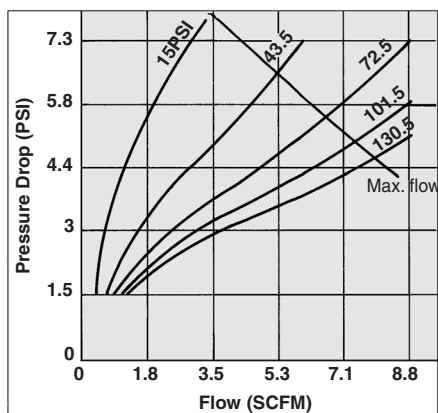
Accessories (Optional)

Model	AME150	AME250	AME350	AME450	AME550	AME650	AME850
Bracket assembly with cap screw and spring washer	BM51	BM52	BM53	BM54	BM55	BM56	BM57

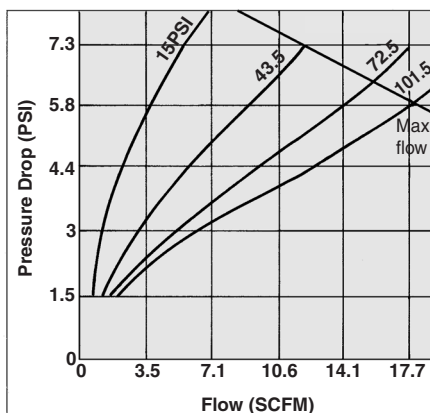
How To Order



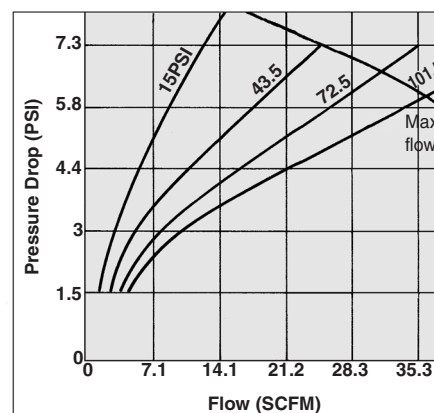
AME150



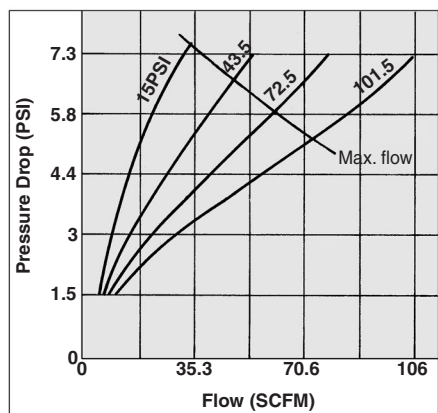
AME250



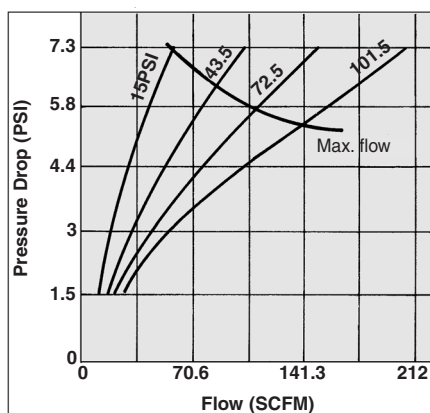
AME350



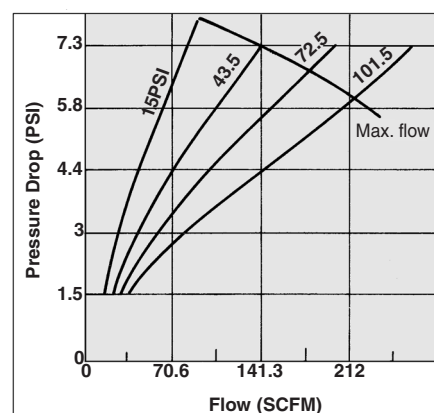
AME450



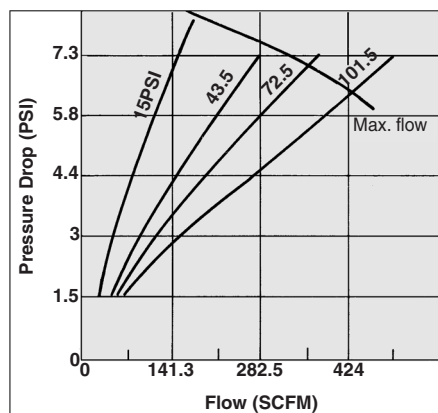
AME550



AME650



AME850



Model Selection

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

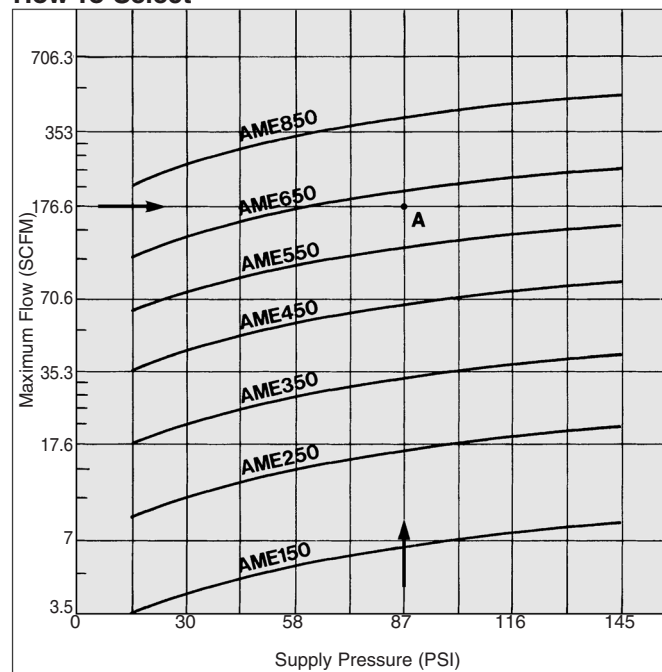
(Example)

Inlet pressure: 87 PSI

Maximum air flow capacity: 176.6 SCFM

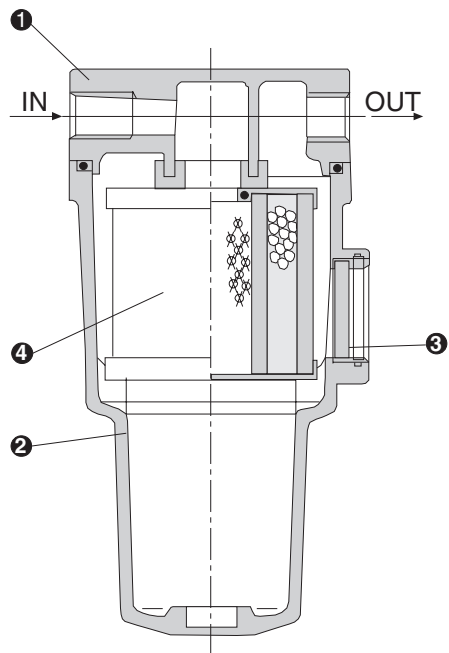
1. Select the point of contact A of inlet pressure and maximum air flow capacity in the graph.
2. Select the type whose maximum air flow capacity is over that point; AME650.

How To Select



Construction/Parts List

AME150, 250, 350, 450, 550, 650, 850



Parts List

No.	Description	Material	Note
①	Body	*Aluminum die cast	Chromate treatment
②	Housing	*Aluminum die cast	Epoxy coating on inner surface
③	Sight Glass	Tempered glass	—

*Aluminum coating for AME850

Replacement Parts

No.	Description	Material	Model						
			AME150	AME250	AME350	AME450	AME550	AME650	AME850
④	Element Ass'y*	Glass Fiber NBR	AME-EL150	AME-EL250	AME-EL350	AME-EL450	AME-EL550	AME-EL650	AME-EL850

*With gasket and O-ring

Precautions

Maintenance

- ① Use with dry air only.
- ② Replace element when pink spot appears. When pink spot appears, remaining life is 10%.

Installation

- ① Install in a cool place.
- ② Install with the sight glass facing front.
- ③ To capture excessive dirt and liquid particles, install AM series filter before the AME.

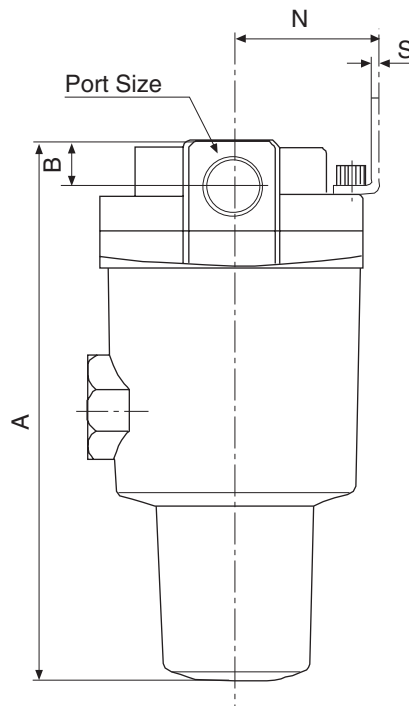
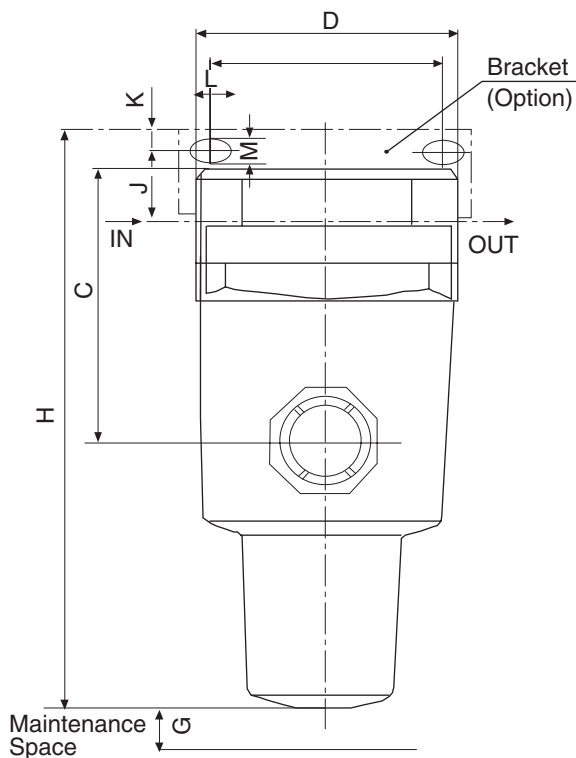
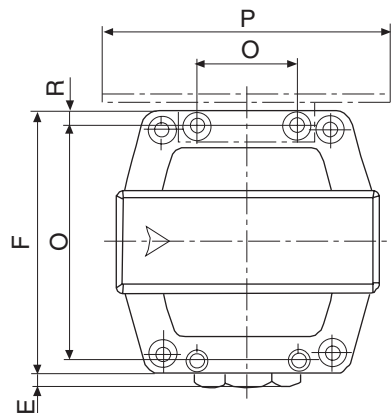
Element Life

The following table indicates life for the AM and AME combination. If the AMD filter is also installed, the life of the AME filter will increase 10 times.

Operation Time	Load Rate	Life
Continuous (8 hours per day)	100%	≈ 1 year
	75%	≈ 1.5 years
	50%	≈ 2 years

Note:
Replace element before differential pressure builds up to 0.2 MPa (30 psi).

AME150~350



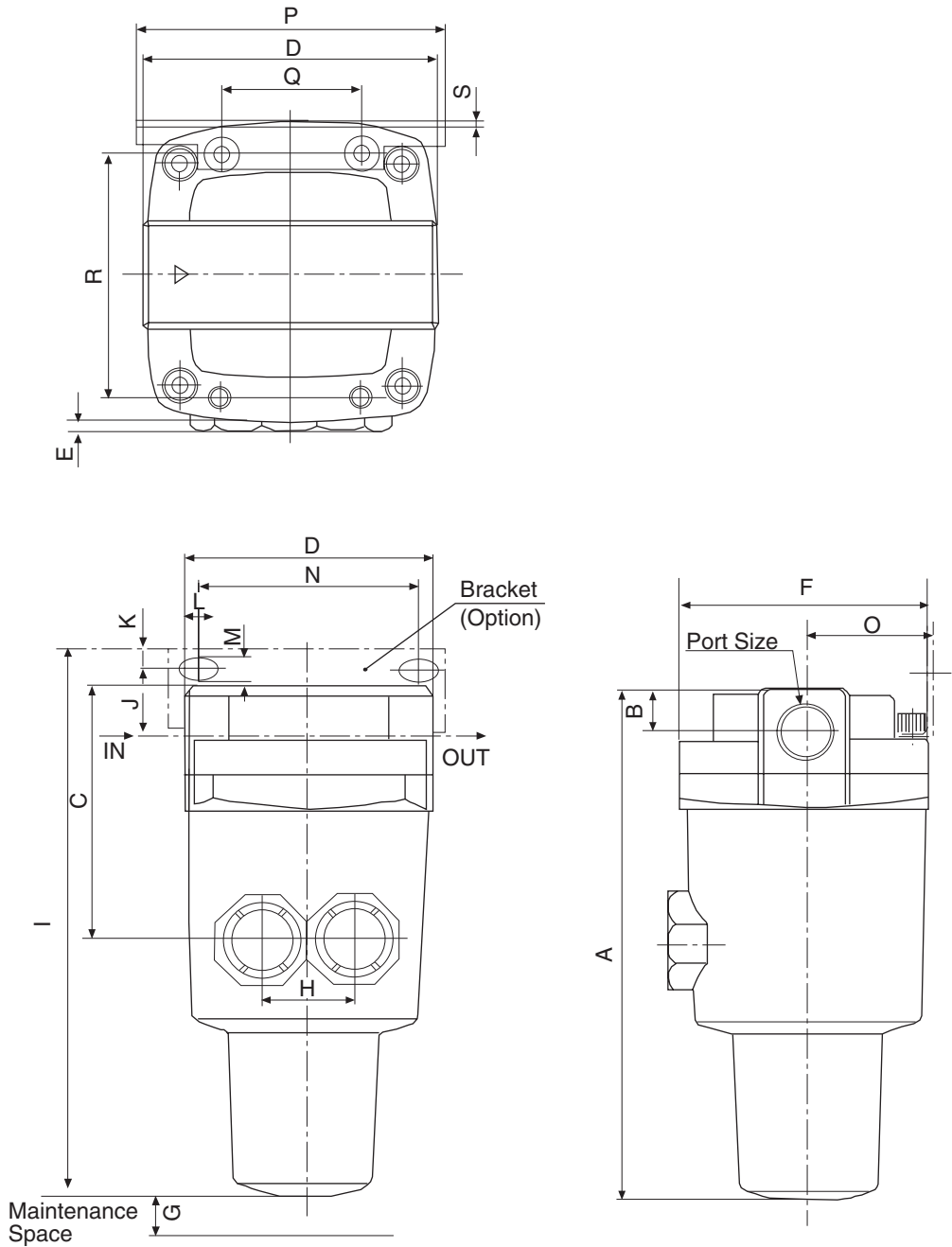
Model	Port Size	A	B	C	D	E	F	G	Dimensions with mounting bracket											
									H	I	J	K	L	M	N	O	P	Q	R	S
AME150	1/8 • 1/4 • 3/8	5.47 (139)	.51 (13)	2.17 (55)	2.48 (63)	.30 (7.5)	2.48 (63)	.39 (10)	5.75 (146)	2.20 (56)	.59 (15)	.20 (5)	.35 (9)	.22 (5.5)	1.38 (35)	2.13 (54)	2.76 (70)	1.02 (26)	.18 (4.5)	.06 (1.6)
AME250	1/4 • 3/8	5.98 (152)	.51 (13)	2.60 (66)	2.99 (76)	.16 (4)	2.99 (76)	.39 (10)	6.57 (167)	2.60 (66)	.79 (20)	.31 (8)	.47 (12)	.24 (6)	1.57 (40)	2.60 (66)	3.31 (84)	1.10 (28)	.20 (5)	.08 (2.0)
	1/2	6.22 (158)	.63 (16)	2.83 (72)	2.99 (76)	.16 (4)	2.99 (76)	.39 (10)	6.57 (167)	2.60 (66)	.67 (17)	.31 (8)	.47 (12)	.24 (6)	1.57 (40)	2.60 (66)	3.31 (84)	1.10 (28)	.20 (5)	.08 (2.0)
AME350	3/8 • 1/2	7.24 (184)	.63 (16)	3.62 (92)	3.54 (90)	.20 (5)	3.54 (90)	.39 (100)	7.80 (198)	3.15 (80)	.87 (22)	.31 (8)	.55 (14)	.28 (7)	1.97 (50)	3.15 (80)	3.94 (100)	1.34 (34)	.20 (5)	.09 (2.3)
	3/4	7.48 (190)	.75 (19)	3.86 (98)	3.54 (90)	.20 (5)	3.54 (90)	.39 (10)	7.80 (198)	3.15 (80)	.75 (19)	.31 (8)	.55 (14)	.28 (7)	1.97 (50)	3.15 (80)	3.94 (100)	1.34 (34)	.20 (5)	.09 (2.3)



AME150.....SAME, #1
AME250.....SAME, #2
AME350.....SAME, #3

Dimensions
AME450~850

AME450~850



Model	Port Size	A	B	C	D	E	F	G	Dimensions with mounting bracket											
									H	I	J	K	L	M	N	O	P	Q	R	S
AME450	1/2 • 3/4	8.07 (205)	.75 (19)	3.94 (100)	4.17 (106)	.12 (3)	4.17 (106)	.39 (10)	1.42 (36)	8.70 (221)	.98 (25)	.39 (10)	.55 (14)	.35 (9)	3.54 (90)	2.17 (55)	4.33 (110)	1.97 (50)	3.46 (88)	.13 (3.2)
	1	8.35 (212)	.87 (22)	4.21 (107)	4.17 (106)	.12 (3)	4.17 (106)	.39 (10)	1.42 (36)	8.70 (221)	.83 (21)	.39 (10)	.55 (14)	.35 (9)	3.54 (90)	2.17 (55)	4.33 (110)	1.97 (50)	3.46 (88)	.13 (3.2)
AME550	3/4 • 1	9.41 (239)	.87 (22)	5.04 (128)	4.80 (122)	.12 (3)	4.80 (122)	.39 (10)	1.73 (44)	10.12 (257)	1.18 (30)	.39 (10)	.63 (16)	.35 (9)	3.94 (100)	2.56 (65)	5.12 (130)	2.36 (60)	4.02 (102)	.18 (4.5)
AME650	1, 1 1/2	11.46 (291)	1.26 (32)	6.57 (167)	6.30 (160)	—	6.30 (160)	.39 (10)	2.60 (66)	12.36 (314)	1.57 (40)	.59 (15)	.79 (20)	.43 (11)	5.91 (150)	3.35 (85)	7.09 (180)	2.99 (76)	5.35 (136)	.18 (4.5)
AME850	1 1/2, 2	15.87 (403)	1.65 (42)	9.25 (235)	8.66 (220)	—	8.66 (220)	.39 (10)	3.78 (96)	15.98 (406)	1.18 (30)	.59 (15)	.94 (24)	.51 (13)	7.09 (180)	4.72 (120)	8.66 (220)	4.33 (110)	7.24 (184)	.24 (6.0)

 AME450.....SAME, #4
 AME550.....SAME, #5
 AME650.....SAME, #6



Specifications

Fluid	Air
Max. operating pressure PSI (MPa)	150 (1.0)
Min. operating pressure PSI (MPa)	7 psig (0.05)
Proof pressure PSI (MPa)	220 psig (1.5)
Ambient and Fluid temp.	40° ~ 140° F (5° ~60° C)
Filtration	0.01μm (95% efficient)
Cleanliness (secondary side)	3.5 particles/Nℓ or less (100 particles or less per cubic foot)

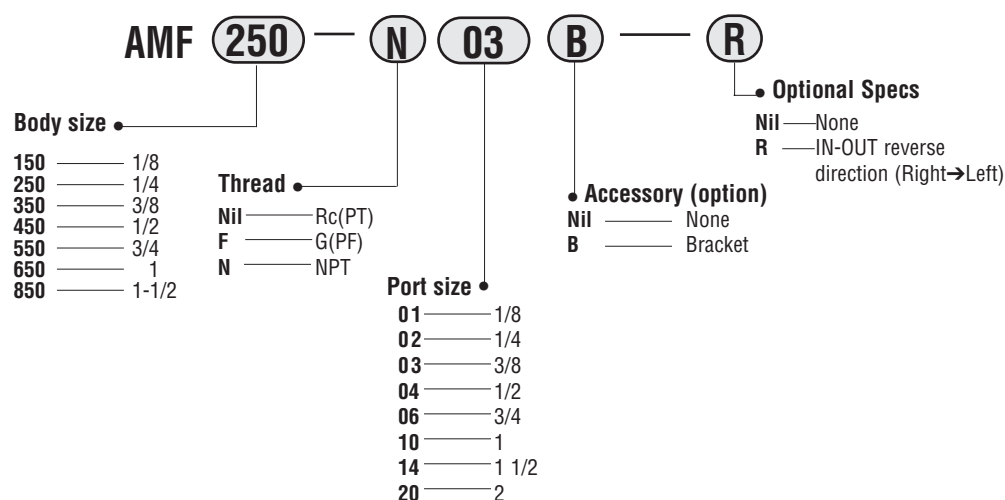
Model

Model	AMF150	AMF250	AMF350	AMF450	AMF550	AMF650	AMF850
Flow capacity Scfm (ℓ/min)	7.1 (200)	17.7 (500)	35.3 (1000)	70.6 (2000)	123.6 (3500)	212 (6000)	424 (12000)
Port Size	1/8•1/4•3/8	1/4•3/8•1/2	3/8•1/2•3/4	1/2•3/4•1	3/4•1	1•1 1/2	1 1/2 • 2
Weight lbs. (kgf)	.84 (0.38)	1.21 (0.55)	1.98 (0.9)	3.09 (1.4)	4.63 (2.1)	9.26 (4.2)	23.15 (10.5)

Accessories (Optional)

Model	AMF150	AMF250	AMF350	AMF450	AMF550	AMF650	AMF850
Bracket assembly with cap screw and spring washer	BM51	BM52	BM53	BM54	BM55	BM56	BM57

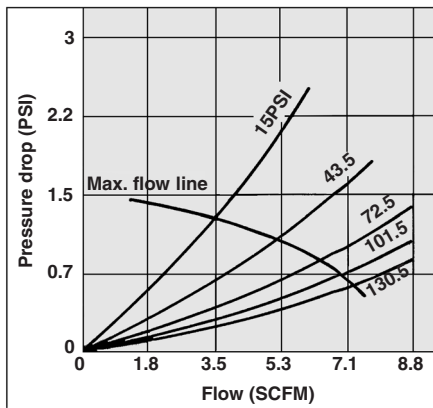
How To Order



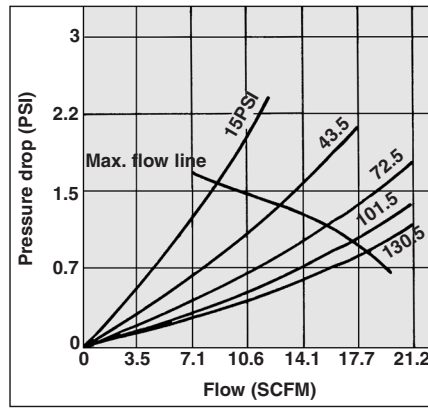
Flow Characteristics / Construction & Part Lists

AMF150, 250, 350, 450, 550, 650, 850

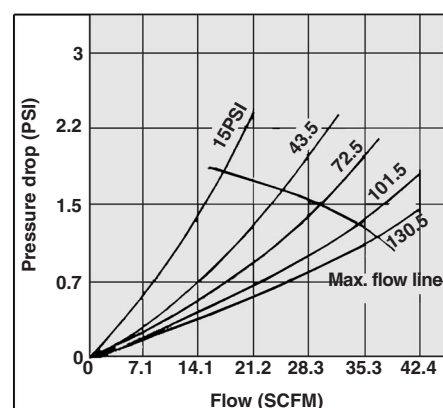
AMF150



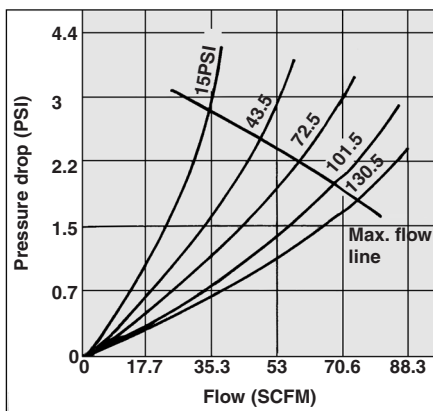
AMF250



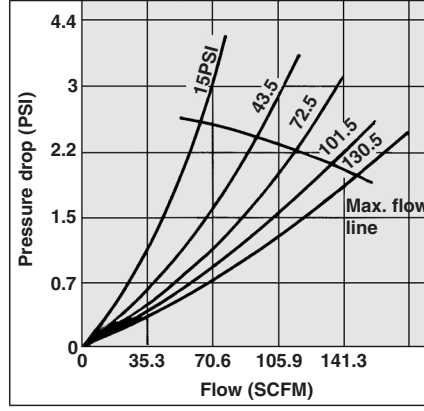
AMF350



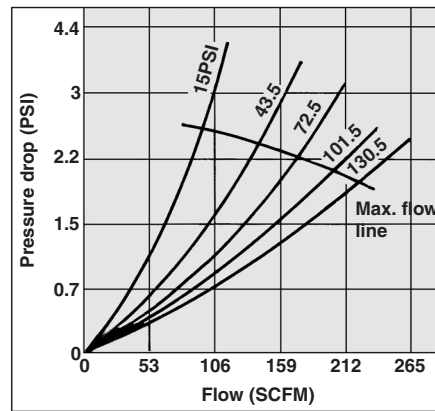
AMF450



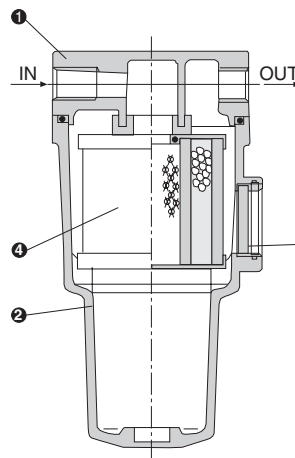
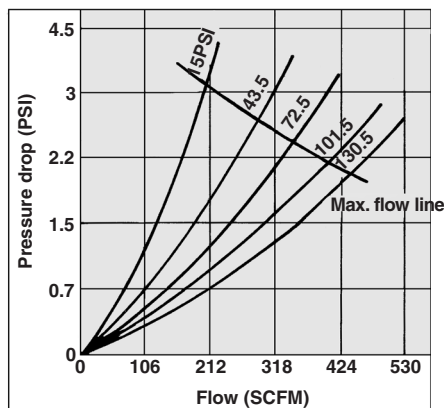
AMF550



AMF650



AMF850



Model Selection

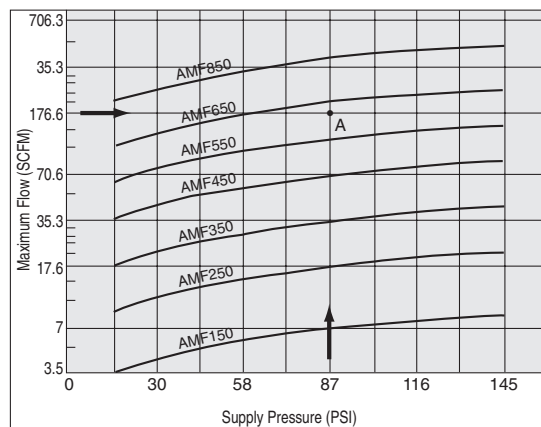
Select the model in accordance with the following procedure taking the inlet pressure and maximum air flow into consideration.

(Example)

Inlet pressure: 87 PSI

Maximum air flow capacity: 176.6 SCFM

1. Select the point of contact A of inlet pressure and maximum air flow capacity in the graph.
2. Select the type whose maximum air flow capacity is over that point; AMF650.



Parts List

No.	Description	Material	Note
①	Body	*Aluminum die cast	Chromate treatment
②	Housing	*Aluminum die cast	Epoxy coating on inner surface
③	Sight Glass	Tempered glass	—

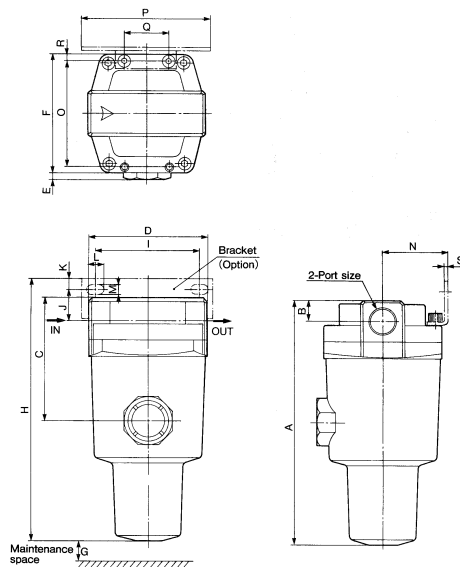
*Aluminum coating for NAMF850

Replacement Parts

No.	Description	Material	Model						
			AMF150	AMF250	AMF350	AMF450	AMF550	AMF650	AMF850
④	Element Ass'y*	Glass Fiber NBR	AMF-EL150	AMF-EL250	AMF-EL350	AMF-EL450	AMF-EL550	AMF-EL650	AMF-EL850

*With gasket and O-ring.

AMF150~350

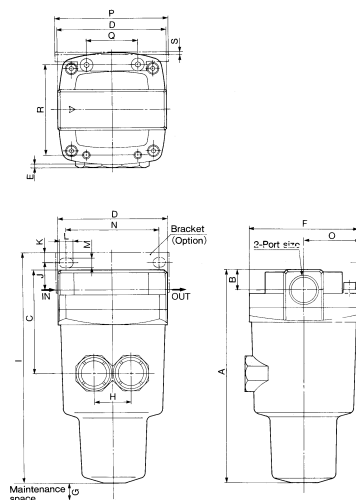


Model	Port Size	A	B	C	D	E	F	G	Dimemnsions with mounting bracket											
									H	I	J	K	L	M	N	O	P	Q	R	S
AMF150	1/8 • 1/4 • 3/8	5.47 (139)	.51 (13)	2.17 (55)	2.48 (63)	.30 (7.5)	2.48 (63)	.39 (10)	5.75 (146)	2.20 (56)	.59 (15)	.20 (5)	.35 (9)	.22 (5.5)	1.38 (35)	2.13 (54)	2.76 (70)	1.02 (26)	.18 (4.5)	.06 (1.6)
AMF250	1/4 • 3/8	5.98 (152)	.51 (13)	2.60 (66)	2.99 (76)	.16 (4)	2.99 (76)	.39 (10)	6.57 (167)	2.60 (66)	.79 (20)	.31 (8)	.47 (12)	.24 (6)	1.57 (40)	2.60 (66)	3.31 (84)	1.10 (28)	.20 (5)	.08 (2.0)
	1/2	6.22 (158)	.63 (16)	2.83 (72)	2.99 (76)	.16 (4)	2.99 (76)	.39 (10)	6.57 (167)	2.60 (66)	.67 (17)	.31 (8)	.47 (12)	.24 (6)	1.57 (40)	2.60 (66)	3.31 (84)	1.10 (28)	.20 (5)	.08 (2.0)
AMF350	3/8 • 1/2	7.24 (184)	.63 (16)	3.62 (92)	3.54 (90)	.20 (5)	3.54 (90)	.39 (10)	7.80 (198)	3.15 (80)	.87 (22)	.31 (8)	.55 (14)	.28 (7)	1.97 (50)	3.15 (80)	3.94 (100)	1.34 (34)	.20 (5)	.09 (2.3)
	3/4	7.48 (190)	.75 (19)	3.86 (98)	3.54 (90)	.20 (5)	3.54 (90)	.39 (10)	7.80 (198)	3.15 (80)	.75 (19)	.31 (8)	.55 (14)	.28 (7)	1.97 (50)	3.15 (80)	3.94 (100)	1.34 (34)	.20 (5)	.09 (2.3)



AMF150.....SAME, #1; AMF250.....SAME, #2; AMF350.....SAME, #3

AMF450~850



Model	Port Size	A	B	C	D	E	F	G	Dimensions with mounting bracket											
									H	I	J	K	L	M	N	O	P	Q	R	S
AMF450	1/2 • 3/4	8.07 (205)	.75 (19)	3.94 (100)	4.17 (106)	.12 (3)	4.17 (106)	.39 (10)	1.42 (36)	8.70 (221)	.98 (25)	.39 (10)	.55 (14)	.35 (9)	3.54 (90)	2.17 (55)	4.33 (110)	1.97 (50)	3.46 (88)	.13 (3.2)
	1	8.35 (212)	.87 (22)	4.21 (107)	4.17 (106)	.12 (3)	4.17 (106)	.39 (10)	1.42 (36)	8.70 (221)	.83 (25)	.39 (10)	.55 (14)	.35 (9)	3.54 (90)	2.17 (55)	4.33 (110)	1.97 (50)	3.46 (88)	.13 (3.2)
AMF550	3/4 • 1	9.41 (239)	.87 (22)	5.04 (128)	4.80 (122)	.12 (3)	4.80 (122)	.39 (10)	1.73 (44)	10.12 (257)	1.18 (30)	.39 (10)	.63 (16)	.35 (9)	3.94 (100)	2.56 (65)	5.12 (130)	2.36 (60)	4.02 (102)	.18 (4.5)
AMF650	1 • 1 1/2	11.46 (291)	1.26 (32)	6.57 (167)	6.30 (160)	—	6.30 (160)	.39 (10)	2.60 (66)	12.36 (314)	1.57 (40)	.59 (15)	.79 (20)	.43 (11)	5.91 (150)	3.35 (85)	7.09 (180)	2.99 (76)	5.35 (136)	.18 (4.5)
AMF850	1 1/2 • 2	15.87 (403)	1.65 (42)	9.25 (235)	8.66 (220)	—	8.66 (220)	.39 (10)	3.78 (96)	15.98 (406)	1.18 (30)	.59 (15)	.94 (24)	.51 (13)	7.09 (180)	4.72 (120)	8.66 (220)	4.33 (110)	7.24 (184)	.24 (6.0)



AMF150.....SAME, #1; AMF250.....SAME, #2; AMF350.....SAME, #3



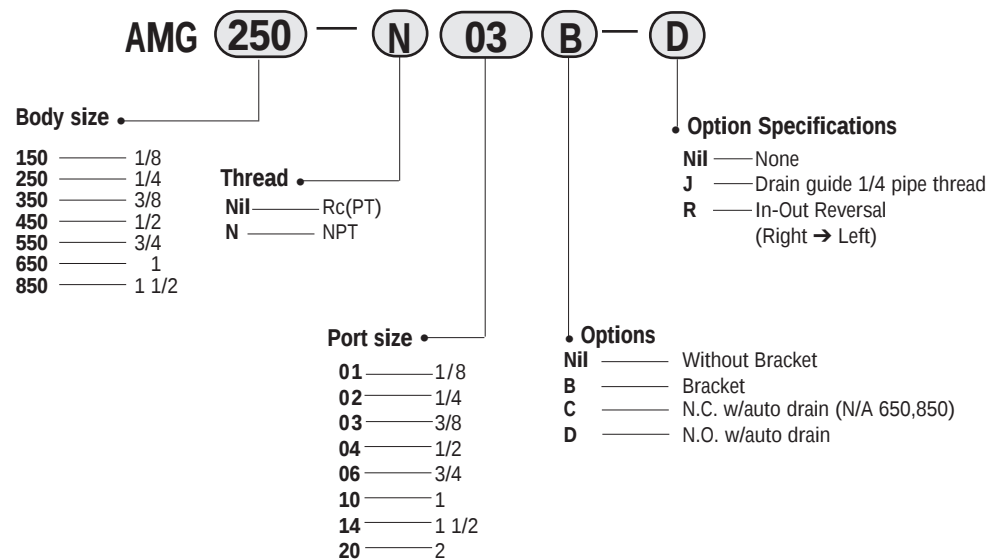
Specifications

Model	AMG150	AMG250	AMG350	AMG450	AMG550	AMG650	AMG850
Air Compressor kw	2.2	5.5	11	15	22	37	75
Flow Rate(l/min) scfm	10.6 (300)	26.5 (750)	53 (1500)	77.7 (2200)	123.6 (3500)	212 (6000)	424 (12000)
Port Size	1/8• 1/4• 3/8	1/4• 3/8• 1/2	3/8• 1/2• 3/4	1/2• 3/4• 1	3/4• 1	1• 1 1/2	1 1/2• 2
Auto Drain	N.C.	•	•	•	•		
	N.O.	•	•	•	•	•	•
Weight lbs. (kgf)	.84 (0.38)	1.21 (0.55)	1.98 (0.9)	3.09 (1.4)	4.63 (2.1)	9.26 (4.2)	23.15 (10.5)

Accessories

Model	AMG150	AMG250	AMG350	AMG450	AMG550	AMG650	AMG850
Bracket assembly with cap screw and spring washer	BM51	BM52	BM53	BM54	BM55	BM56	BM57

How To Order

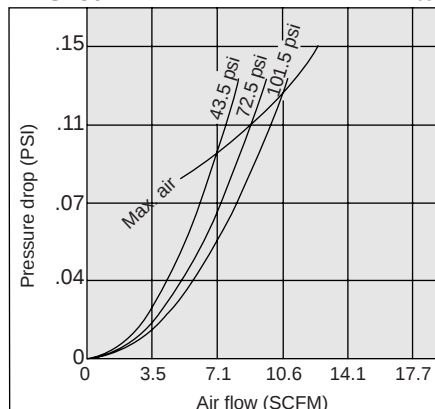


Flow Characteristics

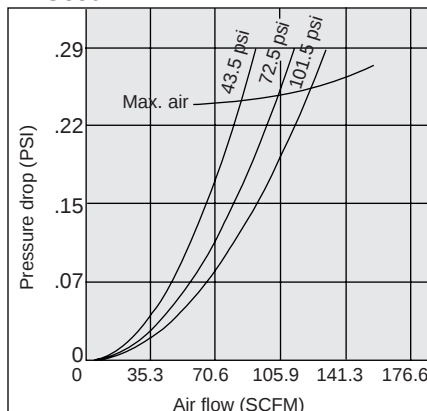
Initial condition of element

(Note) If flow rate is over the maximum, water separator will not operate properly.

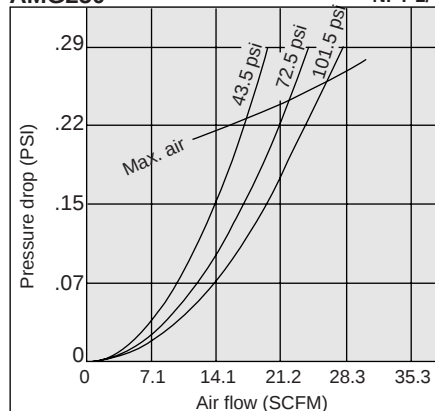
AMG150 NPT 1/8



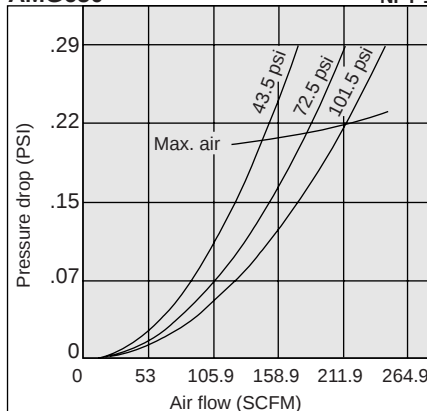
AMG550



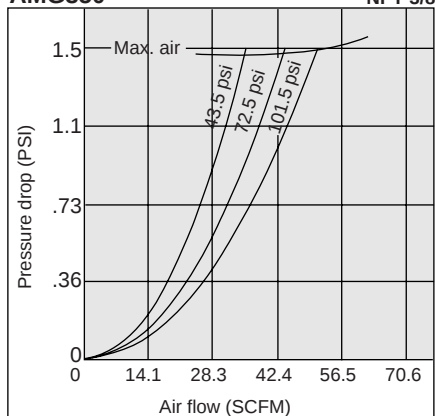
AMG250 NPT 1/4



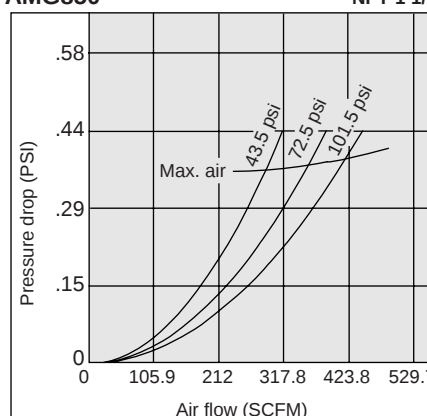
AMG650 NPT 1



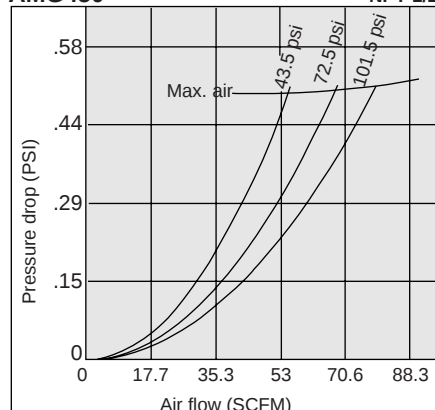
AMG350 NPT 3/8



AMG850 NPT 1 1/2



AMG450 NPT 1/2



Precautions

Be sure to read before handling.
Refer to page 6 for Safety Instructions,
and precautions common to products
mentioned in this volume and refer to
pages 7 and 8 for more detailed
precautions of every series.

Design

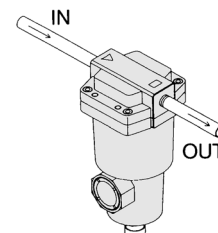
<Caution>

- Plan a design to locate this product in a location that is not likely to create pulsations. If the internal/external pressure difference exceeds 15 PSI, the element could break.
- When using an auto drain, drain pipes must be connected within the following range:
Normally closed (N.C.) }
Normally open (N.O.) }
Tube fittings are provided. Therefore, use a $\varnothing 3/8$ mm external tube, and keep the pipe length within 16.5 ft
AMG850 type (N.O.)
Use a tube with a minimum bore of 9mm, and keep its length within 9 ft.
When using a normally open (N.O.) auto drain, because the valve does not close until the air pressure becomes higher than 22 PSI, the air could keep discharging from the drain discharge section of an air compressor with a small air discharge volume. Therefore, make sure to use a normally closed (N.C.) auto drain with a compressor under 3.7kW.
- The bracket that is provided with the product is for supporting the product itself. Separate supports must be provided for piping and other connection devices.

Installation

<Caution>

- Verify the direction of the compressed air flow and the ">" mark that indicates the inlet side of the product before connecting. It cannot be used with its direction reversed.



- Make sure to install this product horizontally. If it is installed diagonally, sideways, or upside down, the drainage that was separated by the element will splash to the secondary side.

Maintenance

<Caution>

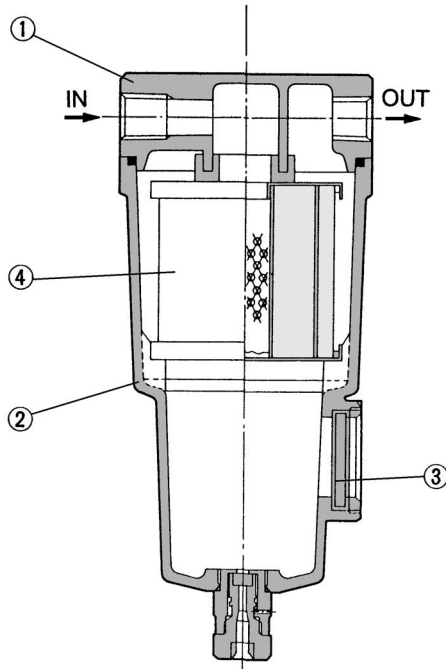
- The element replacement period is when the pressure drop has reached 15 PSI or 2 years have elapsed after it has been put into use, whichever comes first.
- When it is time to replace the element, immediately replace it with a new element. Also replace the O-ring and the gasket with new ones when replacing the element.
- When using a product equipped with a drain valve, drain guide, or a ball valve, discharge the drainage before the drain fluid surface reaches the center of the sight glass. If it is not discharged properly, the drainage will flow out to the secondary side.

Ambient Dryer

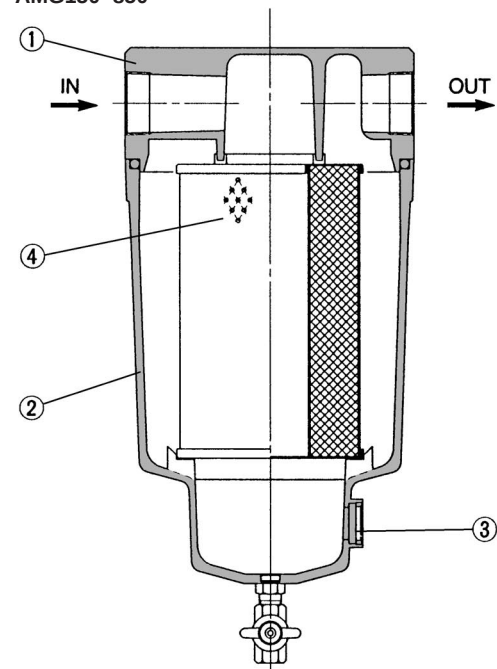
AMG150, 250, 350, 450, 550, 650, 850

Construction/Parts List

AMG150~650



AMG150~850



Component Parts

No.	Description	Material	Remark
①	Body	Aluminum die-cast	Chromate treatment, Epoxy coating on inner surface
②	Housing	Aluminum die-cast*	
③	Sight glass	Tempered glass	

*AMG850: Aluminum casting

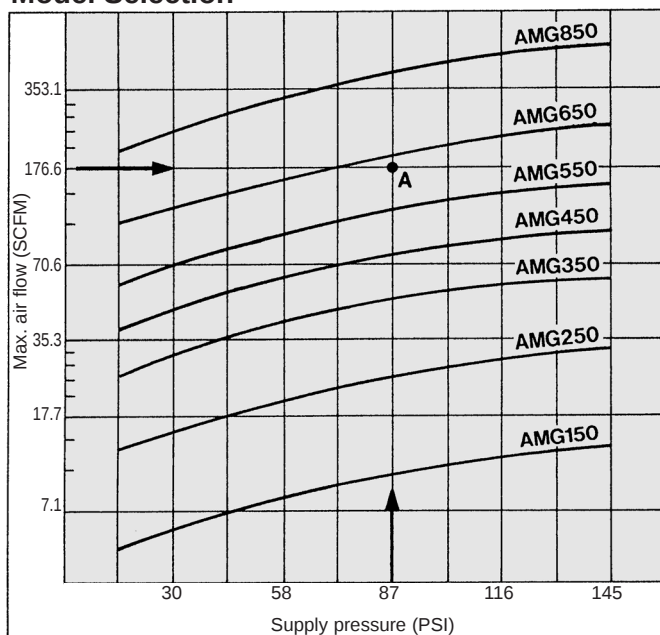
Note: Constructions show sight glass, but mounting position is different from actual position. Please refer to dimensional drawings for more detail.

Replacement Parts

No.	Description	Material	Type						
			AMG150	AMG250	AMG350	AMG450	AMG550	AMG650	AMG850
④	Element assembly	Resin NBR	AMG-EL150	AMG-EL250	AMG-EL350	AMG-EL450	AMG-EL550	AMG-EL650	AMG-EL850

*With gasket, With O-ring

Model Selection



How to Select Model

Follow the procedure given below to select the model in accordance with the inlet pressure and maximum air flow rate requirements.

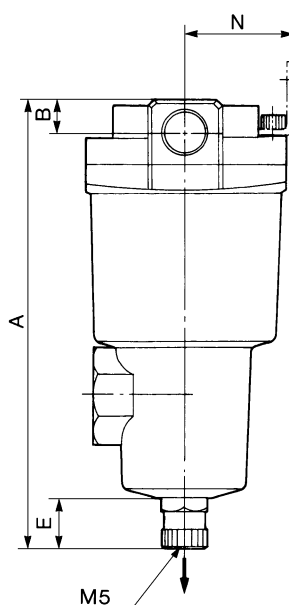
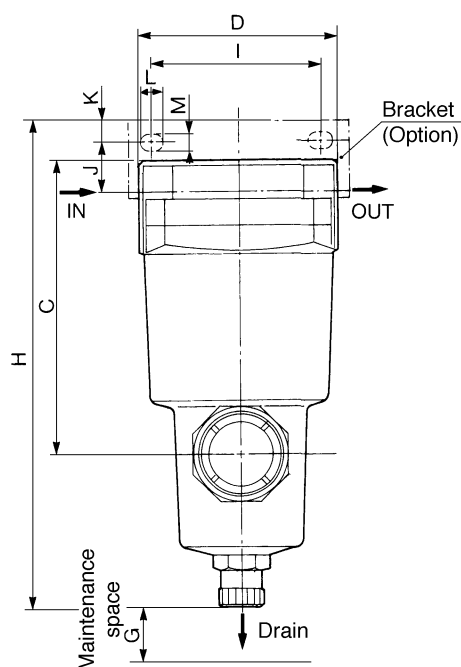
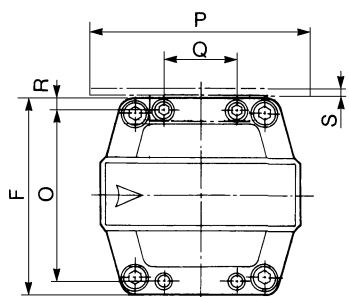
(Example) Inlet pressure : 0.6 MPa {87 PSI}

Maximum air flow rate : 176.6 SCFM

① Using the "Max. air flow", find point A, at which the input pressure and the maximum air flow rate intersect.

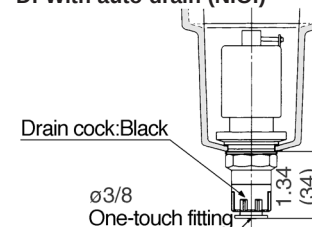
② To select one with the maximum air flow rate line that is located above the obtained intersecting point A, the model will be AMG650.

Note) Make sure to select a model with the maximum air flow rate line that is located above the obtained intersection point. A model with the maximum air flow rate line that is located below the obtained intersection point will have an excess flow rate, and will cause a problem such as being unable to satisfy the specifications.

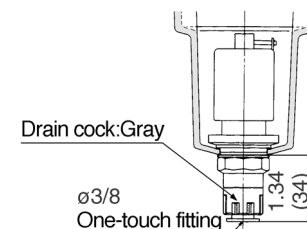


Accessories

D: With auto drain (N.O.)



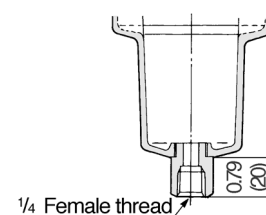
C: With auto drain (N.C.)



*N.C. type of AMG650 is not available.

Optional Specifications

J: With drain guide

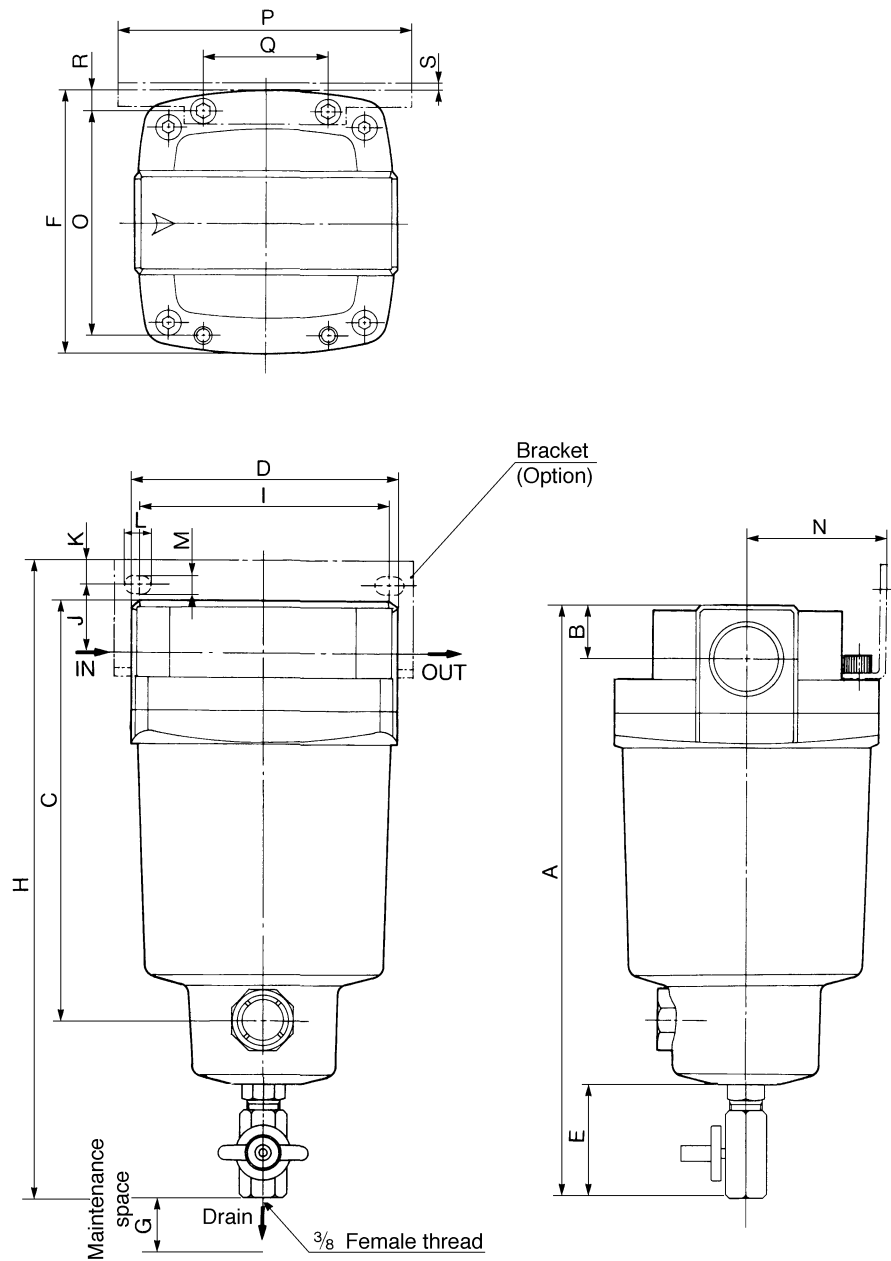
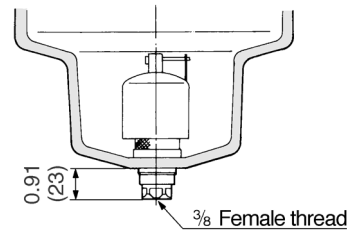


Model	Port Size	A	B	C	D	E	F	G	Dimensions with mounting bracket											
									H	I	J	K	L	M	N	O	P	Q	R	S
AMG150	1/8, 1/4, 3/8	6.26 (159)	.51 (13)	3.94 (100)	2.48 (63)	.79 (20)	2.48 (63)	.39 (10)	6.54 (166)	2.20 (56)	.59 (15)	.20 (5)	.35 (9)	.22 (5.5)	1.38 (35)	2.13 (54)	2.76 (70)	1.02 (26)	.18 (4.5)	.06 (1.6)
AMG250	1/4, 3/8	6.77 (172)	.51 (13)	4.45 (113)	2.99 (76)	.79 (20)	2.99 (76)	.39 (10)	7.36 (187)	2.60 (66)	.79 (20)	.31 (8)	.47 (12)	.24 (6)	1.57 (40)	2.60 (66)	3.31 (84)	1.10 (28)	.20 (5)	.08 (2.0)
	1/2	7.01 (178)	.63 (16)	4.69 (119)	2.99 (76)	.79 (20)	2.99 (76)	.39 (10)	7.36 (187)	2.60 (66)	.67 (17)	.31 (8)	.47 (12)	.24 (6)	1.57 (40)	2.60 (66)	3.31 (84)	1.10 (28)	.20 (5)	.08 (2.0)
AMG350	3/8, 1/2	8.03 (204)	.63 (16)	5.71 (145)	3.54 (90)	.79 (20)	3.54 (90)	.39 (10)	8.58 (218)	3.15 (80)	.87 (22)	.31 (8)	.55 (14)	.28 (7)	1.97 (50)	3.15 (80)	3.94 (100)	1.34 (34)	.20 (5)	.09 (2.3)
	3/4	8.27 (210)	.75 (19)	5.94 (151)	3.54 (90)	.79 (20)	3.54 (90)	.39 (10)	8.58 (218)	3.15 (80)	.75 (19)	.31 (8)	.55 (14)	.28 (7)	1.97 (50)	3.15 (80)	3.94 (100)	1.34 (34)	.20 (5)	.09 (2.3)
AMG450	1/2, 3/4	8.86 (225)	.75 (19)	6.54 (166)	4.17 (106)	.79 (20)	4.17 (106)	.39 (10)	9.49 (241)	3.54 (90)	.98 (25)	.39 (10)	.55 (14)	.35 (9)	2.17 (55)	3.46 (88)	4.33 (110)	1.97 (50)	.35 (9)	.13 (3.2)
	1	9.13 (232)	.87 (22)	6.81 (173)	4.17 (106)	.79 (20)	4.17 (106)	.39 (10)	9.49 (241)	3.54 (90)	.83 (21)	.39 (10)	.55 (14)	.35 (9)	2.17 (55)	3.46 (88)	4.33 (110)	1.97 (50)	.35 (9)	.13 (3.2)
AMG550	3/4, 1	10.20 (259)	.87 (22)	7.87 (200)	4.80 (122)	.79 (20)	4.80 (122)	.39 (10)	10.91 (277)	3.94 (100)	1.18 (30)	.39 (10)	.63 (16)	.35 (9)	2.56 (65)	4.02 (102)	5.12 (130)	2.36 (60)	.39 (10)	.18 (4.5)
AMG650	1, 1 1/2	12.24 (311)	1.26 (32)	9.96 (253)	6.30 (160)	.79 (20)	6.30 (160)	.39 (10)	13.15 (334)	5.91 (150)	1.57 (40)	.59 (15)	.79 (20)	.43 (11)	3.35 (85)	5.35 (136)	7.09 (180)	2.99 (76)	.47 (12)	.18 (4.5)

AMG150.....SAM, #1 AMG450.....SAM, #4
AMG250.....SAM, #2 AMG550.....SAM, #5
AMG350.....SAM, #3 AMG650.....SAM, #6

Accessories

D: With auto drain (N.O.)
for AMG850



Model	Port size (Nominal size B)	A	B	C	D	E	F	G	Mounting Dimensions											
									H	I	J	K	L	M	N	O	P	Q	R	S
AMG850	1½, 2	18.13 (460.5)	1.65 (42)	13.70 (348)	8.66 (220)	2.24 (57.5)	8.66 (220)	.39 (10)	18.25 (463.5)	7.09 (180)	1.18 (30)	.59 (15)	.94 (24)	.51 (13)	4.72 (120)	7.24 (184)	8.66 (220)	4.33 (110)	.71 (18)	.24 (6.0)

AMG850.....SAM, #7