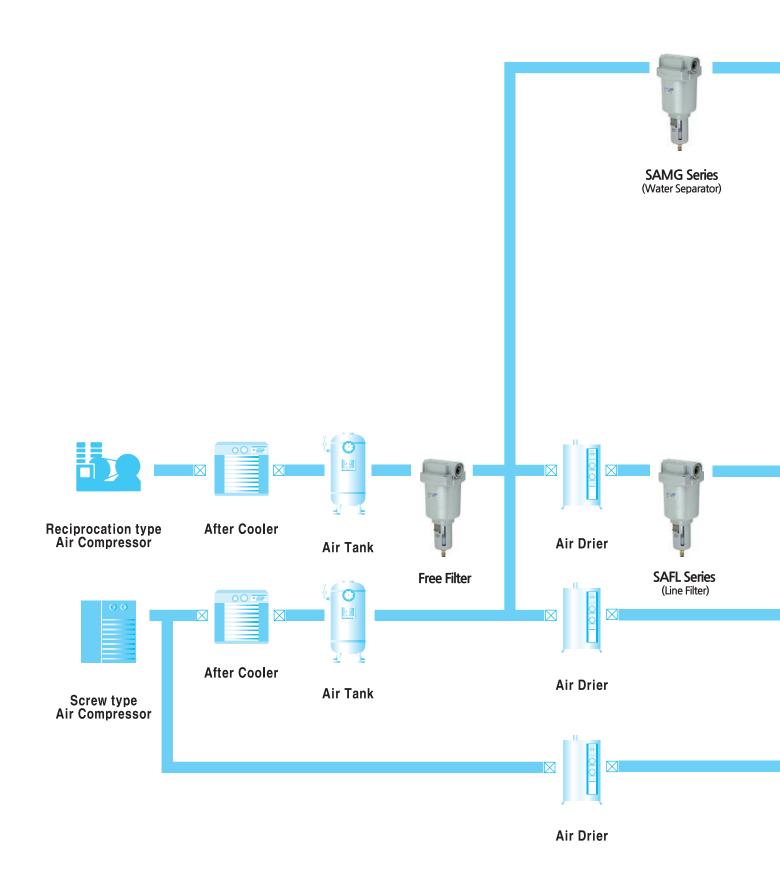
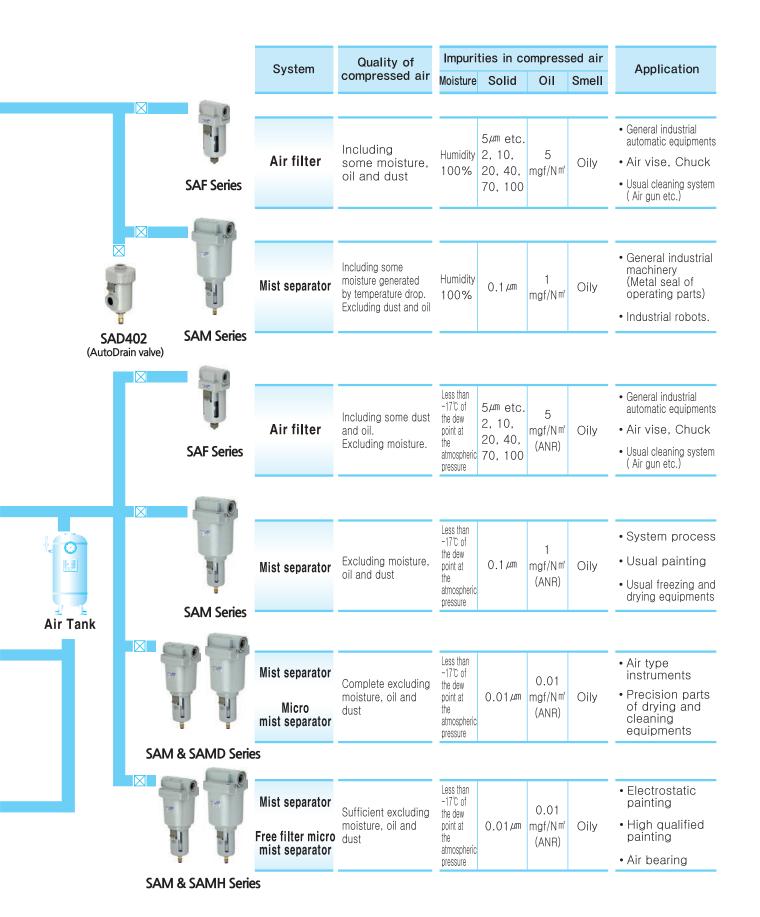
Air Cleaning Equipment



■ SAMU(Micro Separator Unit)	15
■ SAMG(Water Separator)	19
■ SAFL (Main Line Filter)	24
■ SAM (Mist Separator)	29
■ SAMD(Micro Mist Separator)	34
■ SAMH(Micro Mist Separator with Prefilter)	39
■ SAD402(Auto Drain Valve)	44
■ Bracket for Micro Filter	46

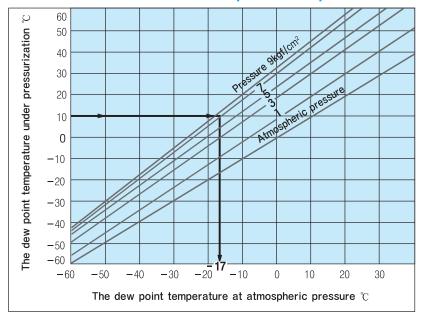
Selection Guide for Cleaning System



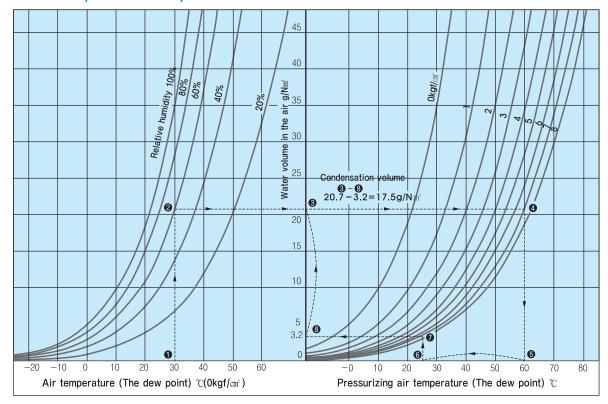


SKP Corp.

A conversion table of The dew point temperature



The dew point under pressurization - Calculation of condensation volume



- The damp air of 30°C under atmospheric pressure and 60% of relative humidity has about 20.7g/Nm² of the moisture volume.(③)
- The dew point of air will be 60 °C after condensation damp air up to 7kgf/cm 2 ($\cancel{0}$ \rightarrow $\cancel{2}$ \rightarrow $\cancel{3}$ \rightarrow $\cancel{4}$ \rightarrow $\cancel{5}$)
- The moisture volume will be 17.5g/Nm² after cooling the damp air up to 25°C.($(6\rightarrow 7)\rightarrow (8\rightarrow 3)$)
- Therefore in case of 3Nm²/min of air flow(a air compressor equivalent to 22kw), condensation volume per hour will be 17.5x3x60 =3.15gf/h.

Air Cleaning Equipment

SAMG / SAFL / SAM / SAMD / SAMH

- > 150~850 Series
- > Water separation · Solid/Oil Separation

NEW VERSION



Possible to make a modular connection with SAU series.

- Space-saving design, Labor-saving in piping!
- Modular connection with SAF, SAW, SAR, SALseries.
- Filter Body size: 150, 250, 350, 550

Port size(When connection with SAU series)

Symbol	Size	Body size									
Syllibol	Size	150	250	350	550						
02	1/4	•									
03	3/8		•								
04	1/2			•							
06	3/4				•						
10	1				•						

Water Separation

SAMG (Water Separator)

Solid/Oil Separation

SAFL (Main Line Filter)
SAM (Mist Separator)
SAMD (Micro Mist Separator)
SAMH (Micro Mist Separator with Pre-filter)

Micro Separator Unit (SAMU)

SAMU150~550 Series





- SAMU Series, The SAMU unique design combines the SAMG (Water Separator), SAMH (0.01 Micron Coalescing) and SAR (Air Regulator).
 The SAMU is a point-of-use drying filtration system which delivers high quality dry air, and a high performance regulator which reduces primary pressure to a desired pressure setting.
- The SAMU series are modular type for easy installation and use in confined spaces.

How to order

SAMU 350 M - 04 DG - MeP - S

- 1 Micro Separator Unit
- ② Body Size
 - 150 1/4
 - 250 3/8
 - 350 1/2
 - 450 3/4 550 - 3/4, 1
- (3) Attachment Method•
 - M Bracket with Modular Spacer
 - B Modular Spacer
- 4 Thread type
 - Nil Rc(PT)
 - N NPT
 - G G(PF)

(5) Port Size

Cunabal	Cino	Body size										
Symbol	Size	150	250	350	450	550						
02	1/4											
03	3/8		•									
04	1/2			•								
06	3/4				•	•						
10	1					•						

6 Accessory(Optional) •

- Nil Manual Drain / None gauge
- D Auto drain

Symbol	Drain connector	Material
D	One-touch fitting(Φ6mm)	Acetal
Dn	Nipple(PT 1/8)	Brass

G - Gauge

G	Round type gauge
Gs	Square embedded type

(7) Case •

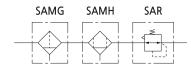
- Nil Metal bowl with flat type sight glass(MeF)
- PcS Polycarbonate bowl with Steel guard
- MeP Metal bowl with pipe type sight glass

Note) 150 and 250 are the integral cover and bowl(MeF type)

Option

- Nil None
- S Differential Pressure Indicator

Symbol



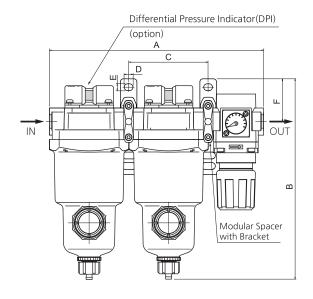
Specification

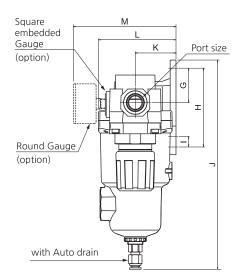
Composition	Water Separator + Micro Mist Separator with Prefilter + Regulator
Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	-5∼60°C (No freezing)
Regulating range(SAR)	0.5~8.5bar (0.05~0.85MPa)
Filtration	SAMG(99% Removal rate of water) + SAMH(0.1+0.01µm)
Life of element	When pressure drop reached at 1bar
Construction(SAR)	Relief type

- ① Please consult with SKP when using the product in applications other than compressed air.
- ② Filter element should be changed after 2years of using or when pressure drop reached at 1bar(0.1MPa).
- ③ Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- ④ Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- (5) To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure.

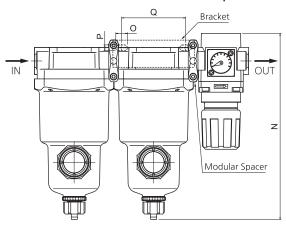
 Turning the knob clockwise increases the outlet pressure, and turning it counterclockwise reduces the pressure.
- When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Also should avoid setting drain piping upwards.
- When auto drain is used it is recommended to use at least 1.5bar pressure.
- When auto drain is out of order, it is possible to drain manually by operating one-touch fitting vertically upwards.

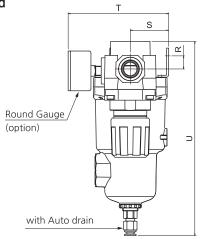
SAMU 150~250





■ Dimensions of each model with an option attached

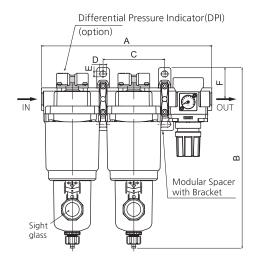


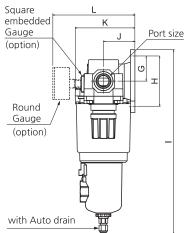


0	D. A. I. Durin	Ga	S: Differential Pressure	
Option	D : Auto Drain	G: Round type	Gs: Square embedded type	Indicator
품명	SAD400	G40, R1/8	Gs28	

Model	Port size	Α	В	С	D	Е	F	G	н	ı	J	K	L	М	N	0	Р	Q	R	S	Т	U
SAMU150	1/4	177	178	67	6.5	5.5	30	24	57	9	185	35	66.5	90	176	9.5	6	56	19.7	33.6	88.6	183
SAMU250	3/8	221	207	82	9	7	43.3	35	70	-	214	41	79	99	192	12	6	66	13.5	39.5	97.5	199

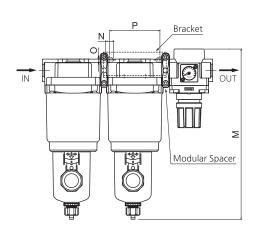
SAMU 350~550

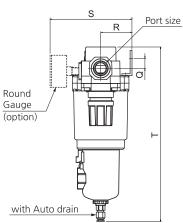


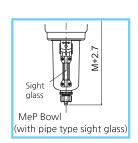




■ Dimensions of each model with an option attached







Ontion	D : Auto Drain	Gau	S : Differential Pressure	
Option	D : Auto Drain	G: Round type	Gs: Square embedded type	1 10 1
Model	SAD400	G50, R1/4	Gs28	

Model	Port size	Α	В	С	D	Е	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т
SAMU350	1/2	271	285.1	98	11	9	50	40	80	292.1	50	95	122	269	13	7	80	15.9	49.8	121.8	276
SAMU450	3/4	302.7	301.5	114	11	9	50	40	80	308.5	55	108	127	286	14	9	90	13.5	56.2	128.2	393
SAMU550	3/4, 1	355	350.2	130	13	11	62.7	50	100	357.2	70	131	148.5	330.4	17.6	8.8	100	21	64.5	143	337.4

Water Separator (SAMG)

SAMG150~850 Series



150-550 series can be combined with other modular equipment.

- · SAMG series filter aims at eliminating waterdrops.
- SAMG series eliminate waterdrops up to 99% at the area of inlet of pneumatic machinery equipment and at the last stage of using air in the workroom.
- · SAMG series are effective to the place such as
 - 1. which does not have to be dry as much as air drier.
- 2. which is not able to install air drier for its restriction.

How to order

SAMG 350 -03 BD - MeP - S (1) Water Separator

- (2) Body Size
 - 150 1/8 250 - 1/4
 - 350 1/2
 - 450 3/4

 - 550 1 650 - 1 1/2
 - 850 2
- 3 Thread type •

Nil - Rc(PT)

- NPT - G(PF)

(4) Port Size

Cumbal	Cino		Body size 150 250 350 450 550 650 850										
Symbol	Size	150	250	350	450	550	650	850					
01	1/8	•											
02	1/4												
03	3/8												
04	1/2												
06	3/4				•	•							
10	1												
12	11/4												
14	11/2						•						
20	2												

(5) Accessory(Optional) •

Nil - None Bracket / Manual Drain

- Bracket

- Auto Drain

Symbol	Drain connector	Material
D	One-touch fitting(Φ6mm)	Acetal
Dn	Nipple(PT 1/8)	Brass

(6) **Bowl** •

- Metal bowl with flat type sight glass(MeF)

PcS - Polycarbonate bowl with Steel guard

MeP - Metal bowl with pipe type sight glass

Note) 150 and 250 are the integral cover and bowl(MeF type).

(7) Option •

Nil - None

- Differential Pressure Indicator

Symbol



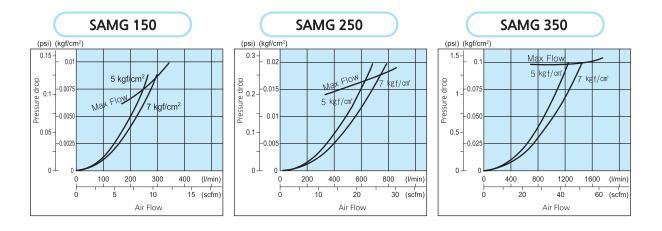
Specification

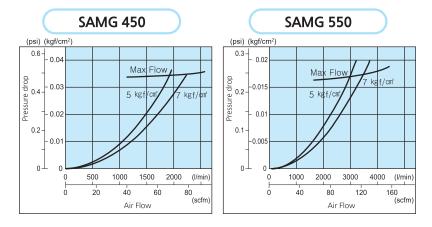
Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Min. operating pressure	1.5bar (0.15MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	5∼60℃
Removal rate of water	99%
Life of element	When pressure drop reached at 1bar

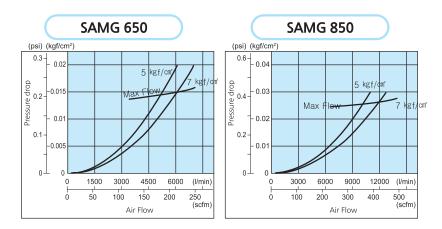
- (1) Water separator can remove water droplets, but it cannot remove moisture.
- ② Filter element should be changed after 2 years of use or when pressure drop reached at 1bar(0.1MPa).
- (3) When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- (4) When auto drain is used it is recommended to use at least 1.5bar pressure.
- (5) When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.
- (6) Before disassembling the equipment on the compressed air side to inspect the auto drain or to replace the filter element, confirm that the pressure is set to zero.

FLOW CHARACTERISTICS

Note: If compressed air is above max. flow, water separator cannot operate well.





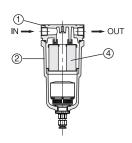


Water Separator

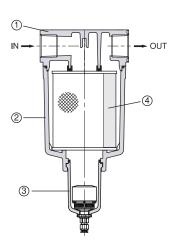
STRUCTURE / PARTS



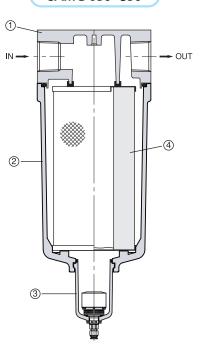
SAMG 150~250



SAMG 350~550



SAMG 650~850



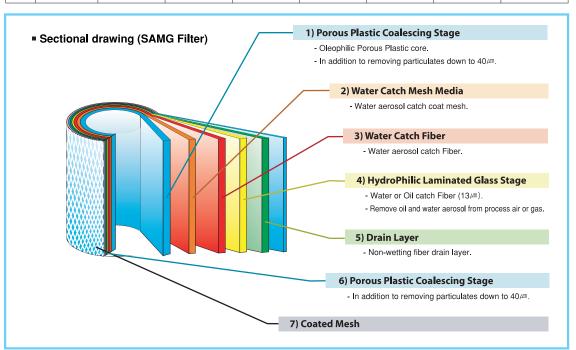
Component Parts

No.	PARTS	MATERIAL					
1	Body	ALDC					
2	Housing	ALDC					
3	Bowl Ass'y	ALDC(MeP type)					
		ALDC(MeF type)					

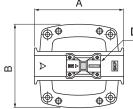
Replacement Parts

(mm)

No.	DADTC	Part No. & Size(Φ x Height)									
	PARTS	AMG-EL150	AMG-EL250	AMG-EL350	AMG-EL450	AMG-EL550	AMG-EL650	AMG-EL850			
4	Filter	45 x 42	58 x 52.5	70 x 77	82 x 87	95 x 117	122 x 144	130 x 260			

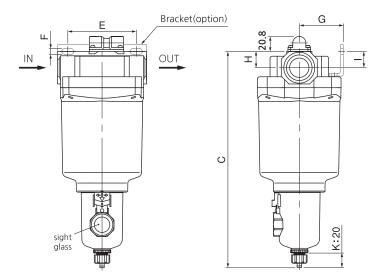


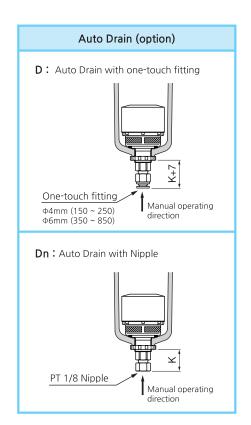
SAMG 150~550

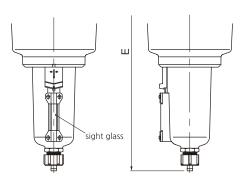


Differential Pressure Indicator(DPI)

Note: DPI(option)inform you when filter should be changed.



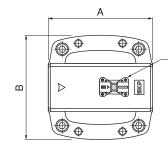




Note: 150 and 250 are the integral cover and bowl(MeF type)

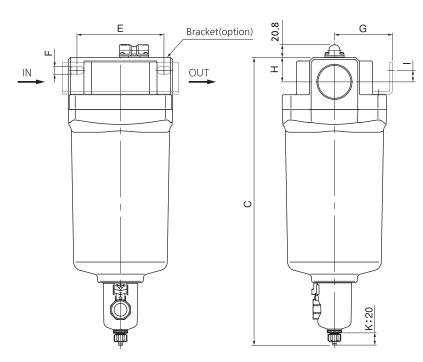
Model	Port size	Α	В	Height(ma	nual drain)	Е	_	G	Н	-
Model	POLL SIZE	_ ^	Б	C(MeF)	D(MeP)	_		G	П	'
SAMG 150	1/8, 1/4	67	66	158.5	-	56	6	33.6	10.5	19.7
SAMG 250	1/4, 3/8	82	76	177.7	-	66	6	39.5	14	13.5
SAMG 350	3/8, 1/2	98	90	253	273	80	7	49.8	17.9	15.9
SAMG 450	3/4	114	106	271.3	291.3	90	9	56.2	19.8	15.3
SAMG 550	3/4, 1	130	122	311.2	331.2	100	8.8	64.5	23.7	21

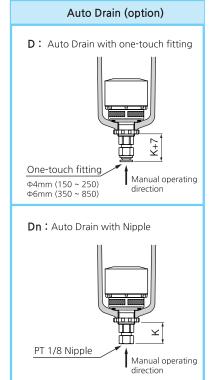
SAMG 650~850

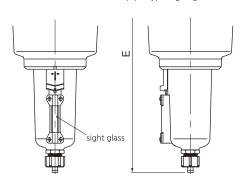


Differential Pressure Indicator(DPI)

Note: DPI(option)inform you when filter should be changed.







Model	Port size	٨	D	Height(ma	nual drain)	Е	E	E	E	_	_	_	E	E	E	E	_	G	Н	
Model	FOIT SIZE	_ ^	ט	C(MeF)	D(MeP)			G	11	•										
SAMG 650	1 1/4, 1 1/2	160	160	361.2	381.2	150	13	93	32	27										
SAMG 850	1 1/2, 2	180	180	490.7	510.7	150	13	100	42	20										

Main Line Filter (SAFL)

SAFL150~850 Series



150-550 series can be combined with other modular equipment.

 SAFL series installed in the main line improve the function of later drier, prolong the expected life span of precision filter and prevent the troubles of machinery by eliminating the impurities such as moisture, oil, other foreign substances from the compressed air.

How to order



- 1 Main Line Filter
- 2 Body Size
 - 150 1/8
 - 250 1/4
 - 350 1/2
 - 450 3/4 550 - 1
 - 650 1 1/2
 - 850 2
- (3) Thread type
 - Nil Rc(PT)
 - N NPT G - G(PF)
- (4) Port Size •

Cumphal	Cina				Body			
Symbol	Size	150	250	350	450	550	650	850
01	1/8							
02	1/4							
03	3/8							
04	1/2							
06	3/4				•	•		
10	1							
12	11/4						•	
14	11/2						•	•
20	2							•

(5) Accessory(Optional) •

- Nil None Bracket / Manual Drain
- B Bracket
- O Auto Drain

Symbol	Drain connector	Material
D	One-touch fitting(Φ6mm)	Acetal
Dn	Nipple(PT 1/8)	Brass

(6) Bowl •

- Nil Metal bowl with flat type sight glass(MeF)
- PcS Polycarbonate bowl with Steel guard
- MeP Metal bowl with pipe type sight glass
 Note) 150 and 250 are the integral cover and bowl(MeF type).

(7) Option •

Nil - None

S - Differential Pressure Indicator

Symbol



Specification

Fluid	Compressed Air					
Max. operating pressure	10bar (1.0MPa)					
Min. operating pressure	1.5bar (0.15MPa)					
Max. supply pressure	15bar (1.5MPa)					
Ambient and Media temp.	5∼60℃					
Filteration	1µm (Filtration efficiency: 99%)					
Life of element	When pressure drop reached at 1bar					

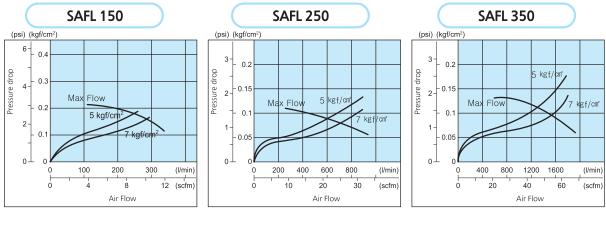
- ① Filter element should be changed after 2years of use or when pressure drop reached at 1bar(0.1MPa).
- When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- ③ When auto drain is used it is recommended to use at least 1.5bar pressure.
- When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.
- (5) Before disassembling the equipment on the compressed air side to inspect the auto drain or to replace the filter element, confirm that the pressure is set to zero.
- © Please consult with SKP when using the product in applications other than compressed air.

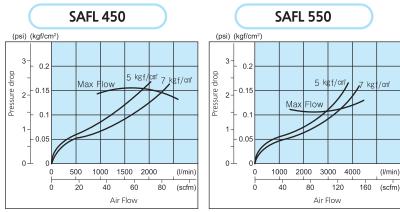
FLOW CHARACTERISTICS

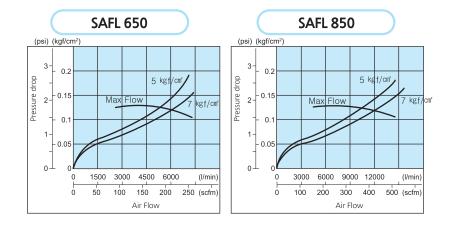
Oil saturated state of element



Note: If compressed air is above max. flow, main line filter cannot be operated well or element may be damaged.



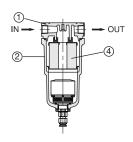




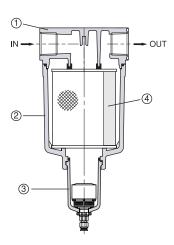
STRUCTURE / PARTS



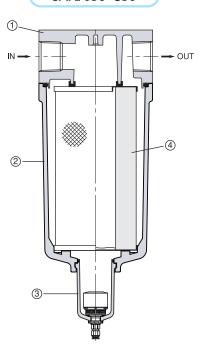




SAFL 350~550



SAFL 650~850



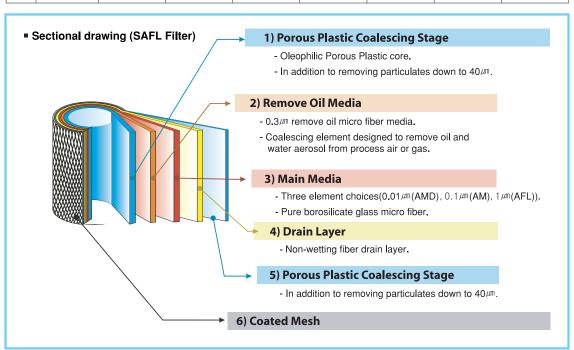
Component Parts

No.	PARTS	MATERIAL				
1	Body	ALDC				
2	Housing	ALDC				
3	Bowl Ass'y	ALDC(MeP type)				
		ALDC(MeF type)				

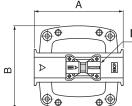
Replacement Parts

(mm)

Nie	DADTC	Part No. & Size(Φ x Height)									
No.	PARTS	AFL-EL150	AFL-EL250	AFL-EL350	AFL-EL450	AFL-EL550	FL-EL550 AFL-EL650	AFL-EL850			
4	Filter	45 x 42	58 x 52.5	70 x 77	82 x 87	95 x 117	122 x 144	130 x 260			

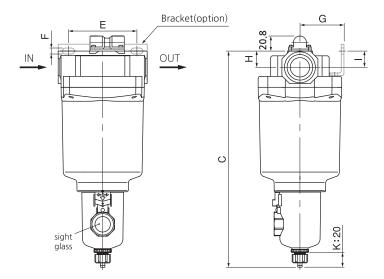


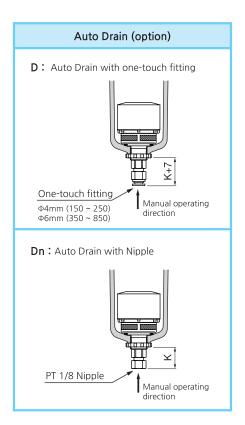
SAFL 150~550

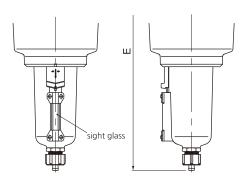


Differential Pressure Indicator(DPI)

Note: DPI(option)inform you when filter should be changed.



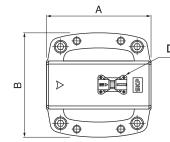




Note: 150 and 250 are the integral cover and bowl(MeF type)

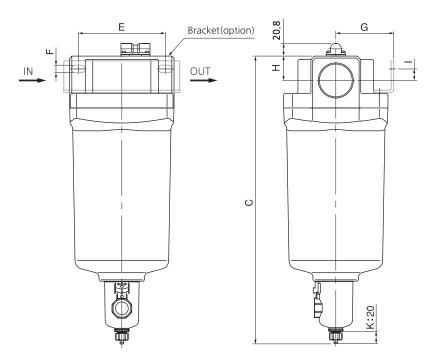
Model	Port size	Α	В	Height(ma	nual drain)	F	-	G	Н	,
Wiodei	POLL SIZE	A	В	C(MeF)	D(MeP)	_	•	G		'
SAFL 150	1/8, 1/4	67	66	158.5	-	56	6	33.6	10.5	19.7
SAFL 250	1/4, 3/8	82	76	177.7	-	66	6	39.5	14	13.5
SAFL 350	3/8, 1/2	98	90	253	273	80	7	49.8	17.9	15.9
SAFL 450	3/4	114	106	271.3	291.3	90	9	56.2	19.8	15.3
SAFL 550	3/4, 1	130	122	311.2	331.2	100	8.8	64.5	23.7	21

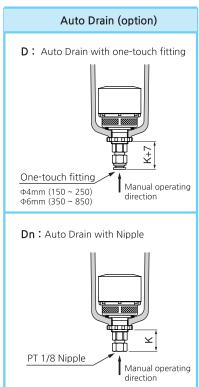
SAFL 650~850

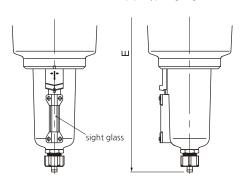


Differential Pressure Indicator(DPI)

Note: DPI(option)inform you when filter should be changed.







Model	Port size	_	D	Height(ma	nual drain)	_	_	c	ш	1
Model	10113126	_ ^	В	C(MeF)	D(MeP)	L	,	G	"	
SAFL 650	1 1/4, 1 1/2	160	160	361.2	381.2	150	13	93	32	27
SAFL 850	1 1/2, 2	180	180	490.7	510.7	150	13	100	42	20

Mist Separator (SAM)

SAM150~850 Series



150-550 series can be combined with other modular equipment.

- SAM series eliminates micro-particles such as rust, carbon of 0.1 micron or greater, etc. by separating oil mist that normal air filters may have difficulty removing.
- SAM series is the optimal filter for use with any air source that drives solenoid valves of pilot type, and metal seal type.

How to order

SAM 350 - 03 BD - MeP - S

- (1) Mist Separator
- -
- ② **Body Size** 150 1/8
 - 250 1/4
 - 350 1/2
 - 450 3/4
 - 550 1
 - 650 1 1/2
 - 850 2
- ③ Thread type
 - Nil Rc(PT)
 - N NPT G - G(PF)
- (4) Port Size •

C l l	c:	Body size							
Symbol	Size	150	250	350	450	550	650	850	
01	1/8	•							
02	1/4		•						
03	3/8								
04	1/2								
06	3/4								
10	1					•			
12	11/4						•		
14	11/2						•	•	
20	2								

(5) Accessory(Optional) •

- Nil None Bracket / Manual Drain
- B Bracket
- D Auto Drain

Symbol	Drain connector	Material
D	One-touch fitting(Φ6mm)	Acetal
Dn	Nipple(PT 1/8)	Brass

(6) **Bowl** •

- Nil Metal bowl with flat type sight glass(MeF)
- PcS Polycarbonate bowl with Steel guard
- MeP Metal bowl with pipe type sight glass

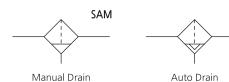
Note) 150 and 250 are the integral cover and bowl(MeF type)

(7) Option •

Nil - None

S - Differential Pressure Indicator

Symbol



Specification

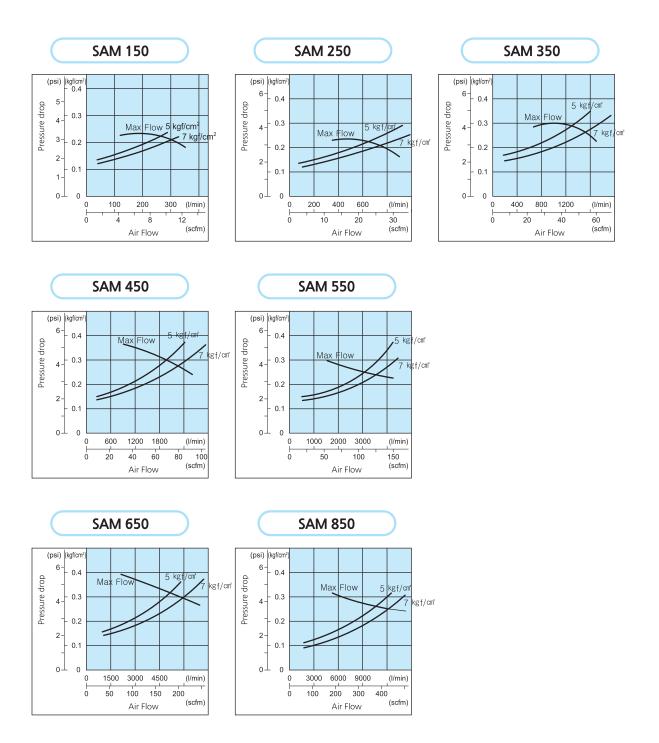
Fluid	Compressed Air			
Max. operating pressure	10bar (1.0MPa)			
Min. operating pressure	1.5bar (0.15MPa)			
Max. supply pressure	15bar (1.5MPa)			
Ambient and Media temp.	5∼60℃			
Filteration	0.1µm (Filtration efficiency: 99%)			
Life of element	When pressure drop reached at 1bar			

- ① Filter element should be changed after 2years of use or when pressure drop reached at 1bar(0.1MPa).
- When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- ③ When auto drain is used it is recommended to use at least 1.5bar pressure.
- When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.
- (5) Before disassembling the equipment on the compressed air side to inspect the auto drain or to replace the filter element, confirm that the pressure is set to zero.
- (6) Please consult with SKP when using the product in applications other than compressed air.

FLOW CHARACTERISTICS

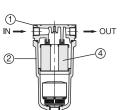
Oil saturated state of element

Note: If compressed air is above max. flow, mist separator cannot be operated well or element may be damaged.

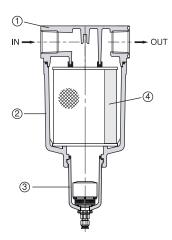


STRUCTURE / PARTS

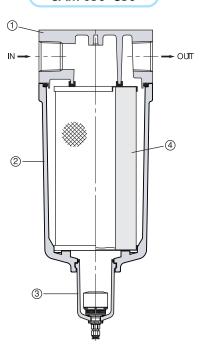




SAM 350~550



SAM 650~850



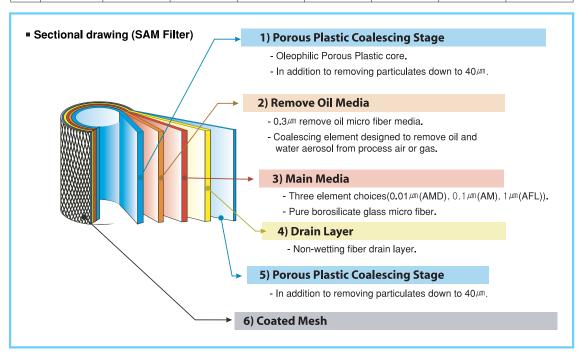
Component Parts

No.	PARTS	MATERIAL		
1	Body	ALDC		
2	Housing	ALDC		
3	Bowl Ass'y	ALDC(MeP type)		
		ALDC(MeF type)		

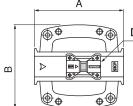
Replacement Parts

(mm)

No.	DADTC			Part No.	& Size(Φ x Heigh	nt)			
P	10.	PARTS	AM-EL150	AM-EL250	AM-EL350	AM-EL450	AM-EL550	AM-EL650	AM-EL850
(4	Filter	45 x 42	58 x 52.5	70 x 77	82 x 87	95 x 117	122 x 144	130 x 260

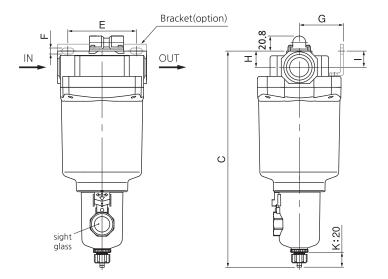


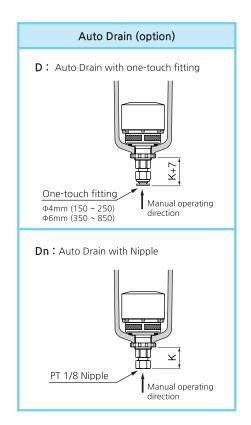
SAM 150~550

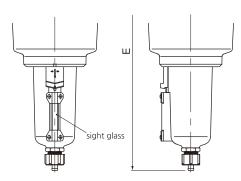


Differential Pressure Indicator(DPI)

Note: DPI(option)inform you when filter should be changed.



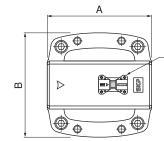




Note: 150 and 250 are the integral cover and bowl(MeF type)

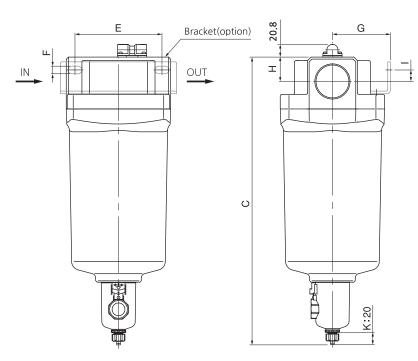
Model	Port size A		Height(ma	Height(manual drain)		_	G	Н		
Model	POIT SIZE	A	В	C(MeF)	D(MeP)	E	r	G	"	•
SAM 150	1/8, 1/4	67	66	158.5	-	56	6	33.6	10.5	19.7
SAM 250	1/4, 3/8	82	76	177.7	-	66	6	39.5	14	13.5
SAM 350	3/8, 1/2	98	90	253	273	80	7	49.8	17.9	15.9
SAM 450	3/4	114	106	271.3	291.3	90	9	56.2	19.8	15.3
SAM 550	3/4, 1	130	122	311.2	331.2	100	8.8	64.5	23.7	21

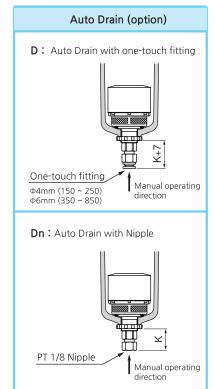
SAM 650~850

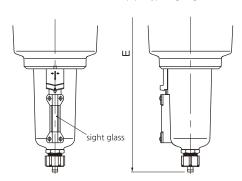


Differential Pressure Indicator(DPI)

Note: DPI(option)inform you when filter should be changed.







Model	Port size	_	D	Height(ma	nual drain)	F	F	_	٥	н	
Model	FOIT SIZE		В	C(MeF)	D(MeP)	_	-	G	"	'	
SAM 650	1 1/4, 1 1/2	160	160	361.2	381.2	150	13	93	32	27	
SAM 850	1 1/2, 2	180	180	490.7	510.7	150	13	100	42	20	

Micro Mist Separator (SAMD)

SAMD150~850 Series





SAMD450



150-550 series can be combined with other modular equipment.

 SAMD series separate and remove the oil particles or carbon and dust particles of size 0.01µm or greater in the air sol state.
 Accordingly SAMD series are ideal for filtering the compressed air necessary for precision measuring instruments and clean room.

How to order

SAMD 350 - 03 BD - MeP - S

- 1 Micro Mist Separator
- 2 Body Size
 - 150 1/8
 - 250 1/4
 - 350 1/2
 - 450 3/4 550 - 1
 - 650 1 1/2
 - 850 2
- 3 Thread type
 - Nil Rc(PT)
 - N NPT G - G(PF)
- (4) Port Size •

C l l	C:	Body size							
Symbol	Size	150	250	350	450	550	650	850	
01	1/8								
02	1/4								
03	3/8		•	•					
04	1/2			•					
06	3/4					•			
10	1					•			
12	11/4						•		
14	11/2						•	•	
20	2								

(5) Accessory(Optional) •

- Nil None Bracket / Manual Drain
- B Bracket
- D Auto Drain

Symbol	Drain connector	Material
D	One-touch fitting(Φ6mm)	Acetal
Dn	Nipple(PT 1/8)	Brass

(6) Bowl ►

- Nil Metal bowl with flat type sight glass(MeF)
- PcS Polycarbonate bowl with Steel guard
- MeP Metal bowl with pipe type sight glass
 Note) 150 and 250 are the integral cover and bowl(MeF type).

(7) Option

Nil - None

S - Differential Pressure Indicator

Symbol



Specification

Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Min. operating pressure	1.5bar (0.15MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	5∼60℃
Filteration	0.01µm (Filtration efficiency: 99%)
Life of element	When pressure drop reached at 1bar

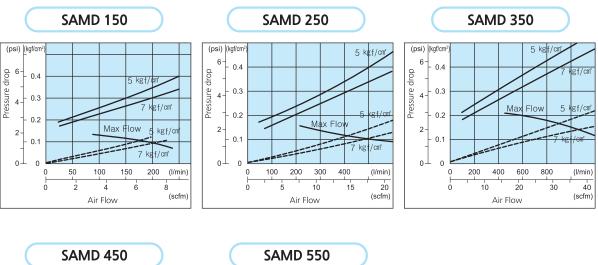
- ① Filter element should be changed after 2years of use or when pressure drop reached at 1bar(0.1MPa).
- When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- ③ When auto drain is used it is recommended to use at least 1.5bar pressure.
- When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.
- (5) Before disassembling the equipment on the compressed air side to inspect the auto drain or to replace the filter element, confirm that the pressure is set to zero.
- © Please consult with SKP when using the product in applications other than compressed air.

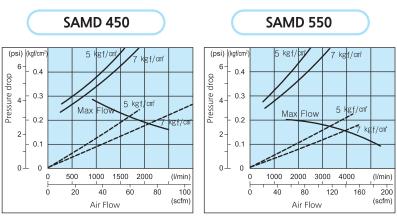
Micro Mist Separator

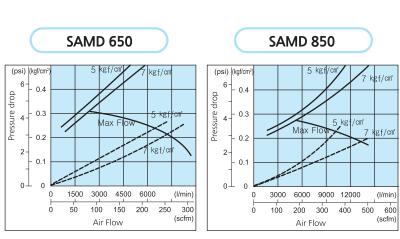
FLOW CHARACTERISTICS

(—Element oil saturation -----Initial condition)

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.



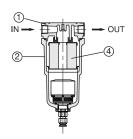




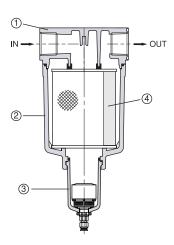
STRUCTURE / PARTS



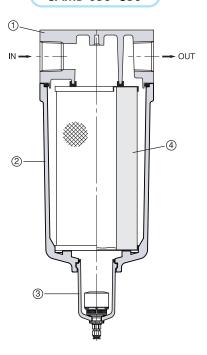
SAMD 150~250



SAMD 350~550



SAMD 650~850



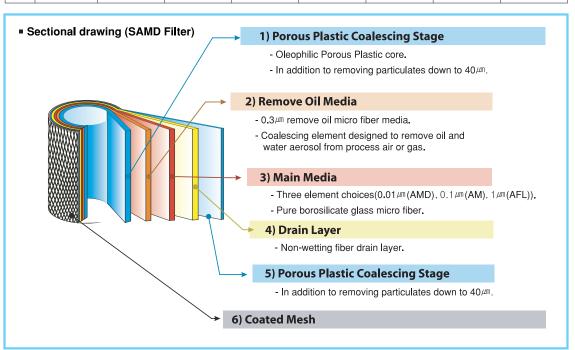
Component Parts

No.	PARTS	MATERIAL		
1	Body	ALDC		
2	Housing	ALDC		
3	Bowl Ass'y	ALDC(MeP type)		
		ALDC(MeF type)		

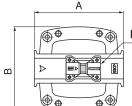
Replacement Parts

(mm)

NI-	. PARTS		nt)					
No.		AMD-EL150	AMD-EL250	AMD-EL350	AMD-EL450	AMD-EL550	AMD-EL650	AMD-EL850
4	Filter	45 x 42	58 x 52.5	70 x 77	82 x 87	95 x 117	122 x 144	130 x 260

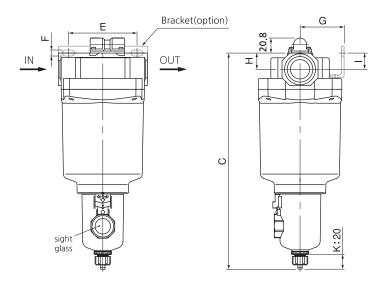


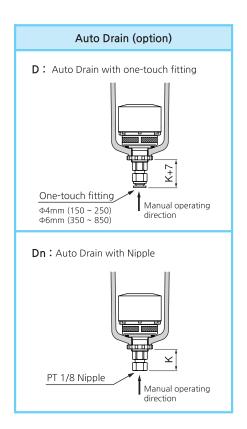
SAMD 150~550

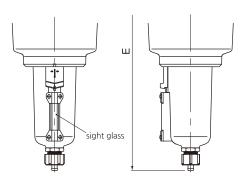


Differential Pressure Indicator(DPI)

Note: DPI(option)inform you when filter should be changed.



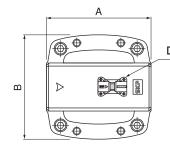




Note: 150 and 250 are the integral cover and bowl(MeF type)

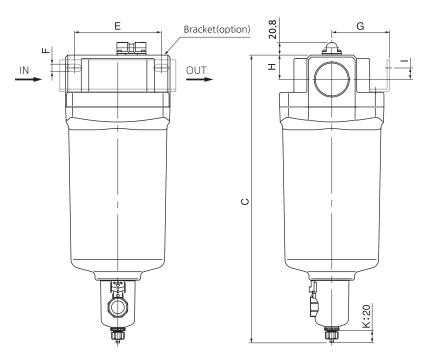
Model	Port size	Α	В	Height(ma	Height(manual drain)		_	G	Н	
Model	FOIT SIZE	_ ^	Ь	C(MeF)	D(MeP)		Г	G		•
SAMD 150	1/8, 1/4	67	66	158.5	-	56	6	33.6	10.5	19.7
SAMD 250	1/4, 3/8	82	76	177.7	-	66	6	39.5	14	13.5
SAMD 350	3/8, 1/2	98	90	253	273	80	7	49.8	17.9	15.9
SAMD 450	3/4	114	106	271.3	291.3	90	9	56.2	19.8	15.3
SAMD 550	3/4, 1	130	122	311.2	331.2	100	8.8	64.5	23.7	21

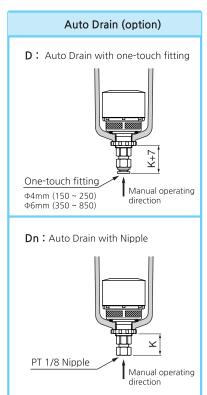
SAMD 650~850

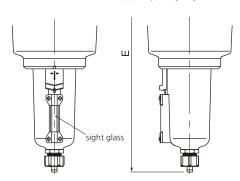


Differential Pressure Indicator(DPI)

Note: DPI(option)inform you when filter should be changed.







Model	Port size	_	D	Height(ma	nual drain)	_	_	c	ш	I	
Wiodei	FOIT SIZE		Ь	C(MeF)	D(MeP)	_		G	П		
SAMD 650	1 1/4, 1 1/2	160	160	361.2	381.2	150	13	93	32	27	
SAMD 850	1 1/2, 2	180	180	490.7	510.7	150	13	100	42	20	

Micro Mist Separator with Prefilter (SAMH)

SAMH150~850 Series



150-550 series can be combined with other modular equipment.

- SAMH series is designed to separate and remove aerosol state oil mist in compressed air and remove carbon or dust of more than 0.01 micron. It should be used as a prefilter for precision instruments utilizing compressed air, or in clean room environments requiring higher clean air quality.
- The conventional pneumatic pressure line SAM Series + SAMD Series have been integrated to reduce installation space, piping labor, and costs.

How to order

SAMH 350 - 03 BD - MeP - S

- Micro Mist Separator with Prefilter
- ② Body Size
 - 150 1/8 250 - 1/4
 - 350 1/2
 - 450 3/4
 - 550 1
 - 650 1 1/2
 - 850 2
- (3) Thread type
 - Nil Rc(PT)
 - N NPT
- G G(PF)

 (4) Port Size •

C l l	c:				Body			
Symbol	Size	150	250	350	450	550	650	850
01	1/8	•						
02	1/4							
03	3/8							
04	1/2							
06	3/4				•	•		
10	1							
12	11/4						•	
14	11/2							•
20	2							•

(5) Accessory(Optional) •

- Nil None Bracket / Manual Drain
- B Bracket
- D Auto Drain

Symbol	Drain connector	Material
D	One-touch fitting(Φ6mm)	Acetal
Dn	Nipple(PT 1/8)	Brass

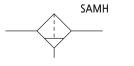
6 Bowl •

- Nil Metal bowl with flat type sight glass(MeF)
- PcS Polycarbonate bowl with Steel guard
- MeP Metal bowl with pipe type sight glass
 - Note) 150 and 250 are the integral cover and bowl(MeF type).

7 Option

- Nil None
- S Differential Pressure Indicator

Symbol





Manual Drain

Auto Drain

Specification

Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Min. operating pressure	1.5bar (0.15MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	5∼60℃
Filteration	0.1µm + 0.01µm
Life of element	When pressure drop reached at 1bar

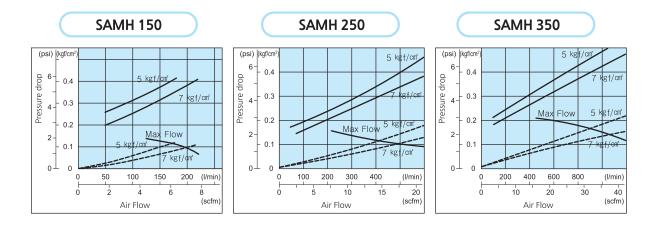
- ① Filter element should be changed after 2years of use or when pressure drop reached at 1bar(0.1MPa).
- When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- ③ When auto drain is used it is recommended to use at least 1.5bar pressure.
- When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.
- (5) Before disassembling the equipment on the compressed air side to inspect the auto drain or to replace the filter element, confirm that the pressure is set to zero.
- © Please consult with SKP when using the product in applications other than compressed air.

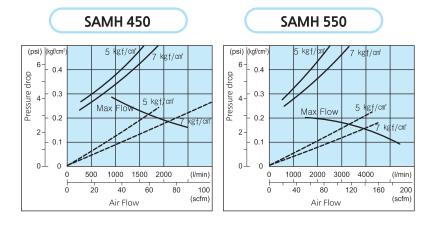
Series SAMH

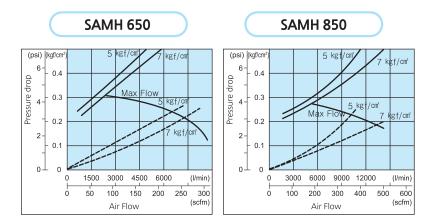
FLOW CHARACTERISTICS

(— Element oil saturation ----- Initial condition)

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.





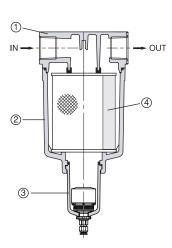


Micro Mist Separator with Prefilter

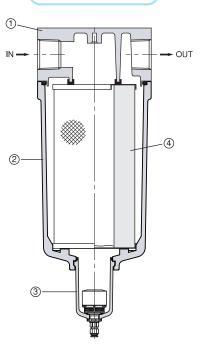
STRUCTURE / PARTS



SAMH 350~550



SAMH 650~850



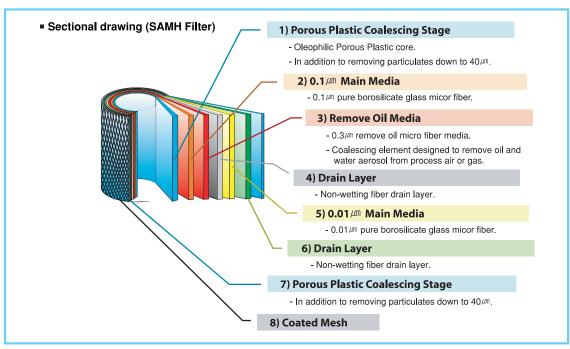
Component Parts

No.	PARTS	MATERIAL
1	Body	ALDC
2	Housing	ALDC
3	Bowl Ass'y	ALDC(MeP type)
		ALDC(MeF type)

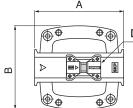
Replacement Parts

(mm)

NIa	DADTC		Part No. & Size(Φ x Height)											
	No.	PARTS	AMH-EL150	AMH-EL250	AMH-EL350	AMH-EL450	AMH-EL550	AMH-EL650	AMH-EL850					
	4	Filter	45 x 42	58 x 52.5	70 x 77	82 x 87	95 x 117	122 x 144	130 x 260					

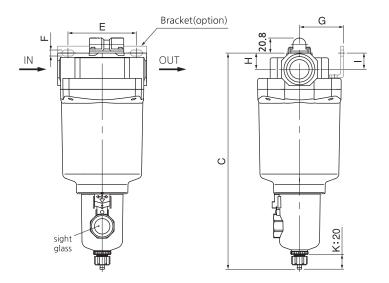


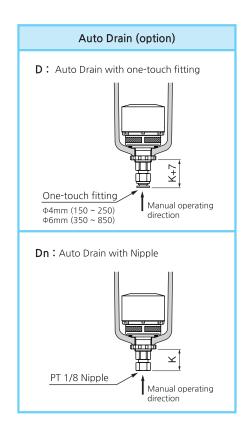
SAMH 150~550

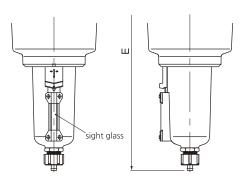


Differential Pressure Indicator(DPI)

Note: DPI(option)inform you when filter should be changed.







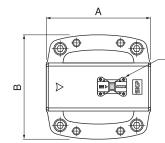
Note: 150 and 250 are the integral cover and bowl(MeF type)

Model	Port size	A	В	Height(manual drain)		_	_	G	Н		
Model	FOIT SIZE	A		D(MeP)	_	r	G		•		
SAMH 150	1/8, 1/4	67	66	158.5	-	56	6	33.6	10.5	19.7	
SAMH 250	1/4, 3/8	82	76	177.7	-	66	6	39.5	14	13.5	
SAMH 350	3/8, 1/2	98	90	253	273	80	7	49.8	17.9	15.9	
SAMH 450	3/4	114	106	271.3	291.3	90	9	56.2	19.8	15.3	
SAMH 550	3/4, 1	130	122	311.2	331.2	100	8.8	64.5	23.7	21	

Micro Mist Separator with Prefilter

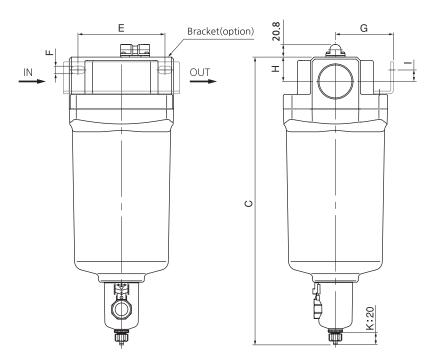
DIMENSIONS (mm)

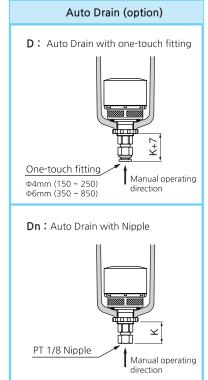
SAMH 650~850

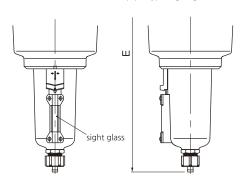


Differential Pressure Indicator(DPI)

Note: DPI(option)inform you when filter should be changed.







Model	Port size	۸	D	Height(ma	nual drain)	_	_	۔	ш	I	
Wodel	FOIT SIZE		В	C(MeF)	D(MeP)	_		9	"		
SAMH 650	1 1/4, 1 1/2	160	160	361.2	381.2	150	13	93	32	27	
SAMH 850	1 1/2, 2	180	180	490.7	510.7	150	13	100	42	20	

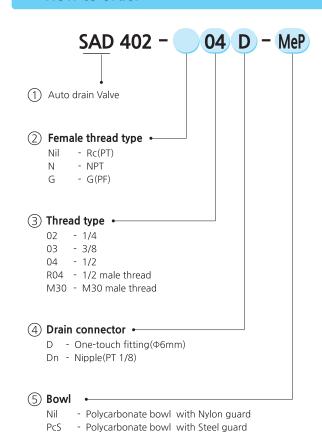
Auto Drain Valve (SAD402)

SAD402 Series

- SAD402 series enable the condensed water in the compressed air line to be drained automatically.
- · SAD402 series can also be operated manually.



How to order



MeP - Metal bowl with pipe type sight glass

MeF - Metal bowl with flat type sight glass

Symbol



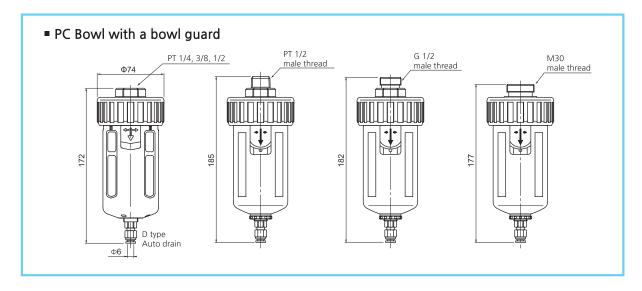
Specification

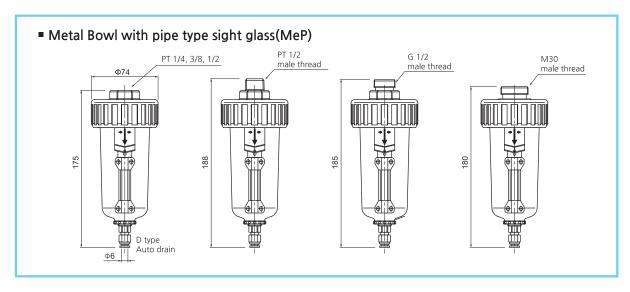
Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Min. operating pressure	1.5bar (0.15MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	-5~60℃ (No freezing)
Bowl Material	Polycarbonate
Bowl Guard Material	Nylon
Port size	1/4, 3/8, 1/2, R1/2, M30

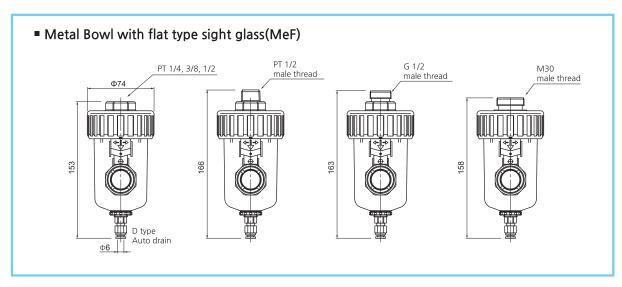
- ① Drain piping should be both 4mm or greater in diameter and less than 1m in length.

 Avoid installing drain piping upwards.
- (2) The drainage hose installed should be straight.
- $\ensuremath{\mathfrak{J}}$ When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.
- When auto drain is used it is recommended to use at least 1.5bar pressure.
- ⑤ Please consult with SKP when using the product in applications other than compressed air.

Note: Dn-type is shorter than 4mm D-type.



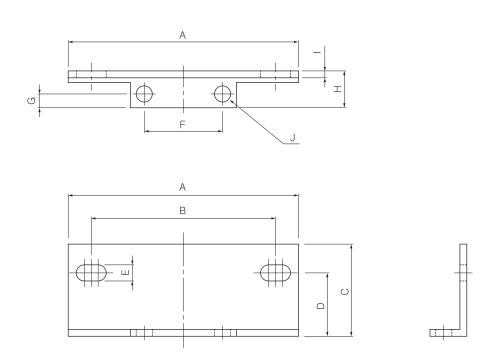




Bracket for Micro Filter

B150~B850 Series





Model	Α	В	С	D	Е	F	G	Н	ı	J	Applicable Model
B150	70	56	24	19	5.5	26	5.3	11.9	1.6	ф3.8	150 Series (SAFL, SAM, SAMD, SAMH, SAMG)
B250	84	66	30	22	6	28	4	11	2	ф6	250 Series (SAFL, SAM, SAMD, SAMH, SAMG)
B350	100	80	35.5	23	7	34	6	16	3	φ7	350 Series (SAFL, SAM, SAMD, SAMH, SAMG)
B450	110	90	38.2	28.2	9	50	6	18.2	3.2	ф9	450 Series (SAFL, SAM, SAMD, SAMH, SAMG)
B550	130	100	44	34	9	60	7	20.5	4	φ9	550 Series (SAFL, SAM, SAMD, SAMH, SAMG)
B650	200	150	60	46	13	76	10	34	6	ф13	650 Series (SAFL, SAM, SAMD, SAMH, SAMG)
B850	200	150	60	46	13	76	10	34	6	φ13	850 Series (SAFL, SAM, SAMD, SAMH, SAMG)

Air Cleaning Equipment Precautions

⚠ Safety Instructions

Be sure to read before handling.

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards (ISO)¹⁾, KS²⁾ and other safety regulations.

△ CAUTION	indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
△WARNING	indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
△ DANGER	indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

1) ISO 4414: Pneumatic fluid power -- General rules relating to systems.

2) KS B 6376 : 공기압 시스템 통칙

Design / Selection

∴WARNING

- Pneumatic system design and device specifications selection should be done by the person with professional knowledge.
- Products represented in this catalog are designed only for use in compressed air systems. Please contact SKP when using a fluid other than compressed air
- Do not operate at pressures or temperatures, etc., beyond the range of specifications, as this can cause damage or malfunction. (Refer to the specifications.)

We do not guarantee against any damage if the product is used outside of the specification range.

∴ CAUTION

■ Provide a design that prevents back pressure and back flow.

The generation of back pressure and back flow could lead to equipment damage.

Air Supply

∴WARNING

■ Please consult with SKP when using the product in applications other than compressed air.

∴ CAUTION

■ Do not use compressed air that contains chemicals, organic solvents, salt, or corrosive gases as it can cause damage or malfunction.

Mounting

MARNING

- When installing the products, allow access for maintenance.
- Tighten threads with the proper tightening torque. Insufficient tightening torque may cause loosening or defective sealing. Over-tightening torque may damage the thread etc.

ACAUTION

- Verify the IN and OUT sides.
 - When connecting the piping, avoid interchanging the IN and the OUT sides.
- Wrapping of pipe tape

When screwing piping or fittings into ports, ensure that chips from the pipe threads or sealing material do not enter the piping. Also, if pipe tape is used, leave 1.5 to 2 thread ridges exposed at the end of the threads.

Operating Environment

↑ WARNING

- Do not operate under the conditions listed below due to a risk of malfunction.
 - 1) In locations having corrosive gases, organic solvents, and chemical solutions, or in locations in which these elements are likely to adhere to the equipment.
 - 2) In locations that are exposed to direct sunlight.
 - 3) In locations that have a heat source and poor ventilation.
 - 4) In locations that are exposed to shocks and vibrations.
 - 5) In locations with high humidity or a large amounts of dust.
- Adhere to the specified fluid temperature and ambient temperature ranges.
 Using the equipment outside of its specification range could cause it to be damaged, malfunction, or operate improperly.

Maintenance

↑ WARNING

- If handled improperly, compressed air can be dangerous.
 Assembly, handling, repair and element replacement of pneumatic systems should be performed by a knowledgeable and experienced person.
- Do not remove components until safety is confirmed.
 - 1) Inspection and maintenance of machine and equipment should only be performed after the confirmation of safe locked-out control positions.
 - 2) Make sure the safety procedure is carried out before disassembly the pneumatic devices. Cut off the supply pressure of the equipment and release the residual compressed air in the system.
 - 3) When restart the system, be aware workpeace flown out cause injury.

^CAUTION

- Set the pressure of the compressed air to zero before an inspection.

 Before disassembling the equipment on the compressed air side for inspecting the auto drain or for replacing the filter element, confirm that the pressure is set to zero.
- Discharge the drainage on a regular basis.

 If drain remains accumulated in the equipment or in the piping, it could cause the equipment to operate improperly, or the drain could splash to the outlet side, leading to unforeseen accidents.

 Therefore, check the drainage volume and the operation of the auto drain on a daily basis.

Air Line Equipment



-	SAU (Air Unit)	50
-	SAU (Large Flow Air Unit)	82
-	SAU (Air Unit for High Pressure)	84
-	SAW (Filter Regulator)	88
-	SAW (Filter Regulator for High Pressure)	94
-	SAWM(Mist Separator Regulator)	98
•	SAWD (Micro Mist Separator Regulator)	98
-	SAF (Air Filter)	104
•	SAF (Filter for High Pressure)	111
-	SAF (Large Flow Air Filter)	115
-	SAFM (Mist Separator)	118
-	SAFD (Mist Separator Regulator)	118
-	SAR (Air Regulator)	123
-	SAR (Large flow Pilot operated Regulator)	131
•	SAR (Air Regulator with T type handle)	134
-	SAR (Air Regulator for High Pressure)	139
-	SRP (Precision Regulator)	143
-	SAL (Air Lubricator)	146
-	SAL (Large Flow Air Lubricator)	153
-	SAD (AutoDrain Kit)	155
-	SHVS (Pressure relief 3 port valve)	158
•	SPS100 (Pressure Switch)	160
-	Accessory for Modular type(Gauge / Barcket / SPS100M / Spacer / SACM)	162

Air Unit (SAU)

Air Filter + Air Regulator + Air Lubricator



How to order

04 DG - MeP 4 00 -1) Air Unit (2) Body Size • 1 - 1/8 2 - 1/4 3 - 3/8 4 - 1/2 6 - 1 (3) Composition • Filter(SAF) Regulator(SAR) Lubricator(SAL) (4) Thread type • Nil - Rc(PT)

(5) Port Size •

- NPT - G(PF)

Cunabal	Cino	Body size					
Symbol	Size	1	2	3	4	6	
M5	M5						
01	1/8		•				
02	1/4		•	•			
03	3/8						
04	1/2				•		
06	3/4				•	•	
10	1						

6 Accessory(Optional) •

Nil - None gauge / Manual Drain

D - Auto Drain

Symbol	Description	Body					
	Description	1	2	3	4	6	
D	One-touch fitting type	•	•	•		•	
Dn	Nipple type	-	-			•	
Df	SAF200 Float type	-	•	-	-	-	

주) 1. SAF100 and SAF200 are differential pressure type. 2. SAF300~600 are float type.

G - Gauge

G	Round type gauge
Gs	Square embedded type

주) SAU100 is available only round type gauge.

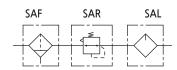
(7) Bowl •

Nil - Polycarbonate bowl with Nylon guard

PcS - Polycarbonate bowl with Steel guard

MeP - Metal bowl with pipe type sight glass

Symbol



Specification

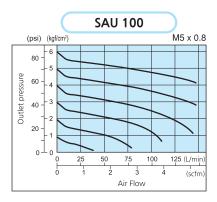
Composition	Filter + Regulator + Lubricator		
Fluid	Compressed Air		
Max. operating pressure	10bar (1.0MPa)		
Max. supply pressure	15bar (1.5MPa)		
Ambient and Media temp.	-5∼60℃ (No freezing)		
Regulating range(SAR)	0.5~8.5bar (0.05~0.85MPa)		
Filtration(SAF)	10µm (option: 2, 5, 20, 40)		
Recommended oil(SAL)	Turbin oil (ISO VG32)		
Bowl material(SAF, SAL)	Poly-carbonate (option: ALDC)		
Bowl Guard Material	Nylon		
Construction(SAR)	Relief type		

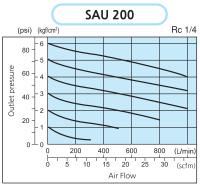
- ① Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- ② Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- ③ Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- ① To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure. Turning the knob clockwise increases the outlet pressure, and turning it counterclockwise reduces the pressure.
- (5) When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length.

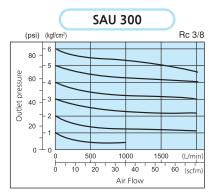
 Avoid installing drain piping upwards.
- When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.

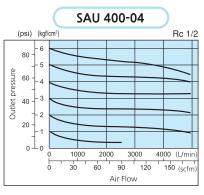
FLOW CHARACTERISTICS

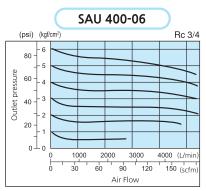
Inlet pressure 7kg/cm²

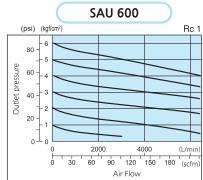




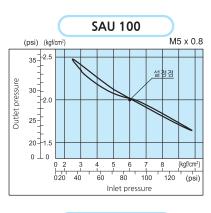


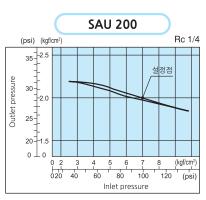


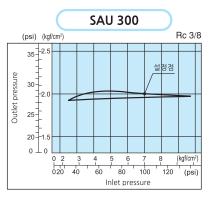


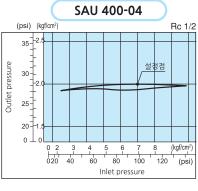


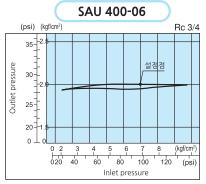
PRESSURE CHARACTERISTICS Inlet pressure 7kg/cm², Outlet pressure 2kg/cm², Flow 20L/min(ANR)

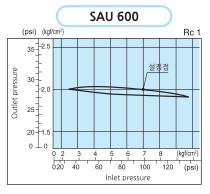






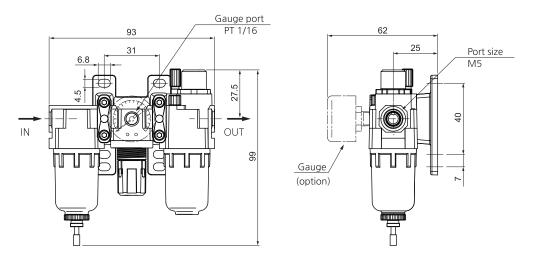


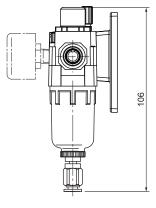




SAU 100

■ SAU100-□□□



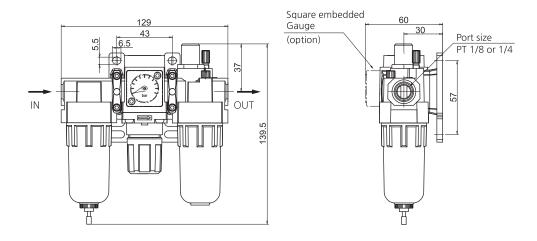


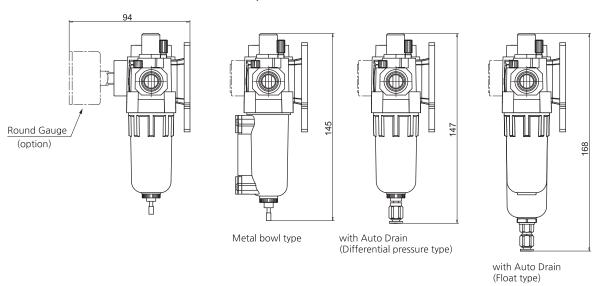
with Auto Drain (Differential pressure type)

Option	D : Auto Drain (Differential pressure type)	G : Gauge
Model	Φ4mm One-touch fitting	G25, R1/16

SAU 200

■ SAU200-□02□□-□

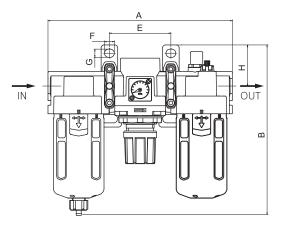


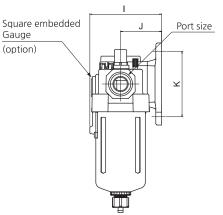


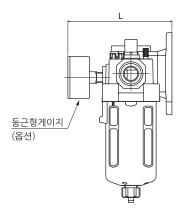
Option	Auto	Drain	Gauge			
Option	D : Differential pressure type	Df : Float type	G : Round type	Gs : Square embedded type		
Model				la de la decimal		
		₩ SAD200	G40, R1/8	Gs28		

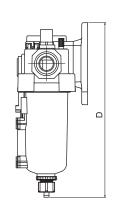
SAU 300~400

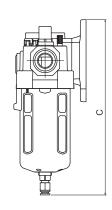
■ SAU300-□03□□-□ SAU400-□04(06)□□-□









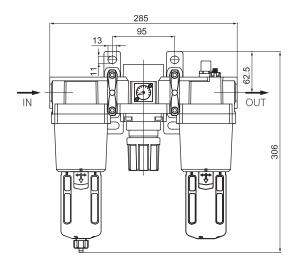


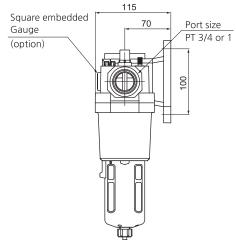
Out! a re	D. A. ta Davis	Gauge			
Option	D : Auto Drain	G : Round type	Gs : Square embedded type		
Model	SAU300 : SAD300 SAU400 : SAD400	SAU300 : G40, R1/8 SAU400 : G50, R1/4	Gs28		

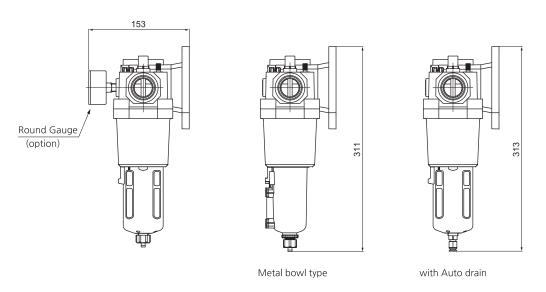
Mode		Port size	Α	В	С	D	Е	F	G	Н	ı	J	K	L
SAU300	03	3/8	171	173	179	190	57	9	7	43	71.5	41	70	107
SAU400	04	1/2	225	208	215	213	75	11	9	50	87.5	50	80	127
SAU400	06	3/4	225	212	219	217	75	11	9	50	87.5	50	80	127

SAU 600

■ SAU600-□06(10)□□-□







Option	D. A. J. Davis	Gauge			
	D : Auto Drain	G : Round type	Gs : Square embedded type		
Model	SAD400	G50, R1/4	Gs28		

Air Unit (SAU110~610 Series)

Filter Regulator + Lubricator







How to order

SAU 6 10 - 10 DG - MeP

② Body Size •

- ے) Body Size 1 - 1/8
 - 2 1/4
 - 3 3/8
 - 4 1/2
 - 6 1
- (3) Composition
 - 10 Filter Regulator(SAW)
 Lubricator(SAL)
- 4 Thread type
 - Nil Rc(PT)
 - N NPT
 - G G(PF)

(5) Port Size •

Cumabal	Cino	Body size						
Symbol	Size	1	2	3	4	6		
M5	M5							
01	1/8		•					
02	1/4		•	•				
03	3/8							
04	1/2				•			
06	3/4					•		
10	1					•		

6 Accessory(Optional) •

- Nil None gauge / Manual Drain
- D Auto Drain

Symbol	Description		Body		у	
Syllibol	Description		2	3	4	6
D	One-touch fitting type		•	•	•	•
Dn	Nipple type	-	-	•	•	•
Df	SAW200 Float type	-		-	-	-

Note) 1, SAW100 and SAW200 are differential pressure type. 2. SAW300~600 are float type.

G - Gauge

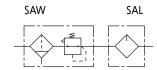
G	Round type gauge
Gs	Square embedded type

Note) SAU110 is available only round type gauge.

7 Bowl

Nil - Polycarbonate bowl with Nylon guard PCS - Polycarbonate bowl with Steel guard MeP - Metal bowl with pipe type sight glass

Symbol



Specification

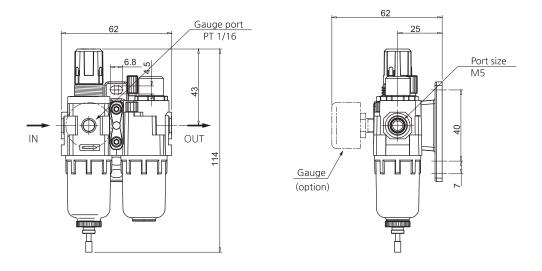
Composition	Filter Regulator + Lubricator
Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	-5~60°C (No freezing)
Regulating range(SAR)	0.5~8.5bar (0.05~0.85MPa)
Filtration(SAF)	10μm (option: 2, 5, 20, 40)
Recommended oil(SAL)	Turbin oil (ISO VG32)
Bowl material(SAF, SAL)	Poly-carbonate (option: ALDC)
Bowl Guard Material	Nylon
Construction(SAR)	Relief type

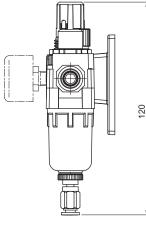
- ① Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- ② Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- ③ Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- ④ To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure. Turning the knob clockwise increases the outlet pressure, and turning it counterclockwise reduces the pressure.
- (5) When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length.

 Avoid installing drain piping upwards.
- When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.

SAU 110

■ SAU110-□□□



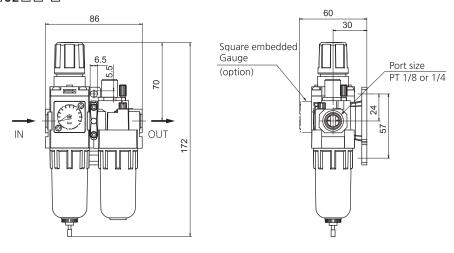


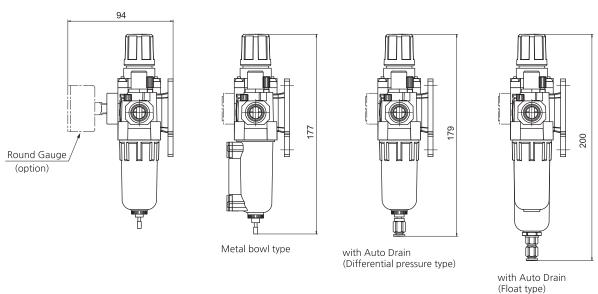
with Auto Drain (Differential pressure type)

Option	D : Auto Drain (Differential pressure type)	G : Gauge
Model	Φ4mm One-touch fitting	G25, R1/16

SAU 210

■ SAU210-□02□□-□

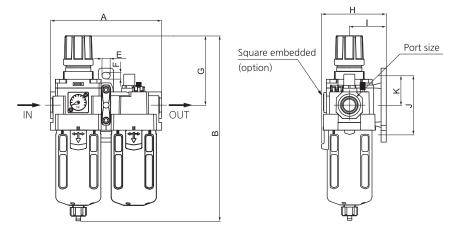


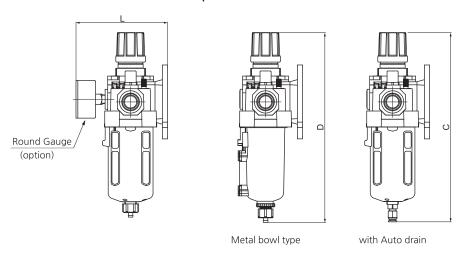


Option		Drain	Gauge		
	D : Differential pressure type	Df : Float type	G : Round type	Gs : Square embedded type	
Model		SAD200	G40, R1/8	Gs28	

SAU 310~410

■ SAU310-□03□□-□ SAU410-□04□□-□

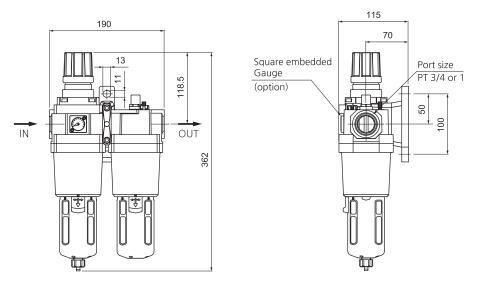


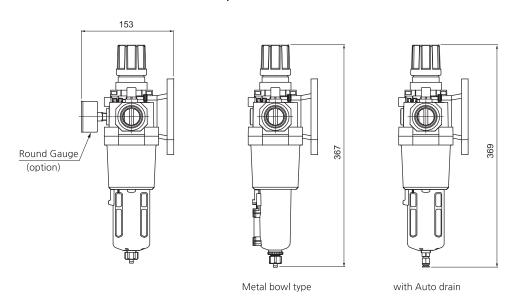


Ontion		D · A	uto Drair			Gau			uge				
Option		υ. A	uto Diali	1		G : Round type			Gs : Square embedded type				
Model) : SAD3() : SAD4(540, R1/8 550, R1/4			Gs		
Model	Port size	Α	В	С	D	Е	F	G	Н	ı	J	К	L
SAU310-03	1/4, 3/8	114	220	226	228	9	7	89	71.5	41	70	35	107
SAU410-04	1/2	150	251	258	256	11	9	94	87.5	50	80	40	127

SAU 610

■ SAU610-□06(10)□□-□





0-4	D : Auto Duniu	Ga	uge
Option	D : Auto Drain	G : Round type	Gs : Square embedded type
Model	SAD400	G50, R1/4	Gs28

Air Unit (SAU120~620 Series)

Air Filter + Air Regulator





How to order

SAU 3 20 - 03 DG - MeP

- Air Unit
 Body Size
 - 1 1/8
 - 2 1/4
 - 3 3/8
 - 4 1/2 6 - 1
- ③ Composition •

20 Filter(SAF)
Regulator(SAR)

4 Thread type •

Nil - Rc(PT)

N - NPT G - G(PF)

⑤ Port Size ←

Cumbal	Cino	Body size				
Symbol	Size	1	2	3	4	6
M5	M5					
01	1/8		•			
02	1/4			•		
03	3/8			•		
04	1/2				•	
06	3/4				•	•
10	1					

(6) Accessory(Optional) •

Nil - None gauge / Manual Drain

O - Auto Drain

Symbo	Description	Body				
Зуппоо	Description	1	2	3	4	6
D	One-touch fitting type	•	•	•	•	
Dn	Nipple type	-	-	•	•	
Df	SAF200 Float type	-	•	-	-	-

주) 1. SAF100 and SAF200 are differential pressure type. 2. SAF300~600 are float type.

G - Gauge

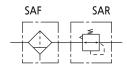
G	Round type gauge			
Gs Square embedded type				
주) SAU110 is available only round type gauge.				

(7) Bowl •

Nil - Polycarbonate bowl with Nylon guard PcS - Polycarbonate bowl with Steel guard

MeP - Metal bowl with pipe type sight glass

Symbol



Specification

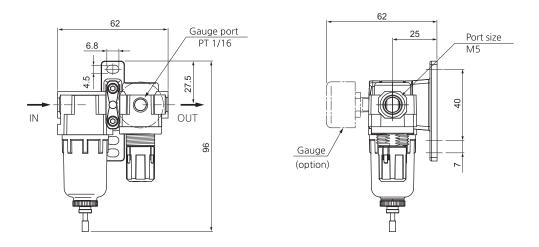
Composition	Filter + Regulator
Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	-5∼60°C (No freezing)
Regulating range(SAR)	0.5~8.5bar (0.05~0.85MPa)
Filtration(SAF)	10μm (option: 2, 5, 20, 40)
Bowl material(SAF)	Poly-carbonate (option: ALDC)
Bowl Guard Material	Nylon
Construction(SAR)	Relief type

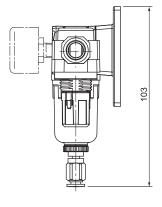
- ① Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- ② Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- ③ Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- ① To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure. Turning the knob clockwise increases the outlet pressure, and turning it counterclockwise reduces the pressure.
- (5) When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length.

 Avoid installing drain piping upwards.
- (6) When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.

SAU 120

■ SAU120-□□□



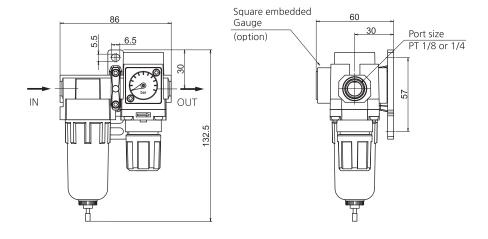


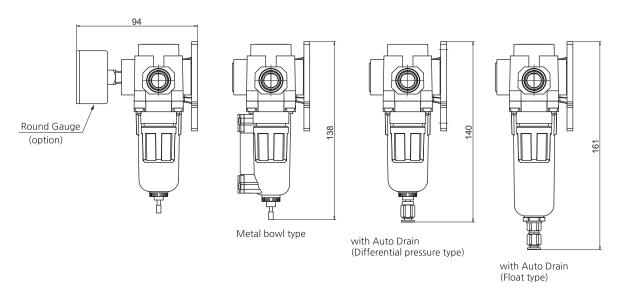
with Auto Drain (Differential pressure type)

Option	D : Auto Drain (Differential pressure type)	G : Gauge
Model	Φ4mm One-touch fitting	G25, R1/16

SAU 220

■ SAU220-□02□□-□

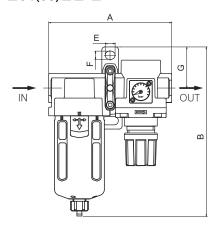


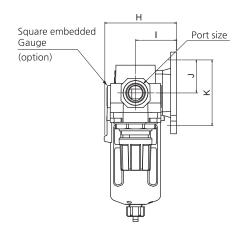


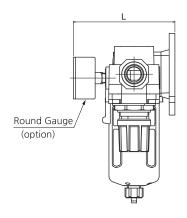
	Option	Auto	Drain	Gauge		
		D : Differential pressure type	Df : Float type	G : Round type	Gs : Square embedded type	
	Model		SAD200	G40, R1/8	Gs28	

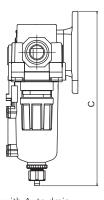
SAU 320~420

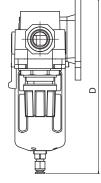
■ SAU320-□03□□-□ SAU420-04(06) 0 0 - 0











with Auto drain

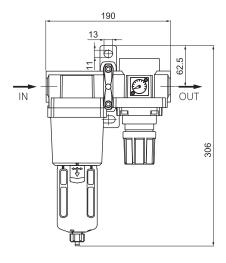
Metal bowl type

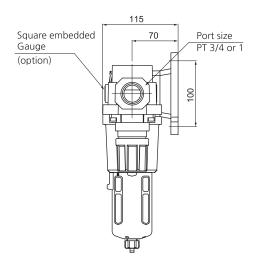
Outline	D . A. I. D. :	Gauge				
Option	D :Auto Drain	G : Round type	Gs : Square embedded type			
Model	SAU300 : SAD300 SAU400 : SAD400	SAU320 : G40, R1/8 SAU420 : G50, R1/4	Gs28			

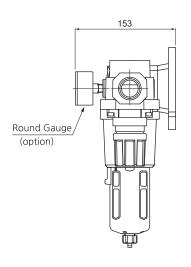
Model	Port size	Α	В	С	D	Е	F	G	Н	ı	J	К	L
SAU320-03	1/4, 3/8	114	174	191	180	9	7	43.5	71.5	41	70	35	107
SAU420-04	1/2	150	207	212	214	11	9	50	87.5	50	80	40	127
SAU420-06	3/4	150	211	216	218	11	9	50	87.5	50	80	40	127

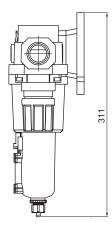
SAU 620

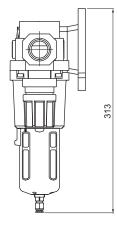
■ SAU620-□06(10)□□-□











Metal bowl type

with Auto drain

Ontina	D : Auto Dania	Gauge				
Option	D : Auto Drain	G : Round type	Gs : Square embedded type			
Model	SAD400	G50, R1/4	Gs28			

Air Unit (SAU230~430 Series)

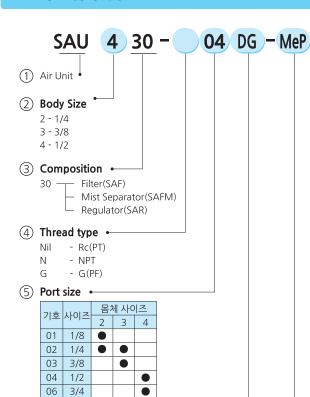
Air Filter + Mist Separator + Air Regulator





SAU 230 SAU 330

How to order



(6) Accessory(Optional) •

- None gauge / Manual Drain

- Auto Drain

Symbol	Description	E	3od	y
Зуппоот	Description	2	3	4
D	One-touch fitting type		•	
Dn	Nipple(PT1/8) type		•	
Df	SAF(M)200 Float type		-	-

주) 1. SAF(M)200 are differential pressure type. 2. SAF(M)300~400 are float type

- Gauge

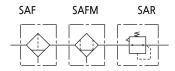
G	Round type gauge
Gs	Square embedded type

(7) Bowl

- Polycarbonate bowl with Nylon guard PcS - Polycarbonate bowl with Steel guard

- Metal bowl with pipe type sight glass

Symbol



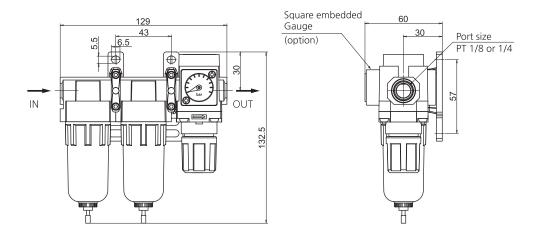
Specification

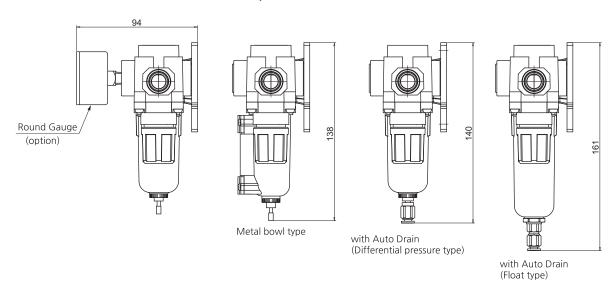
Composition	Filter + Mist Separator + Regulator
Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	-5∼60° (No freezing)
Regulating range(SAR)	0.5~8.5bar (0.05~0.85MPa)
Filtration	SAF:10µm + SAFM:0.1µm
Bowl material(SAF, SAFM)	Poly-carbonate (option: ALDC)
Bowl Guard Material	Nylon
Construction(SAR)	Relief type

- (1) Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- 2 Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- (3) Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- (4) To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure. Turning the knob clockwise increases the outlet pressure, and
 - turning it counterclockwise reduces the pressure.
- (5) When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- 6 When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.

SAU 230

■ SAU230-□02□□-□

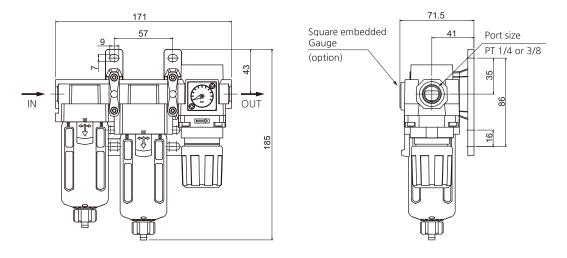


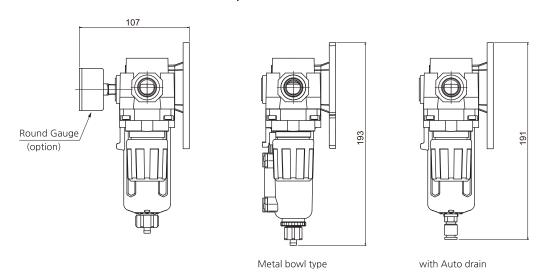


Option	Auto	Drain	Gauge			
Option	D : Differential pressure type	Df : Float type	G : Round type	Gs : Square embedded type		
Model				(B) bar		
		SAD200	G40, R1/8			

SAU 330

■ SAU330-□03□□-□

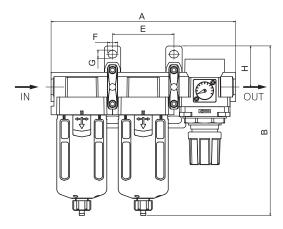


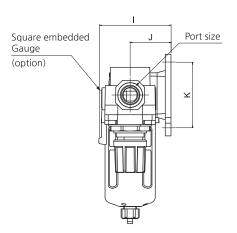


Ontina	D : Auto Dania	Gauge				
Option	D : Auto Drain	G : Round type	Gs : Square embedded type			
Model			bar			
	SAD300	G40, R1/8	Gs28			

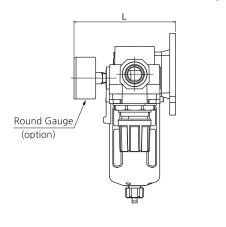
SAU 430

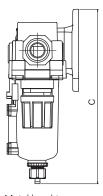
■ SAU430-□04□□-□
SAU430-□06□□-□

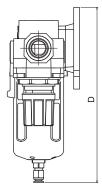




■ Dimensions of each model with an option attached







Metal bowl type

with Auto drain

0-4:	D : Auto Dunia	Ga	uge
Option	D : Auto Drain	G : Round type	Gs : Square embedded type
Model			la de la decimal
	SAD400	G50, R1/4	Gs28

Model	Port size	Α	В	С	D	Е	F	G	Н	I	J	K	Г
SAU430-04	1/2	150	207	212	214	75	11	9	50	87.5	50	80	127
SAU430-06	3/4	150	211	216	218	75	11	9	50	87.5	50	80	127

Air Unit (SAU240~440 Series)

Filter Regulator + Mist Separator







SAU 240

SAU 340

SAU 440

How to order

04 DG - MeP 4 40 -(1) Air Unit 2 Body Size 2 - 1/4

(3) Composition •

3 - 3/8 4 - 1/2

- Filter Regulator(SAW) Mist Separator(SAFM)
- (4) Thread type
 - Rc(PT)
 - N - NPT - G(PF)
- (5) Port size •

기능	사이즈	몸	네 사이	즈
기오	\[\rac{1}{1}	2	3	4
01	1/8			
02	1/4		•	
03	3/8		•	
04	1/2			•
06	3/4			

6 Accessory(Optional) •

- None gauge / Manual Drain
- Auto Drain

Sym	hal	Description	Е	3od	y
Sylli	וטע	Description	2	3	4
D)	One-touch fitting type		•	
Dı	n	Nipple(PT1/8) type	-	•	
D	f	SAW,SAFM200 Float type	•	-	-

- 주) 1. SAW, SAFM200 are differential pressure type.
- 2. SAW, SAFM300~400 are float type
- Gauge

G	Round type gauge
Gs	Square embedded type

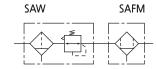
(7) Bowl

- Polycarbonate bowl with Nylon guard

PcS - Polycarbonate bowl with Steel guard

MeP - Metal bowl with pipe type sight glass

Symbol



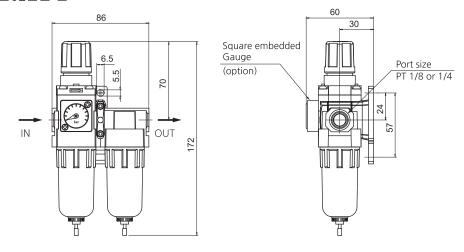
Specification

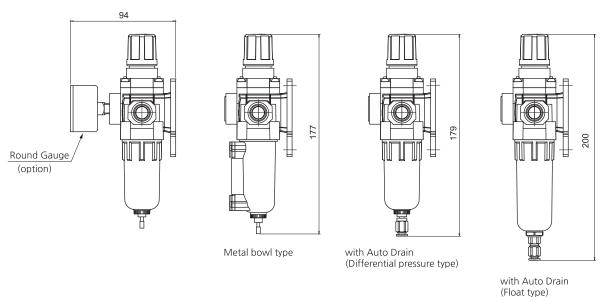
Composition	Filter Regulator + Mist Separator
Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	-5~60° (No freezing)
Regulating range(SAW)	0.5~8.5bar (0.05~0.85MPa)
Filtration	SAW:10µm + SAFM:0.1µm
Bowl material(SAW, SAFM)	Poly-carbonate (option: ALDC)
Construction(SAW)	Relief type

- 1 Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- 2) Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can
- 3 Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- 4 To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure. Turning the knob clockwise increases the outlet pressure, and turning it counterclockwise reduces the pressure.
- (5) When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- 6 When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.

SAU 240

■ SAU240-□02□□-□

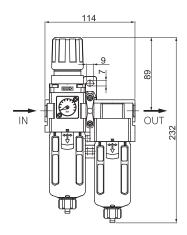


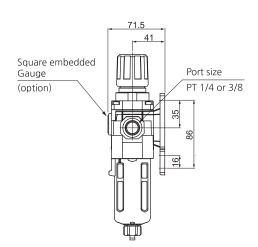


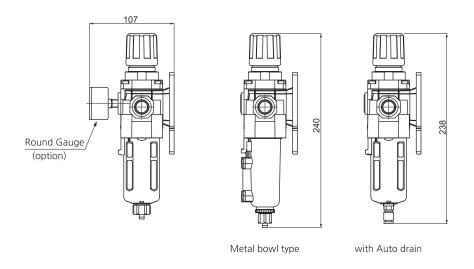
Or	ption	Auto	Drain	Ga	uge
O,		D : Differential pressure type	Df : Float type	G : Round type	Gs : Square embedded type
M	odel				bar bar
			SAD200	G40, R1/8	Gs28

SAU 340

■ SAU340-□03□□-□



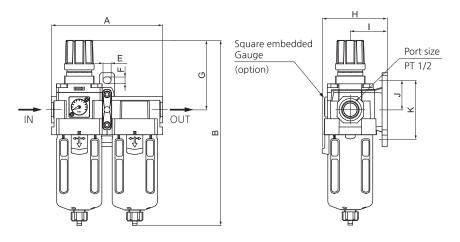


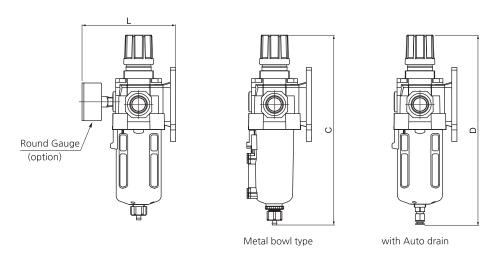


0		D. Auto Durin	Ga	uge
Op	tion	D : Auto Drain	G : Round type	Gs : Square embedded type
Мс	odel			bar
		☐ SAD300	G40, R1/8	Gs28

SAU 440

■ SAU440-□04(06)□□-□





Ontina	D : Auto Dunia	Ga	uge
Option	D : Auto Drain	G : Round type	Gs : Square embedded type
Model	SAD400	G50, R1/4	Gs28

Model	Port size	А	В	С	D	Е	F	G	Н	I	J	K	L
SAU420-04	1/2	150	251	254	258	11	9	94	87.5	50	40	80	127
SAU420-06	3/4	150	256	259	263	11	9	94	87.5	50	80	40	127

Air Unit (SAU250~450 Series)

Mist Separator + Micro Mist Separator + Air Regulator

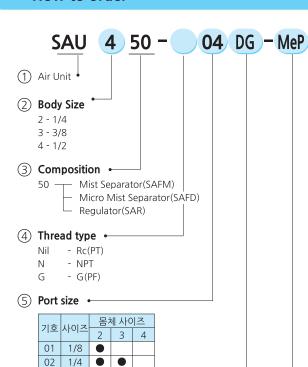




SAU 350

SAU 450

How to order



3/4 (6) Accessory(Optional)

03 3/8

04 1/2

06

- None gauge / Manual Drain
- Auto Drain

Symbol	Description		Body		
Syllibol	Description	2	3	4	
D	One-touch fitting type	•	•		
Dn	Nipple(PT1/8) type	-	•		
Df	SAFM, SAFD200 Float type		1	-	

주) 1. SAFM, SAFD200 are differential pressure type. 2. SAFM, SAFD300~400 are float type

- Gauge

G	Round type gauge
Gs	Square embedded type

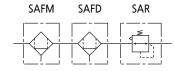
(7) Bowl

- Polycarbonate bowl with Nylon guard

MeP - Polycarbonate bowl with Steel guard

MeP - Metal bowl with pipe type sight glass

Symbol



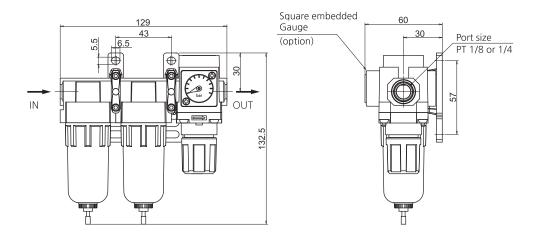
Specification

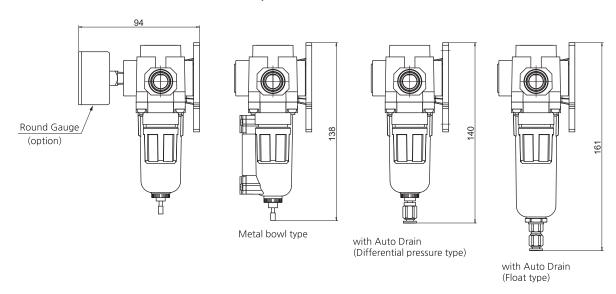
Composition	Mist Separator + Micro Mist Separator + Regulator
Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	-5∼60° (No freezing)
Regulating range(SAR)	0.5~8.5bar (0.05~0.85MPa)
Filtration	SAFM:0.1µm + SAFD:0.01µm
Bowl material(SAF, SAFM)	Poly-carbonate (option: ALDC)
Bowl Guard Material	Nylon
Construction(SAR)	Relief type

- (1) Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- 2 Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can
- (3) Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- (4) To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure. Turning the knob clockwise increases the outlet pressure, and
 - turning it counterclockwise reduces the pressure.
- (5) When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- (6) When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.

SAU 250

■ SAU250-□02□□-□

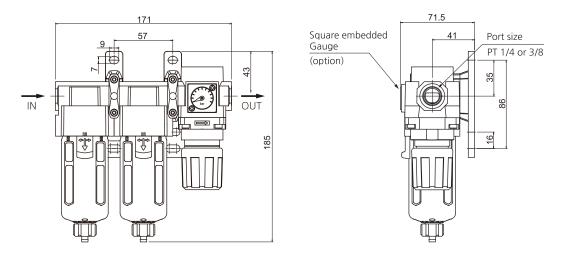


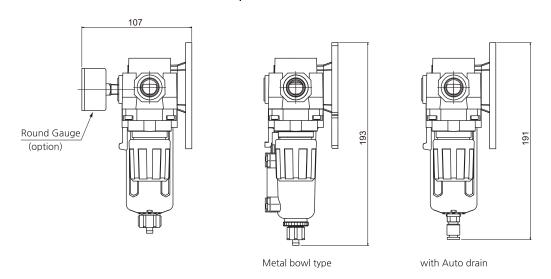


Option	Auto	Drain	Ga	uge
	D : Differential pressure type	Df : Float type	G : Round type	Gs : Square embedded type
Model		SAD200	G40, R1/8	Gs28

SAU 350

■ SAU350-□03□□-□

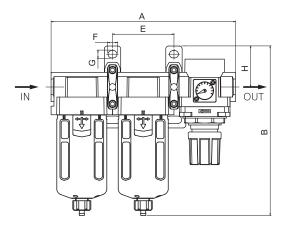


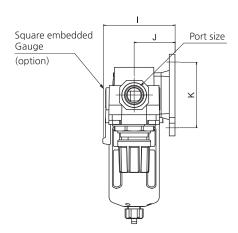


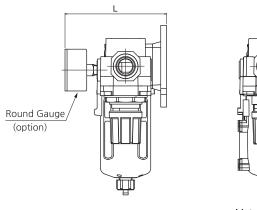
D : Auto Drain	G : Round type	Gs : Square embedded type
5AD300	(40 B1/8	Gs28
	SAD300	

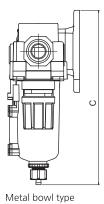
SAU 450

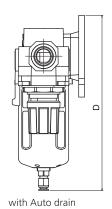
■ SAU450-□04□□-□
SAU450-□06□□-□











0-4:	D : Auto Durin	Gauge					
Option	D : Auto Drain	G : Round type	Gs : Square embedded type				
Model			la l				
	≌ SAD400	G50, R1/4	Gs28				

품명	관접속구경	Α	В	С	D	Е	F	G	Н	Ι	J	K	L
SAU450-04	1/2	150	207	212	214	75	11	9	50	87.5	50	80	127
SAU450-06	3/4	150	211	216	218	75	11	9	50	87.5	50	80	127

Air Unit (SAU260~460 Series)

Filter Regulator + Mist Separator + Micro Mist Separator





How to order

4 60 - 04 DG - MeP SAU (1) Air Unit (2) Body Size 2 - 1/4 3 - 3/8 4 - 1/2 (3) Composition • 60 — Filter Regulator(SAW) Mist Separator(SAFM) Micro Mist Separator(SAFD) (4) Thread type - Rc(PT) - NPT Ν - G(PF) (5) Port size • 몸체 사이즈 기호 사이즈

(6) Accessory(Optional) •

1/8 1/4

01

02

03 3/8 04 1/2 06 3/4

Nil - None gauge / Manual Drain

D - Auto Drain

Symbol	Description	Body			
Зуппоот	Description	2	3	4	
D	One-touch fitting type	•	•	•	
Dn	Nipple(PT1/8) type	-	•	•	
Df	SAW,SAFM, SAFD200 Float type	•	-	-	

주) 1. SAW, SAFM, SAFD200 are differential pressure type. 2. SAW, SAFM, SAFD300~400 are float type.

G - Gauge

G	Round type gauge
Gs	Square embedded type

(7) Bowl

Nil - Polycarbonate bowl with Nylon guard

PcS - Polycarbonate bowl with Steel guard

MeP - Metal bowl with pipe type sight glass

Symbol

SAW	SAFM	SAFD

Specification

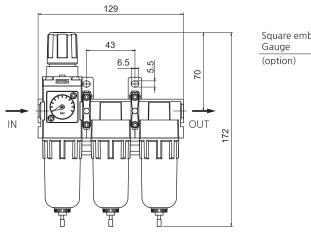
Composition	Filter Regulator + Mist Separator + Micro Mist Separator
Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	-5∼60° (No freezing)
Regulating range(SAW)	0.5~8.5bar (0.05~0.85MPa)
Filtration	SAW:10µm + SAFM:0.1µm + SAFD:0.01µm
Bowl material(SAW, SAFM,SAFD)	Poly-carbonate (option: ALDC)
Bowl Guard Material	Nylon
Construction(SAW)	Relief type

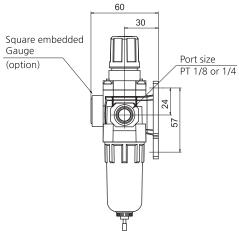
- ① Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- ② Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- ③ Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- ① To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure. Turning the knob clockwise increases the outlet pressure, and turning it counterclockwise reduces the pressure.
- (5) When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length.

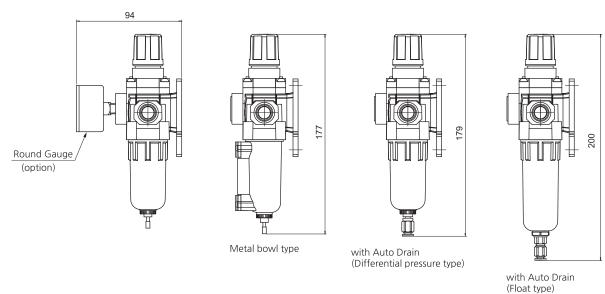
 Avoid installing drain piping upwards.
- When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.

SAU 260

■ SAU260-□02□□-□



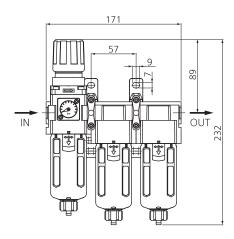


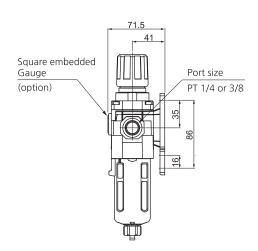


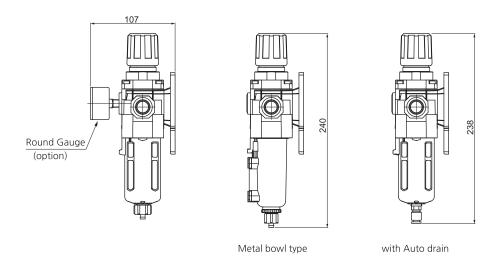
Option	Auto	Drain	Gauge				
Орион	D : Differential pressure type	Df : Float type	G : Round type	Gs : Square embedded type			
Model		SAD200	G40, R1/8	Gs28			

SAU 360

■ SAU360-□03□□-□



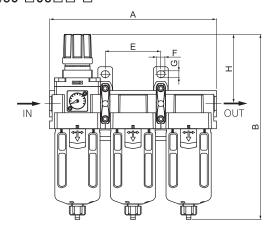


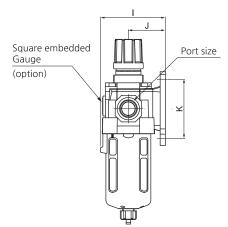


Outher	D . A B. :	Gauge						
Option	D : Auto Drain	G : Round type	Gs : Square embedded type					
Model			bar					
	⊒ SAD300	G40, R1/8	Gs28					

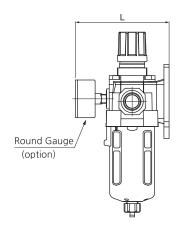
SAU 460

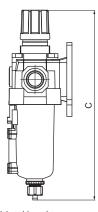
■ SAU460-□04□□-□ SAU460-□06□□-□

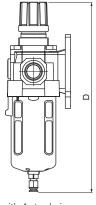




■ 기타 옵션부착시 치수







Metal	howl	type

with Auto drain

Ontina	D : Auto Dunio	Gauge						
Option	D : Auto Drain	G : Round type	Gs : Square embedded type					
Model			bar					
	SAD400	G50, R1/4	Gs28					

품명	관접속구경	Α	В	C	D	Е	F	G	Н	-	J	K	L
SAU460-04	1/2	225	251	254	258	75	11	9	94	87.5	50	80	127
SAU460-06	3/4	225	256	259	263	75	11	9	94	87.5	50	80	127

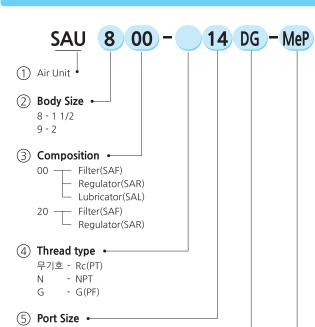
Large Flow Air Unit (SAU)

SAU800~900 / SAU820~920 Series





How to order



6 Accessory(Optional) •

Symbol Size

1 1/4

1 1/2

12

14

20

Nil - None Gauge / Manual Drain

D - Auto Drain

Symbol	Drain connector
D	One-touch fitting(Φ6mm)
Dn	Nipple(PT 1/8)

Body size

9

G - Gauge

(7) Bowl ►

PcS - Polycarbonate bowl with Steel guard MeP - Metal bowl with pipe type sight glass

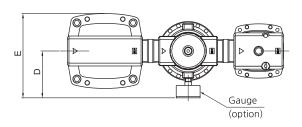
Specification

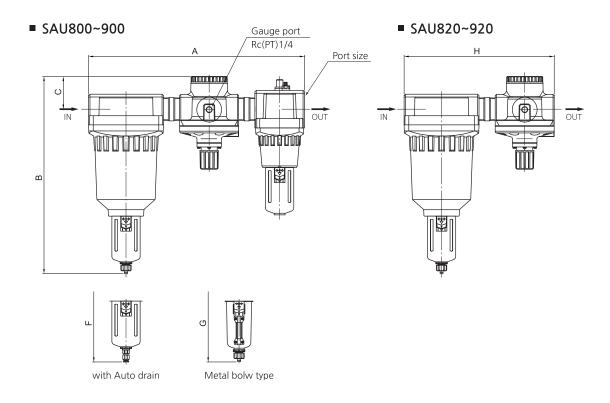
Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	-5~60° (No freezing)
Regulating range(SAR)	0.5~8.5bar (0.05~0.85MPa)
Filtration(SAF)	5μm (option: 40)
Recommended oil(SAL)	Turbin oil (ISO VG32)
Construction(SAR)	Internal pilot relieving style (Pilot air is always bleeding.)
압력계 접속구경(SAR)	1/4

- ① Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- ② Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- ③ Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure. Turning the knob clockwise increases the outlet pressure, and turning it counterclockwise reduces the pressure.
- (5) When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length.

 Avoid installing drain piping upwards.
- (6) When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.

SAU 800~920





Option	D : Auto Drain	G : Gauge
Model	SAD400	G50, R1/4

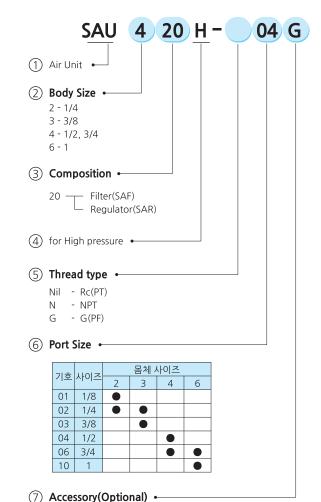
Model	Port size	Α	В	С	D	E	F	G	Н
SAU800 / SAU820	1 1/4, 1 1/2	462	415	68.5	103	183	422	417.7	321
SAU900 / SAU920	2	520	493.3	78	119	209	500.3	496	377

Air Unit for High Pressure (SAU)

SAU220H~620H



How to order



Nil - None gauge G - Gauge

Specification

Fluid	Compressed Air
Max. operating pressure	20bar (2MPa)
Max. supply pressure	30bar (3MPa)
Ambient and Media temp.	-5∼60°C (No freezing)
Regulating range(SAR, SAW)	1~17bar (0.1~1.7MPa)
Filtration(SAF, SAW)	5µm (option: 2, 10, 20, 40)
Bowl material(SAF)	ALDC
Construction(SAR)	Relief type

Precautions

- ① Do not operate at pressures or temperatures, etc., beyond the range of specifications, as this can cause damage or malfunction. (Refer to the specifications.)
- ② Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- ③ If condensation in the drain bowl is not emptied on a regular basis, the bowl will overflow and allow the condensation to enter the compressed air lines. It causes malfunction of pneumatic equipment. Remove drainage from air filters regularly.
- 4 Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- (5) To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure.

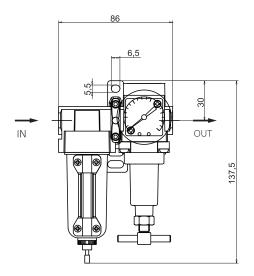
 Turning the knob clockwise increases the outlet pressure, and turning it counterclockwise reduces the pressure.
- Avoid riser piping and branch lines on the outlet side to prevent inferior lubrication

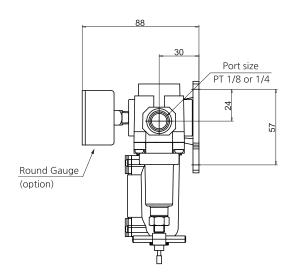
Air Unit for High Pressure

DIMENSIONS (mm)

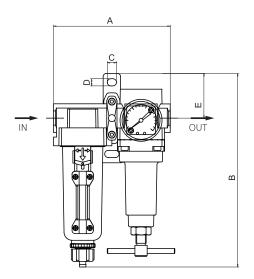


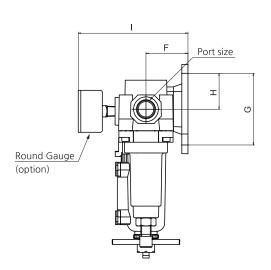
SAU 200H





SAU 320H~420H



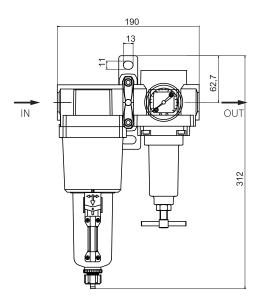


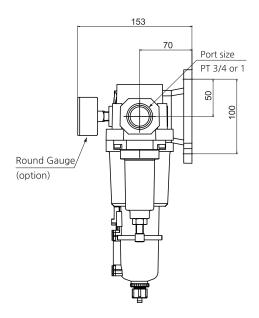
Model	Port size	А	В	С	D	Е	F	G	Н	I
SAU320H-03	1/4, 3/8	114	178	9	7	43	41	70	35	107
SAU420H-04	1/2	150	210	11	9	50	50	80	40	127
SAU420H-06	3/4	150	212	11	9	50	50	80	40	127

Air Unit for High Pressure

DIMENSIONS (mm)

SAU 620H





Filter Regulator (SAW)

SAW100~600 Series

• SAW series are compact type assemblies of a filter and regulator.







1 Filter regulator

- 2 Body Size
 - 1 1/8
 - 2 1/4 3 - 3/8
 - 3 3/8 4 - 1/2
 - 6 1

3 Thread type •

Nil - Rc(PT) N - NPT

- G(PF)

(4) Port Size •

C la l	C:		Body size				
Symbol	Size	1	2	3	4	6	
M5	M5						
01	1/8		•				
02	1/4		•				
03	3/8			•			
04	1/2				•		
06	3/4				•		
10	1					•	

(5) Accessory(Optional)

Nil - None Bracket / Manual Drain / None Gauge

- B Bracket
- D Auto Drain

Symbol	Description		Body						
Syllibol	Description	1	2	3	4	6			
D	One-touch fitting type	•	•	•	•	•			
Dn	Nipple(PT1/8) type	-	-	•	•	•			
Df	SAW200 Float type	-	•	-	-	-			

Note) 1. SAW100 and SAW200 are differential pressure type. 2. SAW300~600 are float type.

G - Gauge

G	Round type gauge
Gs	Square embedded type

Note) SAW100 is available only round type gauge.

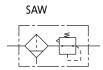
(7) Bowl •

Nil - Polycarbonate bowl with Nylon guard

PcS - Polycarbonate bowl with Steel guard

MeP - Metal bowl with pipe type sight glass

Symbol



SAW600

Specification

Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	-5~60°C (No freezing)
Regulating range	0.5~8.5bar (0.05~0.85MPa)
Filtration	10µm (option: 2, 5, 20, 40)
Bowl material	Poly-carbonate (option: ALDC)
Bowl Guard Material	Nylon
Construction	Relief type

Precautions

- ① Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- ② To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure.

 Turning the knob clockwise increases the outlet pressure, and
- ③ Please contact SKP when a circuit requires the use of a regulator having relief sensitivity with high precision and setting accuracy.

turning it counterclockwise reduces the pressure.

- Residual pressure release (outlet pressure release) is not complete by releasing the inlet pressure. To release residual pressure, select a model with a back flow mechanism.
- (5) When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length.

 Avoid installing drain piping upwards.
- (6) When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.

STRUCTURE / PARTS

SAW100

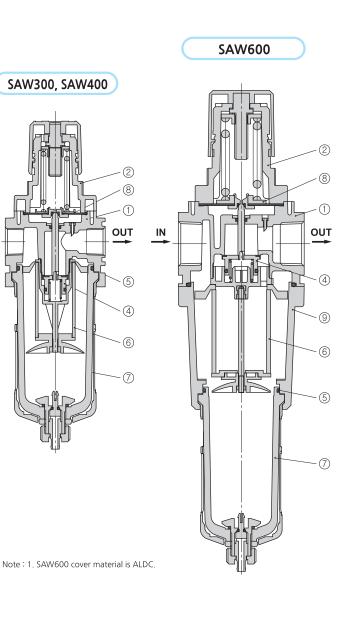
OUT

4

SAW200

OUT

IN



No.	PARTS	MATERIAL
1	Body	ALDC
2	Cover 1)	N66G
3	Piston ²⁾	N66G
4	Check valve Ass'y	Brass, NBR
\bigcirc	Povel Assiv 3)	DC 9. Nylon

Check valve Ass'y Brass, NBR
 Bowl Ass'y Brass, NBR
 PC & Nylon
 Diaphragm Ass'y NBR
 Housing ALDC

Note \div 2. The SAW100 and SAW200 are a piston type. Assembly of a piston and a seal.

Replacement Parts

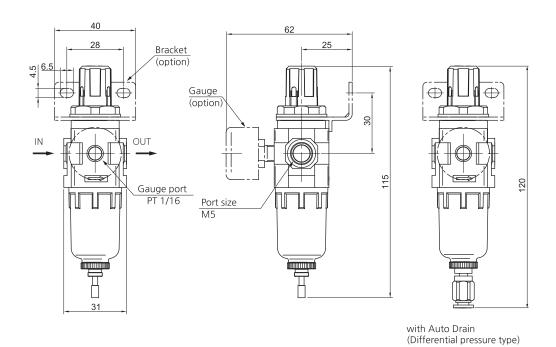
Component Parts

No.	PARTS	MATERIAL	Part no.						
NO.			SAW100	SAW200	SAW300	SAW400	SAW600		
(5)	O-ring	NBR	S22	U024	38x2	U137	U137		
6	Element	-	W100-EL	W200-EL	W300-EL	W400-EL	W600-EL		

^{3.} Bowl Ass'y for the SAW300 to SAW600 models comes with a bowl guard (steel band material).

SAW 100

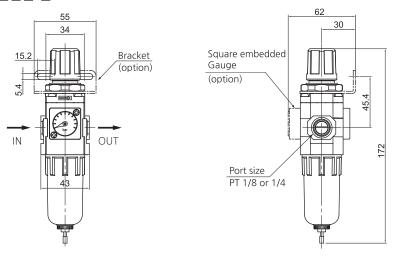
■ SAW100-□01(M5)□□

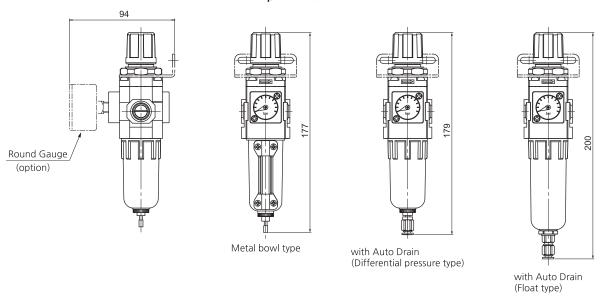


Option	G : Gauge	B :Bracket	D : Auto Drain (Differential pressure type)
Model	G25, R1/16	B120	Φ4mm One-touch fitting

SAW 200

■ SAW200-□02□□□-□

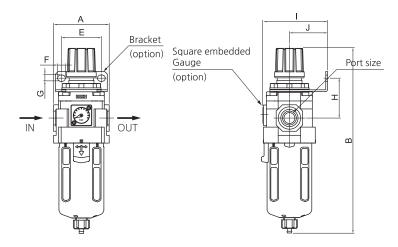


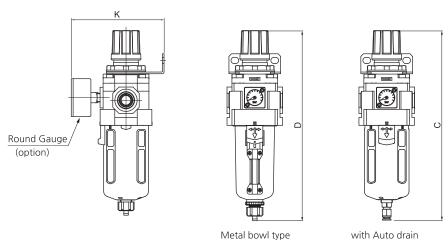


Option		D : Duo alsot	Gau	ıge	Auto Drain		
O)	ption	B : Bracket	Gs : Square embedded	G : Round type	D : Differential pressure	Df : Float type	
М	lodel	B220	Gs28	G40, R1/8		SAD200	

SAW 300~400

■ SAW300-□03□□-□ SAW400-□04(06)□□-□



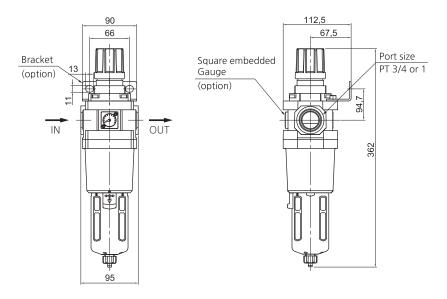


01	D · Dynakat	D : Auto Droin	Gauge			
Option	Option B: Bracket D: Auto Drain		G : Round type	Gs : Square embedded type		
Model			SANA200: 640 DAVO	bar		
	SAW300 : B320 SAW400 : B420	SAW300 : SAD300 SAW400 : SAD400	SAW300 : G40, R1/8 SAW400 : G50, R1/4	Gs28		

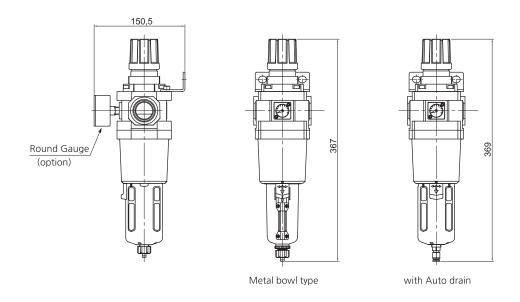
Model	Port size	Α	В	С	D	Е	F	G	Н	ı	J	К
SAW300-03	1/4, 3/8	57	220	226	228	40	8	6.5	45.7	72	41	107
SAW400-04	1/2	75	251	258	256	54	10.5	8.5	54	87	50	127
SAW400-06	3/4	75	256.5	262.5	259	54	10.5	8.5	56.5	87	50	127

SAW 600

■ SAW600-□06(10)□□□-□



■ 기타 옵션부착시 치수



0.11	B : Bracket	D : Auto Duoin	Gauge			
Option	D . Bracket	D : Auto Drain	G : Round type	Gs: Square embedded type		
Model	B620	SAD400	G50, R1/4	Gs28		

Filter regulator for High Pressure (SAW)

SAW200H~600H Series

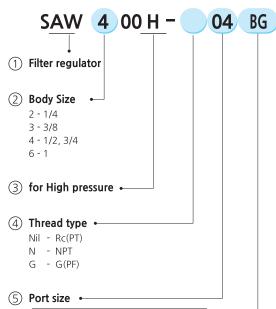








How to order



Cumphal	Cino		Body	size	
Symbol	Size	2	3	4	6
01	1/8				
02	1/4		•		
03	3/8		•		
04	1/2				
06	3/4				
10	1				

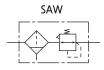
6 Accessory(Optional) •

Nil - None Bracket / Manual Drain / None Gauge

B - Bracket

D - Auto Drain

Symbol



Specification

Fluid	Compressed Air				
Max. operating pressure	30bar (3MPa)				
Max. supply pressure	20bar (2MPa)				
Ambient and Media temp.	-5∼60℃ (No freezing)				
Regulating range	1	~17bar (0	.1~1.7MPa	a)	
Gauge Port size	SAW200H	SAW300H	SAW400H	SAW600H	
Gauge Fort size	1/8 1/4			/4	
Construction	Relief type				

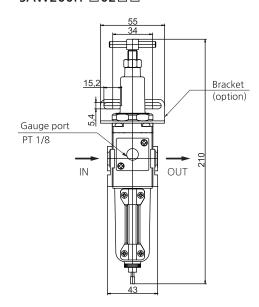
Precautions

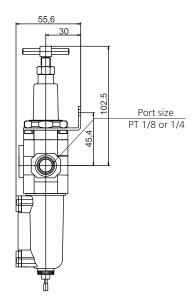
- ① Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- 2) To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure. Turning the knob clockwise increases the outlet pressure, and turning it counterclockwise reduces the pressure.
- ③ Please contact SKP when a circuit requires the use of a regulator having relief sensitivity with high precision and setting accuracy.
- 4 Residual pressure release (outlet pressure release) is not complete by releasing the inlet pressure. To release residual pressure, select a model with a back flow mechanism.

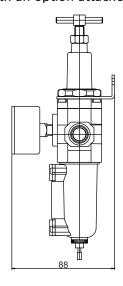
7

SAW 200H

■ SAW200H-□02□□



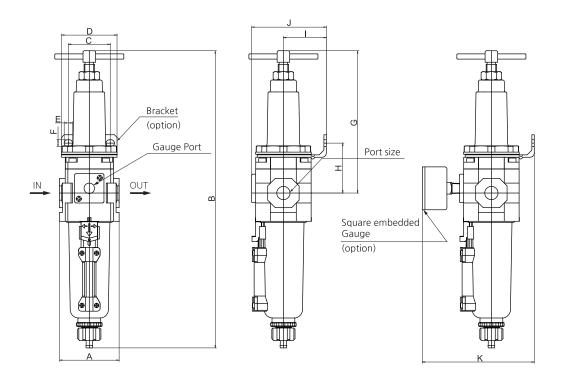




Option	G : Round type	B ∶Bracket
Model	Gh40, R1/8	B220

SAW 300H~400H

■ SAW300H□-□03□□ SAW400H□-□04(06)□□

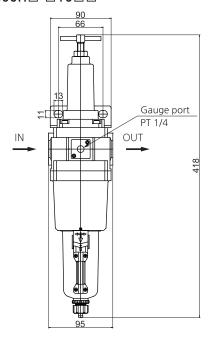


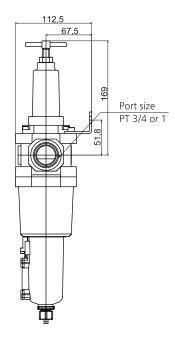
옵션	G : Round type	B :Bracket
품명		
	SAW300H: Gh40, R1/8 SAW400-04(06)H: Gh50, R1/4	SAW300H : B320 SAW400-04(06)H : B420

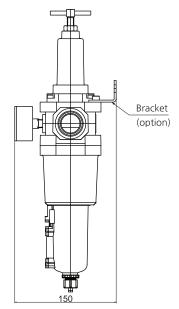
Model	Port size	Α	В	С	D	Е	F	G	Н	ı	J	K
SAW300H-03	1/4, 3/8	57	284	40	53	8	6.5	136	47.7	41	71.4	107
SAW400H-04	1/2	75	314	54	70	10.5	8.5	155	52.9	50	85	122
SAW400H-06	3/4	75	320	54	70	10.5	8.5	157.5	55.4	50	85	122

SAW 600H

■ SAW600H□-□06□□ SAW600H□-□10□□







Option	G : Round type	B ∶Bracket
Model	Gh50, R1/4	B600

Mist Separator Regulator (SAWM) Micro Mist Separator Regulator (SAWD)

SAWM200~400 Series SAWD200~400 Series

- SAWM series are compact type assemblies of a mist separator and a regulator.
- SAWD series are compact type assemblies of a micro mist separator and a regulator.





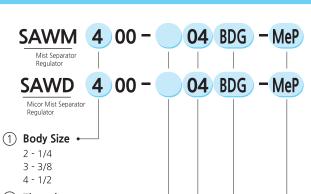


SAWD300

SAWM400

SAWD400

How to order



2 Thread type Nil - Rc(PT)

- NPT - G(PF)

3 Port Size •

기층	사이즈	몸	네 사이	즈
기오	\r\u	2	3	4
01	1/8			
02	1/4	•	•	
03	3/8		•	
04	1/2			•

4 Accessory(Optional) •

- None Bracket / Manual Drain / None Gauge

- Bracket

- Auto Drain

Symbol	Description		Body	
Зуппоог	Description	2	3	4
D	One-touch fitting type	•	•	•
Dn	Nipple(PT1/8) type	-	•	•
Df	SAWM, SAWD200 Float type	•	-	-

주) 1. SAWM, SAWD200 are differential pressure type. 2. SAWM, SAWD300~400 are float type

- Gauge

G	Round type gauge
Gs	Square embedded type

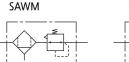
(5) **Bowl** •

- Polycarbonate bowl with Nylon guard

PcS - Polycarbonate bowl with Steel guard

MeP - Metal bowl with pipe type sight glass

Symbol





Specification

Fluid		Compressed Air	
Max. oper	ating pressure	10bar (1.0MPa)	
Max. supp	ly pressure	15bar (1.5MPa)	
Ambient an	d Media temp.	-5∼60℃ (No freezing)	
Regulating	range	0.5~8.5bar (0.05~0.85MPa)	
Filtration	SAWM	0.1µm	
	SAWD	0.01µm	
Bowl mate	rial	Poly-carbonate (option: ALDC)	
Bowl Guar	d Material	Nylon	
Constructi	on	Relief type	

Precautions

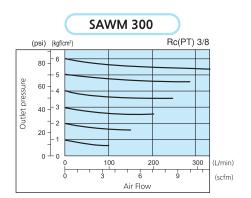
- (1) Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable
- (2) To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure. Turning the knob clockwise increases the outlet pressure, and turning it counterclockwise reduces the pressure.
- (3) Residual pressure release (outlet pressure release) is not complete by releasing the inlet pressure. To release residual pressure, select a model with a back flow mechanism.
- 4 When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- (5) When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.

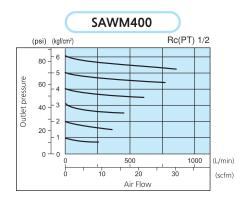
Mist Separator Regulator Micro Mist Separator Regulator

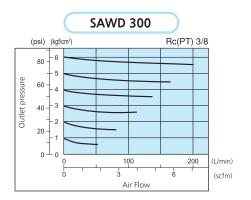
FLOW CHARACTERISTICS

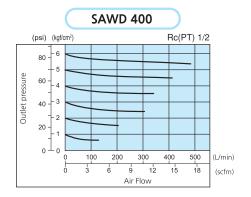
Inlet pressure 7kg/cm²





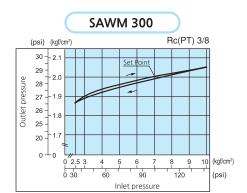


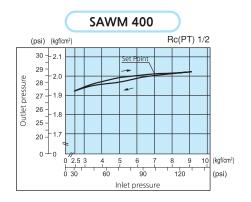


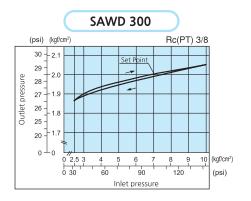


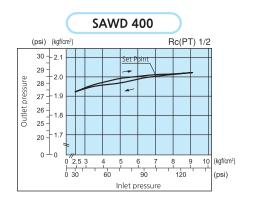
PRESSURE CHARACTERISTICS

Inlet pressure 7kg/cm², Outlet pressure 2kg/cm², Flow 20L/min(ANR)



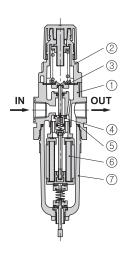


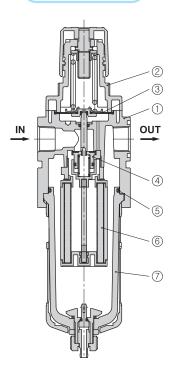




STRUCTURE / PARTS

SAWM 200 SAWD 200 SAWM 300 to 400 SAWD 300 to 400





Component Parts

No.	PARTS	MATERIAL	
1	Body	ALDC	
2	Cover	N66G	
3	Diaphragm Ass'y	NBR	
4	Check valve Ass'y	Brass, NBR	
7	Bowl Ass'y 1)	PC & Nylon	

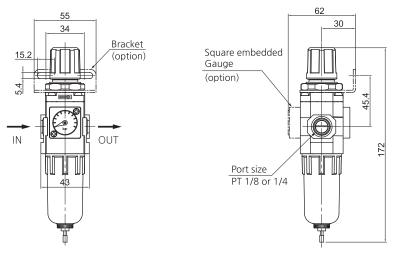
¹⁾ Bowl Ass'y for the SAW300 to SAW600 models comes with a bowl guard (steel band material).

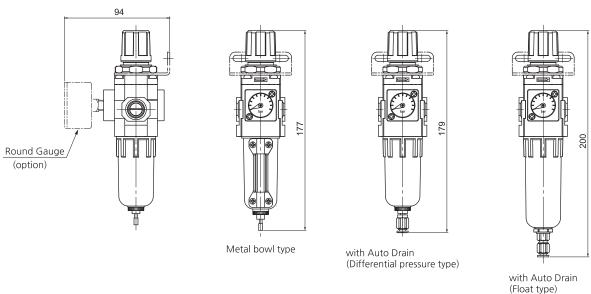
Replacement Parts

No	PARTS	MATERIAL			Part	no.		
No.	PARIS	WATERIAL	SAWM200	SAWD200	SAWM300	SAWD300	SAWM400	SAWD400
(5)	O-ring	NBR	U024		38x2		U137	
6	Filter	-	WM200-EL	WD200-EL	WM300-EL	WD300-EL	WM400-EL	WD400-EL

SAWM(SAWD) 200

■ SAWM(SAWD)200-□02□□□-□

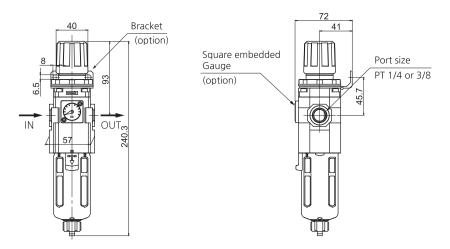


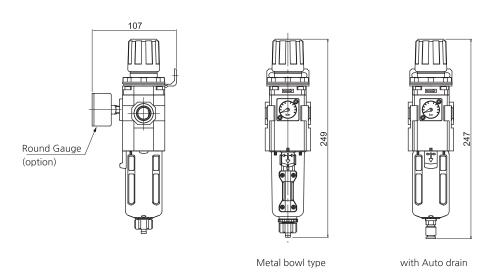


Ontine Burn III		Gau	ıge	Auto Drain		
Option	b . Bracket	Gs: Square embedded		D : Differential pressure	Df : Float type	
Model	B220	Gs28	G40, R1/8		SAD200	

SAWM(SAWD) 300

■ SAWM(SAWD)300-□03□□-□

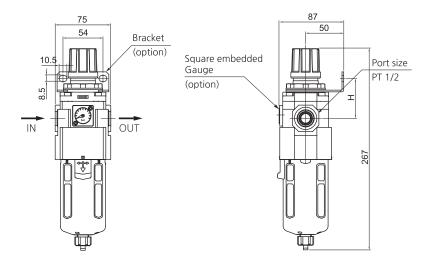


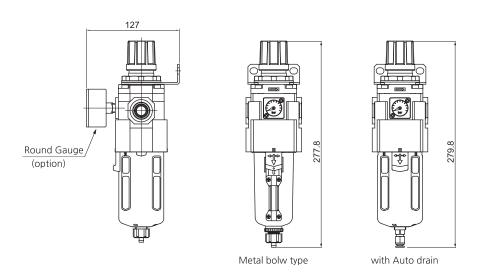


Option B: Bracket D: Auto Drain		Gau	ge	
Option	b . Bracket	D . Auto Dialli	G : Round type	Gs : Square embedded type
Model	B320	SAD300	G40, R1/8	Gs28

SAWM(SAWD) 400

■ SAWM(SAWD)400-□04□□-□





04:	B :Bracket	D : Auto Drain	Gauge		
Option	D · Bracket	Auto Diam	G : Round type	Gs :Square embedded type	
Model				bar)	
	B420	SAD400	G50, R1/4	Gs28	

Air Filter (SAF)

SAF100~600 Series



SAF100



SAF200







SAF400

SAF600

How to order

SAF 4 00 - 04 BD - MeP

- (1) Air Filter
- 2 Body Size
 - 1 1/8
 - 2 1/4
 - 3 3/8
 - 4 1/2, 3/4
 - 6 1
- 3 Thread type
 - Nil Rc(PT)
 - N NPT G - G(PF)
- (4) Port Size •

Coursels al	C:	Body size				
Symbol	Size	1	2	3	4	6
M5	M5					
01	1/8					
02	1/4					
03	3/8					
04	1/2				•	
06	3/4				•	
10	1					

5 Accessory(Optional) •

- Nil None Bracket / Manual Drain
- B Bracket

Note) SAF100 is no bracket options.

D - Auto Drain

Symbol	Symbol Description		Body				
Зуппоот	Description	1	2	3	4	6	
D	One-touch fitting type		•	•		•	
Dn	Nipple(PT1/8) type		-	•		•	
Df	SAF200 Float type			-	-	-	

주) 1. SAF100 and SAF200are differential pressure type. 2. SAF300~600 are float type.

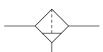
6 Bowl •

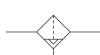
Nil - Polycarbonate bowl with Nylon guard PCS - Polycarbonate bowl with Steel guard MeP - Metal bowl with pipe type sight glass

Symbol

SAF







Specification

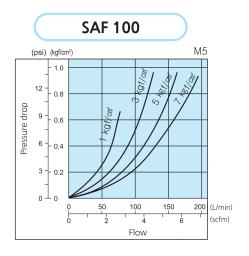
Fluid	Compressed Air	
Max. operating pressure	10bar (1.0MPa)	
Max. supply pressure	15bar (1.5MPa)	
Ambient and Media temp.	-5~60° (No freezing)	
Filtration	10μm (option: 2, 5, 20, 40)	
Bowl Guard Material	Poly-carbonate (option: ALDC)	
Bowl material	Nylon	

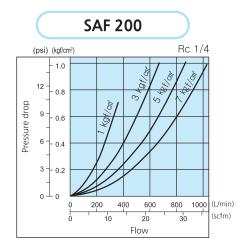
Precautions

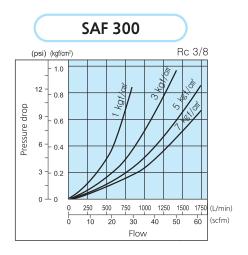
- ① Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- ② Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- ③ When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- When auto drain is used it is recommended to use at least 1.5bar pressure.
- (5) When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.
- (6) Before disassembling the equipment on the compressed air side to inspect the auto drain or to replace the filter element, confirm that the pressure is set to zero.

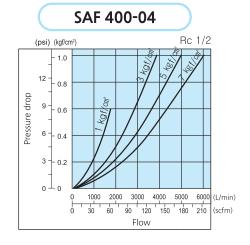
FLOW CHARACTERISTICS

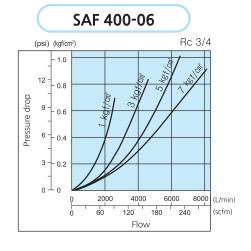
Note: Replace the element every 2 years or when the pressure drop becomes 1bar(0.1Mpa), whichever comes first, to prevent damage to the element.

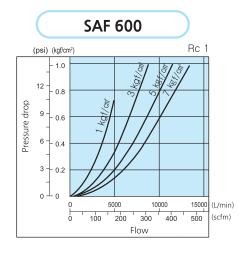








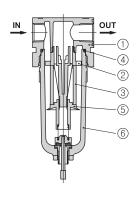


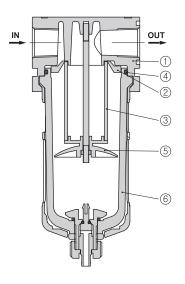


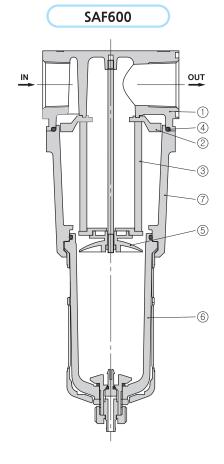
STRUCTURE / PARTS

SAF100, SAF200









Component Parts

No.	PARTS	MATERIAL		
1	Body	ALDC		
2	Impeller	ABS		
(5)	Baffle	ABS		
6	Bowl Ass'y 1)	PC & Nylon		
7	Housing	ALDC		

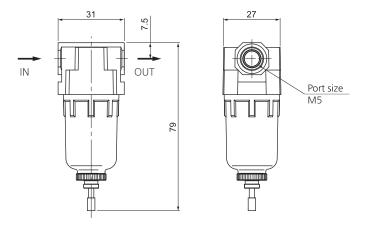
¹⁾ Bowl Ass'y for the SAF300 to SAF600 models comes with a bowl guard (steel band material).

Replacement Parts

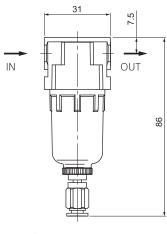
No.	PARTS	MATERIAL			Part no.		
	FARIS	MATERIAL	SAF100	SAF200	SAF300	SAF400	SAF600
3	Element	-	F100-EL	F200-EL	F300-EL	F400-EL	F600-EL
4	O-ring	NBR	S22	U024	38x2	U137	U137

SAF 100

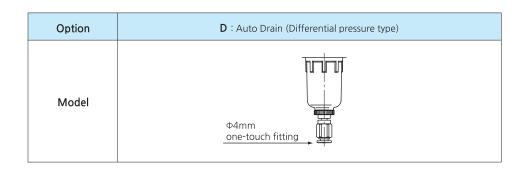
■ SAF100-□01(M5)□



■ Dimensions of each model with an option attached

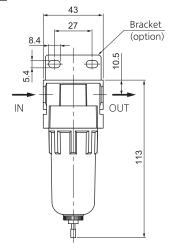


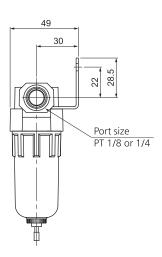
with Auto Drain (Differential pressure type)

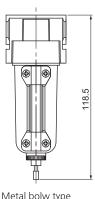


SAF 200

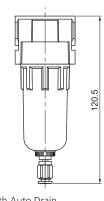
■ SAF200-□02□□



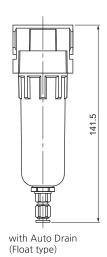








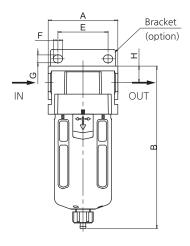
with Auto Drain (Differential pressure type)

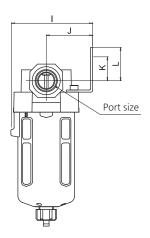


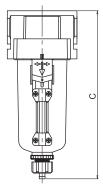
Option	Auto	B : Bracket	
Option	D : Differential pressure type	Df : Float type	. Diacket
Model			
		SAD200	B200

SAF 300~400

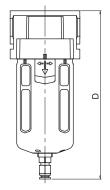
■ SAF300-□03□□
SAF400-□04(06)□□







Metal bowl type



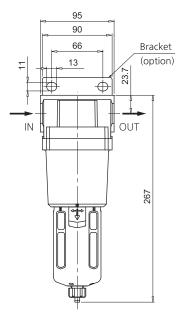
with Auto drain

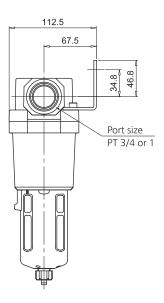
Option	B : Bracket	D : Auto Drain
Model	SAF300 : B300 SAF400 : B400	SAF300 : SAD300 SAF400 : SAD400

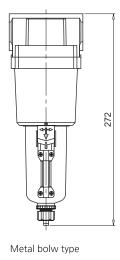
ı	Model	Port size	Α	В	С	D	Е	F	G	Н	I	J	K	L
SA	F300-03	1/4, 3/8	57	143	151	149	40	7.9	6.3	14	65	36.5	14	21
SA	F400-04	1/2	75	174	179	181	54	10	8.5	17.9	85	50	25.7	35.7
SA	F400-06	3/4	75	178	183	185	54	10	8.5	19.8	85	50	25.1	35.1

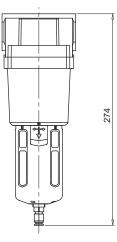
SAF 600

■ SAF600-□06□□ SAF600-□10□□









with Auto drain

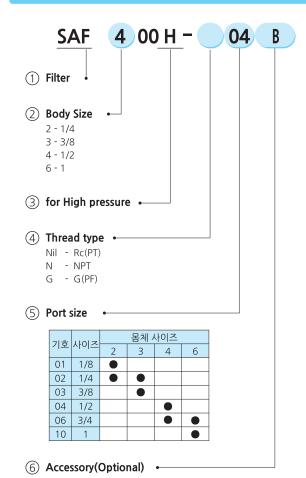
Option	B : Bracket	D : Auto Drain
Model	B600	SAD400

Filter for High Pressure(SAF)

SAF200H~600H Series



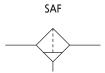
How to order



Nil - None Bracket / Manual Drain / None Gauge

B - Bracket

Symbol



Specification

Fluid	Compressed Air
Max. operating pressure	30bar (3.0MPa)
Max. supply pressure	20bar (2.0MPa)
Ambient and Media temp.	-5~60℃ (No freezing)
Filtration	10µm (option: 2, 5, 20, 40)
Bowl material	ALDC

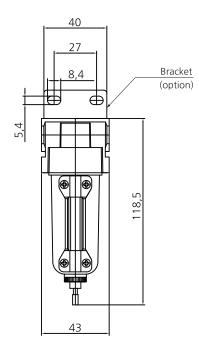
Precautions

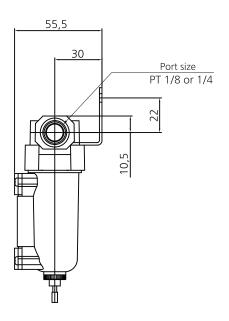
- ① Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- ② To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure.

 Turning the knob clockwise increases the outlet pressure, and turning it counterclockwise reduces the pressure.
- ③ Please contact SKP when a circuit requires the use of a regulator having relief sensitivity with high precision and setting accuracy.
- Residual pressure release (outlet pressure release) is not complete by releasing the inlet pressure. To release residual pressure, select a model with a back flow mechanism.

SAF 200H

■ SAF200H-□02□□

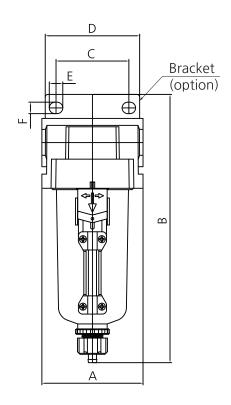


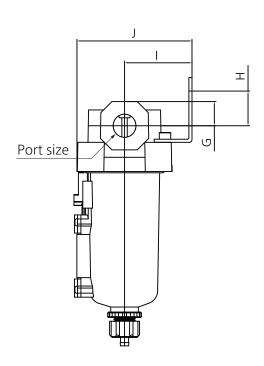


Option	B : Bracket
Model	B200

SAF 300H~400H

■ SAF300H□-□03□□ SAF400H□-□04(06)□□



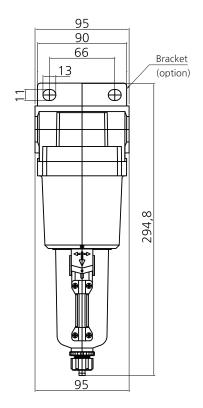


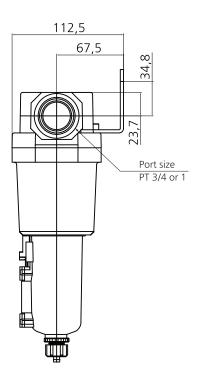
Option	B ∶Bracket
Model	SAF300 : B300 SAF400 : B400

Model	Port size	Α	В	С	D	Е	F	G	Н	I	J
SAF300H-03	1/4, 3/8	57	167.8	40	53	8	6.5	14	21	41	70.7
SAF400H-04	1/2	75	193	54	70	10	8.5	17.9	25.7	50	87.5
SAF400H-06	3/4	75	194.5	54	70	10	8.5	19.8	25	50	87.5

SAF 600H

■ SAF600H□-□06□□ SAF600H□-□10□□





Option	B ∶ Bracket
Model	B600

Large Flow Air Filter (SAF)

SAF800~900 Series

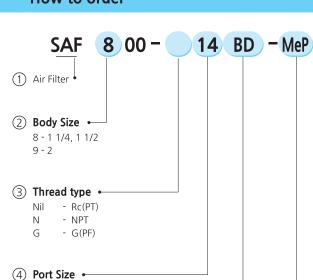




SAF800

SAF900

How to order



Body size

9

8

(5) Accessory(Optional) •

1 1/2

2

Symbol Size

14

Nil - None Bracket / Manual Drain

B - Bracket

D - Auto Drain

Symbol	Drain type	Drain connector		
D	Float	One-touch fitting(Φ6mm)		
Dn	Float	Nipple(PT 1/8)		

(6) Bowl •

PcS - Polycarbonate bowl with Steel guard MeP - Metal bowl with pipe type sight glass

Symbol



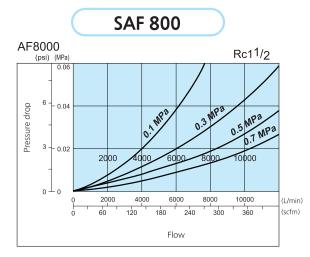
Specification

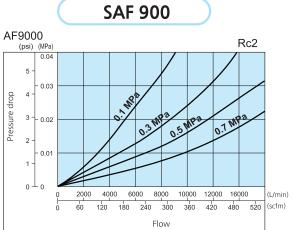
Port size	SAF800	1 1/4, 1 1/2		
	SAF900	2		
Fluid		Compressed Air		
Max. opera	ting pressure	10bar (1.0MPa)		
Max. supply pressure		15bar (1.5MPa)		
Ambient and	l Media temp.	-5∼60℃ (No freezing)		
Filtration		5µm (option: 40)		
Bowl mater	ial	Poly-carbonate (option: ALDC)		

Precautions

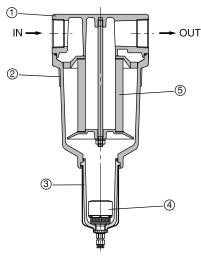
- ① Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- ② Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- ③ When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- When auto drain is used it is recommended to use at least 1.5bar pressure.
- (5) When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.
- (6) Before disassembling the equipment on the compressed air side to inspect the auto drain or to replace the filter element, confirm that the pressure is set to zero.

FLOW CHARACTERISTICS





STRUCTURE / PARTS



Component Parts

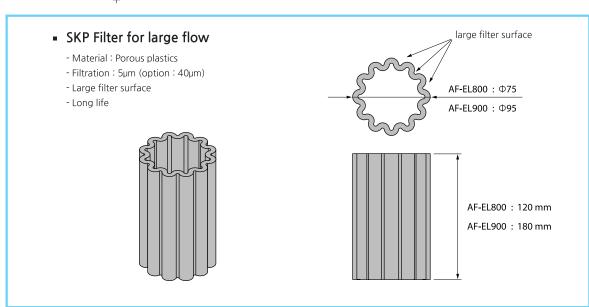
No.	PARTS	MATERIAL
1	Body	ALDC
2	Housing	ALDC
3	Bowl Ass'y 1)	PC
4	Auto Drain	-

¹⁾ Bowl Ass'y comes with a bowl guard (steel band material).

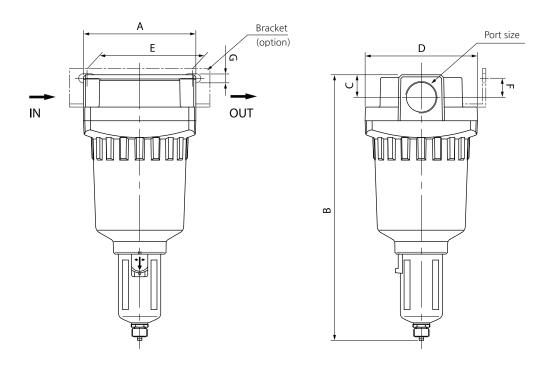
Replacement Parts

(mm)

No.	PARTS	MATERIAL	Size(Φ x Height)
(5)	Element	AF-EL800	75 x 120
		AF-EL900	95 x 180



SAF800~900



Model	Port size	Α	В	С	D	Е	F	G
SAF800	1 1/4, 1 1/2	160	378.5	32	160	150	27	13
SAF900	2	180	457	42	180	150	20	13

Option	D: Auto Drain	Dn: Auto Drain	B : Bracket
Model	SAD400 with One-touch fitting	SAD400 with Nipple(1/8)	SAF800 : B650 SAF900 : B850

	PC E	Bowl	Metal Bowl			
	With D	With Dn	Manual Drain	With D	With Dn	
Bowl	B	B	B	B	B	
SAF800	385.5	378.5	381.2	388.2	381.2	
SAF900	464	457	459.7	466.7	459.7	

Mist Separator (SAFM) **Micro Mist Separator (SAFD)**

SAFM200~400 Series SAFD200~400 Series



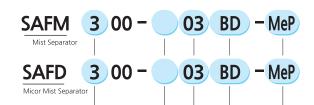
SAFM200

- Series SAFM Nominal filtration rating: 0.1 μm.
- Series SAFD Nominal filtration rating: 0.01 μm.



SAFD200

How to order



- 1 Body Size
 - 2 1/4
 - 3 3/8
 - 4 1/2, 3/4
- 2 Thread type
 - Nil Rc(PT)
 - NPT

- G(PF)

(3) Port Size •

기능	사이즈	몸체 사이즈			
기오		2	3	4	
01	1/8	•			
02	1/4				
03	3/8				
04	1/2			•	
06	3/4			•	

4 Accessory(Optional) •

Nil - None Bracket / Manual Drain

В - Bracket

- Auto Drain

Symbol	Description		Body		
Syllibol			3	4	
D	One-touch fitting type		•	•	
Dn	Nipple(PT1/8) type	-	•	•	
Df	SAFM, SAFD200 Float type	•	-	-	

주) 1. SAFM, SAFD200 are differential pressure type. 2. SAFM, SAFD300~400 are float type.

(5) **Bowl** •

Nil - Polycarbonate bowl with Nylon guard PcS - Polycarbonate bowl with Steel guard MeP - Metal bowl with pipe type sight glass

Symbol

S

SAFM	
SAFD	

with autodrain SAFM with autodrain SAFD





Specification

Fluid		Compressed Air	
Max. operating pressure		10bar (1.0MPa)	
Min. operating pressure		0.5bar (0.05MPa)	
Max. supp	ly pressure	15bar (1.5MPa)	
Ambient an	id Media temp.	-5∼60℃ (No freezing)	
Filtration	SAFM	0.1µm	
	SAFD	0.01µm	
Bowl Material		Poly-carbonate (option: ALDC)	
Bowl Guard material		Nylon	

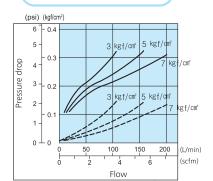
Precautions

- 1 Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions
- (2) Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can
- (3) When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- 4 When auto drain is used it is recommended to use at least 1.5bar pressure.
- (5) When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.
- 6 Before disassembling the equipment on the compressed air side to inspect the auto drain or to replace the filter element, confirm that the pressure is set to zero.

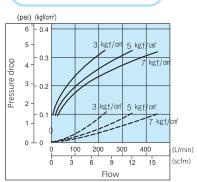
FLOW CHARACTERISTICS

(—Element oil saturation -----Initial condition)

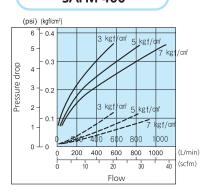
SAFM 200



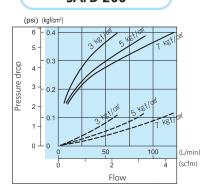
SAFM 300



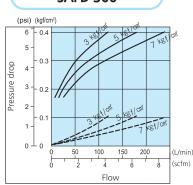
SAFM 400



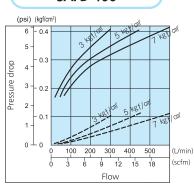
SAFD 200



SAFD 300

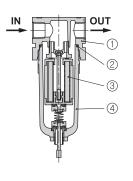


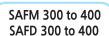
SAFD 400

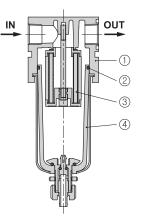


STRUCTURE / PARTS









Component Parts

No.	PARTS	MATERIAL
1	Body	ALDC
4	Bowl Ass'y 1)	PC & Nylon

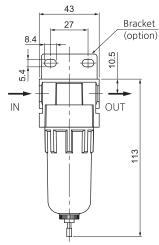
Note: 1. Bowl Ass'y comes with a bowl guard (steel band material).

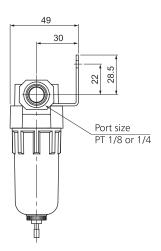
Replacement Parts

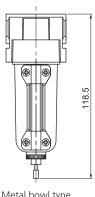
No.	PARTS	MATERIAL	Part no.							
NO.	PARIS MATERIAL		SAFM200	SAFD200	SAFM300	SAFD300	SAFM400	SAFD400		
2	O-ring	NBR	U024		38	x2	U1	37		
3	Filter	-	FM200-EL	FD200-EL	FM300-EL	FD300-EL	FM400-EL	FD400-EL		

SAFM(SAFD) 200

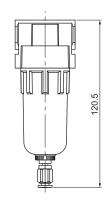
■ SAFM(SAFD) 200-□02□□



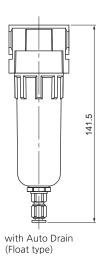








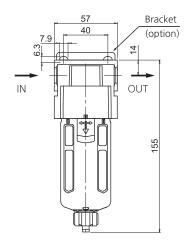
with Auto Drain (Differential pressure type)

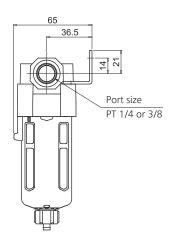


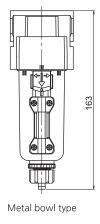
Option	Auto	B : Bracket	
Option	D : Differential pressure type	Df : Float type	D . Dracket
Model			
		SAD200	B200

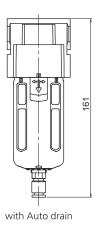
SAFM(SAFD) 300

■ SAFM(SAFD)300-□03□□





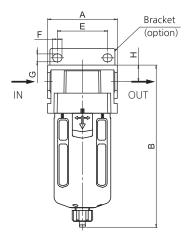


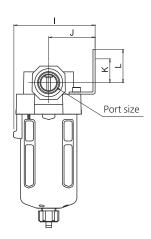


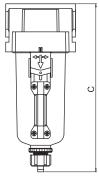
Option	B : Bracket	D : Auto Drain
Model	B300	☐ SAD300

SAFM(SAFD) 400

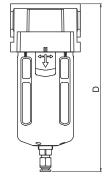
■ SAFM(SAFD)400-□04□□ SAFM(SAFD)400-□06□□







Metal bowl type



with Auto drain

Optio	n	B :Bracket	D : Auto Drain
Mod	el	B400	SAD400

Model	Port size	Α	В	С	D	E	F	G	Н	I	J	K	L
SAFM(SAFD)400-04	1/2	75	174	179	181	54	10	8.5	17.9	85	50	25.7	35.7
SAFM(SAFD)400-06	3/4	75	178	183	185	54	10	8.5	19.8	85	50	25.1	35.1

Air Regulator (SAR)

SAR100~600 Series



SAR600

 With the backflow function, the SAR series incorporates a mechanism which exhausts the air pressure through the outlet side efficiently.





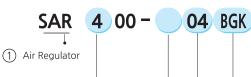




SAR200

SAR100

How to order



- ② Body Size
 - 1 1/8
 - 2 1/4
 - 3 3/8
 - 4 1/2, 3/4
 - 6 1
- (3) Thread type
 - Nil Rc(PT)
 - N NPT G - G(PF)
- (4) Port Size •

Cina		Вс	ody si	ze	
Size	1	2	3	4	6
M5	•				
1/8					
1/4		•	•		
3/8			•		
1/2				•	
3/4				•	•
1					•
	1/8 1/4 3/8 1/2	M5 • 1/8 1/4 3/8 1/2	M5	Size 1 2 3 M5 • 1/8 • 1/4 • • 3/8 • 1/2	M5

(5) Accessory(Optional) •

- Nil None Bracket / None Gauge
- B Bracket
- G Gauge

	G	Round type					
Gs Square embedded		Square embedded type					
	N) CARAGO: IIII I						

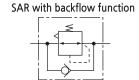
Note) SAR100 is available only round type gauge.

K - With backflow function

Note) SAR100 can not attach a backflow function.

Symbol





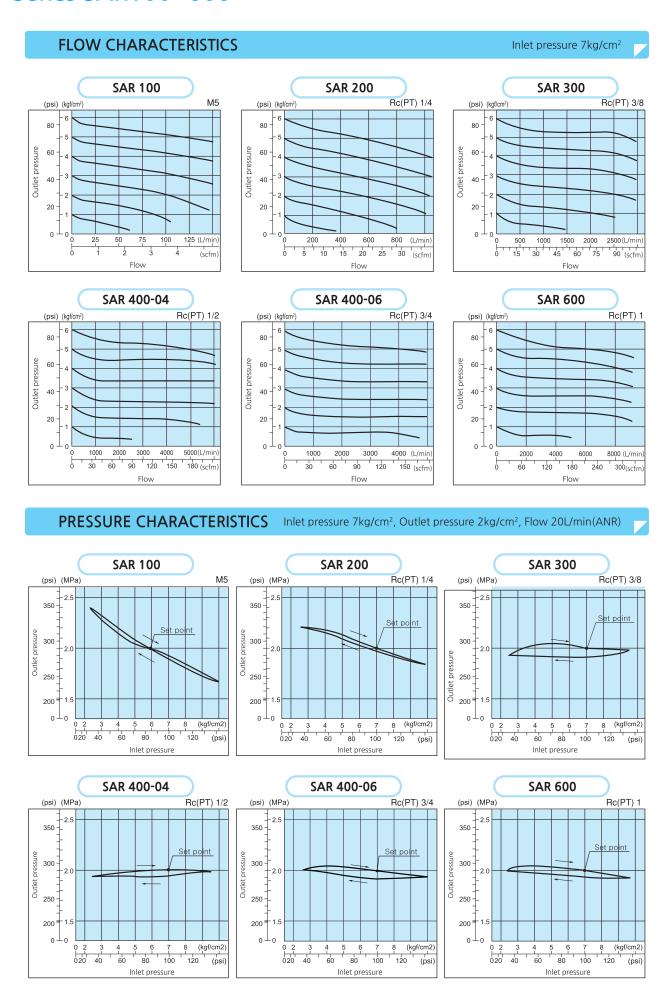
Specification

Fluid	Compressed Air				
Max. operating pressure	10bar (1.0MPa)				
Max. supply pressure	15bar (1.5MPa)				
Ambient and Media temp.	-5∼60°C (No freezing)				
Regulating range	0.5~8.5bar (0.05~0.85MPa)				
Gauge port	SAR100 SAR200 SAR300 SAR400 S.		SAR600		
	1/16 1/8 1/4			/4	
Construction	Relief type				

Precautions

- ① Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- ② To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure. Turning the knob clockwise increases the outlet pressure, and
 - Turning the knob clockwise increases the outlet pressure, and turning it counterclockwise reduces the pressure.
- ③ Please contact SKP when a circuit requires the use of a regulator having relief sensitivity with high precision and setting accuracy.
- Residual pressure release (outlet pressure release) is not complete by releasing the inlet pressure. To release residual pressure, select a model with a back flow mechanism.

Series SAR100~600



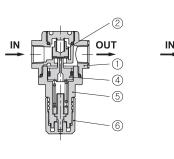
STRUCTURE / PARTS

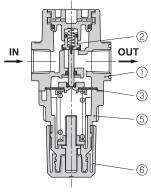


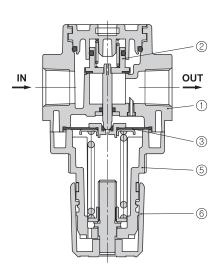


SAR200

SAR300 to 600







Component Parts

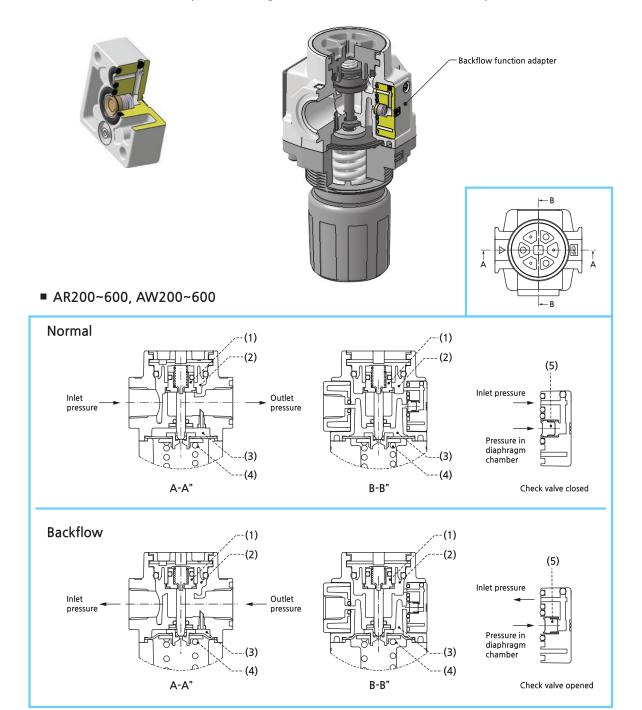
No.	PARTS	MATERIAL
1	Body	ALDC
2	Check valve Ass'y	Brass, NBR
3	Diaphragm Ass'y	NBR
4	Piston 1)	N66G
(5)	Cover 2)	N66G
6	Handle	ABS

Note: 1. The SAR100 is a piston type. Assembly of a piston and a seal.

^{2.} SAR600 cover material is ALDC

Series SAR100~600

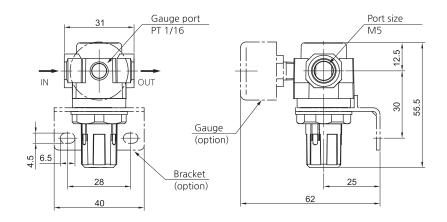
■ Backflow function adapter ■ Regulator with Backflow function adapter installed.



work	Description for the operation state by the backflow function adapter
normal	Because the inlet pressure(1) is higher than the regulating pressure, Check valve(5) closes and operates as a normal regulator.
backflow	When the inlet pressure(1) is shut off and released, the presure in the diaphram chamber (3) is released into the inlet side(1) to open the check valve(5). This lowers the pressure in the diaphragm chamber(3) and the force generated by the pressure of the regulator cover spring(4) opens the regulator check valve(2) The outlet pressure is released to the inlet side(1)

SAR 100

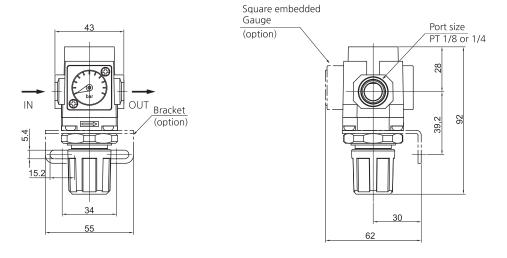
■ SAR100-□01(M5)□□

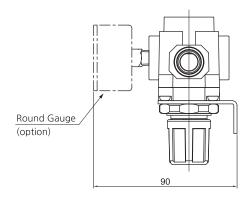


Option	G : Round type Gague	B : Bracket
Model	Model: G25 R 1/16	B120

SAR 200

■ SAR200-□02□□

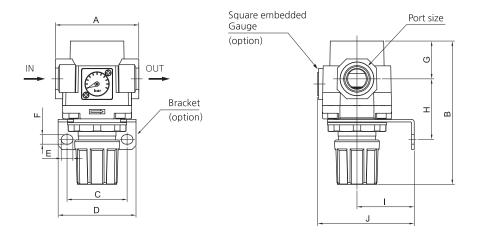


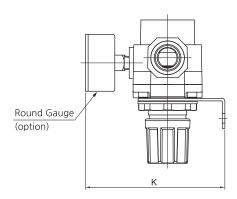


Option	Gs : Square embedded Gauge	G : Round type Gague	B :Bracket
Model	Gs28	G40, R1/8	B220

SAR 300~400

■ SAR300-□03□□ SAR400-□04(06)□□



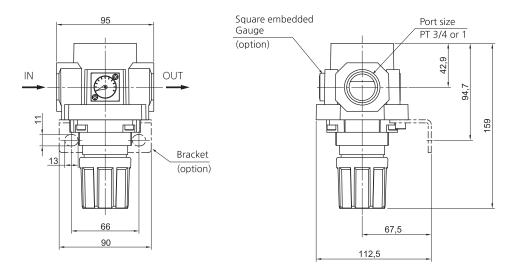


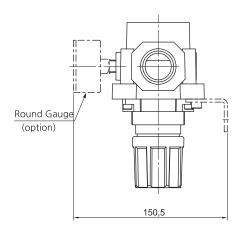
Option	G : Square embedded type Gague	G : Round type Gauge	B :Bracket
Model	la de la description de la des		
	Gs28	SAR300 : G40, R1/8 SAR400 : G50, R1/4	SAR300 : B320 SAR400 : B420

Model	Port size	Α	В	С	D	Е	F	G	Н	ı	J	K
SAR300-03	1/4, 3/8	57	117	40	53	8	6.5	28.4	45.7	41	72	107
SAR400-04	1/2	75	125	54	70	10.5	8.5	34	54	50	87	127
SAR400-06	3/4	75	127	54	70	10.5	8.5	34.5	55.5	50	87	127

SAR 600

■ SAR600-□06□□ SAR600-□10□□





Option	G : Square embedded type Gauge	G : Round type Gauge	B :Bracket
Model	Gs28	G50, R1/4	B600

Large Flow Pilot Operated Regulator (SAR)

SAR825~925 Series

- Internal pilot operated relieving style regulator.
- Metal seal relief valve is used to obtain outstanding pressure characteristic.

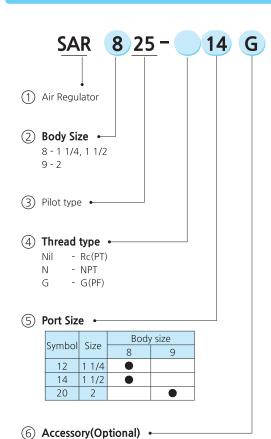


SAR925



SAR825

How to order



- None Gauge

- Gauge

Symbol



Specification

Port size	SAR825	1 1/4, 1 1/2		
	SAR925	2		
Fluid		Compressed Air		
Max. opera	ting pressure	10bar (1.0MPa)		
Max. supply pressure		15bar (1.5MPa)		
Ambient and	Media temp.	-5~60°C (No freezing)		
Regulating	range	0.5~8.5bar (0.05~0.85MPa)		
Constructio	n	Internal pilot relieving style (Pilot air is always bleeding.)		
Gauge port		1/4		

Precautions

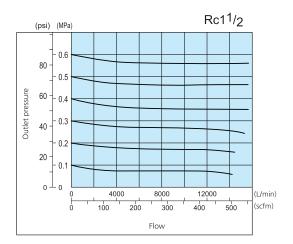
- ① Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- ② To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure.

 Turning the knob clockwise increases the outlet pressure, and turning it counterclockwise reduces the pressure.
- ③ Do not use the regulator with flow exceeding the Max. flow indicated in "Flow Characteristics" as this can cause failure in pressure adjustment

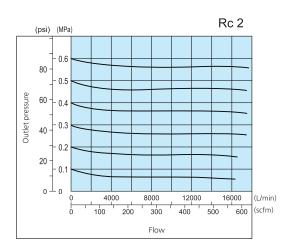
FLOW CHARACTERISTICS

Inlet pressure 7kg/cm²

SAR 825

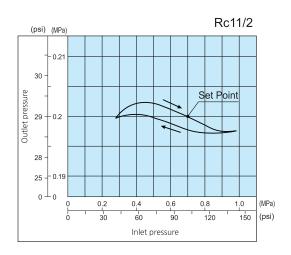


SAR 925

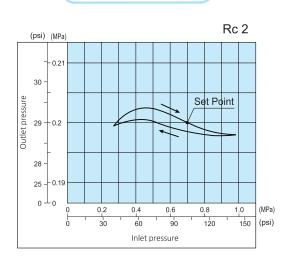


PRESSURE CHARACTERISTICS Inlet pressure 7kg/cm², Outlet pressure 2kg/cm², Flow 20L/min(ANR)

SAR 825

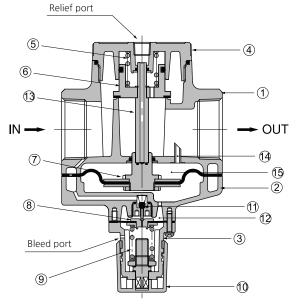


SAR 925



Large Flow Pilot Operated Regulator

STRUCTURE / PARTS



Component Parts

No.	PARTS	MATERIAL
1	Body	ALDC
2	Cover	ALDC
3	ADJ Cover	ALDC
4	Valve guide	ALDC

Replacement Parts

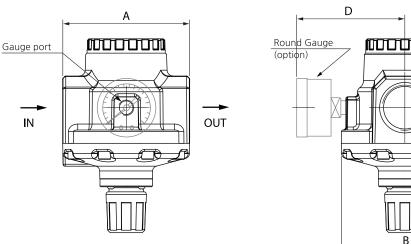
No.	PARTS	MATERIAL
(5)	Valve spring	SWP
6	Check valve Ass'y	-
7	Main diaphragm Ass'y	-
8	Pilot diaphragm Ass'y	-
9	ADJ spring	SWP
10	Handle	PC

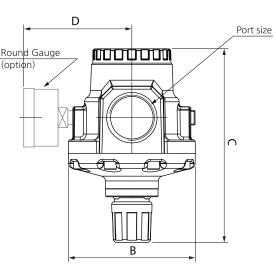
When handle@ is turned clockwise to compress pressure adjustment spring@, the pressure from the IN side passes through diaphragm ®, opens pilot valve@, and enters upper pilot chamber@. This pressure and the force generated by pressure adjustment spring@ act as resistance, resulting in equilibrium.

Then, this pressure passes through diaphragm? of the main valve and check valve rod®, and pushes check valve® open, thus guiding the pressure to the OUT side.

At the same time, the pressure passes through feedback hole[®], and enters diaphragm chamber[®], thus establishing the OUT side pressure (secondary pressure).

DIMENSIONS (mm)





Model	Port size	Gauge port	А	В	С	D
SAR825	1 1/4, 1 1/2	1/4	126	126	198	103
SAR925	2	1/4	160	160	226	119

Air Regulator with T type Handle (SAR)

SAR200T~600T Series

 With the backflow function, the SAR series incorporates a mechanism which exhausts the air pressure through the outlet side efficiently.

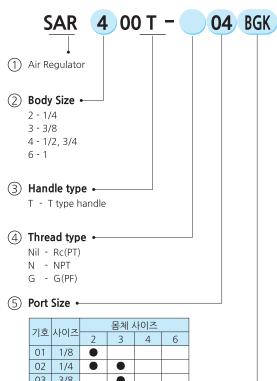






SAR600T

How to order



기능	11012	몸체 사이즈			
기오	사이즈	2	3	4	6
01	1/8				
02	1/4	•	•		
03	3/8				
04	1/2				
06	3/4			•	•
10	1				

6 Accessory(Optional) •

Nil - None Bracket / None Gauge

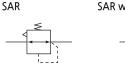
B - Bracket

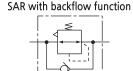
- Gauge

G	Round type
Gs	Square embedded type

K - With backflow function

Symbol





Specification

Fluid	Compressed Air			
Max. operating pressure	10bar (1.0MPa)			
Max. supply pressure	15bar (1.5MPa)			
Ambient and Media temp.	-5~60° (No freezing)			
Regulating range	0.5	-8.5bar (0	.05~0.85N	ЛРа)
Gauge port	SAR200T SAR300T SAR400T SAR60		SAR600T	
	1/8 1/4			/4
Construction	Relief type			

Precautions

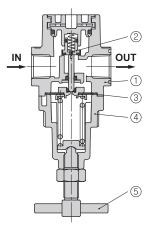
- 1 Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- ② To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure. Turning the knob clockwise increases the outlet pressure, and
 - turning it counterclockwise reduces the pressure.
- 3 Please contact SKP when a circuit requires the use of a regulator having relief sensitivity with high precision and setting accuracy.
- (4) Residual pressure release (outlet pressure release) is not complete by releasing the inlet pressure. To release residual pressure, select a model with a back flow mechanism.

Air Regulator with T-type Handle

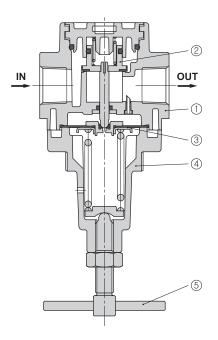
STRUCTURE / PARTS







SAR300T to 600T

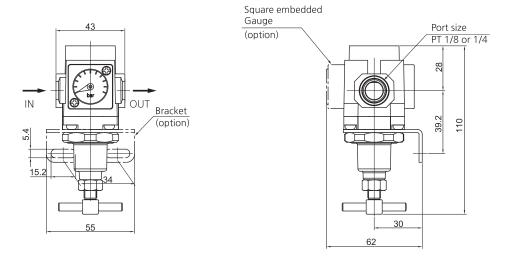


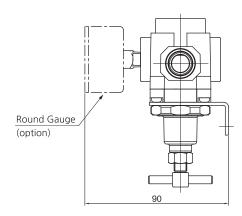
Component Parts

No.	PARTS	MATERIAL		
1	Body	ALDC		
2	Check valve Ass'y	Brass, NBR		
3	Diaphragm Ass'y	NBR		
4	Cover	ALDC		
(5)	Handle	Steel		

SAR 200T

■ SAR200T-□02□□





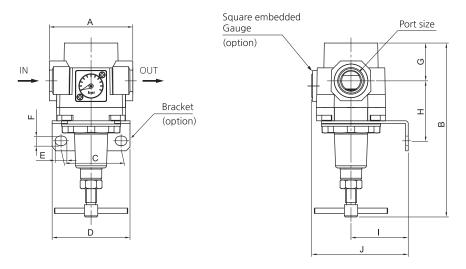
Option	Gs : Square embedded Gauge	G : Round type Gague	B ∶ Bracket
Model	Gs28	G40, R1/8	B220

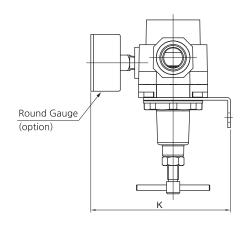
Air Regulator with T-type Handle

DIMENSIONS (mm)

SAR 300T~400T

■ SAR300T-□03□□ SAR400T-□04(06)□□



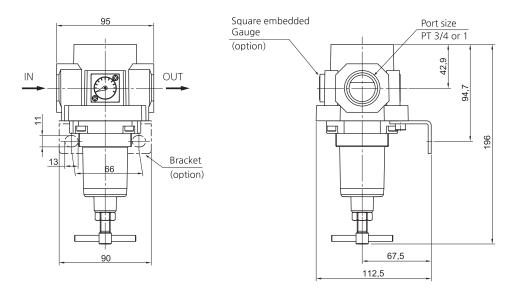


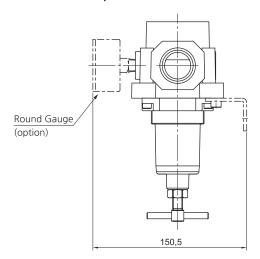
Option	G : Square embedded type Gague	G : Round type Gauge	B ∶Bracket
Model	la de la decembra de		
	Gs28	SAR300 : G40, R1/8 SAR400 : G50, R1/4	SAR300 : B320 SAR400 : B420

Model	Port size	Α	В	С	D	Е	F	G	Н	ı	J	K
SAR300T-03	1/4 or 3/8	57	150	40	53	8	6.5	28.4	45.7	41	72	107
SAR400T-04	1/2	75	158	54	70	10.5	8.5	34	54	50	87	127
SAR400T-06	3/4	75	160	54	70	10.5	8.5	34.5	55.5	50	87	127

SAR 600T

■ SAR600T-□06□□ SAR600T-□10□□





Option	G : Square embedded type Gauge	G : Round type Gauge	B : Bracket
Model	Gs28	G50, R1/4	B600

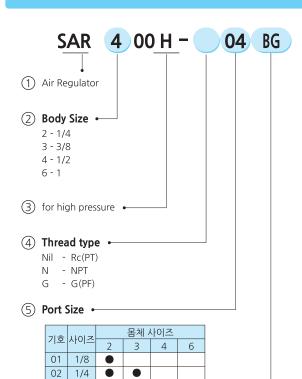
Air Regulator for High Pressure (SAR)

SAR200H~600H Series

 Highly durable materials are used in the manufacturing of air regulators intended for high pressure operation.



How to order



(6) Accessory(Optional) •

1/2

Nil - None Bracket / None Gauge(Adapter Only)

B - Bracket

03 3/8

06 | 3/4

G - Gauge(Round type)

Symbol



Specification

Fluid	Compressed Air				
Max. supply pressure	30bar (3MPa)				
Max. operating pressure	20bar (2MPa)				
Ambient and Media temp.	-5~60° (No freezing)				
Regulating range	1	~17bar (0	.1~1.7MPa	a)	
Gauge port	SAR200H	SAR200H SAR300H		SAR600H	
	1/8		1/4		
Construction	Relief type				

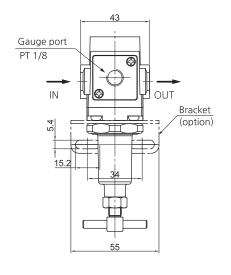
Precautions

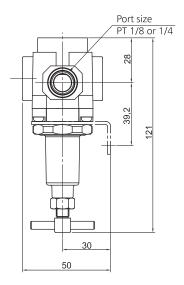
- ① Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- ② To set the pressure using the knob, turn the knob in the direction that increases pressure and lock the knob after the pressure is set. If this is done in the direction that decreases pressure, the pressure may drop from the original set pressure.

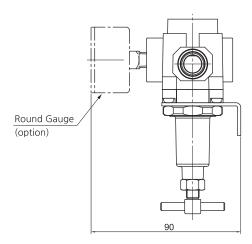
 Turning the knob clockwise increases the outlet pressure, and turning it counterclockwise reduces the pressure.
- ③ Please contact SKP when a circuit requires the use of a regulator having relief sensitivity with high precision and setting accuracy.
- Residual pressure release (outlet pressure release) is not complete by releasing the inlet pressure. To release residual pressure, select a model with a back flow mechanism.

SAR 200H

■ SAR200H-□02□□



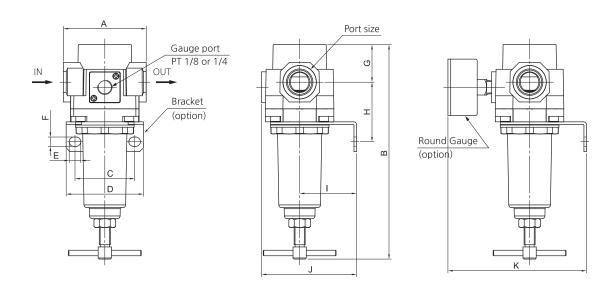




Option	G : Round type Gague	B : Bracket
Model	Gh40, R1/8	B220

SAR 300H~400H

■ SAR300H□-□03□□ SAR400H□-□04(06)□□

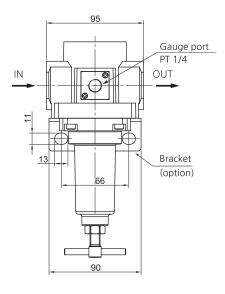


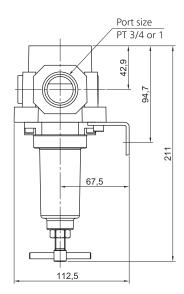
Option	G : Round type Gauge	B : Bracket
Model	SAR300H : Gh40, R1/8 SAR400H : Gh50, R1/4	SAR300H: B320 SAR400H: B420

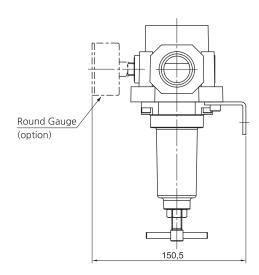
Model	Port size	Α	В	С	D	Е	F	G	Н	I	J	К
SAR300H-03	1/4, 3/8	57	164	40	53	8	6.5	28.4	45.7	41	72	107
SAR400H-04	1/2	75	188	54	70	10.5	8.5	34	54	50	86	127
SAR400H-06	3/4	75	190	54	70	10.5	8.5	34.5	55.5	50	86	127

SAR 600H

■ SAR600H□-□06□□ SAR600H□-□10□□







Option	G : Round type Gauge	B : Bracket
Model	Gh50, R1/4	B600

Precision Regulator (SRP)

SRP2000~3000 Series



SRP 2000



SRP 3000

How to order

02 BG **SRP** 20 00 -1 Precision Regulator (2) Body Size • 20 - 1/4 30 - 3/8 (3) Regulating • pressure range 00 - 0.2~8 bar 20 - 0.1~2 bar 40 - 0.1~4 bar (4) Thread type • Nil - Rc(PT) N - NPT G - G(PF) (5) Port Size • Body size Symbol Size 20 02 1/4

⑥ Accessory(Optional) ←

3/8

1/2

Nil - None Bracket / None Gauge

B - Bracket

03

04

Precision Gauge

Symbol



Specification

Fluid		Compressed Air		
Max. operating p	ressure	10bar (1.0MPa)		
Min. supply 1)	SRP2000	Set pressure +0.5bar		
pressure	SRP3000	Set pressure +1bar		
Regulating range		0.2~8bar (0.02~0.8MPa)		
		0.1~4bar (0.01~0.4MPa)		
		0.1~2bar (0.01~0.2MPa)		
Sensitivity		Within 0.2% of full span		
Repeatability		Within ±0.5% of full span		
Air consumption ²³ (At supply pressure	SRP2000	5 L/min		
of 10bar)	SRP3000	11 L/min		
Ambient and fluid	d temperature	-5~60°C (No freezing)		
Gauge port		1/8		
Port size	SRP2000	1/4		
	SRP3000	3/8, 1/2		

Note: 1. With the condition of no flow on the output side.

Precautions

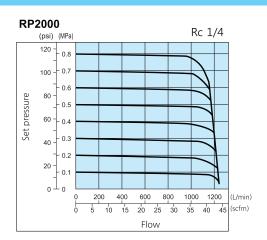
- ① If the supply pressure line contains drainage, particulate, or other debris, the fixed throttle can become clogged leading to malfunction. To avoid malfunctions, in addition to an air filter (Series SAF), installation of a mist separator (Series SAM, SAFM) is required.
- ② If the drain removal from air filter and mist separator is missed, drain will be flown out to the outlet side and may result in a malfunction of the pneumatic equipment. When removing drain is difficult, use of a filter with an autodrain is recommended.
- ③ Never use a lubricator on the supply side of the regulator, as this will positively cause the fixed throttle to become clogged and result in a malfunction. If lubrication is required for terminal devices, connect a lubricator on the output side of the regulator.
- (4) If a directional switching valve (solenoid valve, mechanical valve, etc.) is mounted on the supply side of the regulator and repeatedly switched ON and OFF, wear of the nozzle/flapper section will be accelerated and a discrepancy in the setting value may occur. Therefore, avoid using a directional switching valve on the supply side. In the event a directional switching valve will be used, install it on the output side of the regulator.
- (5) Air is normally released from the bleed hole (the hole on the side of the body's mid-section). This is a necessary consumption of air based on the construction of the precision regulator, and is not an abnormality.

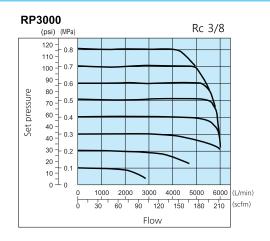
Air is normally being discharged to the atmosphere from a bleed hole or an exhaust port.

Series SRP2000~3000

FLOW CHARACTERISTICS

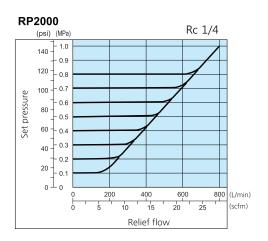
Supply pressure: 1MPa

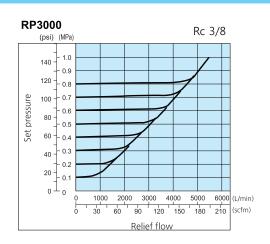




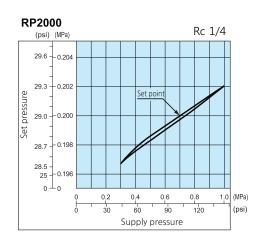
RELIEF CHARACTERISTICS

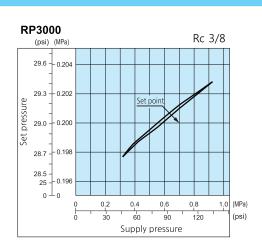
Back pressure: 1MPa



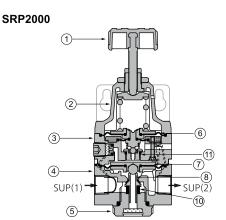


PRESSURE CHARACTERISTICS Supply pressure: 0.7 MPa, Set pressure: 0.2 MPa, Flow rate: 0 L/min (ANR)





STRUCTURE / PARTS

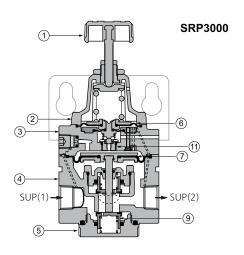


Working principle (For SRP2000)

When the knob is turned, the nozzle closes by the flapper, allowing supply pressure(SUP(1)) to enter and pass through fixed orifice and apply on diaphragm ⑦ as back pressure. Back pressure causes check valve ⑧ to be pushed down to allow supply pressure to flow out to the downstream side(SUP(2)). Supply pressure applied to Diaphragm ② also is applied to Diaphragm ⑥ which creates an opposing force against compression force of the setting spring and becomes the set pressure.

When set pressure increases significantly, Diaphragm 6 is pushed up and space between flapper and nozzle widens causing nozzle back pressure to drop. Drop in nozzle back pressure causes Diaphragm 7 drop, closes the check valve 8 and opens the exhaust valve.

Precise pressure adjustment is achieved by using this nozzle flapper type mechanism.



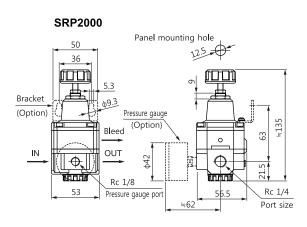
Component Parts

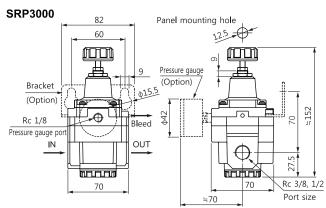
No.	PARTS	MATERIAL
1	Handle	NYLON
2	Cover	ALDC
3	Disk	ALDC
4	Body	ALDC
(5)	Valve guide	ALDC

Repacement Parts

No.	PARTS	MATERIAL
6	Diaphragm Ass'y	NBR, others
7	Main Diaphragm Ass'y	NBR, others
8	Check valve	SUS, NBR
9	Check valve	Brass, NBR
10	Damper	NBR
11)	Nozzle Ass'y	Brass, others

DIMENSIONS (mm)

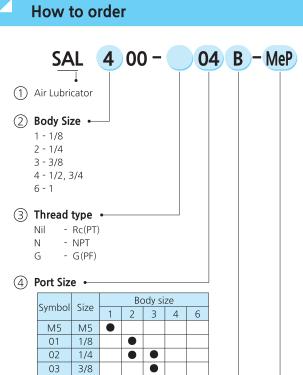




Air Lubricator (SAL)

SAL100~600 Series





(5)	Acc	essory	y(Optional)
	Nil	- N	one Bracket	I

1/2

3/4

В - Bracket

04

06

10

⑥ Bowl ⊷

Nil - Polycarbonate bowl with Nylon guard - Polycarbonate bowl with Steel guard MeP - Metal bowl with pipe type sight glass

Symbol



Specification

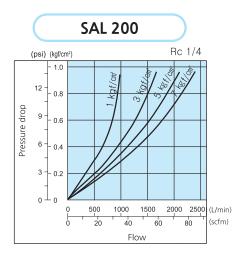
Fluid	Compressed Air			
Max. operating pressure	10bar (1.0MPa)			
Max. supply pressure	15bar (1.5MPa)			
Ambient and Media temp.	-5∼60°C (No freezing)			
Recommended oil	Turbin oil (ISO VG32)			
Bowl material	Poly-carbonate (option: ALDC)			
Bowl guard material	Nylon			

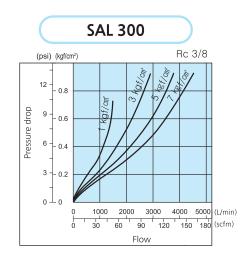
Precautions

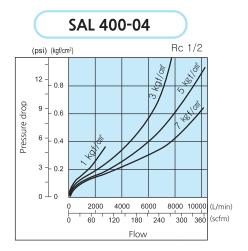
- (1) Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- 2 Do not introduce air from the outlet side as this can damage the
- (3) Use a check valve (SACM series) to prevent back flow of the lubricant when redirecting the air flow before the lubricator.
- 4 Avoid riser piping and branch lines on the outlet side to prevent
- (5) Adjustment of the oil regulating valve should be carried out manually. Turning it counterclockwise increases the dripping amount, and turning it clockwise reduces the dripping amount.
- 6 Check the usage rate once a day. If the lubricant is not normally consumed, problems may occur to the lubricated objects.

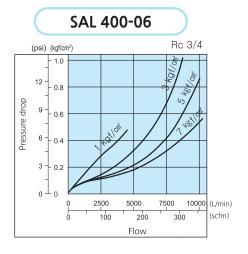
FLOW CHARACTERISTICS

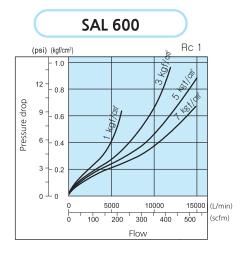






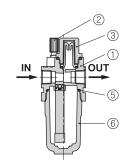




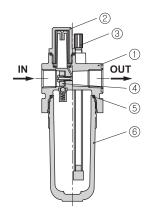


STRUCTURE / PARTS

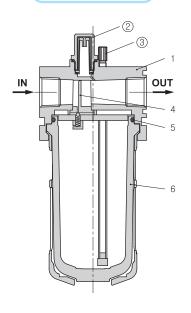




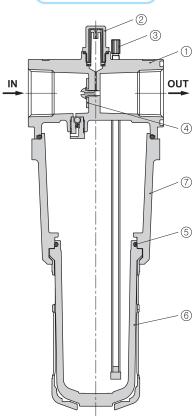




SAL300, SAL400







Component Parts

	•	
No.	PARTS	MATERIAL
1	Body	ALDC
2	Oil cap	Nylon
3	Throttle screw	Bs
4	Damper Ass'y	Ur, NBR
6	Bowl Ass'y 1)	PC & Nylon
7	Housing	ALDC

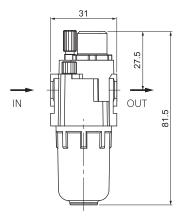
¹⁾ Bowl Ass'y for the SAL300 to SAL600 models comes with a bowl guard (steel band material).

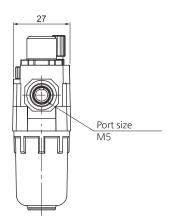
Replacement Parts

No.	PARTS	MATERIAL	Part no.						
NO.	FARIS		SAL100	SAL200	SAL300	SAL400	SAL600		
(5)	O-ring	NBR	S22	U024	38x2	U137	U137		

SAL 100

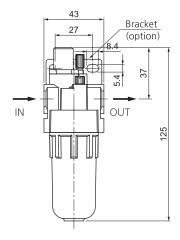
■ SAL100-□01(M5)

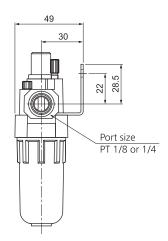


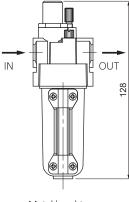


SAL 200

■ SAL200-□02□





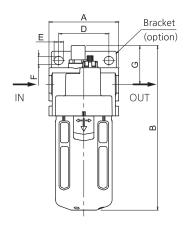


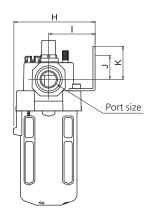
Metal bowl type

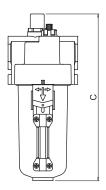
Option	B :Bracket
Model	B200

SAL 300~400

■ SAL300-□03□□
SAL400-□04(06)□□







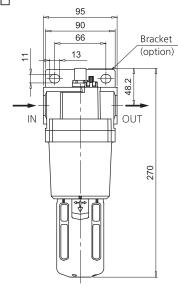
Metal bowl type

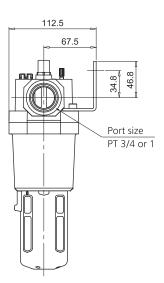
Option	B : Bracket
Model	SAL300: B300 SAL400: B400

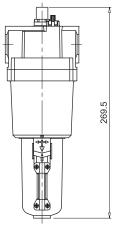
Model	Port size	Α	В	С	D	Е	F	G	Н	I	J	К
SAL300-03	1/4, 3/8	57	147	160	40	7.9	6.3	14	65	36.5	14	21
SAL400-04	1/2	75	177.5	177	54	10	8.5	41.9	85	50	25.7	35.7
SAL400-06	3/4	75	181.5	181	54	10	8.5	43.8	85	50	25.1	35.1

SAL 600

■ SAL600-□06□□ SAL600-□10□□







Metal bowl type

Option	B ∶Bracket
Model	B600

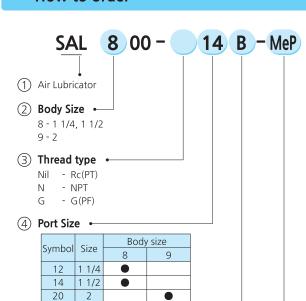
Large Flow Air Lubricator (SAL)

SAL800~900 Series



SAL900

How to order



S Accessory(Optional)

Nil - None Bracket

B - Bracket

(6) Bowl •

PcS - Polycarbonate bowl with Steel guard

MeP - Metal bowl with pipe type sight glass

Precautions

- ① Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- ② Do not introduce air from the outlet side as this can damage the damper.
- ③ Adjustment of the oil regulating valve should be carried out manually. Turning it counterclockwise increases the dripping amount, and turning it clockwise reduces the dripping amount.
- (4) Check the usage rate once a day. If the lubricant is not normally consumed, problems may occur to the lubricated objects.

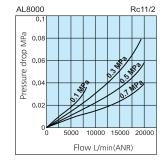
Symbol

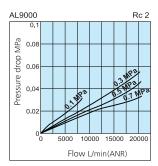


Specification

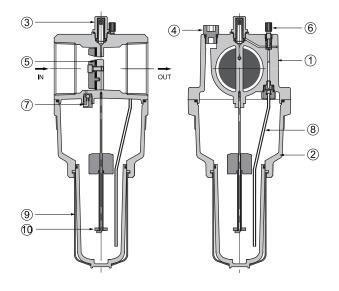
Port size	SAL800	1 1/4, 1 1/2		
	SAL900	2		
Fluid		Compressed Air		
Max. operating pressure		10bar (1.0MPa)		
Max. supply pressure		15bar (1.5MPa)		
Ambient and Media temp.		-5~60° (No freezing)		
Recommended oil		Turbin oil (ISO VG32)		
Bowl material		Poly-carbonate (option: ALDC)		

Flow Characteristics





STRUCTURE / PARTS



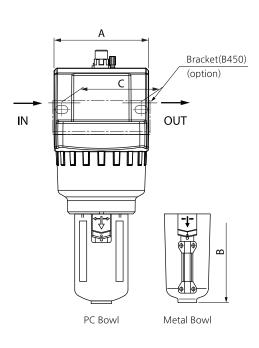
Component Parts

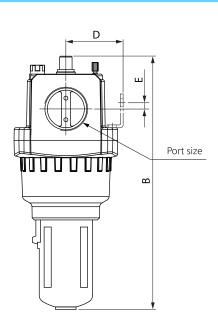
No.	PARTS	MATERIAL
1	Body	ALDC
2	Cover	ALDC

Replacement Parts

No.	PARTS	MATERIAL
3	Oil cap	Nylon
4	Lubrication plug	N66G
(5)	Bumper Ass'y	NBR
6	Throttle screw	Bs
7	Check valve Ass'y	Brass
8	Siphon tube Ass'y	Cu
9	Bowl Ass'y	PC
10	Oil level	POM

DIMENSIONS (mm)





Model	Port size	^	E	3	_	D	_
Model	FOIT SIZE	A	PC	Metal			_
SAL800	1 1/4, 1 1/2	116	286	284	90	64	6.8
SAL900	2	116	286	284	90	64	6.8

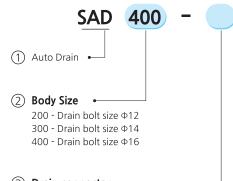
AutoDrain Kit (SAD)

SAD200~400 Series

- · Convenient use by attached one-touch fitting.
- Auto-drain kit for both automatic and manual operation.
- Diverse port size for drain hose allows for various options.



How to order



③ Drain connector ←

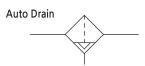
Nil - One-touch fitting

Body size	Drain guide
200	Ф4
300	Ф6
400	Ф6

N - Nipple Rc(PT)1/8

Note) SAD200 does not have nipple type.

Symbol



Specification

Fluid	Compressed air
Max. operating pressure	10bar (1.0MPa)
Min. operating pressure	1.5bar (0.15MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and media temp.	1.5∼60℃
Pressure to close drain	Greater than 0.5bar
Pressure to open drain	Less than 0.3bar

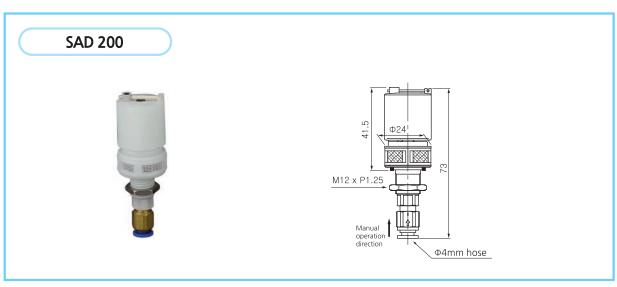
Material

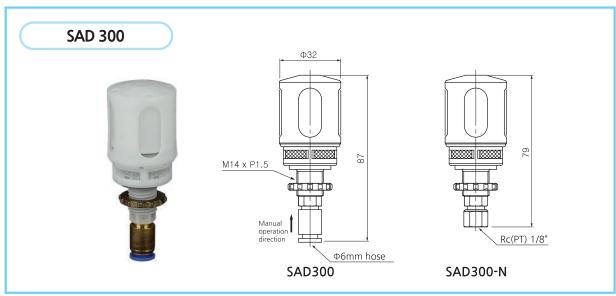
- \bullet Cylinder, Cover and Buoy : Acetal
- Gaskeets: NBR
- Packing and Valve: NBRSpring: Stainless steel
- $\bullet \ \mathsf{PIF} \ \mathsf{collet} : \mathsf{Zn} \ \mathsf{plated} \ \mathsf{diecasting}$
- $\bullet \ \mathsf{O}\text{-ring} : \mathsf{NBR}$
- One-touch fitting, Manual pusher: Br

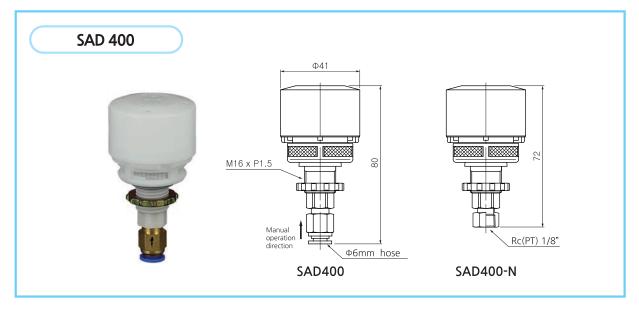
Series SAD200~400

DIMENSIONS (mm)





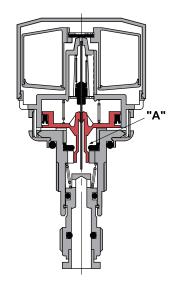




Working principle

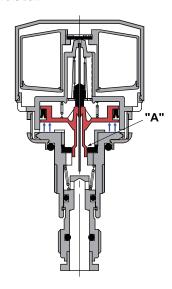
① When unpressurized up to ~0.5 bar

Spring pushes down the piston and opens "A" to drain air in the bowl.



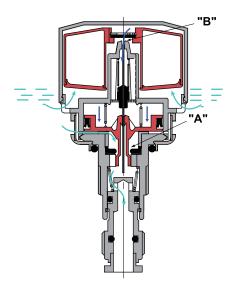
② When pressure is above 0.5 bar in the bowl

Pressure surpasses the force of spring and closes "A" to seal the bowl



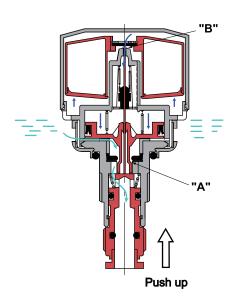
3 When there is accumulation in the bowl

Collected liquid lifts the float to open valve "B" allowing pressurized air to enter and push the piston down to open "A" to drain



Manual Operation

When the fitting is pushed upward, float is lifted thus opening the valve "B" to let pressurized air to enter and push the piston down to open "A" to drain



Pressure Relief 3port Valve (SHVS)

SHVS200~600 Series

• SHVS can prevent accidents caused by inadvertent air supply problems.

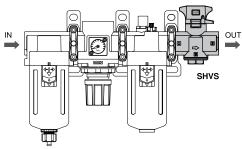




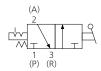
How to order

03 SHVS 3 00-1) Pressure relief 3port valve 2 Body Size 2 - 1/4 3 - 3/8 4 - 1/2 6 - 1 (3) Thread type Nil - Rc(PT) - NPT - G(PF) 4 Port Size

Symbol	nbol Size		Body	/ size	
Symbol	Size	2	3	4	6
02	1/4				
03	3/8		•		
04	1/2			•	
06	3/4				
10	1				



Symbol



Specification

Model		SHVS200	SHVS300	SHVS400	SHV	\$600			
Port size	IN, OUT	1/4	3/8	1/2	3/4	1			
POLL SIZE	EXH	1/8	1/4	3/8	1,	/2			
Cv	IN→OUT	0.88	1.72	3.8	5.0	6.5			
CV	OUT→EXH	0.84	1.66	2.4	2.8	3.1			
Fluid		Compressed air							
Proof pressu	ure	15bar (1.5MPa)							
Operating p	ressure range	1~10bar (0.1~1MPa)							
Ambient an	d fluid temp.	-5~60° (No freezing)							
Handle swit	ching angle	90°							

Precautions

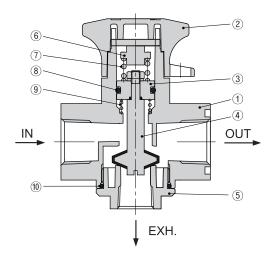
- ① Do not supply air pressure from ports other than the 1 (P) port. The valve will malfunction when air pressure is supplied from other ports.
- 2 Do not apply negative pressure. It may result in malfunction.
- (3) The valve must be switched to each position instantly and securely. Stopping the knob between the extreme positions may cause malfunction.
- (4) Do not remove the mounting screws from the bonnet. As this may cause malfunction.
- * A spacer or spacer with bracket is required if the valve is combined with modular F.R.L. Please order it separately.

Pressure relief 3port valve	Spacer part no.	Spacer with bracket part no.	Applicable air preparation equipment
SHVS200	B21S	B21T	AU200
SHVS300	B31S	B31T	AU300
SHVS400	B41S	B41T	AU400-04
SHVS600	B61S	B61T	AU600

Pressure Relief 3port Valve

STRUCTURE / PARTS

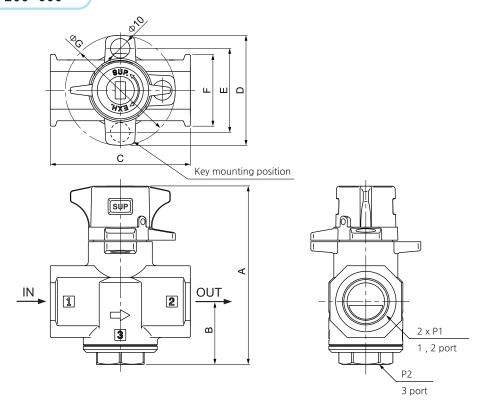
SHVS 200~600



No.	PARTS	MATERIAL				
1	Body	ALDC				
2	Handle	ALDC				
3	Piston	Brass				
4	Spool	Brass + NBR				
5	Cover	ALDC				
6	Spring guide	SUM				
7	Spool spring	SUS				
8	Piston o-ring	NBR				
9	Spring	SUS				
10	Cover o-ring	NBR				

DIMENSIONS (mm)

SHVS 200~600



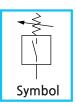
Model	P1	P2	Α	В	С	D	Е	F	G
SHVS 200	1/4	1/8	60	20	40	46	33	25	45.8
SHVS 300	3/8	1/4	79.5	28.5	53	55	42	30	55
SHVS 400	1/2	3/8	89	31.5	70	55	42	35.8	55
SHVS 600	3/4, 1	1/2	119	39.8	90	68	54	52	67.5

Pressure Switch (SPS)

SPS 100 Series

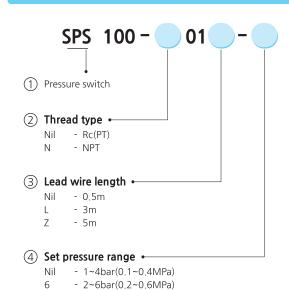


- SPS100 is designed to easily detect a pressure drop of the air line.
- SPS100 can be connected to Modular type F.R.L. units.



SPS100

How to order



Specification

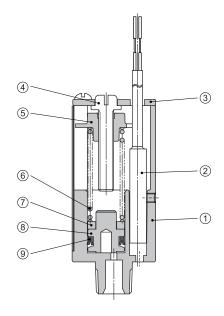
Fluid		A	Air			
Max. operatin	g pressure	7bar (0.7MPa)				
Proof pressure)	10bar	(1MPa)			
Ambient and t	fluid temp.	-5∼60℃ (№	No freezing)			
Set pressure	Nil	1~4bar (0.	1~0.4MPa)			
range	6	2~6bar (0.	2~0.6MPa)			
Contacts		1a				
Error of scale		±0.5 bar (0.05 MPa) or less				
Hysteresis		1.2bar ((0.12MPa)			
Repeatability		±0.5bar (0.0	5MPa) or less			
Wiring specific	ations	Grommet, Lead \	wire length: 0.5 m			
Port size		1/8				
Voltage		DC24V AC100				
Operating cur	rent range	50mA	20mA			

Cautions

- 1 Allowable operating fluids are either air or inert gas exclusively.
- ② Avoid use in vacuum applications. Switch may be imploded.
- ③ Connect load before connecting with power source. The switch will break instantly if no load is connected.
- 4 Make the wiring length as short as possible. (within 5m)
- ⑤ Do not use in an environment where water or oil is splashed. Since it is an open type construction, if water or oil come in contact with the internal parts, the electric circuit will be corroded and may result in a malfunction or damage.
- (6) Avoid using a switch in a magnetic environment. It may cause a malfunction.
- ② Apply a wrench to the bottom of the product when screwing. Turning it by applying a wrench on the top of the main body may cause damage to the product.
- The pressure displayed on the scale plate is a guideline only. Measure the accurate pressure with the pressure gauge.

STRUCTURE / PARTS

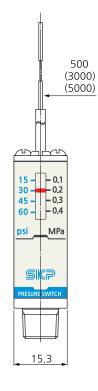
SPS 100

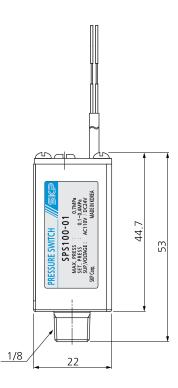


No.	PARTS	MATERIAL
1	Body	ZnDC
2	Switch Ass'y	-
3	Cover	Steel sheet
4	Adjusting screw	Brass
5	Indicator	ALDC
6	Spring	SUS
7	Magnet	-
8	Piston	POM
9	Piston Packing	NBR

DIMENSIONS (mm)

SPS100

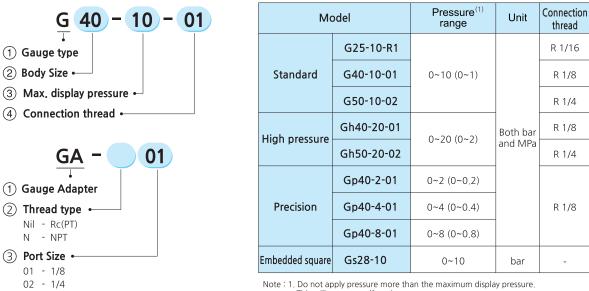




Gauge Series

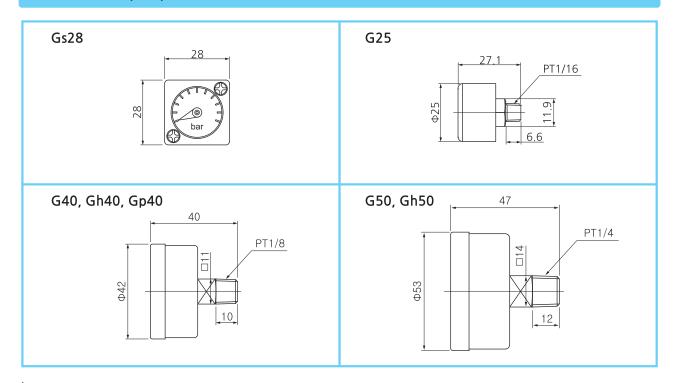


How to order



Note: 1. Do not apply pressure more than the maximum display pressure. This will cause a malfunction.

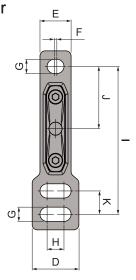
Dimension(mm)

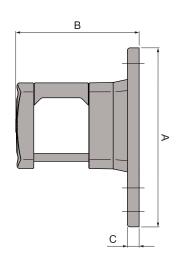


Bracket for Air Unit (B11T~B61T / B11S~B61S)

■ Bracket with Modular Spacer



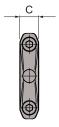


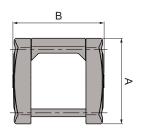


명칭	Α	В	С	D	Е	F	G	Н	ı	J	K	적용품명
B11T	56	39	4	13	13	2.3	4.5	2.3	47	20	7	SAU100, 110, 120
B21T	69	48	4.5	18	12	1	5.5	6.5	57	24	9	SAU200, 210~260
B21U	69	53	4.5	18	12	1	5.5	6.5	57	24	9	SAMU150
B31T	87	63	6	23	17	2	7	7	70	35	-	SAU300, 310~320, SAMU250
B31U	87	63	6	23	17	2	7	7	86	35	16	SAU330~360
B41T-04	100	77	7	29	20	2	9	10	80	40	-	SAU400-04, 410-04~460-04, SAMU350
B41T-06	100	80	7	29	20	2	9	10	80	40	-	SAU400-06, 420-06, 430-06
B41U-06	100	85	7	29	20	2	9	10	80	40	-	SAMU450
B61T	125	105	11	33	25	2	11	10	100	50	-	SAU600, 610, 620, SAMU550

■ Modular Spacer



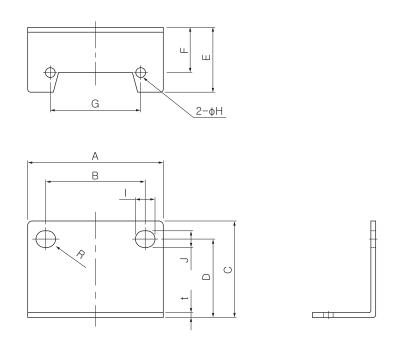




명칭	Α	В	С	적용품명
B21S	33	35	7	SAU200, 210~260, SAMU150
B31S	43	44	10	SAU300, 310~360, SAMU250
B41S-04	54	53	12	SAU400-04, 410-04~460~04, SAMU350
B41S-06	59	60	12.4	SAU400-06, 420-06, 430-06, SAMU450
B61S	69	70	15	SAU600, 610, 620, SAMU550

Bracket for SAF / SAL(B200~B600, B620)

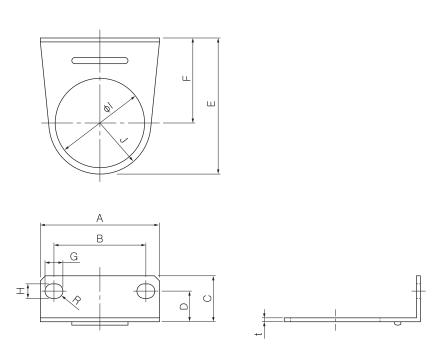




Model	А	В	С	D	E	F	G	Н	ı	J	R	t	Applicable model
B200	40	27	36.5	30	19.5	15	26	4.5	8.4	5.4	2.7	1.6	SAF200, SAL200, SAFM200, SAFD200
B300	53	40	39	32	26.5	19	35	4.5	8	6.5	3.25	2.3	SAF300, SAL300, SAFM300, SAFD300
B400	70	54	48	38	28.5	20	47	5.5	10	8.5	4.25	2.3	SAF400, SAL400, SAFM400, SAFD400
B600	90	66	64	52	43	30	60	6.5	13	11	5.5	3.2	SAF600, SAL600, SAR600
B622	90	66	41	29	32	21	60	6.5	13	11	5.5	3	SAW600

Bracket for SAR / SAW(B120~B420)

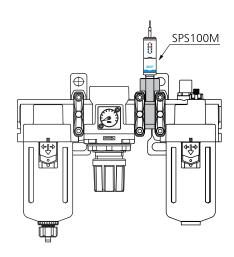


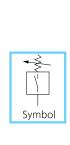


Model	Α	В	C	D	Е	F	G	Н	ı	J	R	t	Applicable model			
B120	40	28	18.8	13.5	37.5	25	6.5	4.5	18.1	12.5	2.25	1.6	SAR100, SAW100			
B220	55	34	21	15	49.5	30	15	5.4	29.8	19.3	5	2	SAR200, SAW200, SAWM200, SAWD200			
B320	53	40	22	13.5	67	41	8	6.5	42.5	25	3.25	2.3	SAR300, SAW300, SAWM300, SAWD300			
B420	70	54	28	19	80	52	10.5	8.5	42.5	27	4.25	2.3	SAR400, SAW400, SAWM400, SAWD400			

Pressure Switch with Spacer(SPS100M)

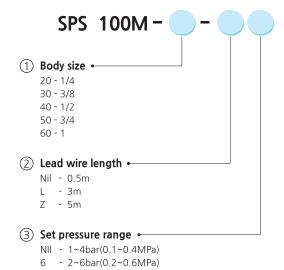
- SPS100M is designed to easily detect a pressure drop of the air line.
- SPS100M can be connected to Modular type F.R.L. units.







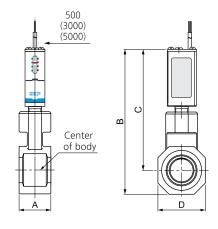
How to order



Specification

Fluid		Compressed air					
Max. operatin	g pressure	7bar (0.7MPa)					
Proof pressure	2	10bar (1MPa)					
Ambient and	fluid temp.	-5~60℃ (No freezing)					
Set pressure	Nil	1~4bar (0.1~0.4MPa)					
range	6	2~6bar (0.2~0.6MPa)					

Dimension(mm)

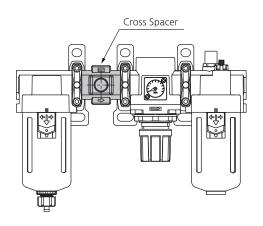


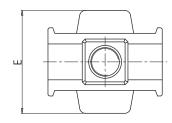
Model	Α	В	С	D	Applicable model
PS100M-20	18	89.5	79	25	SAU200, SAU210~260
PS100M-30	19	100	86	30	SAU300, SAU310~360
PS100M-40	24	109	91.1	35.8	SAU400-04, SAU410~460
PS100M-50	24	113	93.2	43.6	SAU400-06, SAU420-06
PS100M-60	28	128	104.3	52.4	SAU600, SAU610~620

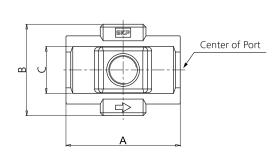
Cross Spacer(B240C~B440C)

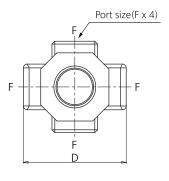
- 1. Piping is possible in all 4 directions.
- 2. IN/OUT ports are not machined for threads.
 Please contact SKP if threaded (machined) ports are required.
- 3. When mounting a cross interface directly on the IN side of the lubricator, be sure to use the SACM series check valve between the lubricator and cross interface.











* Unit (mm)

Model	Port size(F)	Α	В	С	D	Е	Applicable model
B240C-□01	1/8	40	36	21	38	38	CALIZOO CALIZAO, 260
B240C-□02	1/4	40	30	21	30	30	SAU200, SAU210~260
B340C-□01	1/8	49	43	28	48	48	SAU300, SAU310~360
B340C-□02	1/4	49	45	20	40	40	3A0300, 3A0310**300
B440C-□02	1/4	60	48	35.8	54	54	SAU400-04,
B440C-□03	3/8	00	40	33.0	54	54	SAU410-04~460-04

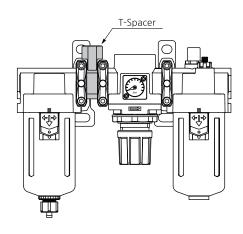
Note : \Box in model numbers indicates a pipe thread type.

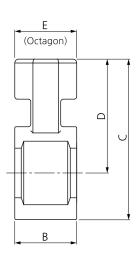
No indication is necessary for Rc; however, indicate N for NPT, and G for G.

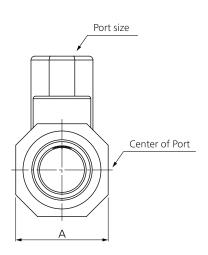
T Spacer(B230T~B630T)

- 1. Using a T-spacer facilitates the branching of air flow.
- 2. If a T-spacer is used on the inlet side of the lubricator, lubricant may be mixed. Use the SACM series check valve to avoid such possibility.









Unit (mm)

Model	Port size	Α	В	С	D	Е	Applicable model
B230T-□01	1/8	25	18	42.5	32	19	CALI200 CALI210 200
B230T-□02	1/4	25	18	42.5	32	19	SAU200, SAU210~260
B330T-□01	1/8	30	19	53	39	10	CALIZOO CALIZAO 200
B330T-□02	1/4	30	19	53	39	19	SAU300, SAU310~360
B430T-□01	1/8						
B430T-□02	1/4	35.8	24	62	44.1	24	SAU400-04, SAU410-04~460-04
B430T-□03	3/8						37.0 170 0 1 100 0 7
B530T-□01	1/8						
B530T-□02	1/4	43.6	24	66	46.2	24	SAU400-06, SAU420-06
B530T-□03	3/8						
B630T-□01	1/8						
B630T-□03	3/8	52.4	28	81	57.3	30	SAU600-06(10), SAU610-06(10), SAU620-06(10)
B630T-□04	1/2						

Note : \Box in model numbers indicates a pipe thread type.

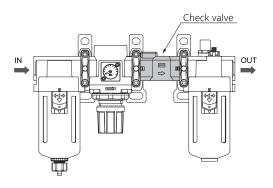
No indication is necessary for Rc; however, indicate N for NPT, and G for G.

Check Valve(SACM200~400)

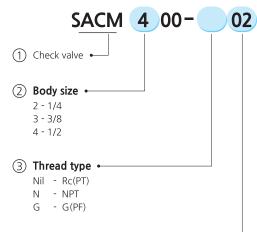


- 1. A check valve with intermediate air release port can be easily installed to prevent a backflow of lubricant when redirecting the air flow and releasing the air on the outlet side of the regulator.
- 2. Be sure to use check valves when redirecting the air flow on the inlet side of the lubricator. Threads for IN and OUT ports are not machined.





How to order



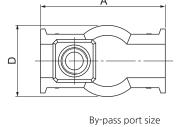
(4) By-pass port size •

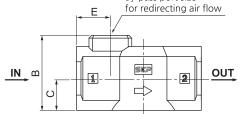
C la l	C:	В	ody siz	e
Symbol	Size	2	3	4
01	1/8	•	•	
02	1/4	•	•	
03	3/8			

Specification

Fluid	Air
Proof pressure	15bar (1.5MPa)
Max. operating pressure	10bar (1MPa)
Ambient and fluid temp.	-5∼60°C (No freezing)

Dimension(mm)



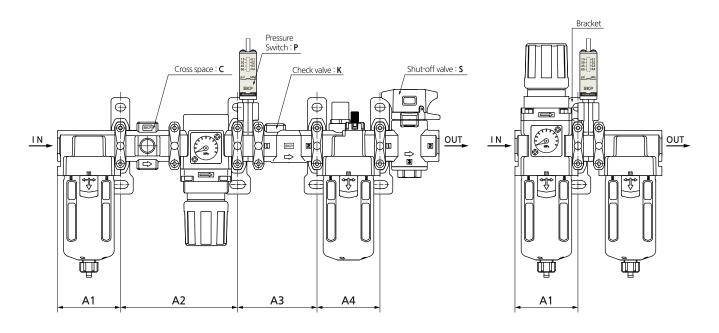


Model	By-pass port size	Α	В	С	D	Е	Applicable model
SACM200	1/8, 1/4	40	30.5	10.5	27	13.5	SAU200, SAU210~260
SACM300	1/8, 1/4	53	35.5	15	30	15	SAU300, SAU310~360 SAU400, SAU410~460
SACM400	1/4, 3/8	70	42	17.9	40	19	SAU600, SAU610~620

Note: A check valve cannot be mounted on the SAU400-06.

Mounting Position for Spacer with Bracket





Mounting Position for Spacer with Bracket

Attachment		K			۲				2		KP		CK		K2			CKP					
Model	A1	A2	A3	A1	A2	A1	A2	A1	A2	A3	A1	A2	A3	A1	A2	А3	A1	A2	A3	A4	A1	A2	A3
SAU100	_	_			_	_	_	_	_	_	_	_	_		_	_			_	_	_	_	_
SAU200	43	43	40	43	43	43	83	43	43	43	43	43	58	43	43	40	43	43	40	43	43	83	58
SAU300	57	57	53	57	57	57	106	57	57	57	57	57	72	57	106	53	57	57	53	57	57	106	72
SAU400-04	75	75	70	75	75	75	135	75	75	75	75	75	94	75	135	70	75	75	70	75	75	135	94
SAU400-06	_	_	_	75	75	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
SAU600			l	95	95			95	95	95								l <u> </u>		l			
3AU000				93	93			93	93	93													
Attachment		KI		93	93	K		93	93	KP			P	C		PS			PCS			CS	
	A1			A4	93 A1			93 A4	A1			A4		C A2	A1	PS A2	A3	A1		A3	A1		A3
Attachment		KI	PS			K	CS			KP	CS		Р	_	A1		A3	A1	PCS			CS	A3
Attachment Model	A1	KI A2	PS A3	A4	A1	K(CS A3	A4	A1	KP A2	CS A3	A4	P A1	A2		A2			PCS A2	A3	A1	CS A2	A3 — 43
Attachment Model SAU100	A1 —	KI A2	PS A3 —	A4 —	A1 —	A2 —	A3	A4 —	A1	KP A2	CS A3	A4	A1	A2	_	A2	_	_	PCS A2	A3	A1 —	CS A2	_
Attachment Model SAU100 SAU200	A1 — 43	KI A2 — 43	PS A3 — 58	A4 - 43	A1 43	K (A2 — 83	A3 — 40	A4 - 43	A1	KP A2 83	CS A3 — 58	A4 43	P A1 — 43	A2 — 83	43	A2 — 43	<u> </u>	— 43	PCS A2 — 83	A3 — 61	A1 — 43	CS A2 — 83	— 43

Attachment	K		Р	S		KP		KS				KPS	PS		
Model	A1	A2	A3	A1	A2	A1	A2	A1	A2	A3	A1	A2	A3	A1	A2
SAU210	43	40	43	43	43	43	58	43	40	43	43	58	43	43	61
SAU310	57	53	57	57	57	57	72	57	53	57	57	72	57	57	76
SAU410-04	75	70	75	75	75	75	94	75	70	75	75	94	75	75	99
CALICAO			0.5	0.5	0.5									OF	122

						_	_	CC		
Attachment	Р		_ C		•	P	2	CZ		
Model	A1 A2		A1	A1	A2	A1	A2	A1	A2	
SAU220	43	43	43	43	43	43	43	73	73	
SAU320	57	57	57	57	57	57	57	75	135	
SAU420-04	75	70	75	75	75	75	94	75	70	
SAU420-06	75	75	_	_	_	_		_	_	
SAU610	95	95		95	95	95	95			

Attachment	Р		С			S			PS		CS		
Model	A1	A1 A2		A1	A2	A1	A2	A1	A2	A3	A1	A2	A3
SAU230	43	43	43	83	43	43	43	43	43	61	43	83	43
SAU330	57	57	57	106	57	57	57	57	57	76	57	106	57
SAU430-04	75	75	75	135	75	75	75	75	75	99	75	135	75
SAU430-06	75	75	_					_			_		

Attachment	Р	S		PS	
Model	A1	A2	A3	A1	A2
SAU240	43	43	43	43	61
SAU340	57	57	57	57	76
SAU440	75	75	75	75	99

SAU400-06 SAU600

Attachment	F)	(-		S			PS			CS	
Model	A1	A2	A3	A1	A2	A1	A2	A1	A2	A3	A1	A2	A3
SAU250	43	43	43	83	43	43	43	43	43	61	43	83	43
SAU350	57	57	57	106	57	57	57	57	57	76	57	106	57
SAU450-04	75	75	75	135	75	75	75	75	75	99	75	135	75
SAU450-06	75	75	_	_	_	_	_	_	_	_	_	_	_

Attachment	Р	S		S PS	
Model	A1	A2	A3	A1	A2
SAU260	43	43	43	43	61
SAU360	57	57	57	57	76
SAU460	75	75	75	75	99

- ${\tt L1:Dimension}$ from the end of the IN side to the center of the mounting hole for the first bracket
- ${\tt L2}$: Mounting hole between the first and the second brackets
- L3: Mounting hole between the second and the thrid brackets L4: Mounting hole between the thrid and the fourth brackets
- * Product attachment order or Bracket dismissed location is recommended.

Troubleshooting

• FILTER

Condition	Trouble Cause	Solution		
Flow decreases because of large amount of pressure drop.	The orifice of the filter element is clogged.	Elements should be changed.		
Condensed water is exhausted on the secondary side right after filtering.	Condensed water reaches to the place of drain element.	Drain should be opened.		
	Clamp ring is loosened.			
Air leaks at the connecting part of a bowl.	Flaw is on the O-ring.	Clamp ring should be locked by turning. If air is still leaking after locking, shut off the air source and change the damaged		
	Damaged bowl.	part.		
Draining function is not working when the drain is opened.	Solid foreign substances are clogging the drain pipe.	Cleaning exhaust pipe is required.		
	A drain valve is loose.	Drain valve should be locked. If air is still leaking after locking, shut off air and change the damaged part.		
Air leaks at a drain valve.	Foreign substances is inserted into the seat of drain valve or seat is damaged.			
	The bowl attached to the drain valve is damaged.			
	Float is not operating smoothly because of bent float attached.	After examining its position, fix the bent part.		
	A nozzle is filled with dust.	After shutting off air, disassemble and clean in order.		
Condensed water is not drained when auto drain attached type used.	Operating parts such as valve, etc., are not working because of rust or some other substances.			
	Splashing of oil, etc. in the drain to a float interferes with normal operation.			
	A valve seat is damaged.	After shutting off air, disassemble and clean or change the damaged part.		
Condensed water is constantly drained after once drained when auto drain attached type used.	Operating parts such as valve, etc., are not working because of rust or some other substances.			
acto arum attached type used.	Splashing of oil, etc. in the drain to a float interferes with normal operation.			

Troubleshooting

REGULATOR

Condition	Trouble Cause	Solution	
	The flow direction between the first side and the second side is reversed.	Direction of flow on both sides should be changed to the correct direction.	
	A regulating spring is broken	Disassemble and replace damaged parts. Disassemble and clean parts.	
	A valve spring is broken.		
Regulating pressure is difficult.	A rubber lining of a valve body is broken.		
	A diaphragm is broken.		
	Foreign substances is adhered to valve seat.		
	Foreign substances is adhered to the part generating kinetic friction of valve body, so valve body is stuck.		
The secondary pressure is not	Foreign substances are adhered to valve seat.	Disassemble and clean parts.	
decreasing after unlocking the regulating spring by turning	A valve spring is broken.	Disassemble and replace damaged parts.	
the handle.	A valve and a rubber lining are broken.		
Air leaks around the exterior	The connecting screw at the upper cover is loose.	Tighten screw.	
circumference of diaphragm.	A diaphragm is broken.	Replace damaged diaphragm.	

Troubleshooting

• LUBRICATOR

Condition	Trouble Cause	Solution			
	Lubricator is not selected properly according to needed size.	Rechecking the application terms for air flow and least loading amount is required. If necessary, change the size.			
	The direction of flow is reversed.	Change direction of flow to the correct direction.			
Oil is not accumulated in spite	Regulating loading valve is tightened up excessively.	Proper regulating is required.			
of air flowing.	Excess oil in the bowl. (over the maximum limit indicated)	Adjust flow rate to the proper range.			
	Oil in the bowl is deficient. (less than the lowest limit indicated)				
	Oil passages like oil pipes or accumulating pipes are filled with dust.	Disassembly, inspection and cleaning are required.			
	Regulating screws are excessively loose.	Proper regulating is required.			
Flow is hardly regulated.	Regulating screws are hardly tightened because of dust around them.	Disassembly, inspection and cleaning			
	Regulating screws or seat parts get flaw.	are required.			
Oil leaks at regulating	Regulating screws are excessively loose.	Proper regulating is required.			
screw parts.	O-ring is damaged.	Replace damaged parts.			
	A clamp ring is loose.	If air is still leaking after tightening the clamp ring, disassemble after shutting off and discharging all air from system.			
Air leaks at connecting part of bowl.	O-ring is damaged.				
	A bowl is damaged.	Replace damaged parts.			

F.R.L. Units Precautions

⚠ Safety Instructions

Be sure to read before handling.

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards (ISO)¹⁾, KS²⁾ and other safety regulations.

∆ CAUTION	indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
⚠WARNING	indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
⚠DANGER	indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

1) ISO 4414: Pneumatic fluid power -- General rules relating to systems.

2) KS B 6376 : 공기압 시스템 통칙

Design / Selection

⚠WARNING

- Pneumatic system design and device specifications selection should be done by the person with professional knowledge.
- Products represented in this catalog are designed only for use in compressed air systems. Please contact SKP when using a fluid other than compressed air
- Do not operate at pressures or temperatures, etc., beyond the range of specifications, as this can cause damage or malfunction. (Refer to the specifications.)
 - We do not guarantee against any damage if the product is used outside of the specification range.
- The standard bowl for the air filter, filter regulator, and lubricator, as well as the sight dome for the lubricator are made of polycarbonate. Do not use in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- Do not use in such a way as to frequently fill in or release the pressure from the standard bowls such as the air filter, filter regulator, lubricator, etc. Damage to the bowl may occur. A metal bowl is recommended in these cases.
- Do not disassemble the product or make any modifications, including additional machining. It may cause human injury and/or an accident.

^CAUTION

■ The mineral grease used on internal sliding parts and seals may come in contact with outlet side components.

Air Supply

∴WARNING

- Please consult with SKP when using the product in applications other than compressed air.
- If condensation in the drain bowl is not emptied on a regular basis, the bowl will overflow and allow the condensation to enter the compressed air lines. It causes malfunction of pneumatic equipment. If the drain bowl is difficult to check and remove, installation of a drain bowl with an auto drain option is recommended.

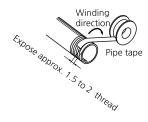
Mounting

MARNING

- When installing the products, allow access for maintenance.
- Tighten threads with the proper tightening torque. Insufficient tightening torque may cause loosening or defective sealing. Over-tightening torque may damage the thread etc.

^CAUTION

- When connecting the piping, avoid interchanging the IN and the OUT sides. Reversed connections can cause malfunction.
- When screwing piping or fittings into ports, ensure that chips from the pipe threads or sealing material do not enter the piping. Also, if pipe tape is used, leave 1.5 to 2 thread ridges exposed at the end of the threads.



• Components with a bowl, e.g., air filter, filter regulator, lubricator, must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.

Operating Environment

↑ WARNING

- Do not operate under the conditions listed below due to a risk of malfunction.
 - 1) In locations having corrosive gases, organic solvents, and chemical solutions, or in locations in which these elements are likely to adhere to the equipment.
 - 2) In locations that are exposed to direct sunlight.
 - 3) In locations that have a heat source and poor ventilation.
 - 4) In locations that are exposed to shocks and vibrations.
 - 5) In locations with high humidity or a large amounts of dust.
- Adhere to the specified fluid temperature and ambient temperature ranges.
 Using the equipment outside of its specification range could cause it to be damaged, malfunction, or operate improperly.

Maintenance

⚠WARNING

- If handled improperly, compressed air can be dangerous.
 Assembly, handling, repair and element replacement of pneumatic systems should be performed by a knowledgeable and experienced person.
- Do not remove components until safety is confirmed.
- Remove drainage from air filters regularly.

⚠ CAUTION

■ Perform periodical inspections of the filter element and replace it as necessary. Check the element whenever the outlet pressure drops below normal or air does not flow smoothly during operation.