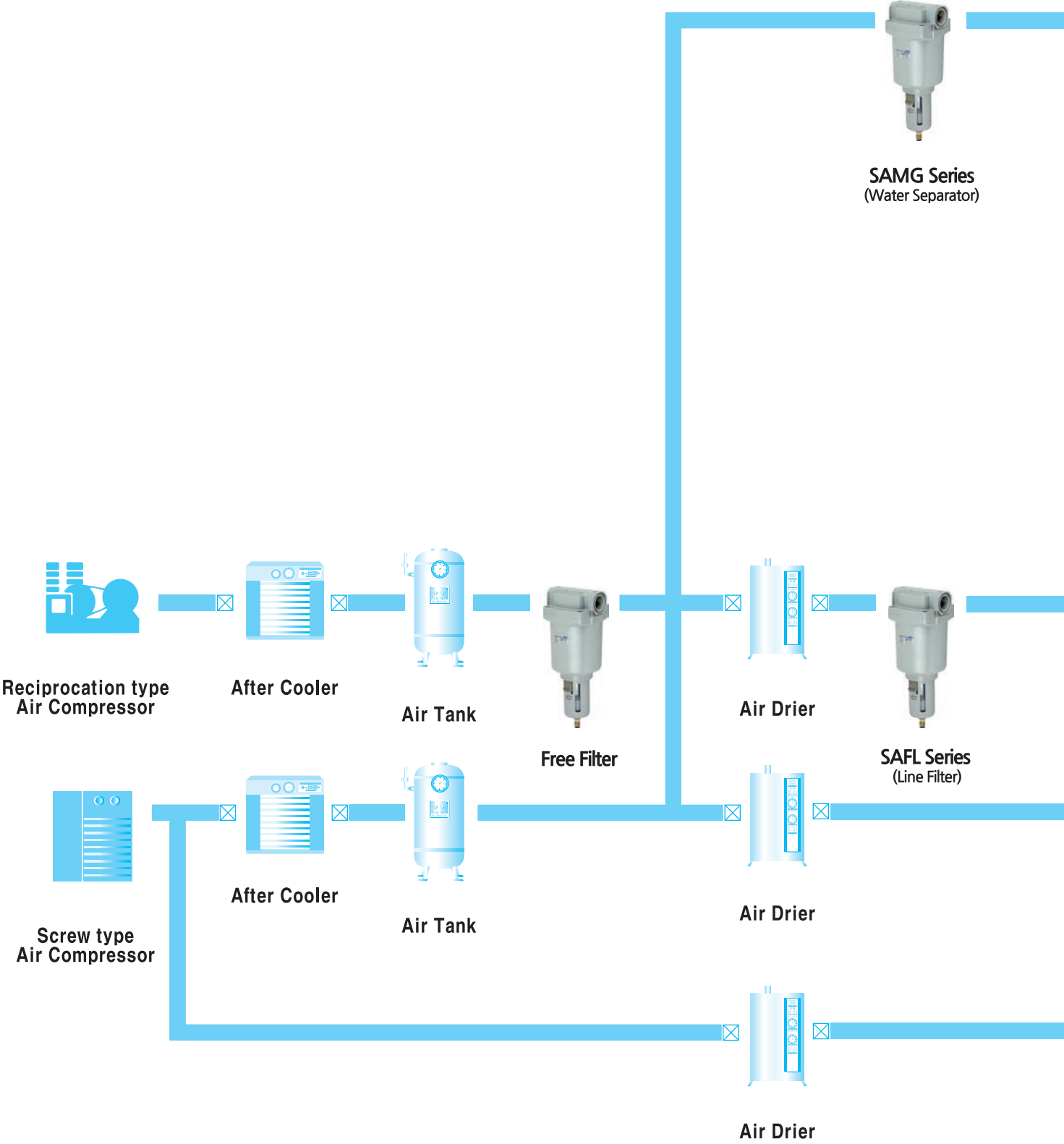


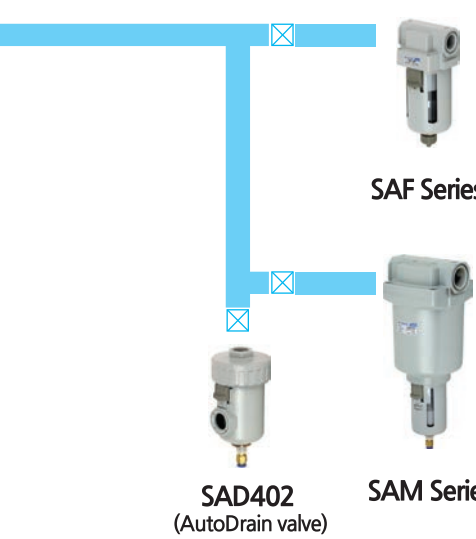
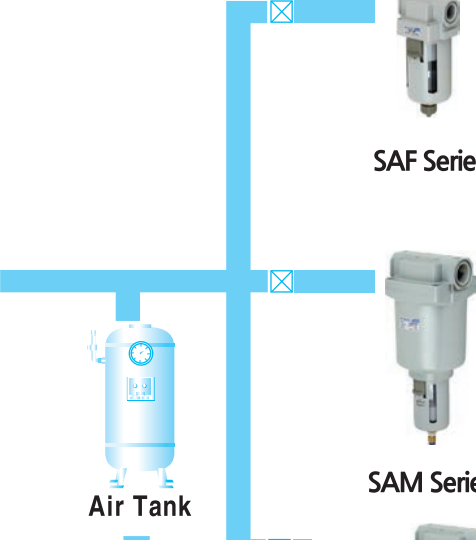
Air Cleaning Equipment



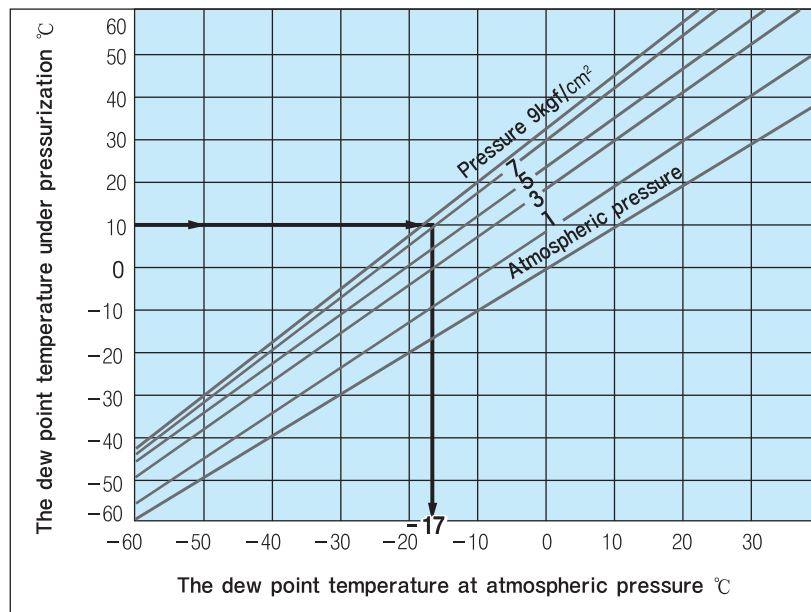
■ SAMU(Micro Separator Unit)	15
■ SAMG(Water Separator)	19
■ SAFL (Main Line Filter)	24
■ SAM (Mist Separator)	29
■ SAMD(Micro Mist Separator)	34
■ SAMH(Micro Mist Separator with Prefilter)	39
■ SAD402(Auto Drain Valve)	44
■ Bracket for Micro Filter	46

Selection Guide for Cleaning System

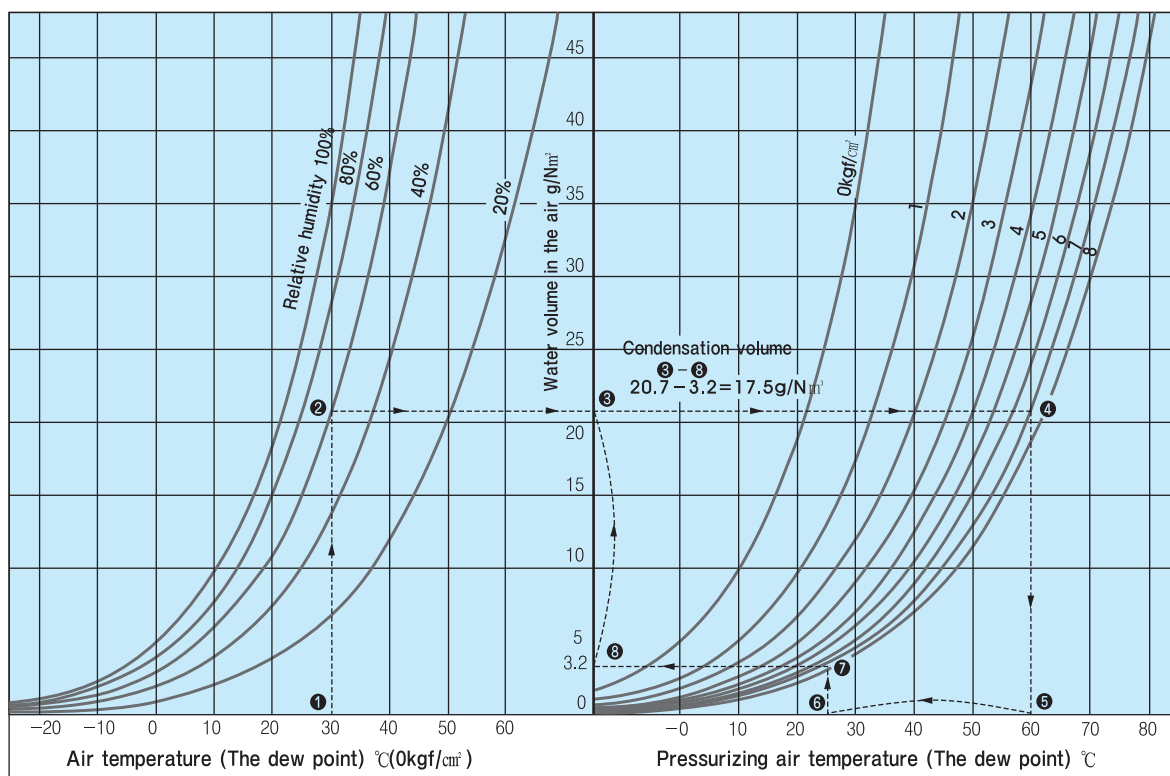


	System	Quality of compressed air	Impurities in compressed air				Application
			Moisture	Solid	Oil	Smell	
 SAF Series SAD402 (AutoDrain valve) SAM Series	Air filter	Including some moisture, oil and dust	Humidity 100%	5 μ m etc. 2, 10, 20, 40, 70, 100	5 mgf/N m ³	Oily	- General industrial automatic equipments - Air vise, Chuck - Usual cleaning system (Air gun etc.)
	Mist separator	Including some moisture generated by temperature drop. Excluding dust and oil	Humidity 100%	0.1 μ m	1 mgf/N m ³	Oily	- General industrial machinery (Metal seal of operating parts) - Industrial robots.
 SAF Series SAM Series Air Tank	Air filter	Including some dust and oil. Excluding moisture.	Less than -17°C of the dew point at the atmospheric pressure	5 μ m etc. 2, 10, 20, 40, 70, 100	5 mgf/N m ³ (ANR)	Oily	- General industrial automatic equipments - Air vise, Chuck - Usual cleaning system (Air gun etc.)
	Mist separator	Excluding moisture, oil and dust	Less than -17°C of the dew point at the atmospheric pressure	0.1 μ m	1 mgf/N m ³ (ANR)	Oily	- System process - Usual painting - Usual freezing and drying equipments
 SAM & SAMD Series SAM & SAMH Series Air Tank	Mist separator Micro mist separator	Complete excluding moisture, oil and dust	Less than -17°C of the dew point at the atmospheric pressure	0.01 μ m	0.01 mgf/N m ³ (ANR)	Oily	- Air type instruments - Precision parts of drying and cleaning equipments
	Mist separator Free filter micro mist separator	Sufficient excluding moisture, oil and dust	Less than -17°C of the dew point at the atmospheric pressure	0.01 μ m	0.01 mgf/N m ³ (ANR)	Oily	- Electrostatic painting - High qualified painting - Air bearing

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/cm²(①→②→③→④→⑤)
- The moisture volume will be 17.5g/Nm² after cooling the damp air up to 25°C.(⑥→⑦→⑧→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			
		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



SAMU150



SAMU250

- 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

Symbol	Size	Body 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

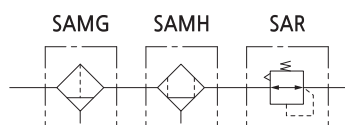
Nil - Metal bowl with flat type sight glass(MeF)
PcS - Polycarbonate bowl with Steel guard
MeP - Metal bowl with pipe type sight glass

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

⑧ Option

Nil - None
S - Differential Pressure Indicator

Symbol



Specification

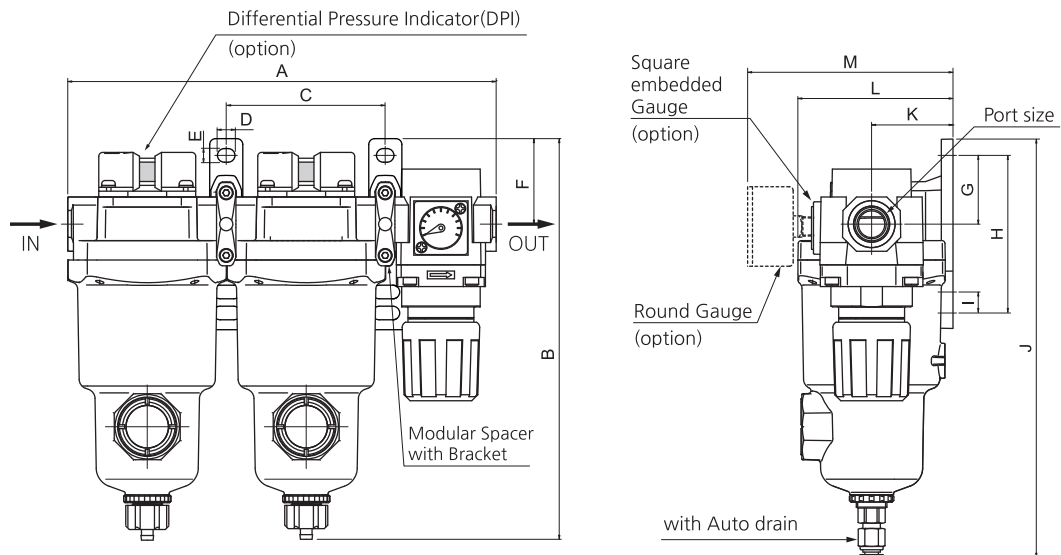
Composition	Water Separator + Micro Mist Separator with Prefilter + Regulator
Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	-5 ~ 60°C (No freezing)
Regulating range(SAR)	0.5~8.5bar (0.05~0.85MPa)
Filtration	SAMG(99% Removal rate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

Precautions

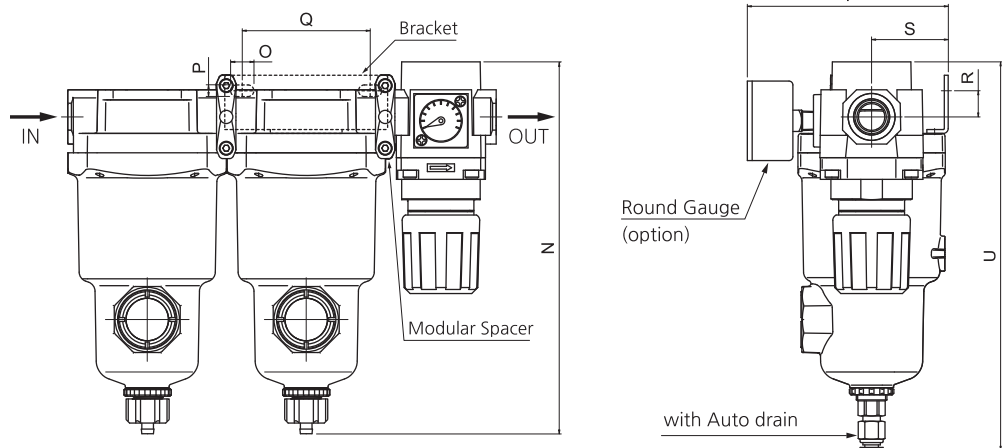
- ① Please consult with SKP when using the product in applications other than compressed air.
- ② Filter element should be changed after 2years of using or when pressure drop reached at 1bar(0.1MPa).
- ③ Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge 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.
- ⑥ 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.
- ⑦ When auto drain is used it is recommended to use at least 1.5bar pressure.
- ⑧ When auto drain is out of order, it is possible to drain manually by operating one-touch fitting vertically upwards.

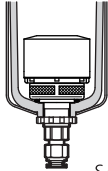
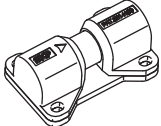
DIMENSIONS (mm)

SAMU 150~250



■ Dimensions of each model with an option attached

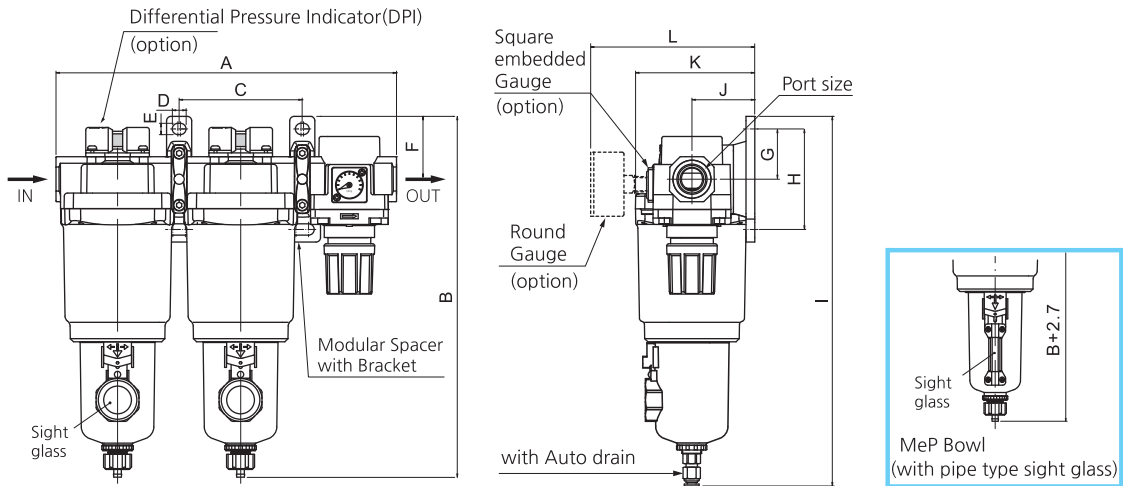


Option	D : Auto Drain	Gauge		S : Differential Pressure Indicator
		G : Round type	Gs : Square embedded type	
품명	 SAD400	 G40, R1/8	 Gs28	

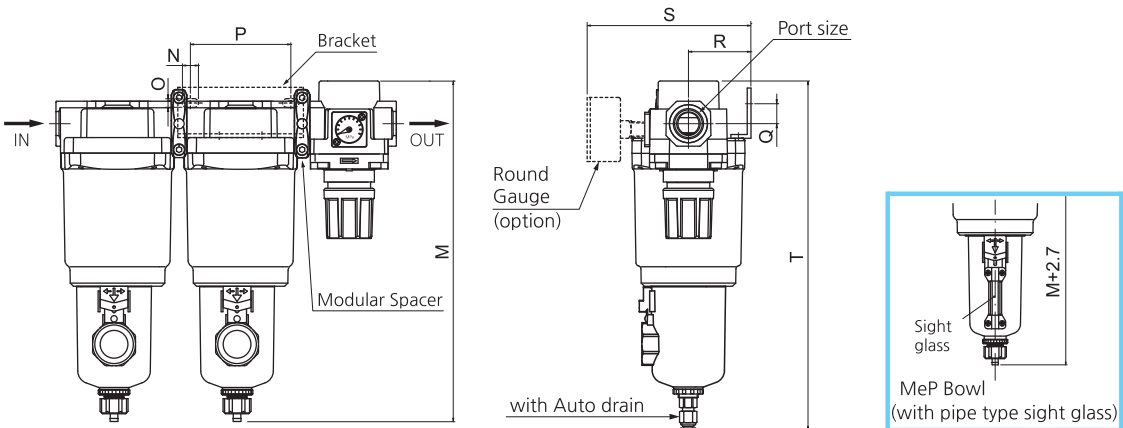
Model	Port size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
SAMU150	1/4	177	178	67	6.5	5.5	30	24	57	9	185	35	66.5	90	176	9.5	6	56	19.7	33.6	88.6	183
SAMU250	3/8	221	207	82	9	7	43.3	35	70	—	214	41	79	99	192	12	6	66	13.5	39.5	97.5	199

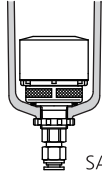
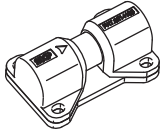
DIMENSIONS (mm)

SAMU 350~550



■ Dimensions of each model with an option attached



Option	D : Auto Drain	Gauge		S : Differential Pressure Indicator
		G : Round type	Gs : Square embedded type	
Model	 SAD400	 G50, R1/4	 Gs28	

Model	Port size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
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



SAMG550

SAMG450

SAMG350

SAMG250

SAMG150

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)
N - NPT
G - G(PF)

④ Port Size

Symbol	Size	Body 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	1 1/4						●	
14	1 1/2						●	●
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℃
Removal rate of water	99%
Life of element	When pressure drop reached at 1bar

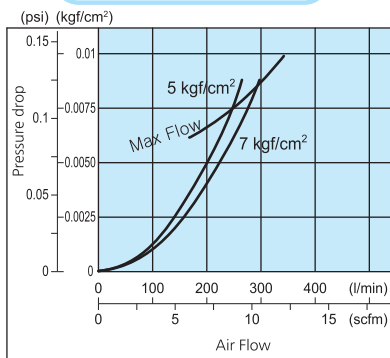
Precautions

- ① Water separator can remove water droplets, but it cannot remove moisture.
- ② Filter element should be changed after 2years 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.

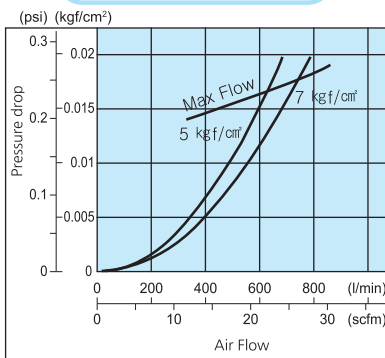
FLOW CHARACTERISTICS

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

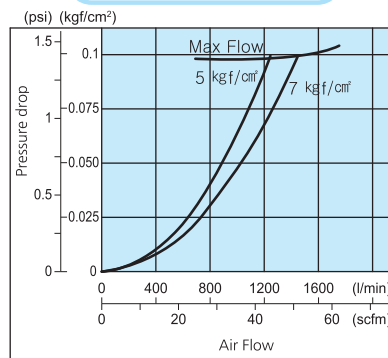
SAMG 150



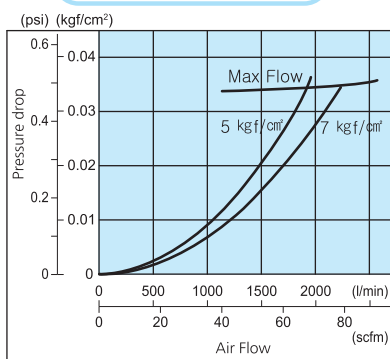
SAMG 250



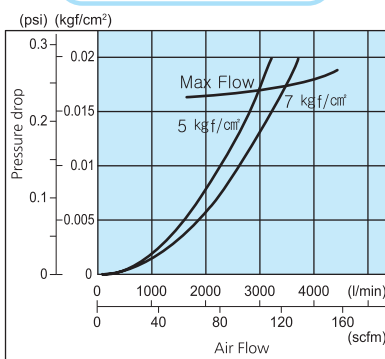
SAMG 350



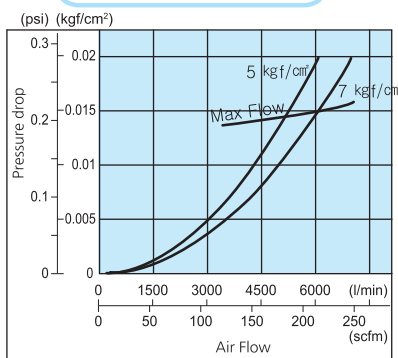
SAMG 450



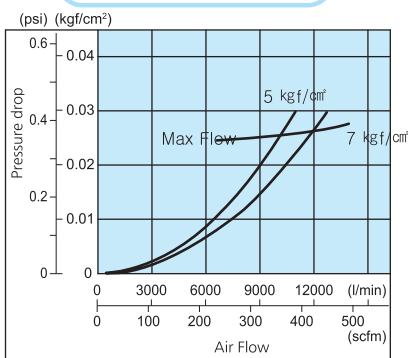
SAMG 550



SAMG 650

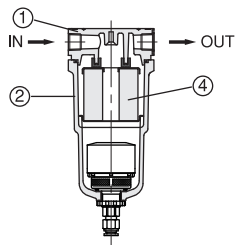


SAMG 850

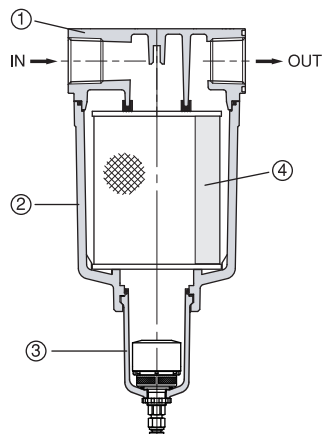


STRUCTURE / PARTS

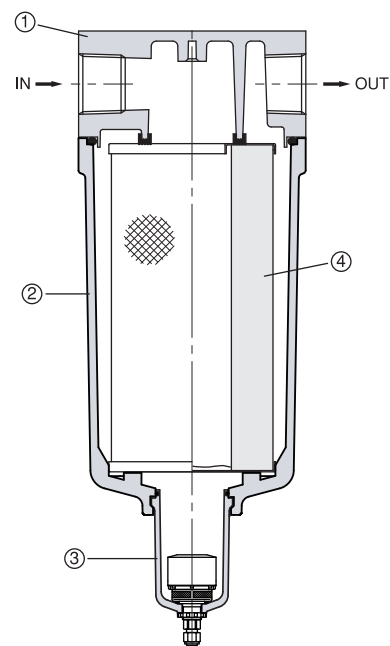
SAMG 150~250



SAMG 350~550



SAMG 650~850



Component Parts

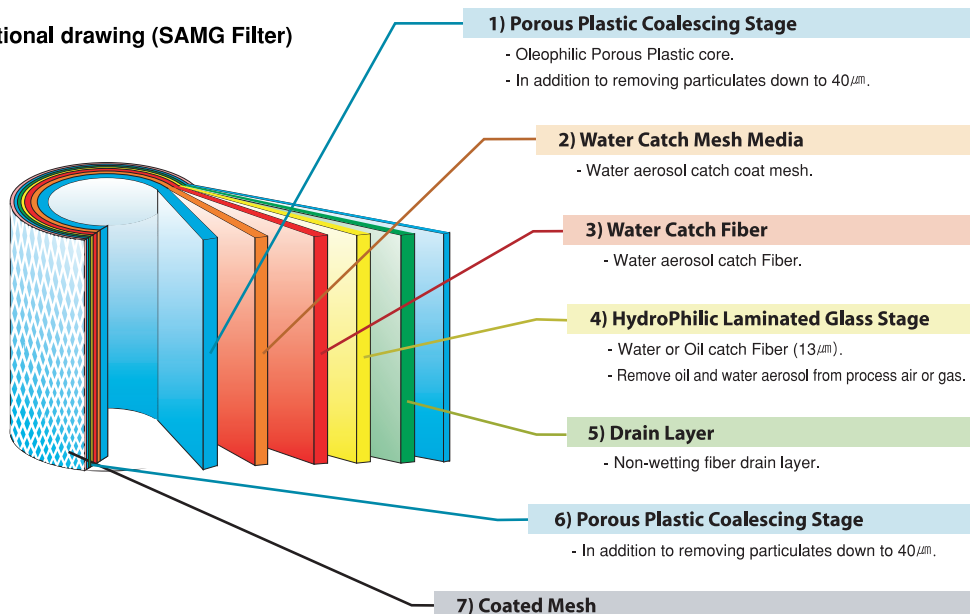
No.	PARTS	MATERIAL
①	Body	ALDC
②	Housing	ALDC
③	Bowl Ass'y	ALDC(MeP type)
		ALDC(MeF type)

Replacement Parts

(mm)

No.	PARTS	Part No. & Size(Φ x Height)						
		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

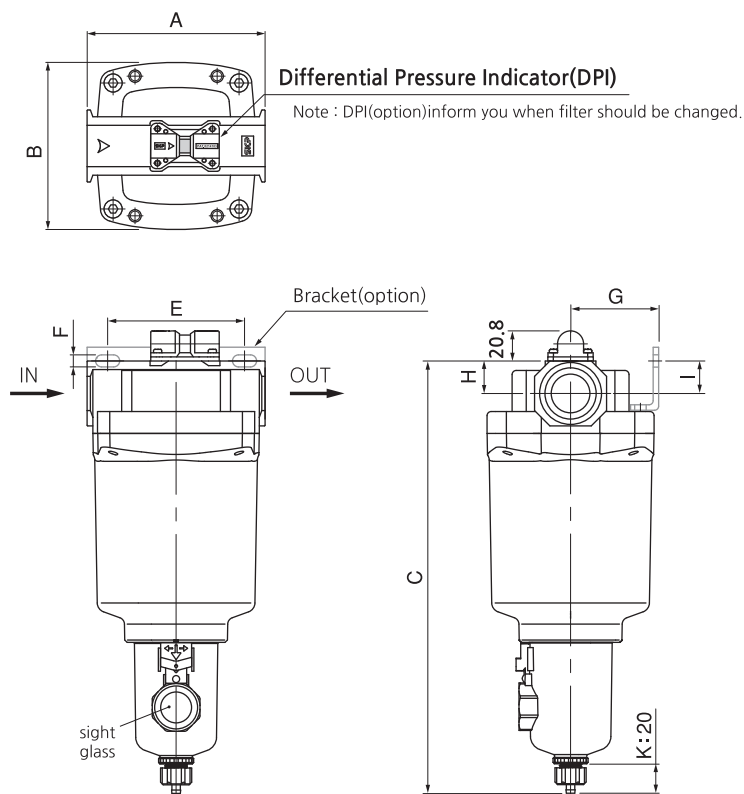
Sectional drawing (SAMG Filter)



Series SAMG

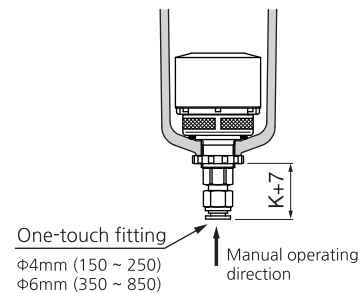
DIMENSIONS (mm)

SAMG 150~550

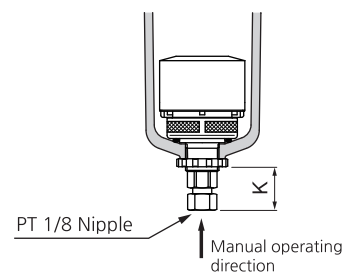


Auto Drain (option)

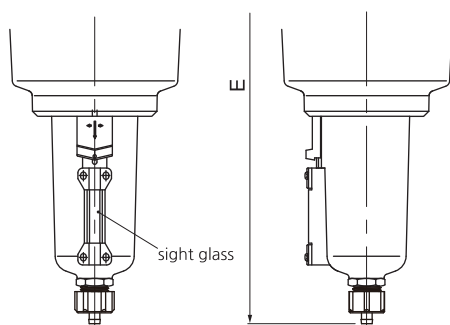
D : Auto Drain with one-touch fitting



Dn : Auto Drain with Nipple



- MeP - Metal Bowl with pipe type sight glass

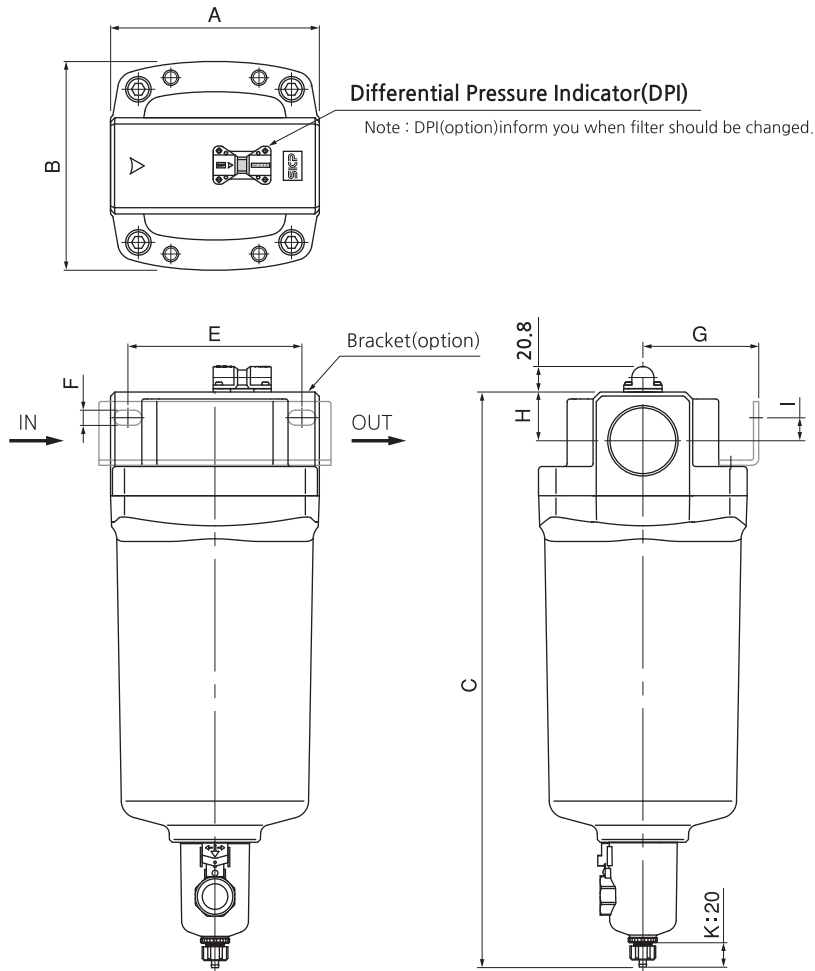


Note : 150 and 250 are the integral cover and bowl(MeF type)

Model	Port size	A	B	Height(manual drain)		E	F	G	H	I
				C(MeF)	D(MeP)					
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

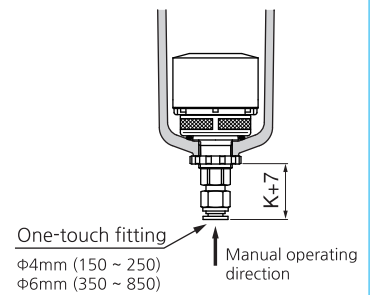
DIMENSIONS (mm)

SAMG 650~850

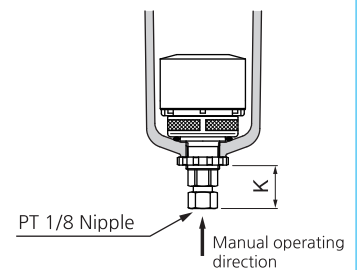


Auto Drain (option)

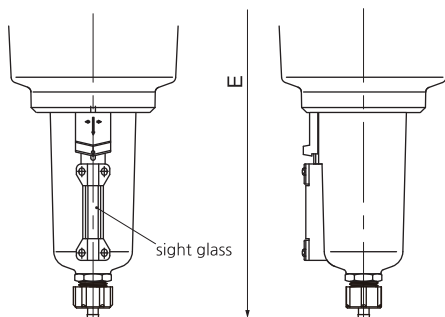
D : Auto Drain with one-touch fitting



Dn : Auto Drain with Nipple



- **MeP** - Metal Bowl with pipe type sight glass



Model	Port size	A	B	Height(manual drain)		E	F	G	H	I
				C(MeF)	D(MeP)					
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

SAFL 350 - 03 BD - MeP - S

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

Symbol	Size	Body 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	1 1/4						●	
14	1 1/2						●	●
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°C
Filtration	1μm (Filtration efficiency: 99%)
Life of element	When pressure drop reached at 1bar

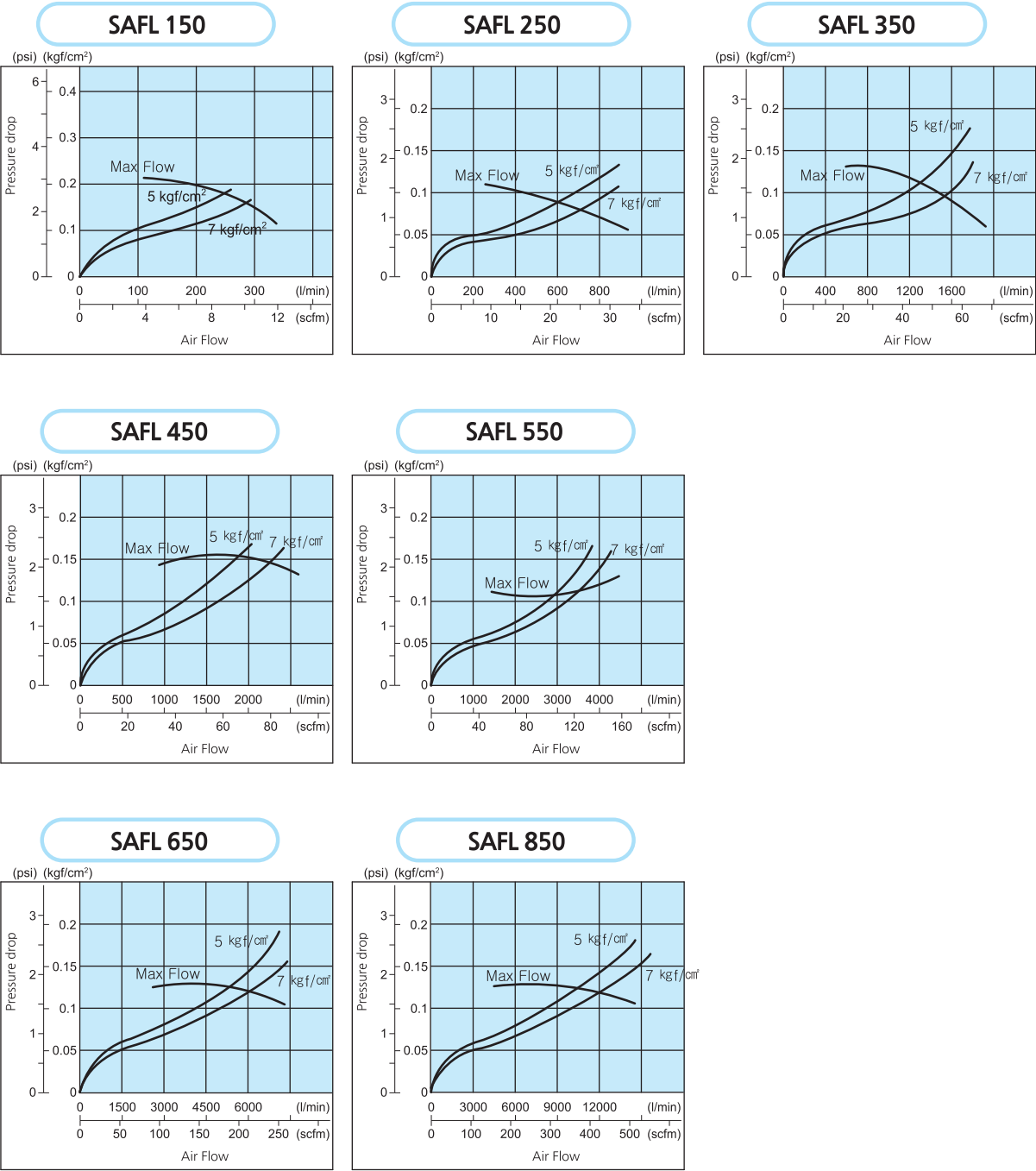
Precautions

- 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.
- 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.
- 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

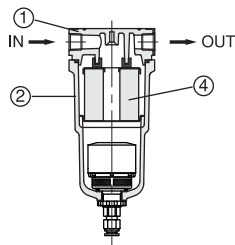
Oil saturated state of element

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

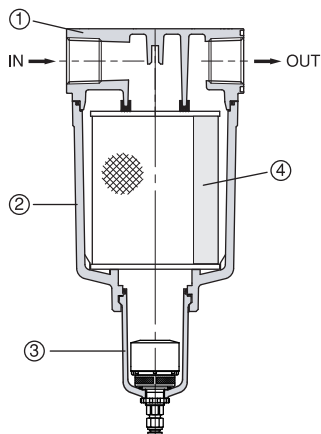


STRUCTURE / PARTS

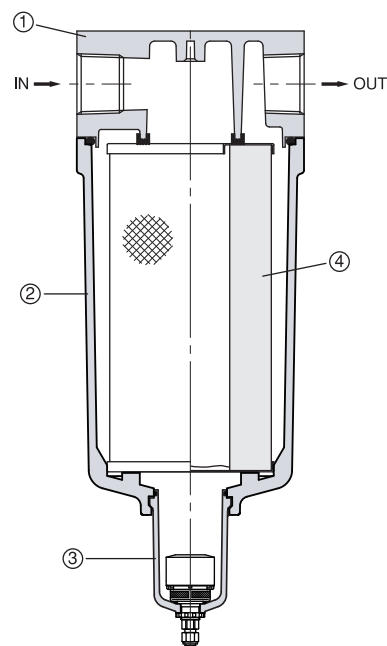
SAFL 150~250



SAFL 350~550



SAFL 650~850



Component Parts

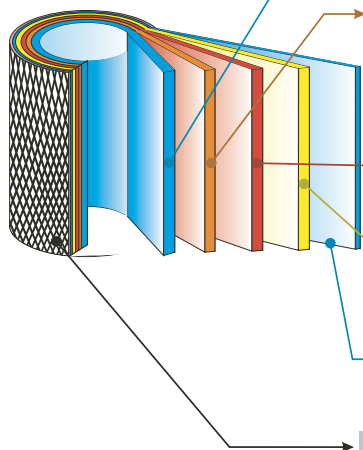
No.	PARTS	MATERIAL
①	Body	ALDC
②	Housing	ALDC
③	Bowl Ass'y	ALDC(MeP type) ALDC(MeF type)

Replacement Parts

(mm)

No.	PARTS	Part No. & Size(Φ x Height)						
		AFL-EL150	AFL-EL250	AFL-EL350	AFL-EL450	AFL-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

Sectional drawing (SAFL Filter)



1) Porous Plastic Coalescing Stage

- Oleophilic Porous Plastic core.
- In addition to removing particulates down to 40 μ m.

2) Remove Oil Media

- 0.3 μ m remove oil micro fiber media.
- Coalescing element designed to remove oil and water aerosol from process air or gas.

3) Main Media

- Three element choices(0.01 μ m (AMD), 0.1 μ m (AM), 1 μ m (AFL)).
- Pure borosilicate glass micro fiber.

4) Drain Layer

- Non-wetting fiber drain layer.

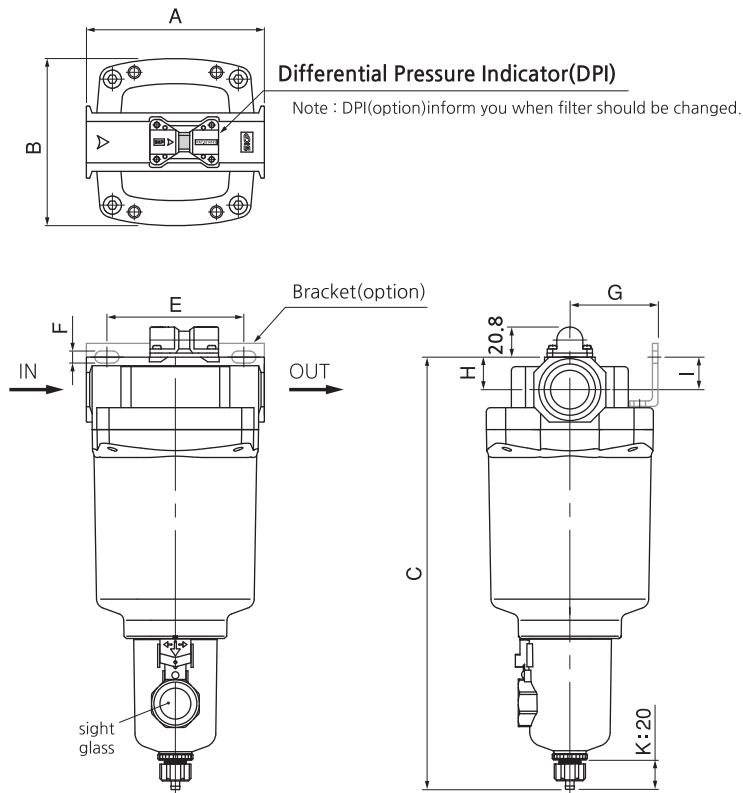
5) Porous Plastic Coalescing Stage

- In addition to removing particulates down to 40 μ m.

6) Coated Mesh

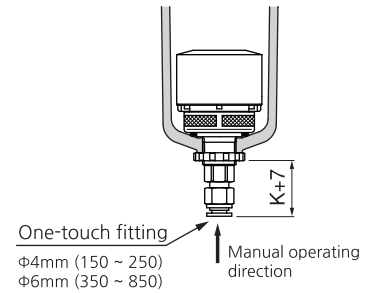
DIMENSIONS (mm)

SAFL 150~550

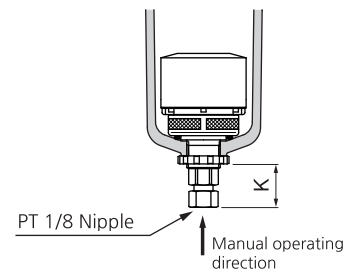


Auto Drain (option)

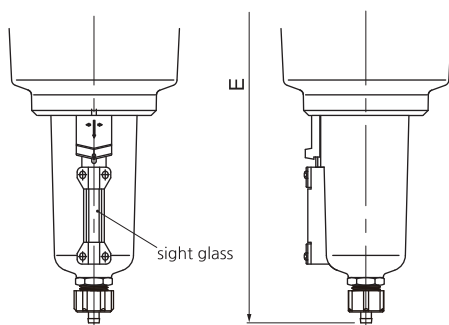
D : Auto Drain with one-touch fitting



Dn : Auto Drain with Nipple



- **MeP** - Metal Bowl with pipe type sight glass



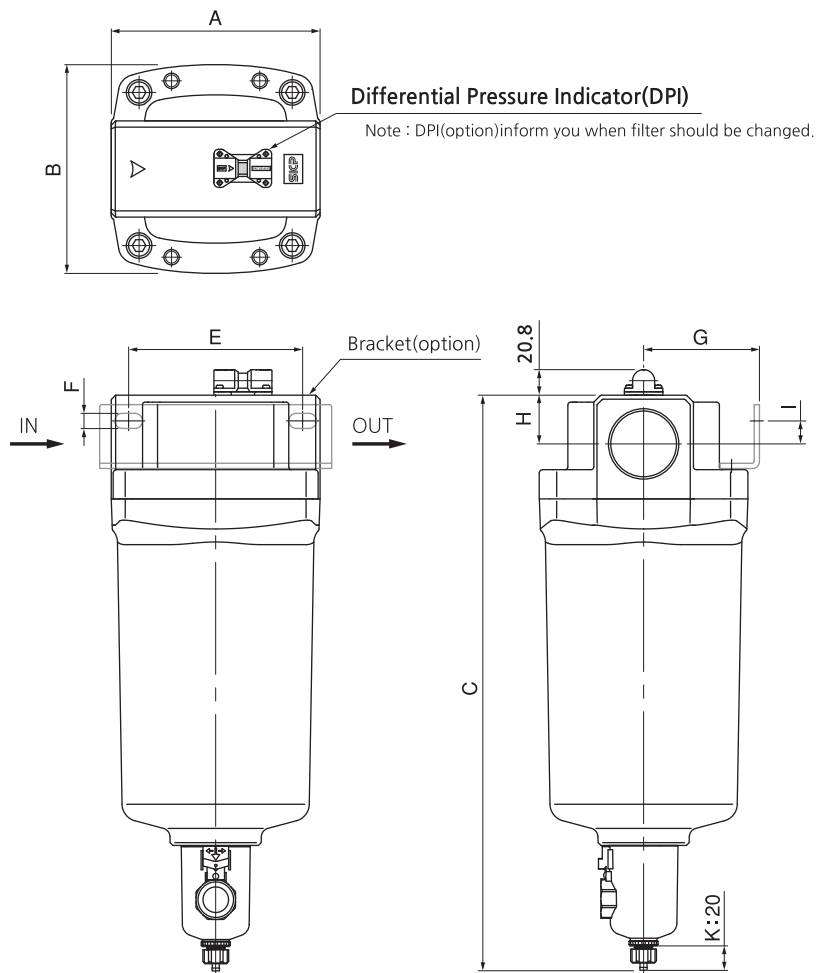
Note : 150 and 250 are the integral cover and bowl(MeF type)

Model	Port size	A	B	Height(manual drain)		E	F	G	H	I
				C(MeF)	D(MeP)					
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

Series SAFL

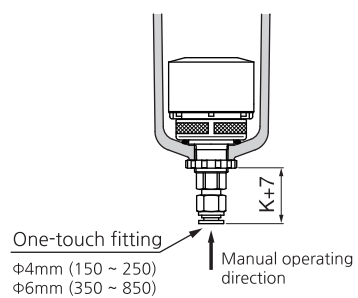
DIMENSIONS (mm)

SAFL 650~850

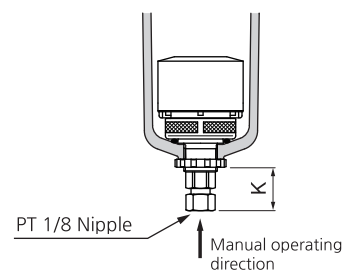


Auto Drain (option)

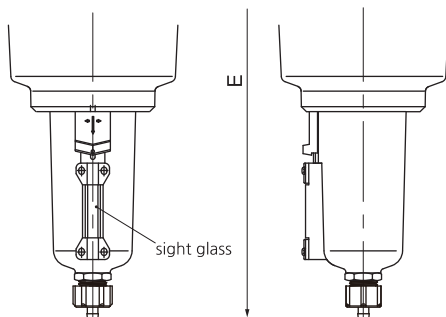
D : Auto Drain with one-touch fitting



Dn : Auto Drain with Nipple



- **MeP** - Metal Bowl with pipe type sight glass



Model	Port size	A	B	Height(manual drain)		E	F	G	H	I
				C(MeF)	D(MeP)					
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



SAM850



SAM350



SAM250

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

Symbol	Size	Body 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	1 1/4						●	
14	1 1/2						●	●
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℃
Filtration	0.1μm (Filtration efficiency: 99%)
Life of element	When pressure drop reached at 1bar

Precautions

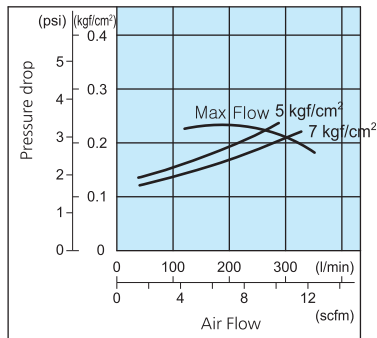
- ① Filter element should be changed after 2years of use or when pressure drop reached at 1bar(0.1MPa).
- ② When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- ③ When auto drain is used it is recommended to use at least 1.5bar pressure.
- ④ 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

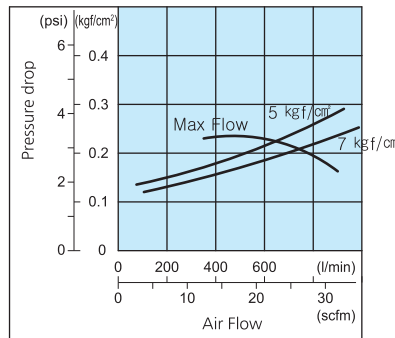
Oil saturated state of element

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

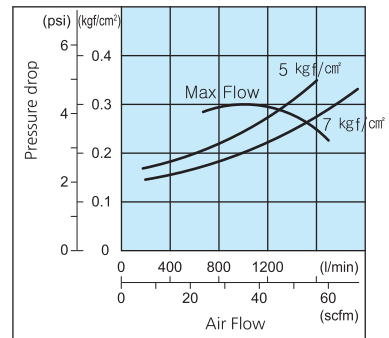
SAM 150



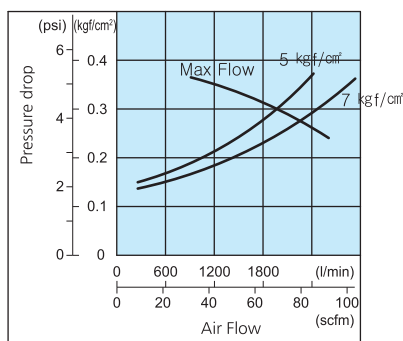
SAM 250



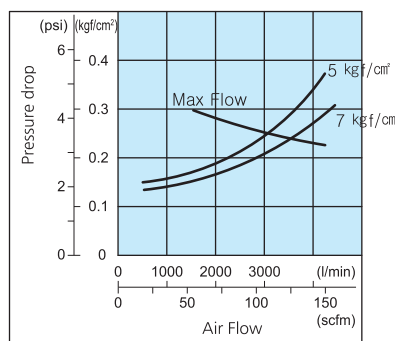
SAM 350



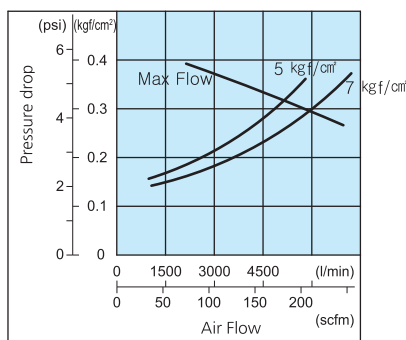
SAM 450



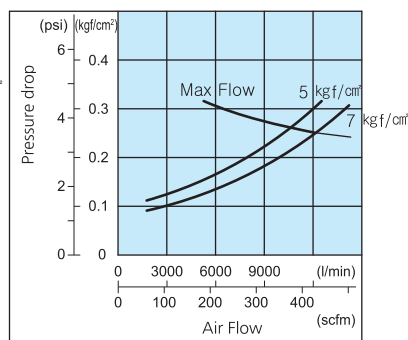
SAM 550



SAM 650

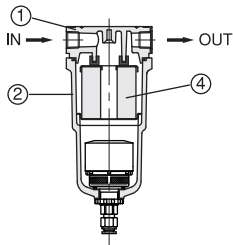


SAM 850

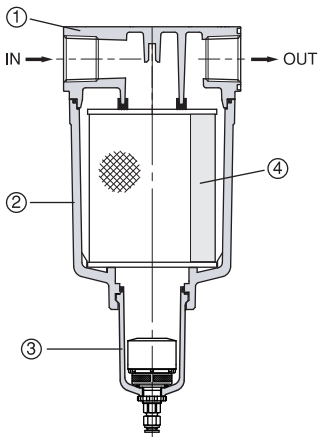


STRUCTURE / PARTS

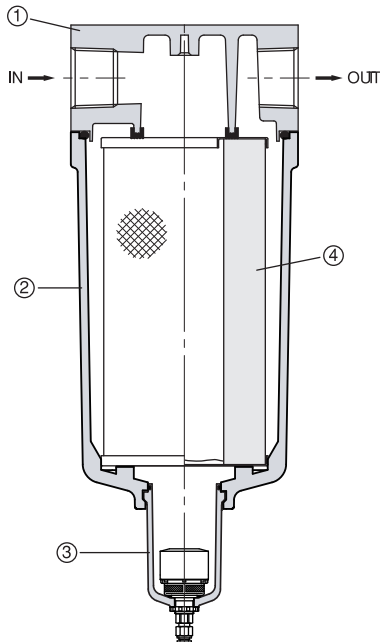
SAM 150~250



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.	PARTS	Part No. & Size(Φ x Height)						
		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

Sectional drawing (SAM Filter)

1) Porous Plastic Coalescing Stage

- Oleophilic Porous Plastic core.
- In addition to removing particulates down to 40μm.

2) Remove Oil Media

- 0.3μm remove oil micro fiber media.
- Coalescing element designed to remove oil and water aerosol from process air or gas.

3) Main Media

- Three element choices(0.01μm (AMD), 0.1μm (AM), 1μm (AFL)).
- Pure borosilicate glass micro fiber.

4) Drain Layer

- Non-wetting fiber drain layer.

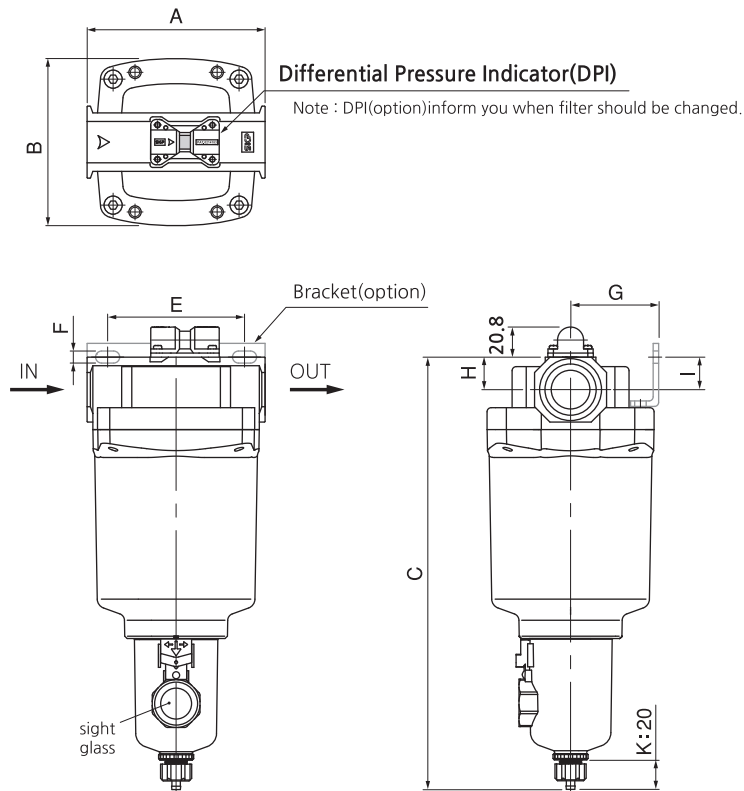
5) Porous Plastic Coalescing Stage

- In addition to removing particulates down to 40μm.

6) Coated Mesh

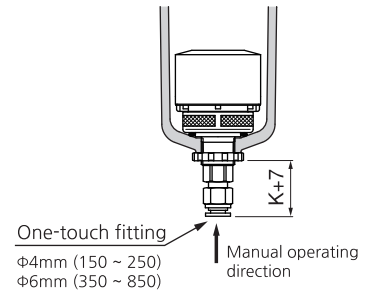
DIMENSIONS (mm)

SAM 150~550

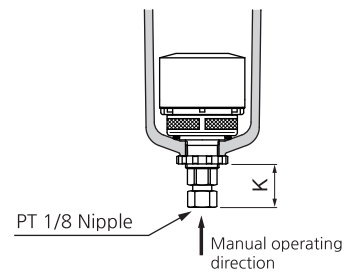


Auto Drain (option)

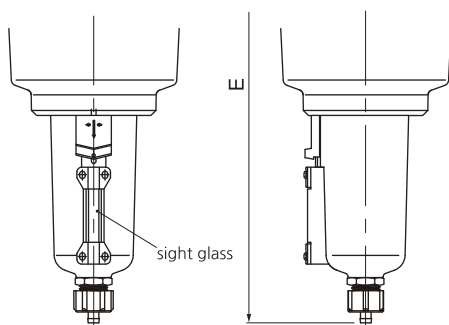
D : Auto Drain with one-touch fitting



Dn : Auto Drain with Nipple



- MeP - Metal Bowl with pipe type sight glass

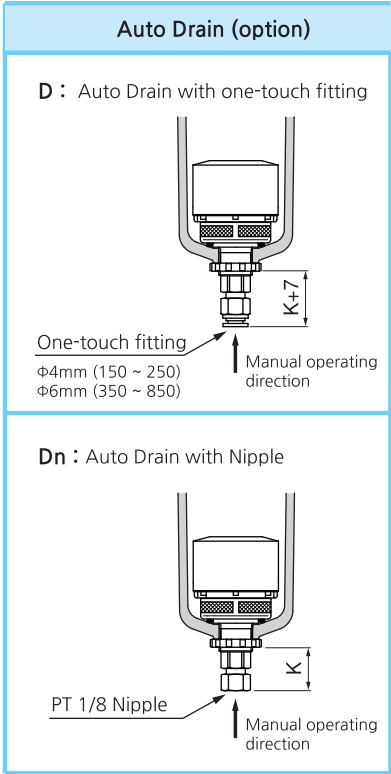
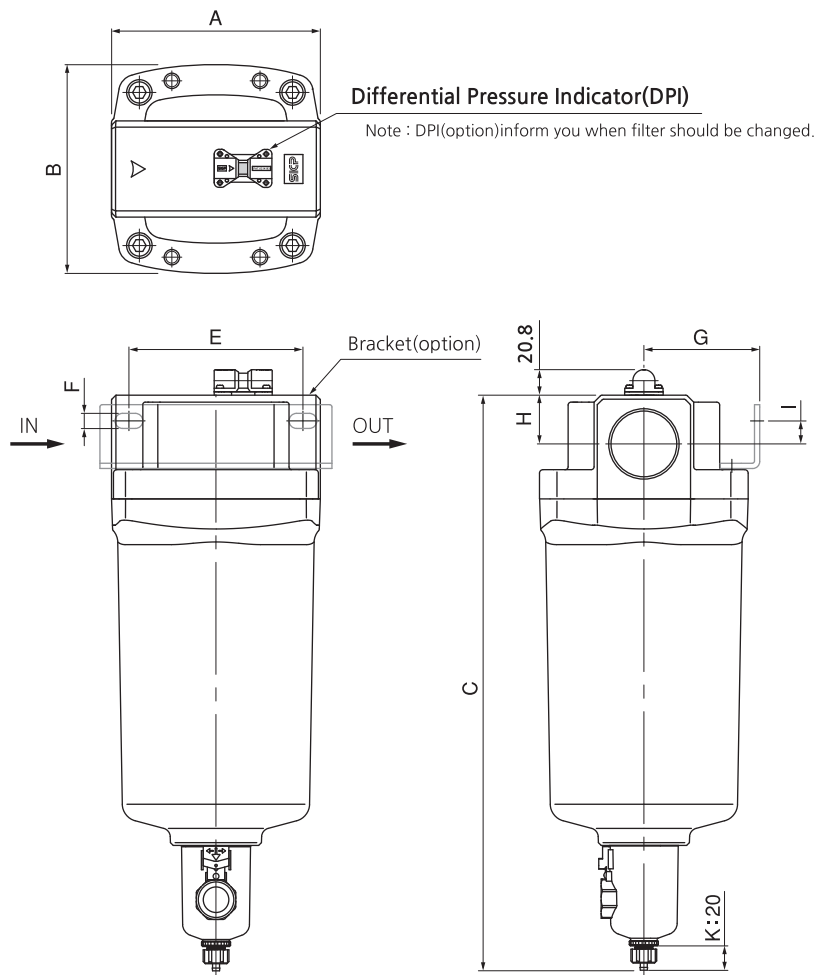


Note : 150 and 250 are the integral cover and bowl(MeF type)

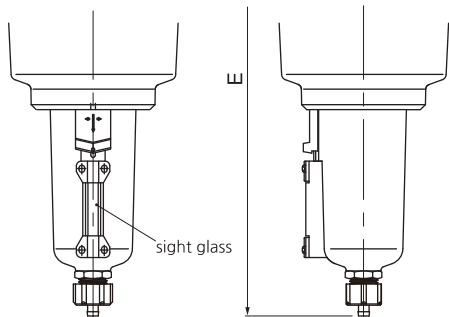
Model	Port size	A	B	Height(manual drain)		E	F	G	H	I
				C(MeF)	D(MeP)					
SAM 150	1/8, 1/4	67	66	158.5	-	56	6	33.6	10.5	19.7
SAM 250	1/4, 3/8	82	76	177.7	-	66	6	39.5	14	13.5
SAM 350	3/8, 1/2	98	90	253	273	80	7	49.8	17.9	15.9
SAM 450	3/4	114	106	271.3	291.3	90	9	56.2	19.8	15.3
SAM 550	3/4, 1	130	122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

DIMENSIONS (mm)

SAM 650~850



- **MeP** - Metal Bowl with pipe type sight glass



Model	Port size	A	B	Height(manual drain)		E	F	G	H	I
				C(MeF)	D(MeP)					
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



SAMD650



SAMD450



SAMD150

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

Symbol	Size	Body 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	1 1/4						●	
14	1 1/2						●	●
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

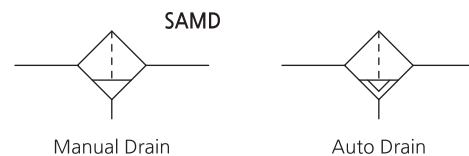
⑥ Bowl

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

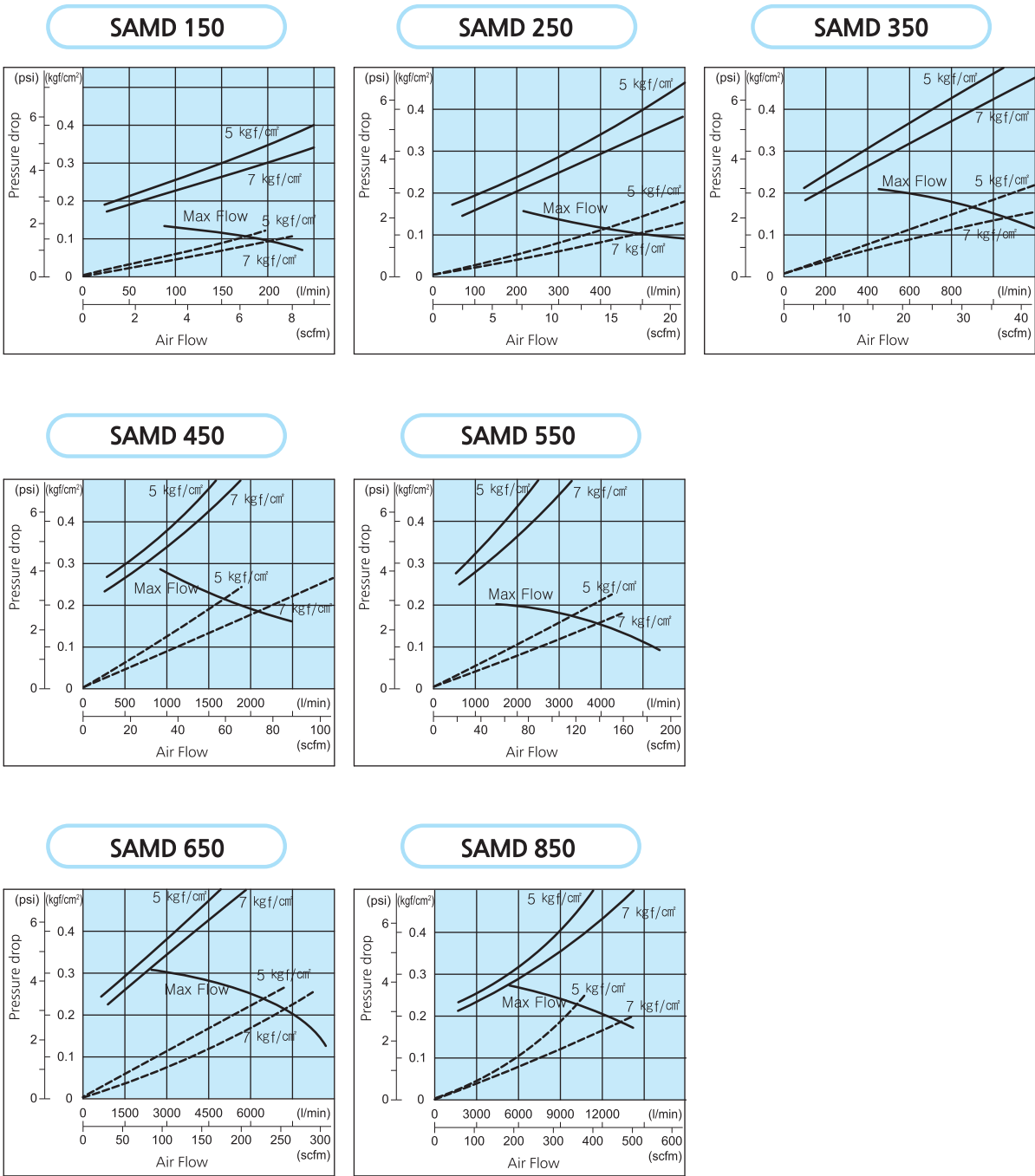
Precautions

- 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.
- 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.
- 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

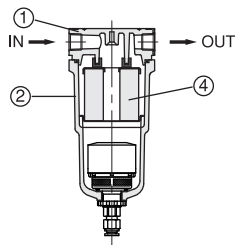
(—Element oil saturation ----Initial condition)

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.

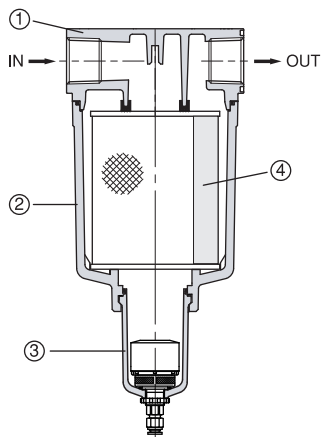


STRUCTURE / PARTS

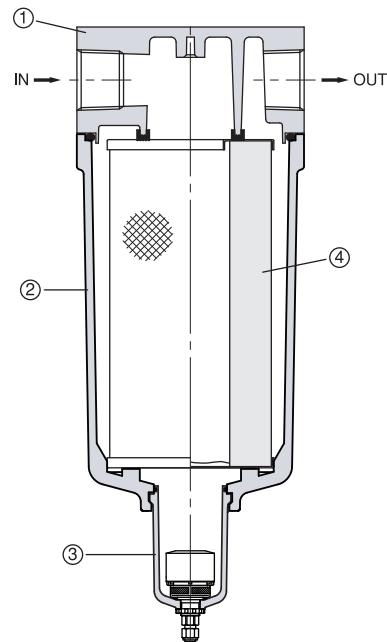
SAMD 150~250



SAMD 350~550



SAMD 650~850



Component Parts

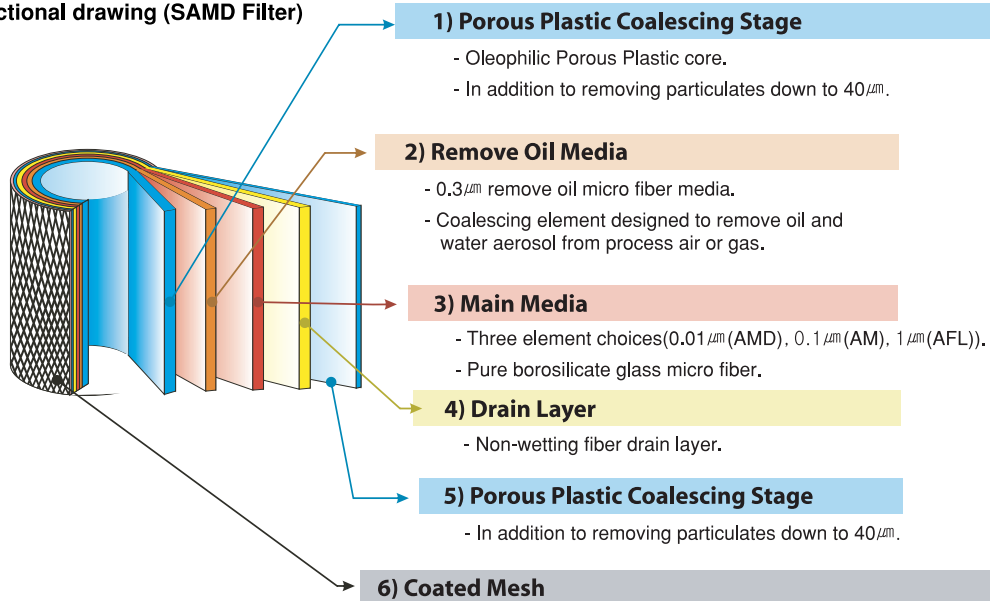
No.	PARTS	MATERIAL
①	Body	ALDC
②	Housing	ALDC
③	Bowl Ass'y	ALDC(MeP type)
		ALDC(MeF type)

Replacement Parts

(mm)

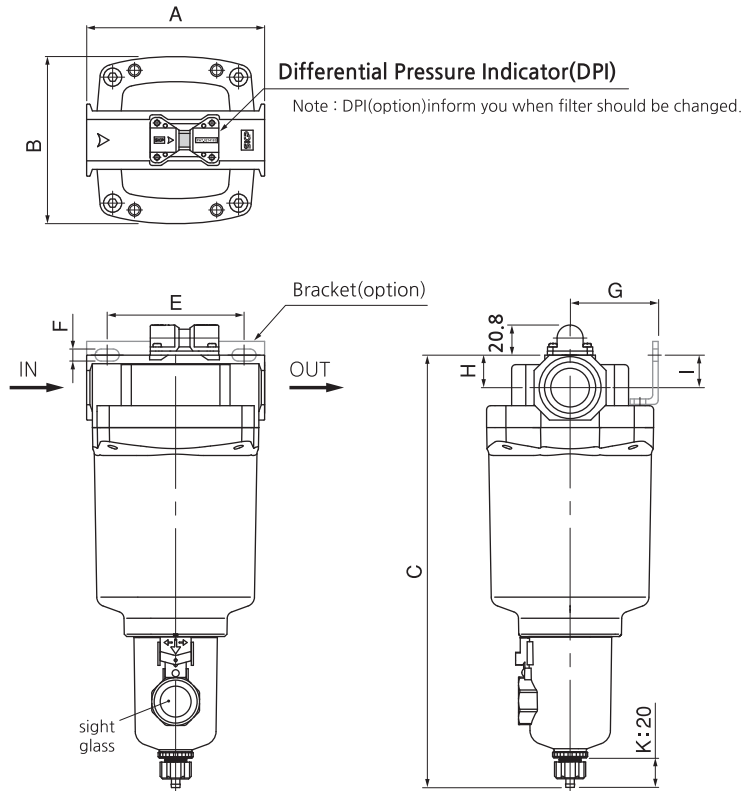
No.	PARTS	Part No. & Size(Φ x Height)						
		AMD-EL150	AMD-EL250	AMD-EL350	AMD-EL450	AMD-EL550	AMD-EL650	AMD-EL850
④	Filter	45 x 42	58 x 52.5	70 x 77	82 x 87	95 x 117	122 x 144	130 x 260

Sectional drawing (SAMD Filter)



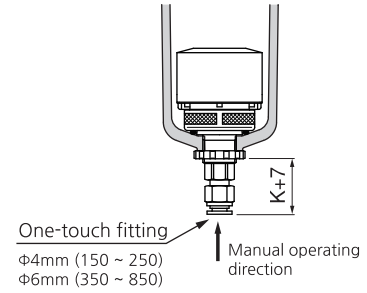
DIMENSIONS (mm)

SAMD 150~550

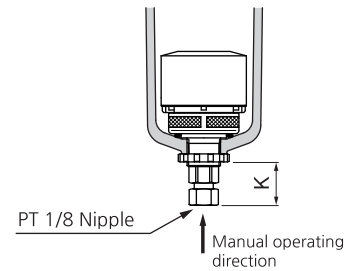


Auto Drain (option)

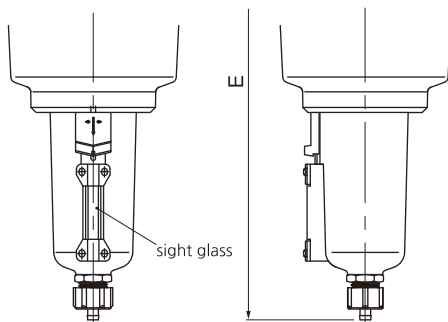
D : Auto Drain with one-touch fitting



Dn : Auto Drain with Nipple



- MeP - Metal Bowl with pipe type sight glass



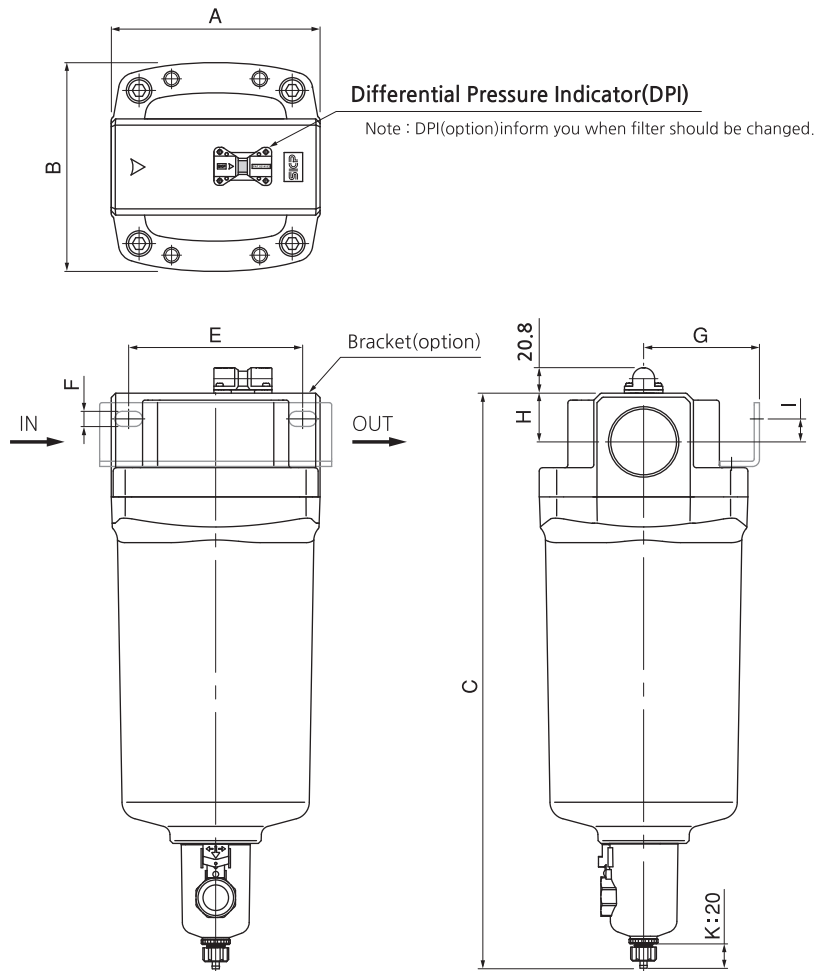
Note : 150 and 250 are the integral cover and bowl(MeF type)

Model	Port size	A	B	Height(manual drain)		E	F	G	H	I
				C(MeF)	D(MeP)					
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

Series SAMD

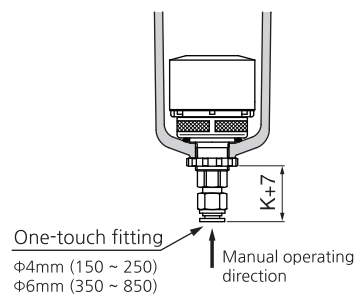
DIMENSIONS (mm)

SAMD 650~850

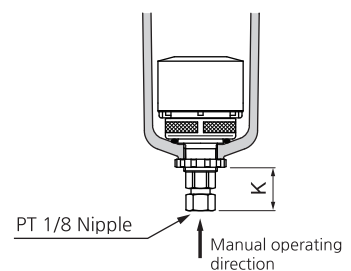


Auto Drain (option)

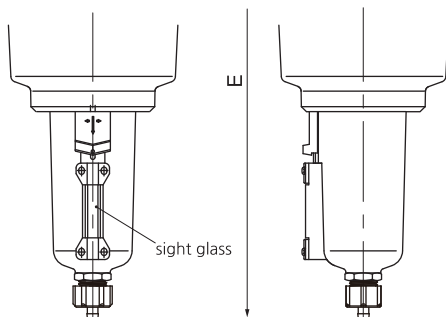
D : Auto Drain with one-touch fitting



Dn : Auto Drain with Nipple



- **MeP** - Metal Bowl with pipe type sight glass



Model	Port size	A	B	Height(manual drain)		E	F	G	H	I
				C(MeF)	D(MeP)					
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



SAMH450



SAMH350

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

① 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

Symbol	Size	Body 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	1 1/4						●	
14	1 1/2						●	●
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

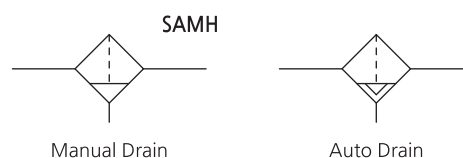
⑥ Bowl

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℃
Filtration	0.1μm + 0.01μm
Life of element	When pressure drop reached at 1bar

Precautions

- ① Filter element should be changed after 2years of use or when pressure drop reached at 1bar(0.1MPa).
- ② 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.
- ④ 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.

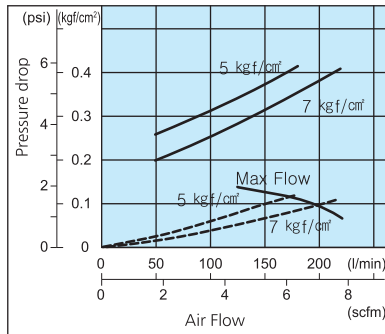
Series SAMH

FLOW CHARACTERISTICS

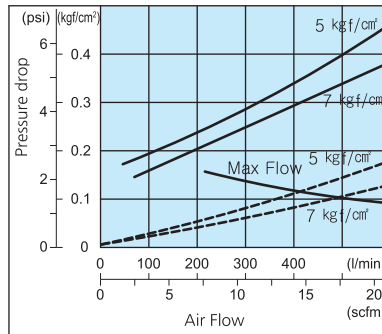
(— Element oil saturation ----- Initial condition)

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.

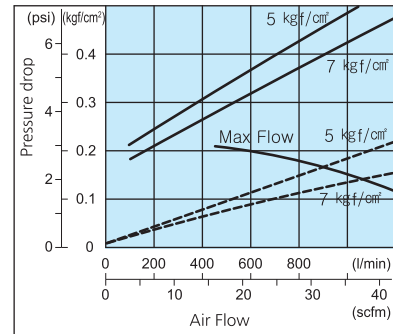
SAMH 150



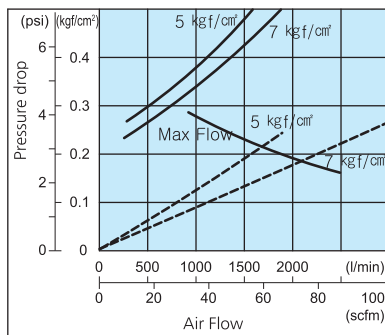
SAMH 250



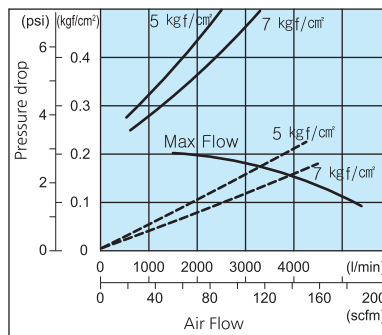
SAMH 350



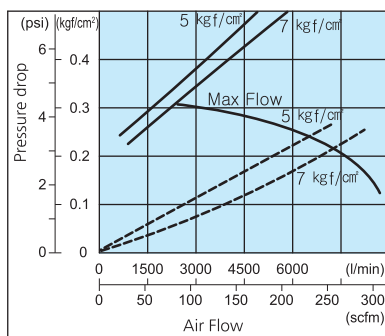
SAMH 450



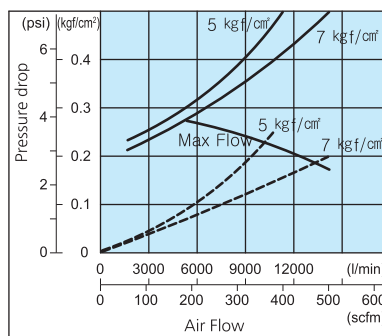
SAMH 550



SAMH 650



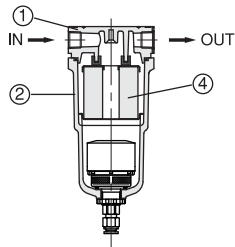
SAMH 850



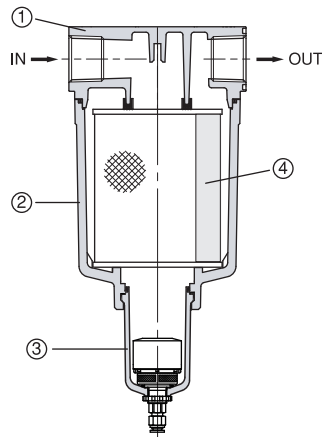
Micro Mist Separator with Prefilter

STRUCTURE / PARTS

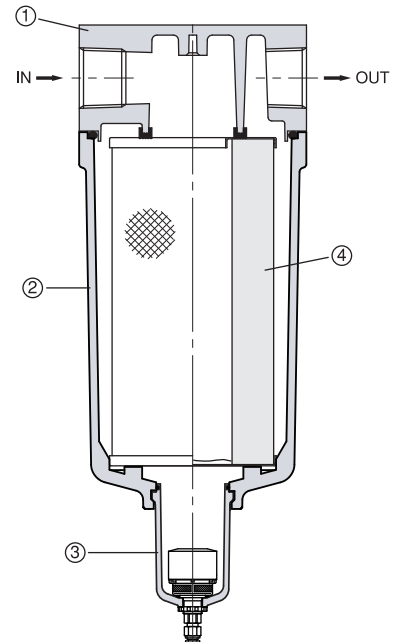
SAMH 150~250



SAMH 350~550



SAMH 650~850



Component Parts

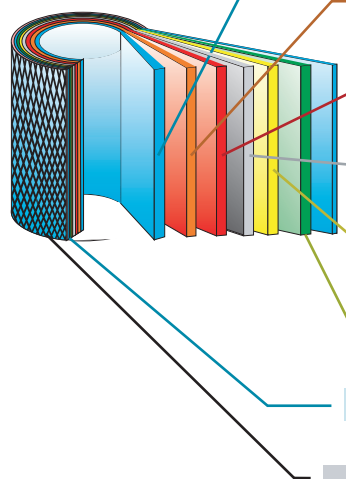
No.	PARTS	MATERIAL
①	Body	ALDC
②	Housing	ALDC
③	Bowl Ass'y	ALDC(MeP type)
		ALDC(MeF type)

Replacement Parts

(mm)

No.	PARTS	Part No. & Size(Φ x Height)						
		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

Sectional drawing (SAMH Filter)



1) Porous Plastic Coalescing Stage

- Oleophilic Porous Plastic core.
- In addition to removing particulates down to 40 μ m.

2) 0.1 μ m Main Media

- 0.1 μ m pure borosilicate glass micor fiber.

3) Remove Oil Media

- 0.3 μ m remove oil micro fiber media.
- Coalescing element designed to remove oil and water aerosol from process air or gas.

4) Drain Layer

- Non-wetting fiber drain layer.

5) 0.01 μ m Main Media

- 0.01 μ m pure borosilicate glass micor fiber.

6) Drain Layer

- Non-wetting fiber drain layer.

7) Porous Plastic Coalescing Stage

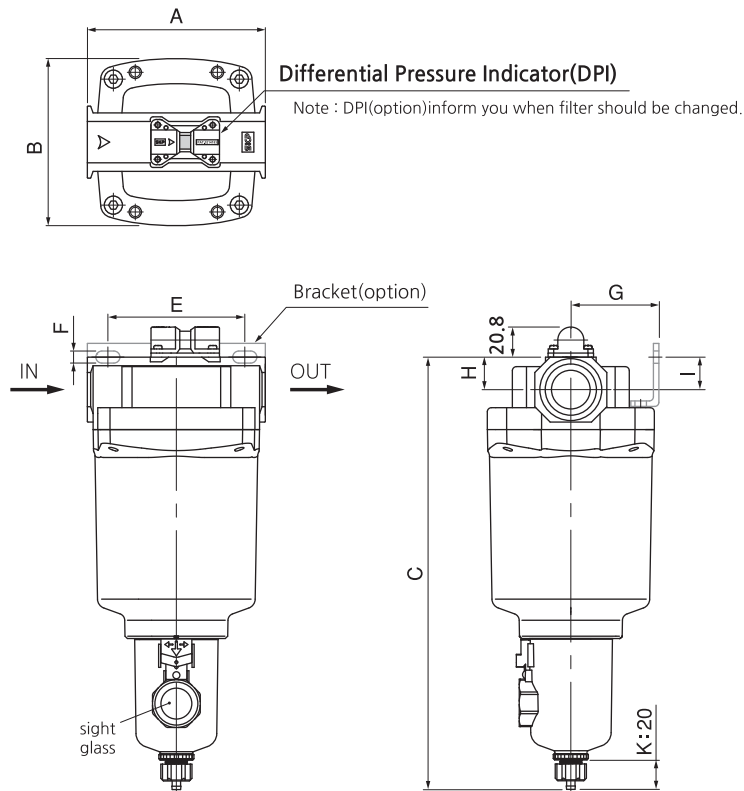
- In addition to removing particulates down to 40 μ m.

8) Coated Mesh

Series SAMH

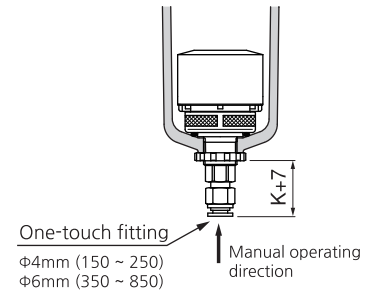
DIMENSIONS (mm)

SAMH 150~550

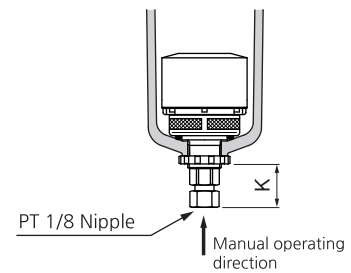


Auto Drain (option)

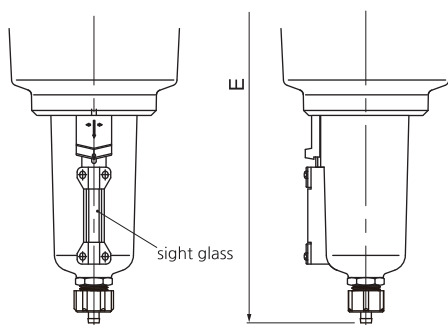
D : Auto Drain with one-touch fitting



Dn : Auto Drain with Nipple



- MeP - Metal Bowl with pipe type sight glass



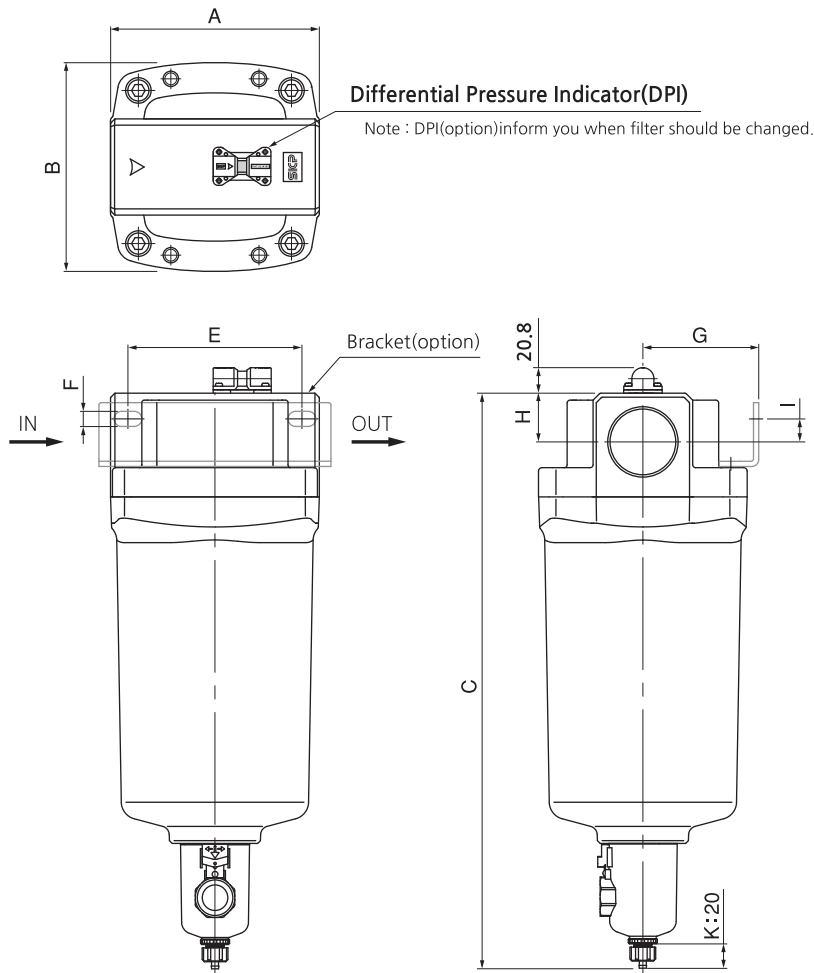
Note : 150 and 250 are the integral cover and bowl(MeF type)

Model	Port size	A	B	Height(manual drain)		E	F	G	H	I
				C(MeF)	D(MeP)					
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

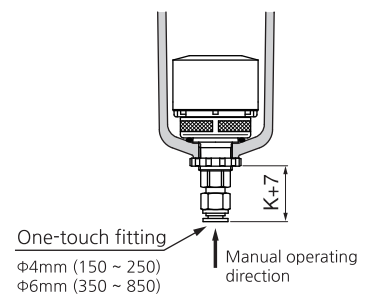
DIMENSIONS (mm)

SAMH 650~850

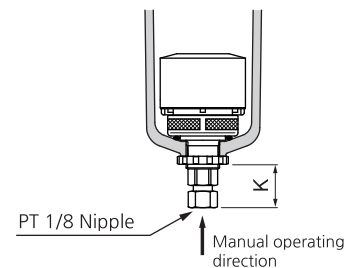


Auto Drain (option)

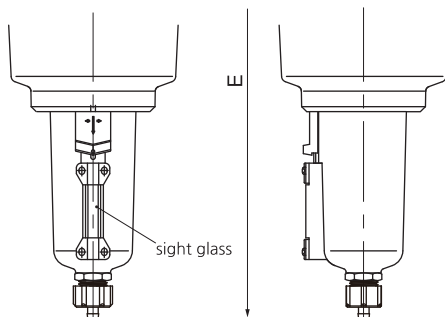
D : Auto Drain with one-touch fitting



Dn : Auto Drain with Nipple



- **MeP** - Metal Bowl with pipe type sight glass



Model	Port size	A	B	Height(manual drain)		E	F	G	H	I
				C(MeF)	D(MeP)					
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

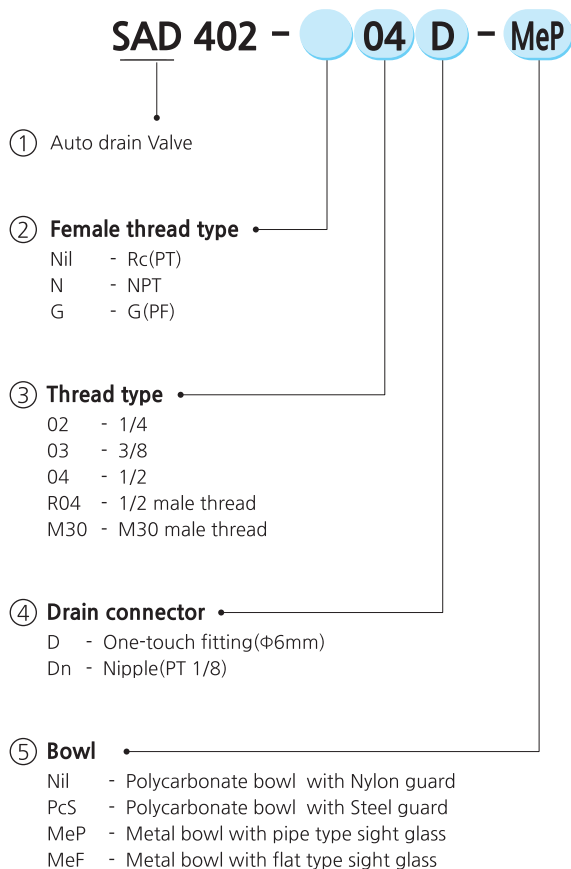
Auto Drain Valve (SAD402)

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



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°C (No freezing)
Bowl Material	Polycarbonate
Bowl Guard Material	Nylon
Port size	1/4, 3/8, 1/2, R1/2, M30

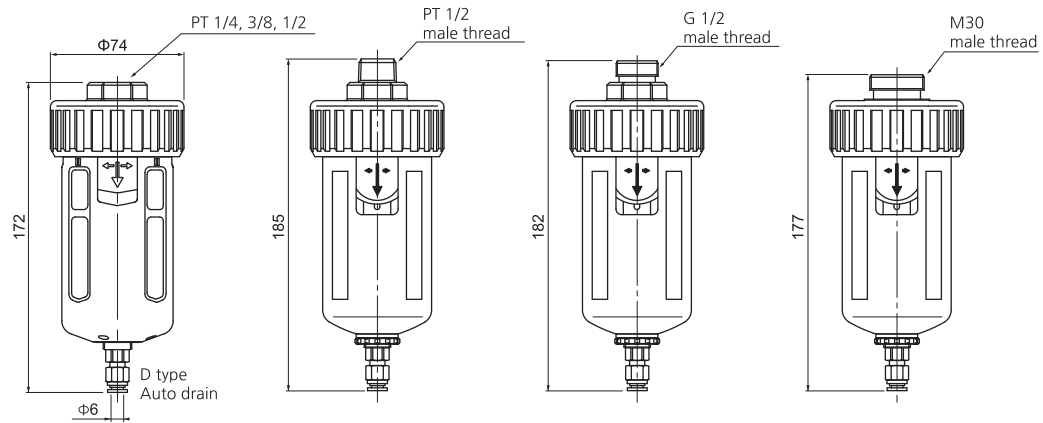
Precautions

- 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.
- ③ When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.
- ④ 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.

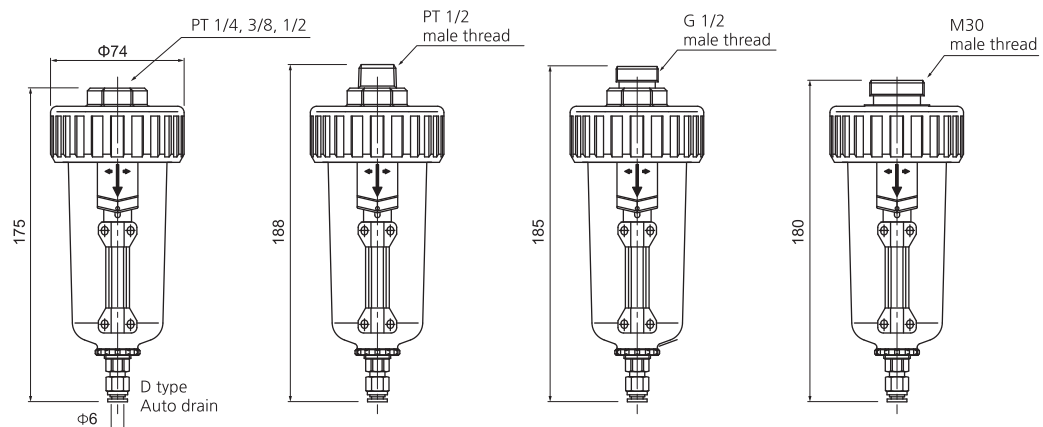
DIMENSIONS (mm)

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

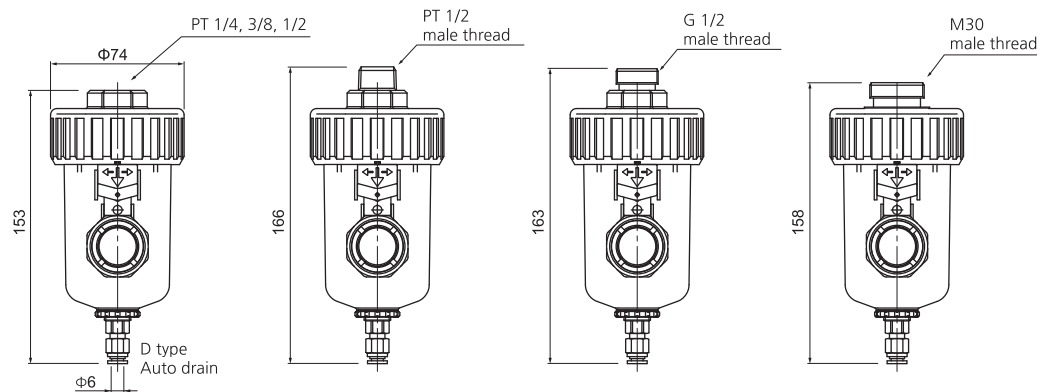
■ PC Bowl with a bowl guard



■ Metal Bowl with pipe type sight glass(MeP)

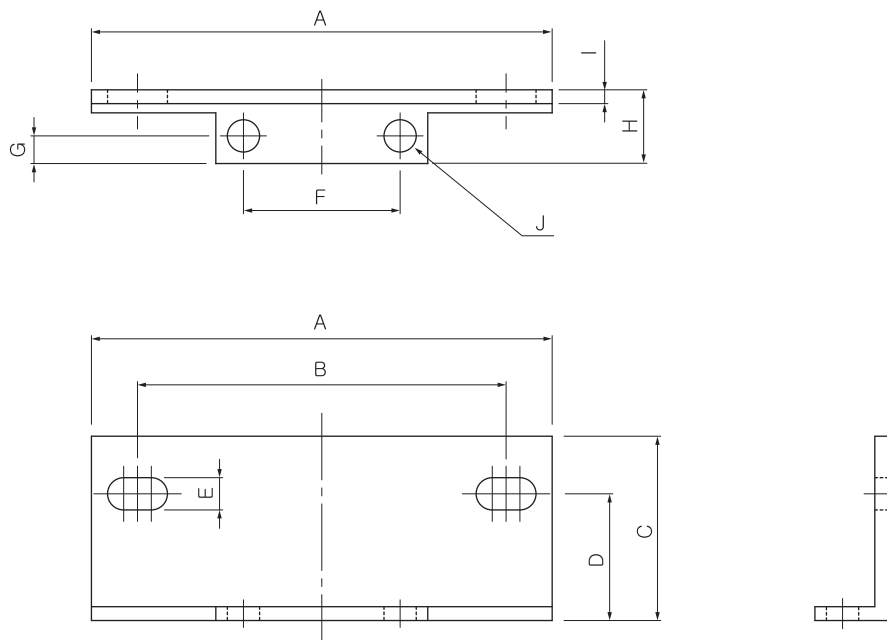


■ Metal Bowl with flat type sight glass(MeF)



Bracket for Micro Filter

B150~B850 Series



Model	A	B	C	D	E	F	G	H	I	J	Applicable Model
B150	70	56	24	19	5.5	26	5.3	11.9	1.6	φ3.8	150 Series (SAFL, SAM, SAMD, SAMH, SAMG)
B250	84	66	30	22	6	28	4	11	2	φ6	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	φ9	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	φ13	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

WARNING

- 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

- 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 workpiece 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	162
(Gauge / Barcket / SPS100M / Spacer / SACM)	

Air Unit (SAU)

Air Filter + Air Regulator + Air Lubricator



How to order

SAU 4 00 - 04 DG - MeP

① Air Unit

② **Body Size**

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

③ **Composition**

- 00 - Filter(SAF)
- Regulator(SAR)
- Lubricator(SAL)

④ **Thread type**

- Nil - Rc(PT)
- N - NPT
- G - G(PF)

⑤ **Port Size**

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

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

G - Gauge

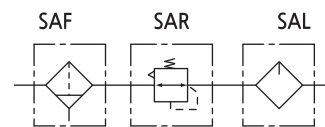
G	Round type gauge
Gs	Square embedded type

※ 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

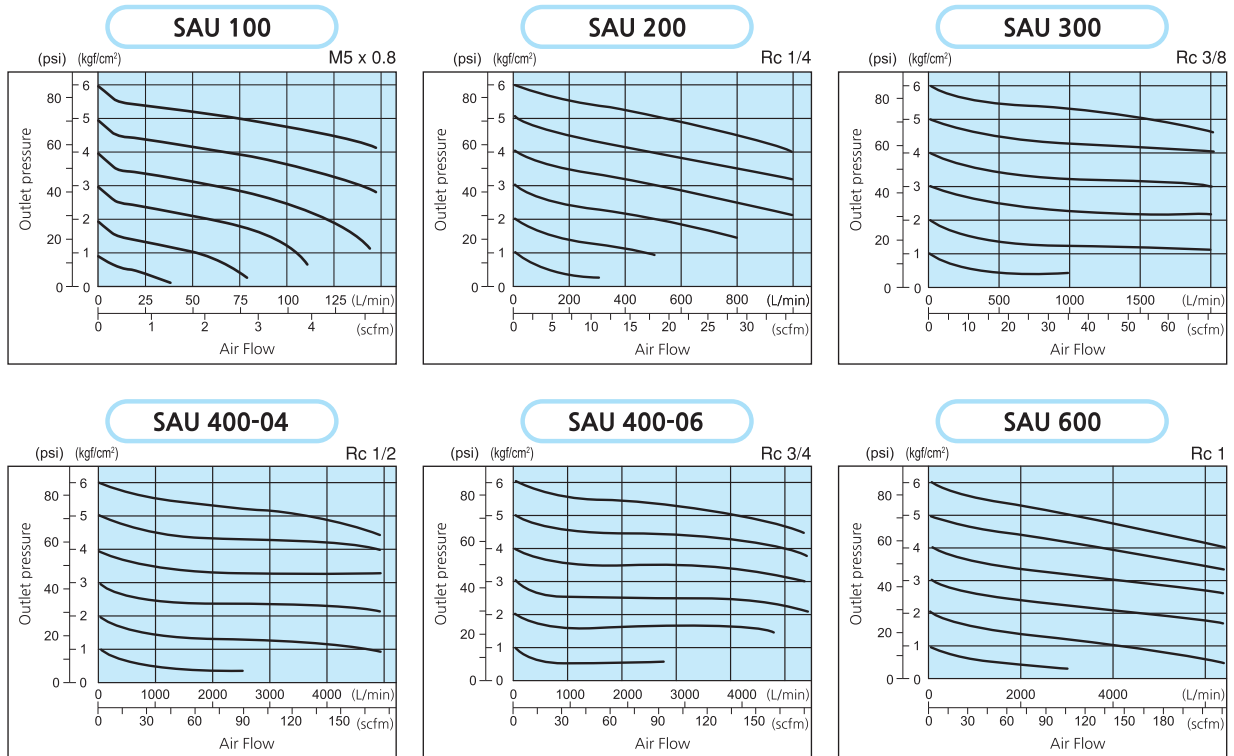
Composition	Filter + Regulator + Lubricator
Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	-5 ~ 60℃ (No freezing)
Regulating range(SAR)	0.5~8.5bar (0.05~0.85MPa)
Filtration(SAF)	10μm (option: 2, 5, 20, 40)
Recommended oil(SAL)	Turbin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

Precautions

- 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.
- Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- 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.
- 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.

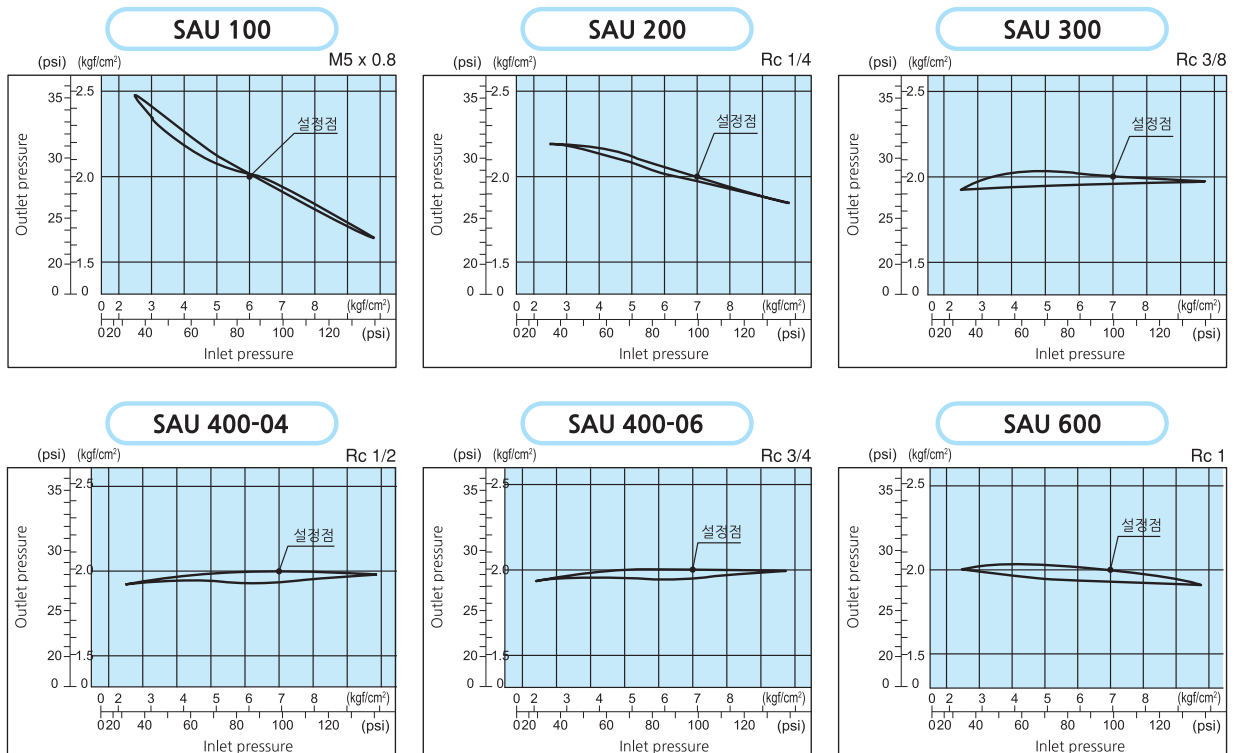
FLOW CHARACTERISTICS

Inlet pressure 7kg/cm²



PRESSURE CHARACTERISTICS

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

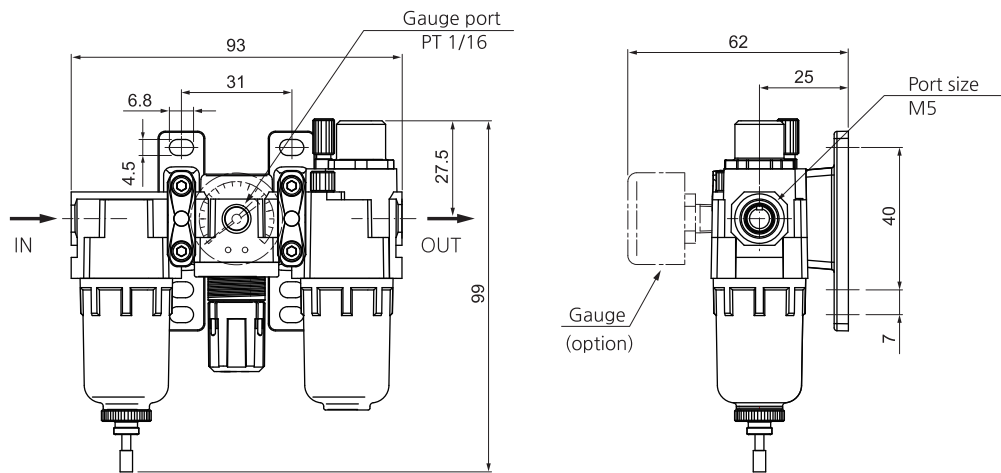


Series SAU100~600

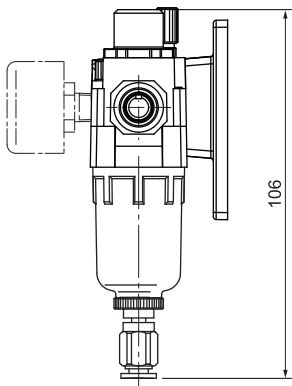
DIMENSIONS (mm)

SAU 100

■ SAU100-□□□



■ Dimensions of each model with an option attached



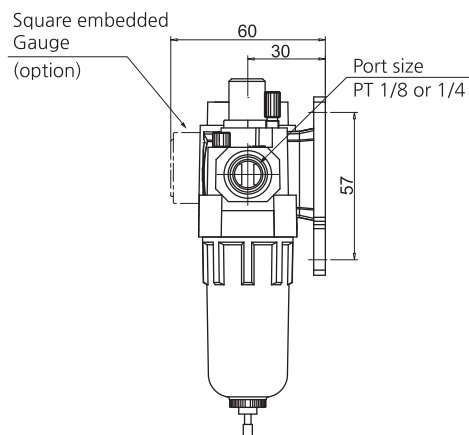
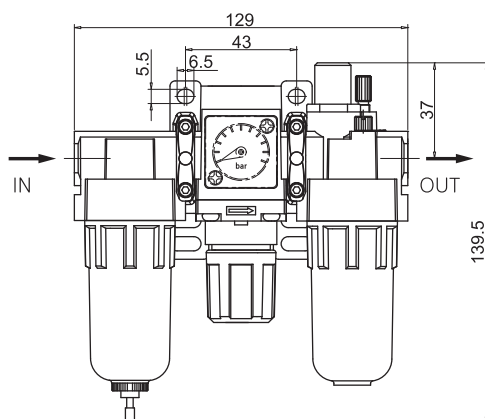
with Auto Drain
(Differential pressure type)

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

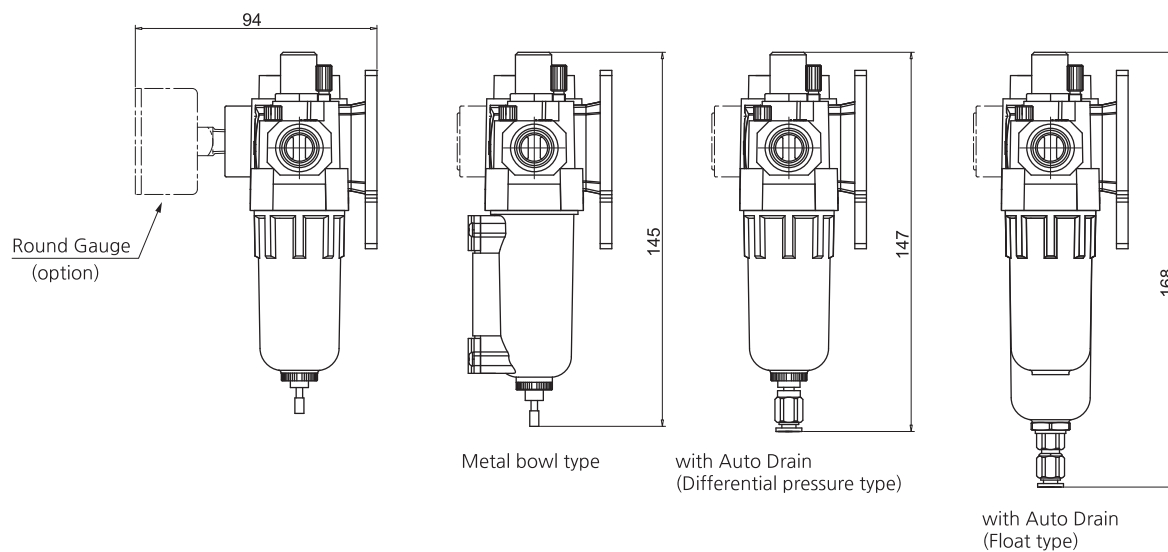
DIMENSIONS (mm)

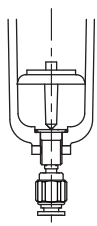
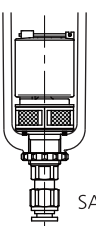
SAU 200

■ SAU200-□02□□-□



■ Dimensions of each model with an option attached



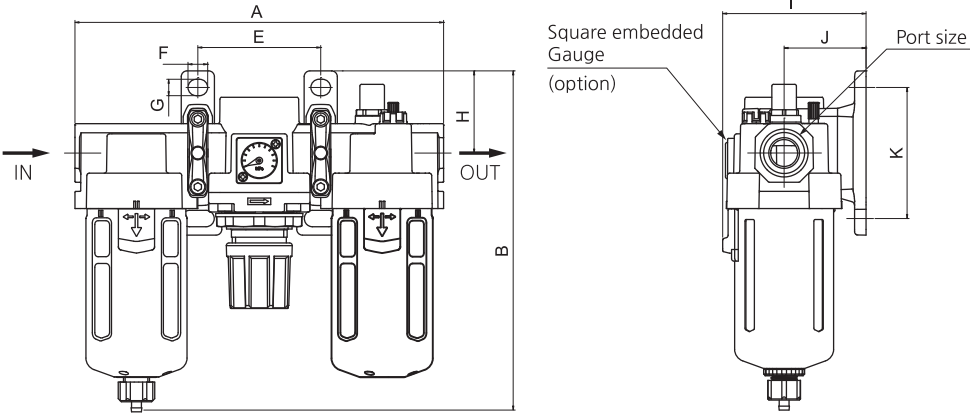
Option	Auto Drain		Gauge	
	D : Differential pressure type	Df : Float type	G : Round type	Gs : Square embedded type
Model		 SAD200	 G40, R1/8	 Gs28

Series SAU100~600

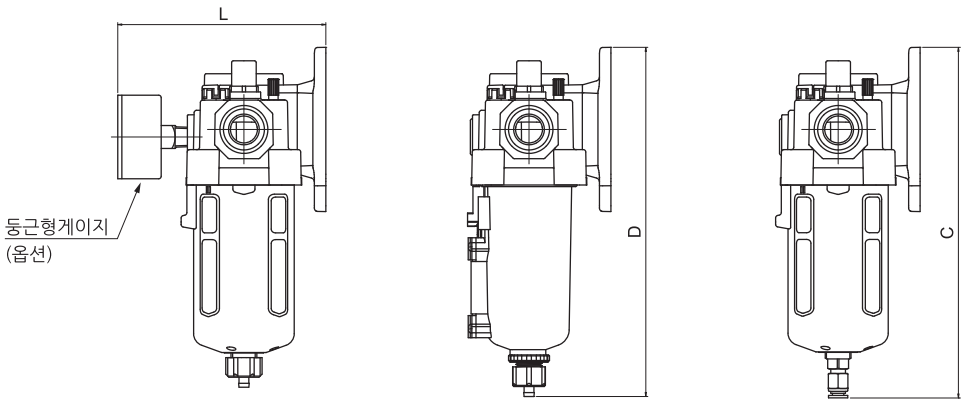
DIMENSIONS (mm)

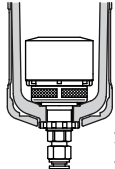
SAU 300~400

- SAU300-□03□□-□
- SAU400-□04(06)□□-□



- Dimensions of each model with an option attached



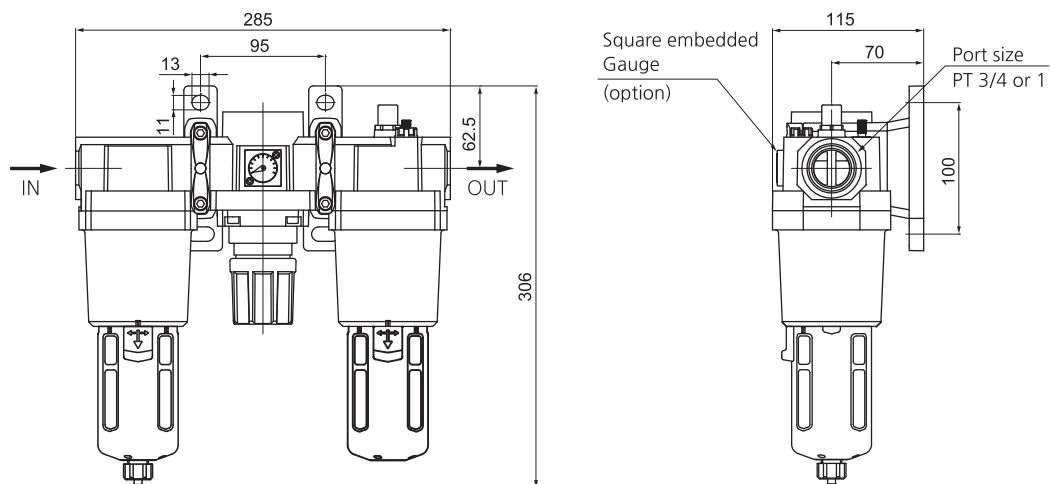
Option	D : Auto Drain	Gauge	
		G : Round type	Gs : Square embedded type
Model	 SAU300 : SAD300 SAU400 : SAD400	 SAU300 : G40, R1/8 SAU400 : G50, R1/4	 Gs28

Model	Port size	A	B	C	D	E	F	G	H	I	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

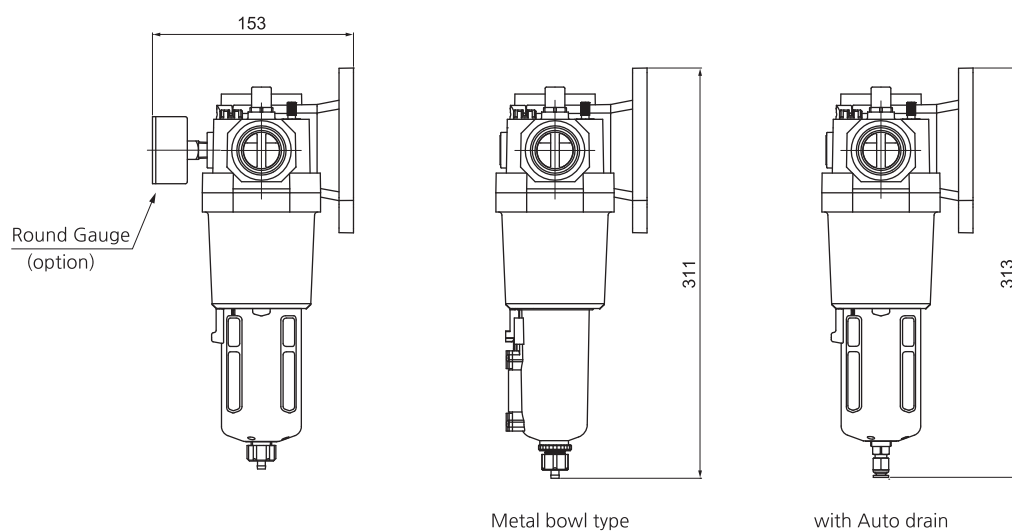
DIMENSIONS (mm)

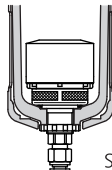
SAU 600

■ SAU600-□06(10)□□-□



■ Dimensions of each model with an option attached



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

Air Unit (SAU110~610 Series)

Filter Regulator + Lubricator

SAU 110



SAU 210



SAU 310



How to order

SAU 6 10 - 10 DG - MeP

- ① Air Unit
- ② 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

Symbol	Size	Body 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				
		1	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.

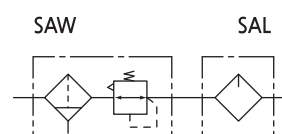
G - Gauge

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

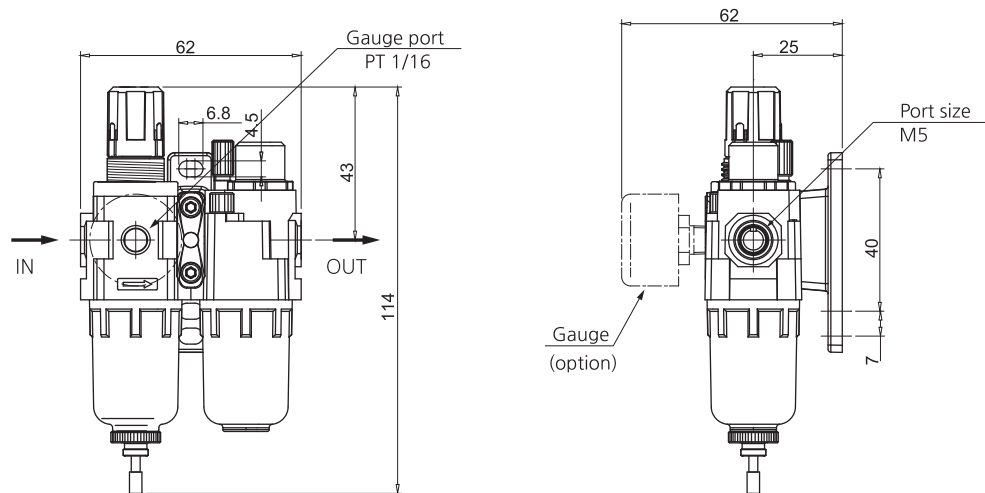
Precautions

- 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 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.

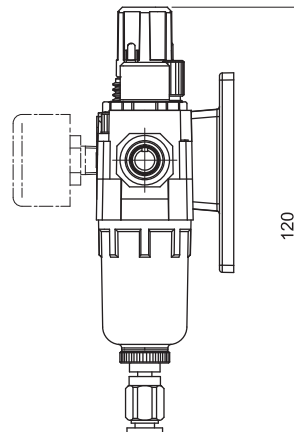
DIMENSIONS (mm)

SAU 110

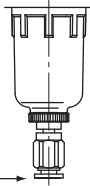
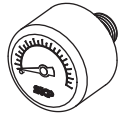
■ SAU110-□□□



■ Dimensions of each model with an option attached



with Auto Drain
(Differential pressure type)

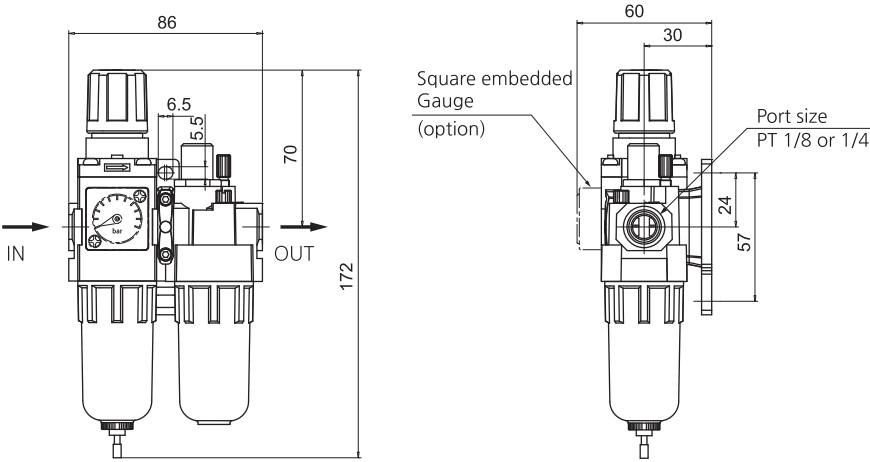
Option	D : Auto Drain (Differential pressure type)	G : Gauge
Model	 φ4mm One-touch fitting	 G25, R1/16

Series SAU110~610

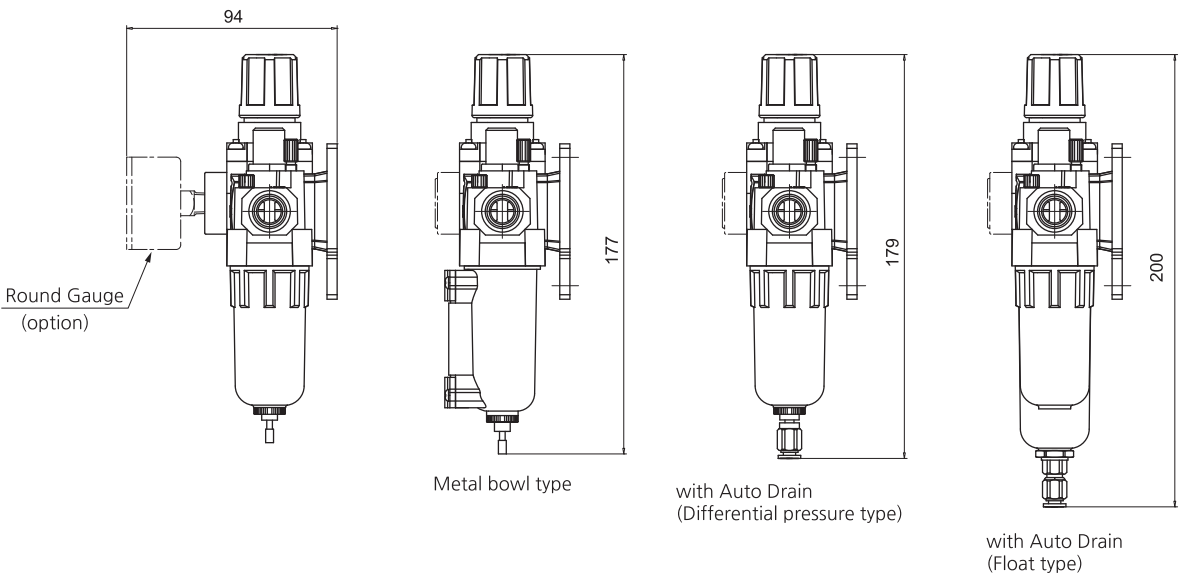
DIMENSIONS (mm)

SAU 210

■ SAU210-□02□□-□



■ Dimensions of each model with an option attached

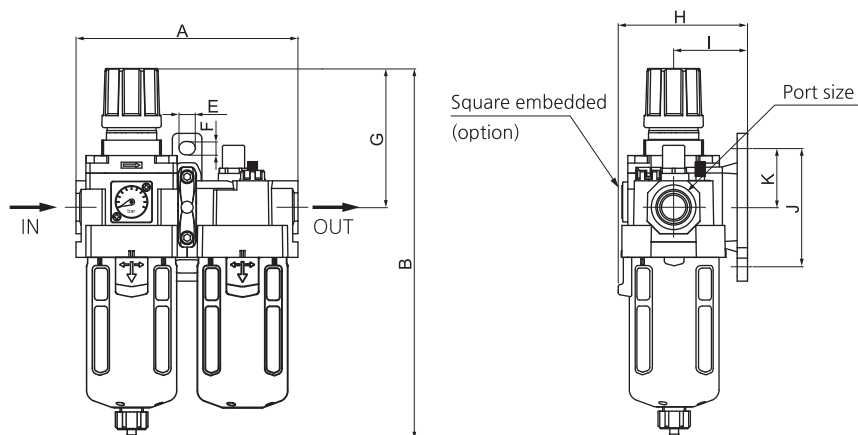


Option	Auto Drain		Gauge	
	D : Differential pressure type	Df : Float type	G : Round type	Gs : Square embedded type
Model		 SAD200	 G40, R1/8	 Gs28

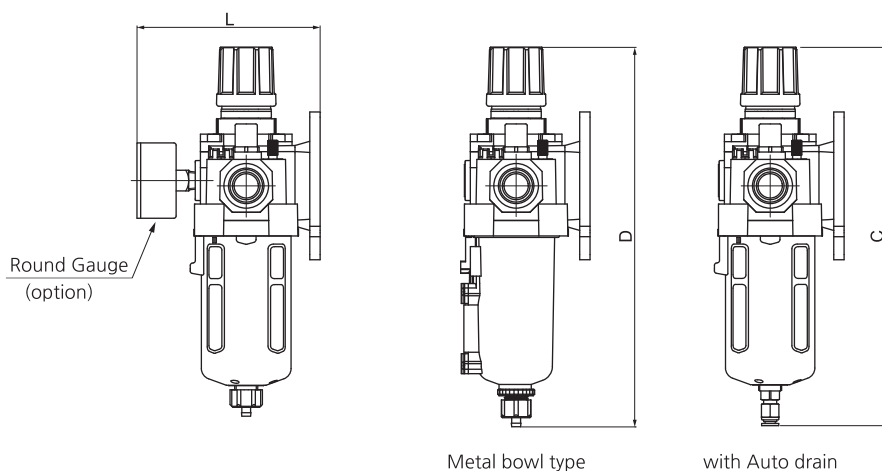
DIMENSIONS (mm)

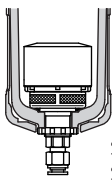
SAU 310~410

- SAU310-□03□□-□
- SAU410-□04□□-□



- Dimensions of each model with an option attached



Option	D : Auto Drain	Gauge	
		G : Round type	Gs : Square embedded type
Model	 SAU300 : SAD300 SAU400 : SAD400	 SAU310 : G40, R1/8 SAU410 : G50, R1/4	 Gs28

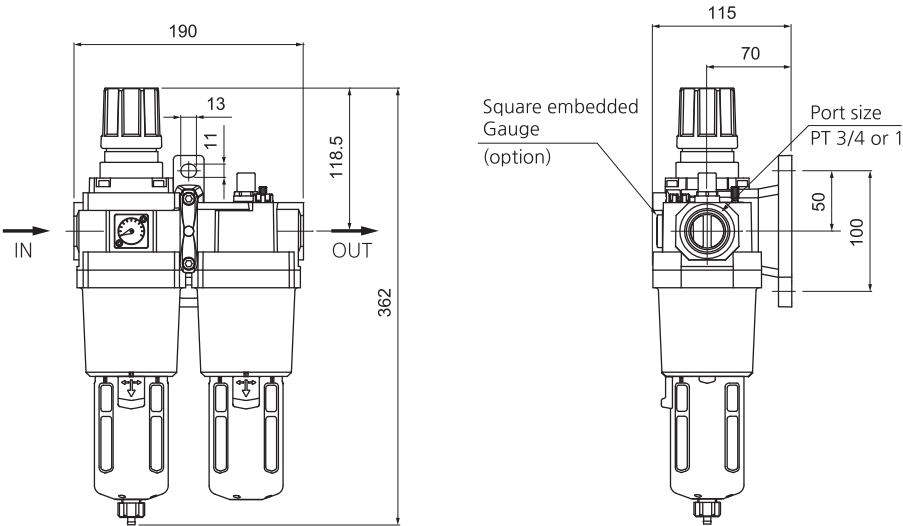
Model	Port size	A	B	C	D	E	F	G	H	I	J	K	L
SAU310-03	1/4, 3/8	114	220	226	228	9	7	89	71.5	41	70	35	107
SAU410-04	1/2	150	251	258	256	11	9	94	87.5	50	80	40	127

Series SAU110~610

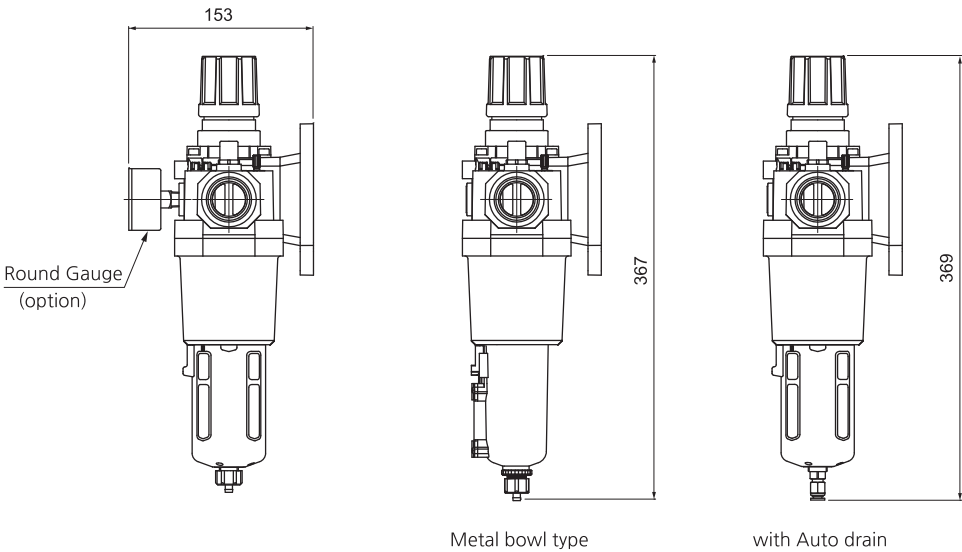
DIMENSIONS (mm)

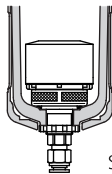
SAU 610

- SAU610-□06(10)□□-□



- Dimensions of each model with an option attached



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

Air Unit (SAU120~620 Series)

Air Filter + Air Regulator



SAU 120



SAU 220



SAU 420

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
- Composition**
 - 20 Filter(SAF)
 - Regulator(SAR)
- Thread type**
 - Nil - Rc(PT)
 - N - NPT
 - G - G(PF)
- Port Size**

Symbol	Size	Body 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					●	
- Accessory(Optional)**
 - Nil - None gauge / Manual Drain
 - D - Auto Drain

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

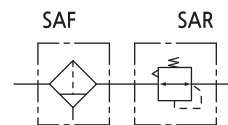
1. SAF100 and SAF200 are differential pressure type.
 2. SAF300~600 are float type.

 - G - Gauge

G	Round type gauge
Gs	Square embedded type

SAU110 is available only round type gauge.
- 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℃ (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

Precautions

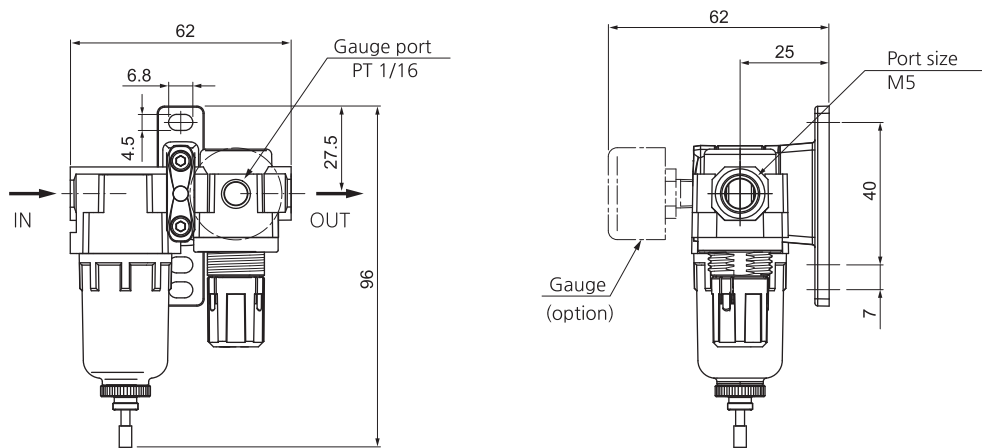
- Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- 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.
- 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.

Series SAU120~620

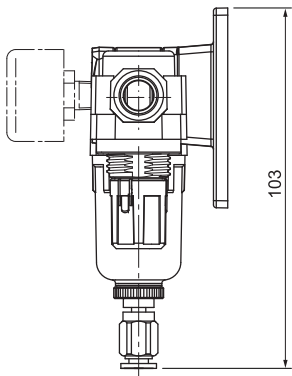
DIMENSIONS (mm)

SAU 120

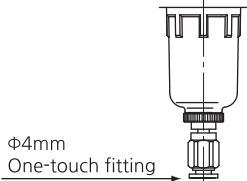
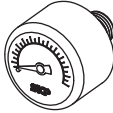
■ SAU120-□□□



■ Dimensions of each model with an option attached



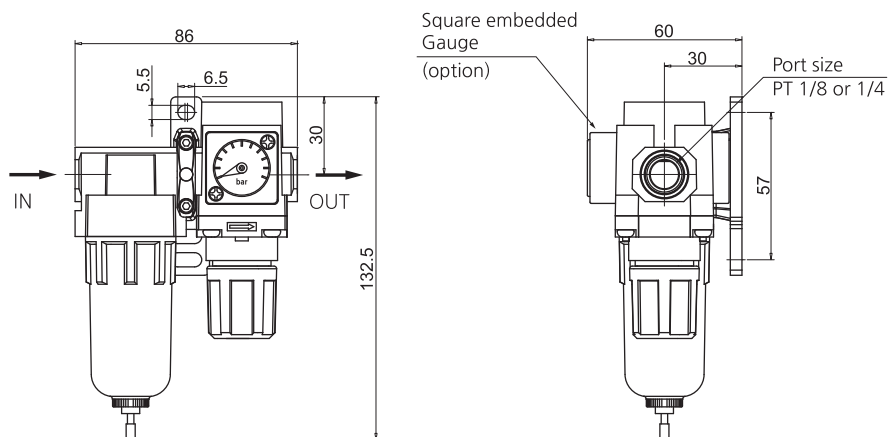
with Auto Drain
(Differential pressure type)

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

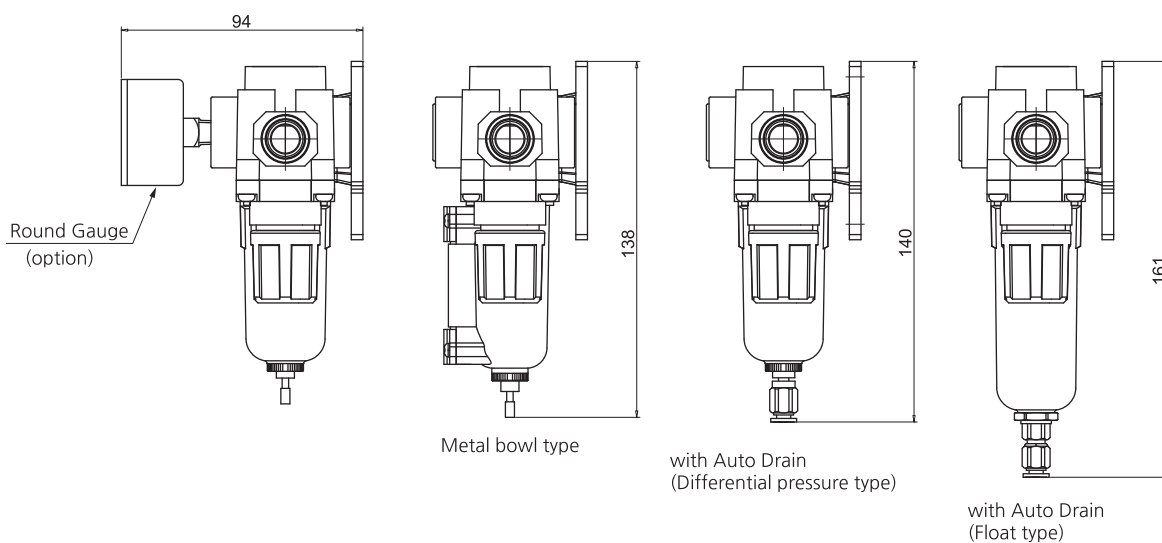
DIMENSIONS (mm)

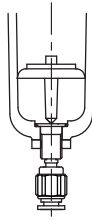
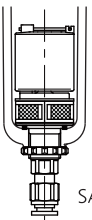
SAU 220

■ SAU220-□02□□-□



■ Dimensions of each model with an option attached



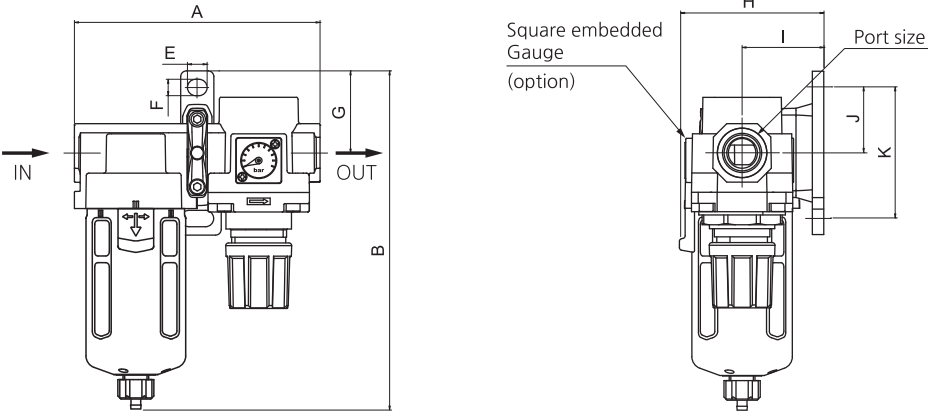
Option	Auto Drain		Gauge	
	D : Differential pressure type	Df : Float type	G : Round type	Gs : Square embedded type
Model		 SAD200	 G40, R1/8	 Gs28

Series SAU120~620

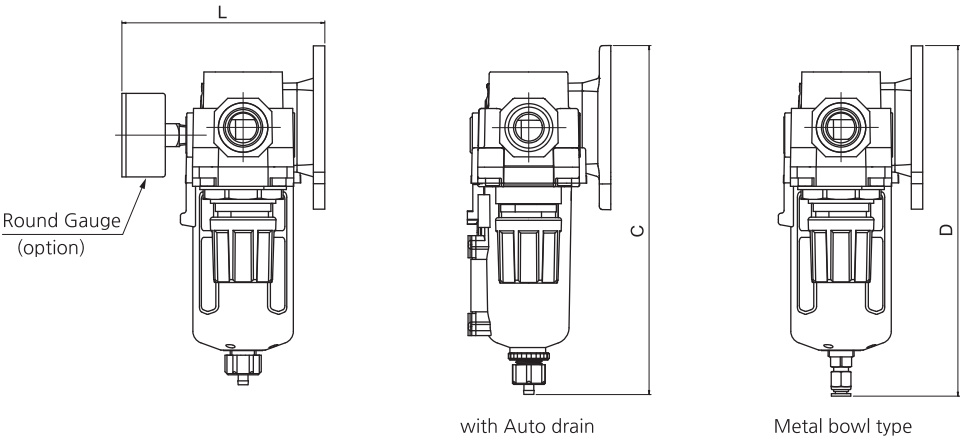
DIMENSIONS (mm)

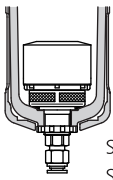
SAU 320~420

- SAU320-□03□□-□
SAU420-□04(06)□□-□



- Dimensions of each model with an option attached



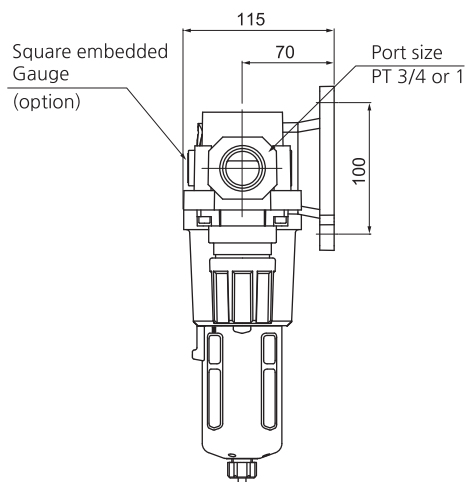
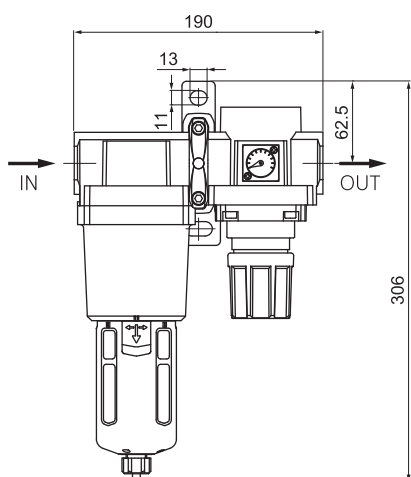
Option	D : Auto Drain	Gauge	
		G : Round type	Gs : Square embedded type
Model	 SAU300 : SAD300 SAU400 : SAD400	 SAU320 : G40, R1/8 SAU420 : G50, R1/4	 Gs28

Model	Port size	A	B	C	D	E	F	G	H	I	J	K	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

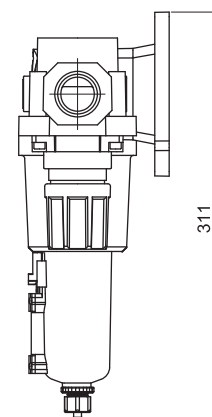
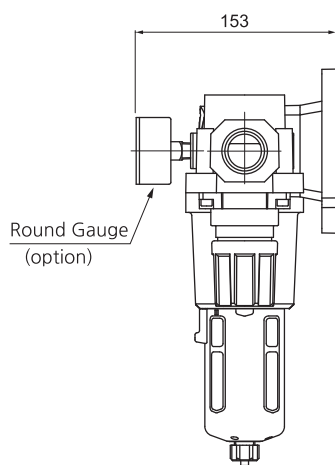
DIMENSIONS (mm)

SAU 620

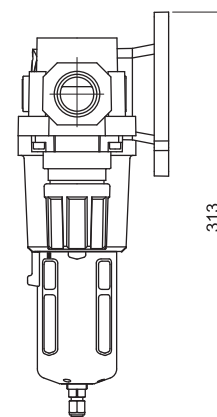
■ SAU620-□06(10)□□-□



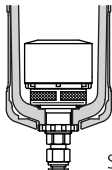
■ Dimensions of each model with an option attached



Metal bowl type



with Auto drain

Option	D : Auto Drain	Gauge	
		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

SAU 4 30 - 04 DG - MeP

- Air Unit**
- Body Size**
 - 2 - 1/4
 - 3 - 3/8
 - 4 - 1/2
- Composition**
 - 30 - Filter(SAF)
 - Mist Separator(SAFM)
 - Regulator(SAR)
- Thread type**
 - Nil - Rc(PT)
 - N - NPT
 - G - G(PF)
- Port size**

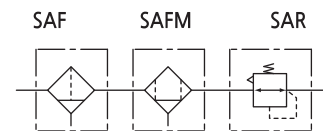
기호	사이즈	몸체 사이즈		
		2	3	4
01	1/8	●		
02	1/4	●	●	
03	3/8		●	
04	1/2			●
06	3/4			●
- Accessory(Optional)**
 - Nil - None gauge / Manual Drain
 - D - Auto Drain

Symbol	Description	Body		
		2	3	4
D	One-touch fitting type	●	●	●
Dn	Nipple(PT1/8) type	-	●	●
Df	SAF(M)200 Float type	●	-	-

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

G	Round type gauge
Gs	Square embedded type
- 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 + Mist Separator + 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 + SAFM:0.1μm
Bowl material(SAF, SAFM)	Poly-carbonate (option: ALDC)
Bowl Guard Material	Nylon
Construction(SAR)	Relief type

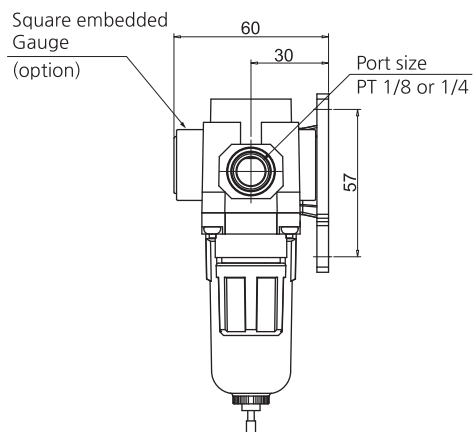
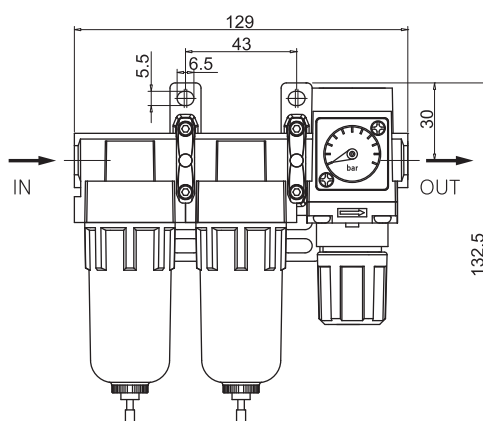
Precautions

- 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.
- Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- 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.
- 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.

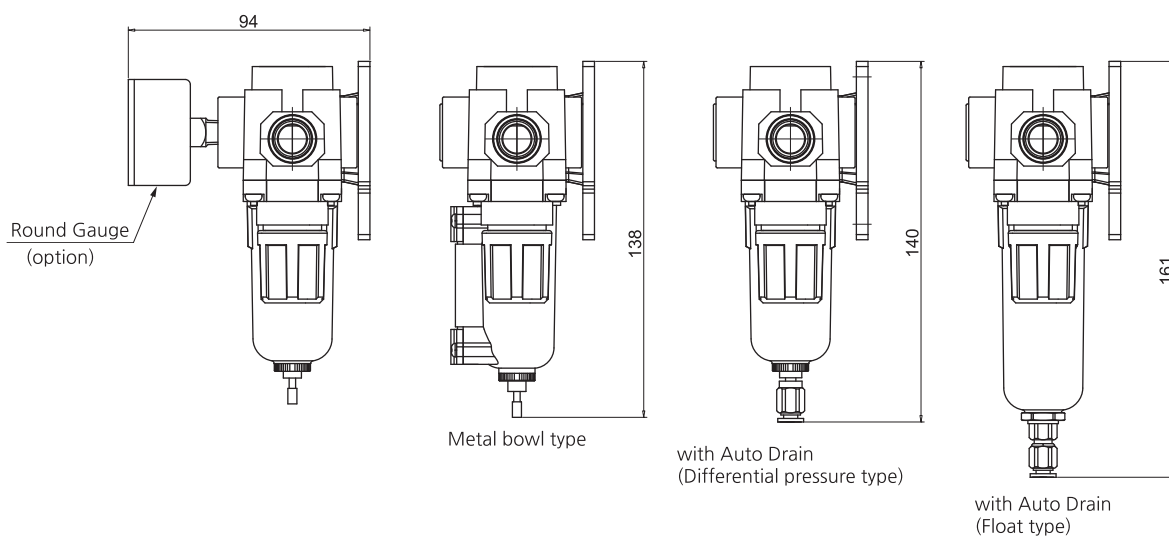
DIMENSIONS (mm)

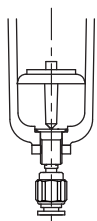
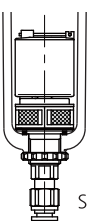
SAU 230

■ SAU230-□02□□-□



■ Dimensions of each model with an option attached



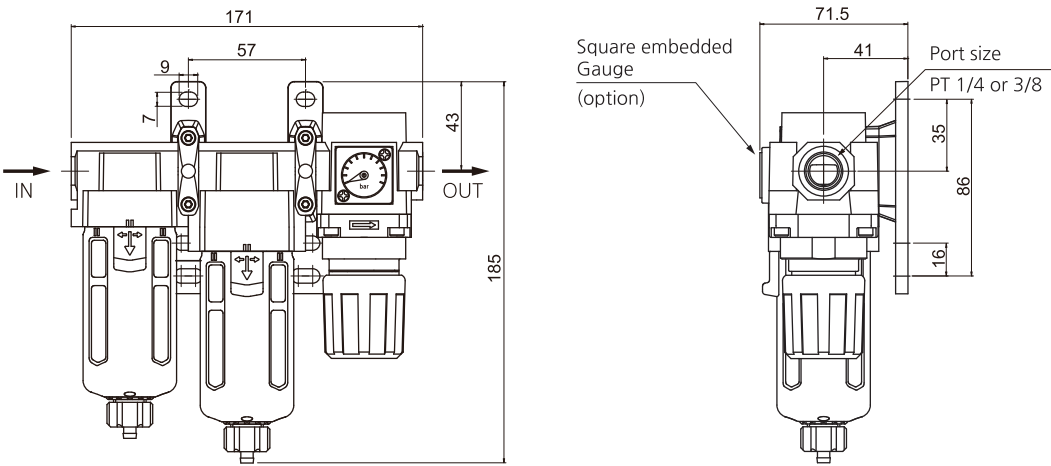
Option	Auto Drain		Gauge	
	D : Differential pressure type	Df : Float type	G : Round type	Gs : Square embedded type
Model		 SAD200	 G40, R1/8	 Gs28

Series SAU230~430

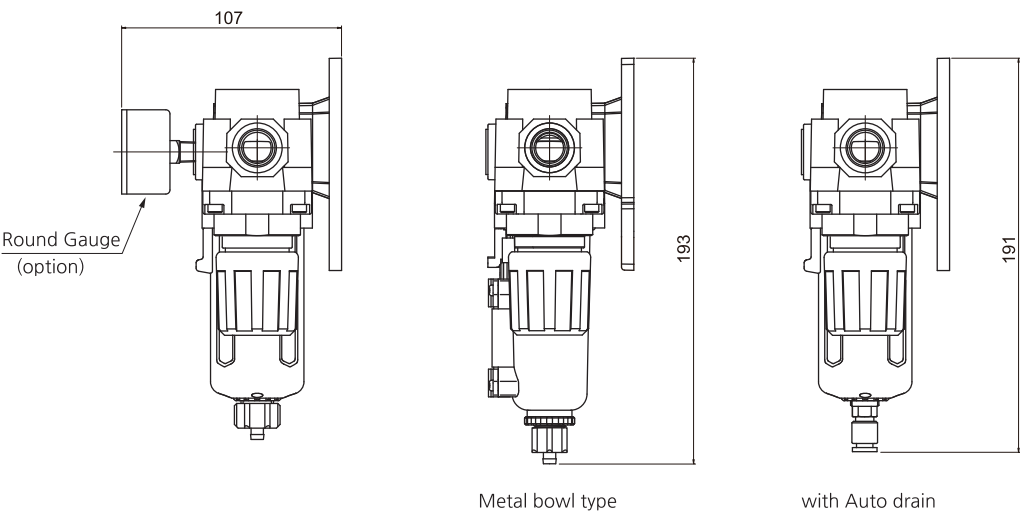
DIMENSIONS (mm)

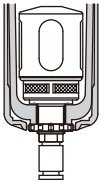
SAU 330

■ SAU330-□03□□-□



■ Dimensions of each model with an option attached

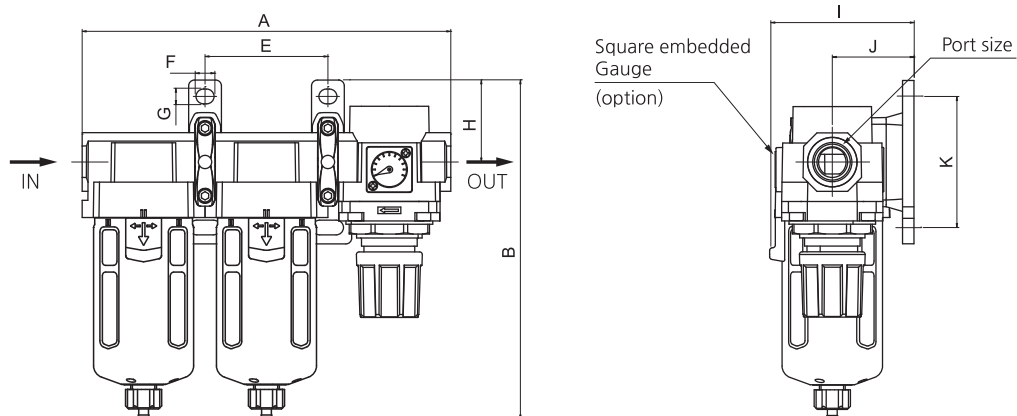


Option	D : Auto Drain	Gauge	
		G : Round type	Gs : Square embedded type
Model	 SAD300	 G40, R1/8	 Gs28

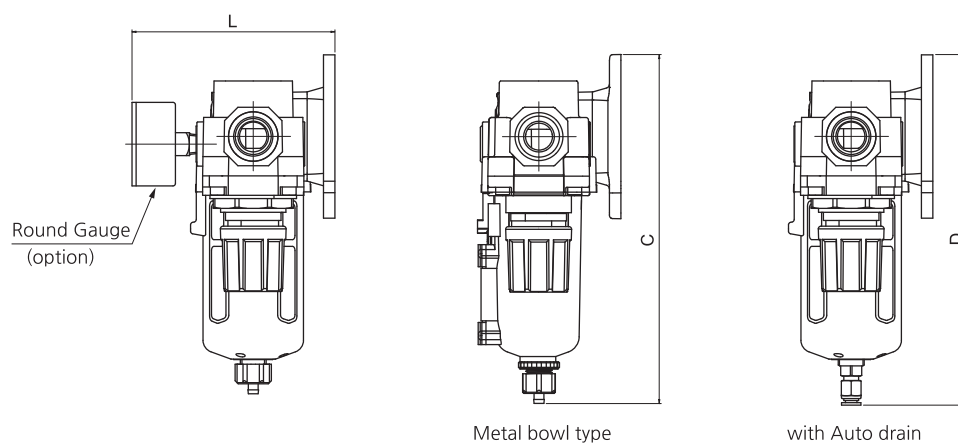
DIMENSIONS (mm)

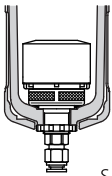
SAU 430

- SAU430-□04□□-□
- SAU430-□06□□-□



- Dimensions of each model with an option attached



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

Model	Port size	A	B	C	D	E	F	G	H	I	J	K	L
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

SAU 4 40 - 04 DG - MeP

- ① Air Unit
- ② Body Size
 - 2 - 1/4
 - 3 - 3/8
 - 4 - 1/2
- ③ Composition
 - 40 Filter Regulator(SAW)
 - Mist Separator(SAFM)
- ④ Thread type
 - Nil - Rc(PT)
 - N - NPT
 - G - G(PF)
- ⑤ Port size

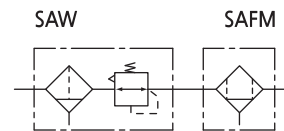
기호	사이즈	몸체 사이즈		
		2	3	4
01	1/8	●		
02	1/4	●	●	
03	3/8		●	
04	1/2			●
06	3/4			●
- ⑥ Accessory(Optional)
 - Nil - None gauge / Manual Drain
 - D - Auto Drain

Symbol	Description	Body		
		2	3	4
D	One-touch fitting type	●	●	●
Dn	Nipple(PT1/8) type	-	●	●
Df	SAW,SAFM200 Float type	●	-	-

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 + Mist Separator
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(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

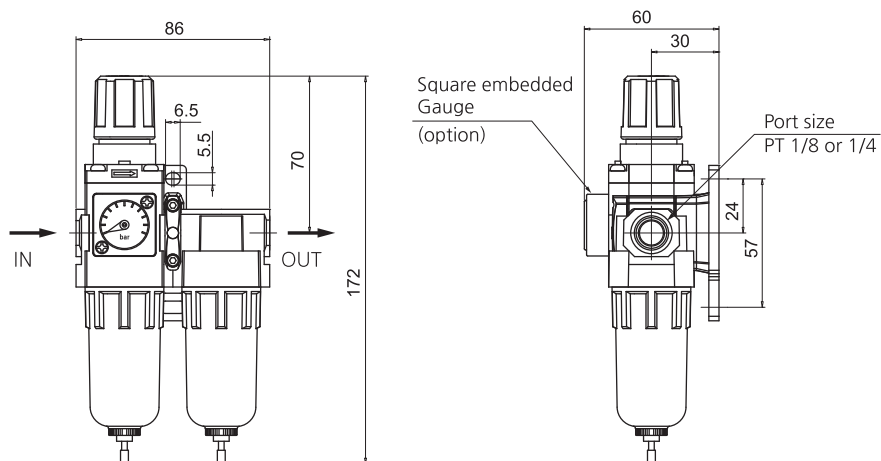
Precautions

- 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 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.

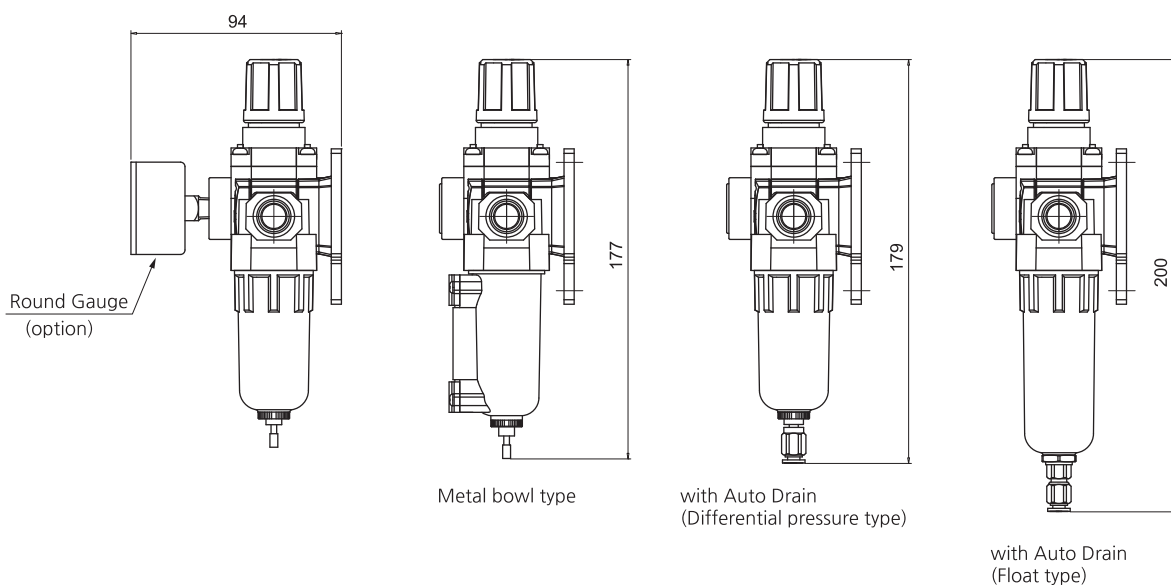
DIMENSIONS (mm)

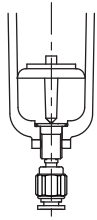
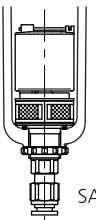
SAU 240

■ SAU240-□02□□-□



■ Dimensions of each model with an option attached



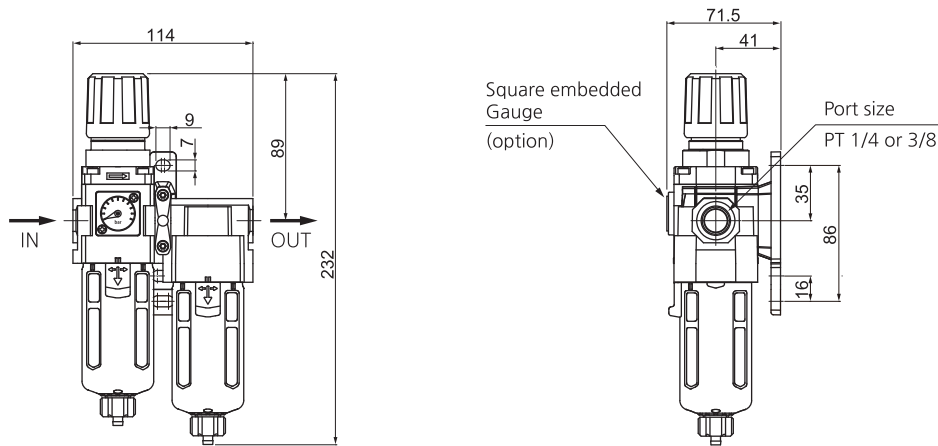
Option	Auto Drain		Gauge	
	D : Differential pressure type	Df : Float type	G : Round type	Gs : Square embedded type
Model		 SAD200	 G40, R1/8	 Gs28

Series SAU240~440

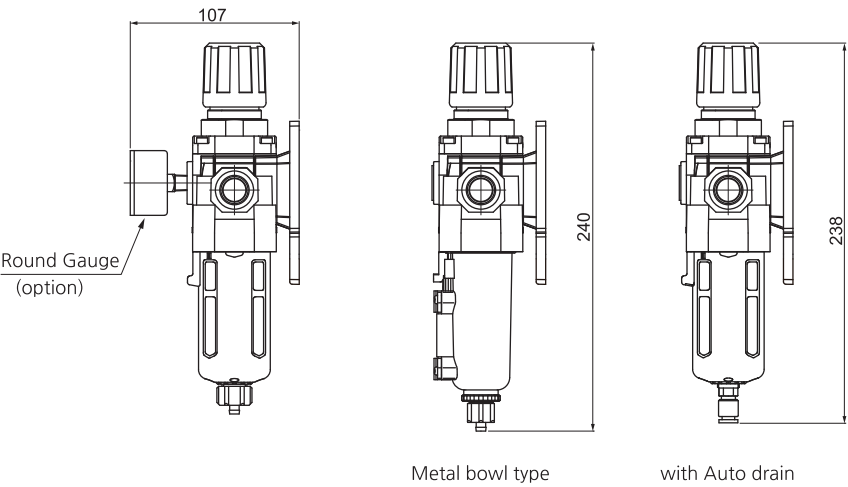
DIMENSIONS (mm)

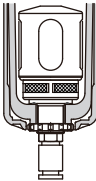
SAU 340

■ SAU340-□03□□-□



■ Dimensions of each model with an option attached

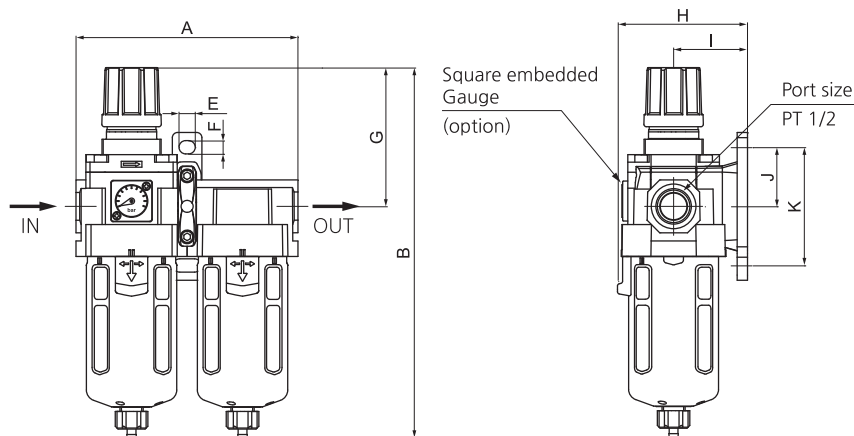


Option	D : Auto Drain	Gauge	
		G : Round type	Gs : Square embedded type
Model	 SAD300	 G40, R1/8	 Gs28

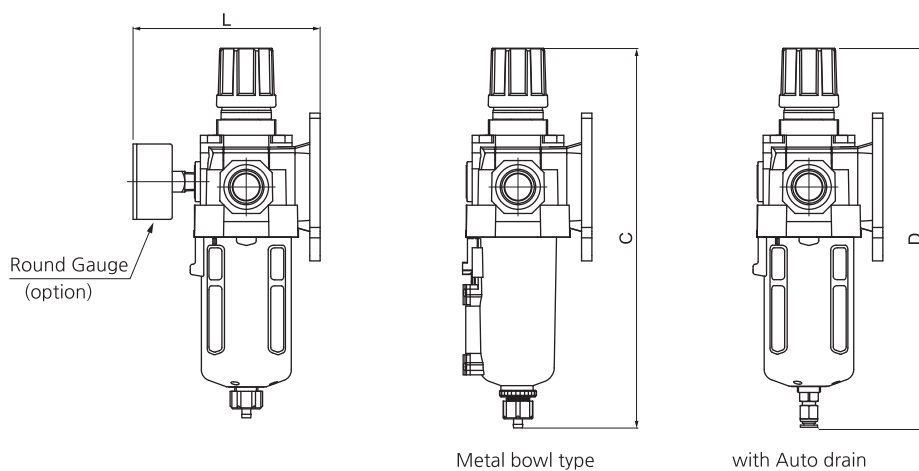
DIMENSIONS (mm)

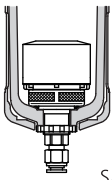
SAU 440

SAU440-□04(06)□□-□



Dimensions of each model with an option attached



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

Model	Port size	A	B	C	D	E	F	G	H	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

SAU 4 50 - 04 DG - MeP

- Air Unit**
- Body Size**
 - 2 - 1/4
 - 3 - 3/8
 - 4 - 1/2
- Composition**
 - 50 - Mist Separator(SAFM)
 - Micro Mist Separator(SAFD)
 - Regulator(SAR)
- Thread type**
 - Nil - Rc(PT)
 - N - NPT
 - G - G(PF)
- Port size**

기호	사이즈	몸체 사이즈		
		2	3	4
01	1/8	●		
02	1/4	●	●	
03	3/8		●	
04	1/2			●
06	3/4			●
- Accessory(Optional)**
 - Nil - None gauge / Manual Drain
 - D - Auto Drain

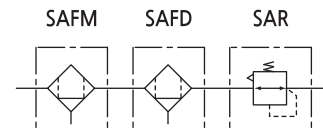
Symbol	Description	Body		
		2	3	4
D	One-touch fitting type	●	●	●
Dn	Nipple(PT1/8) type	-	●	●
Df	SAFM, SAFD200 Float type	●	-	-

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

 - G - Gauge

Symbol	Description
G	Round type gauge
Gs	Square embedded type
- Bowl**
 - Nil - 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

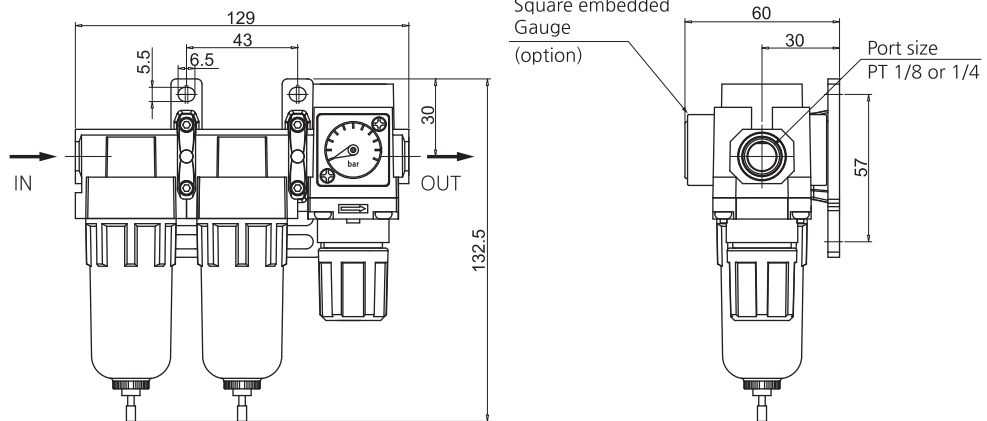
Precautions

- 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.
- Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- 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.
- 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.

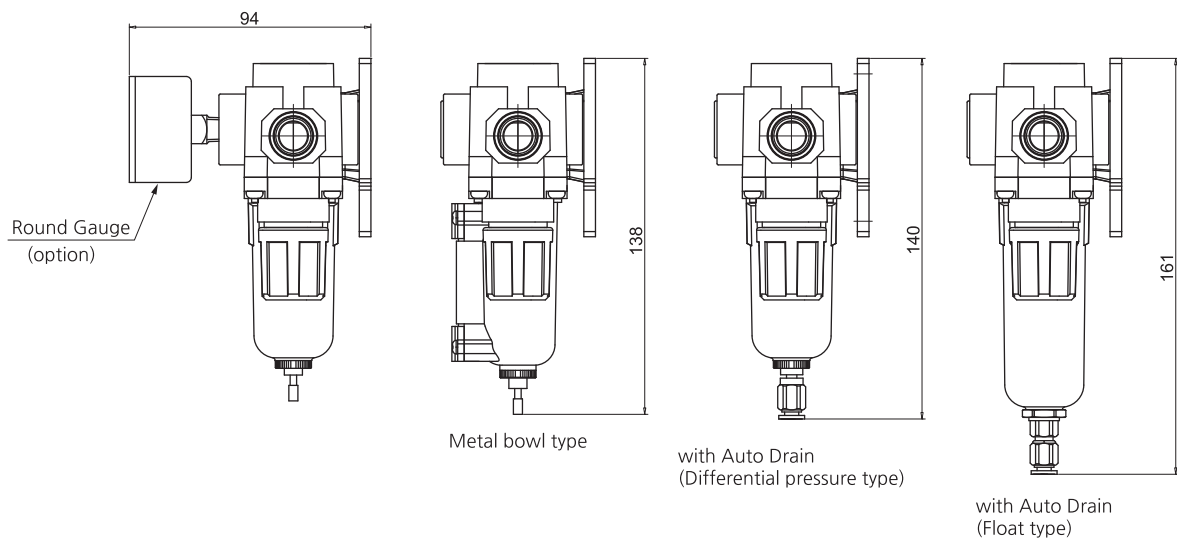
DIMENSIONS (mm)

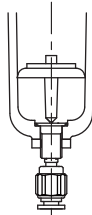
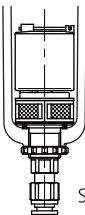
SAU 250

■ SAU250-□02□□-□



■ Dimensions of each model with an option attached



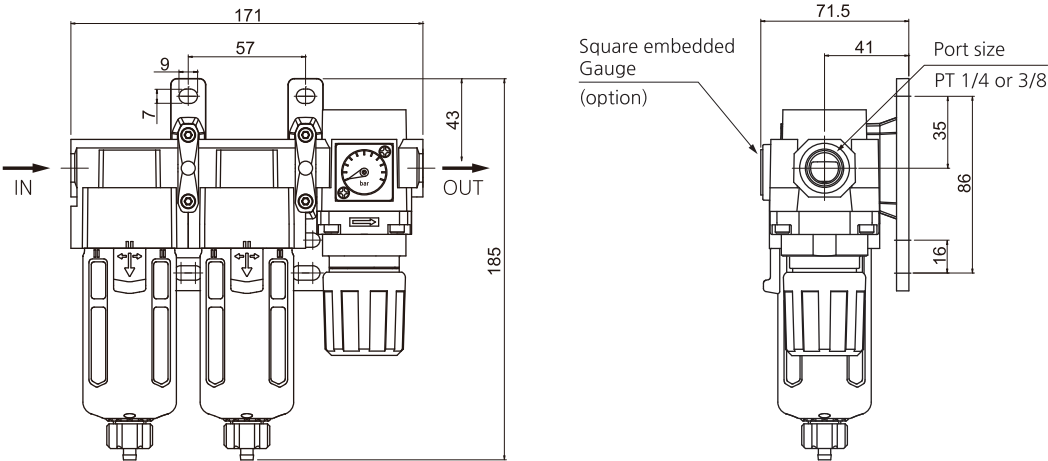
Option	Auto Drain		Gauge	
	D : Differential pressure type	Df : Float type	G : Round type	Gs : Square embedded type
Model		 SAD200	 G40, R1/8	 Gs28

Series SAU250~450

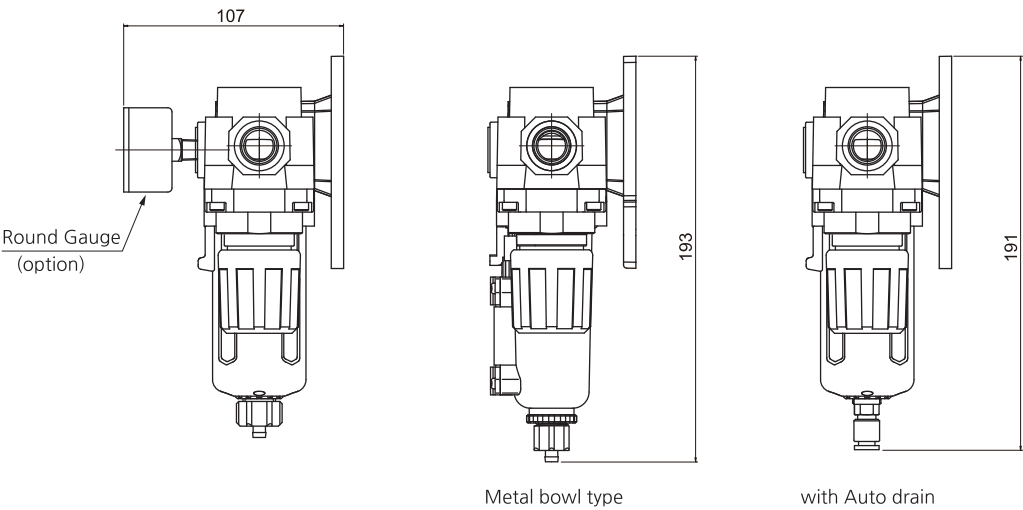
DIMENSIONS (mm)

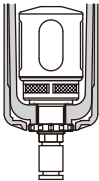
SAU 350

■ SAU350-□03□□-□



■ Dimensions of each model with an option attached

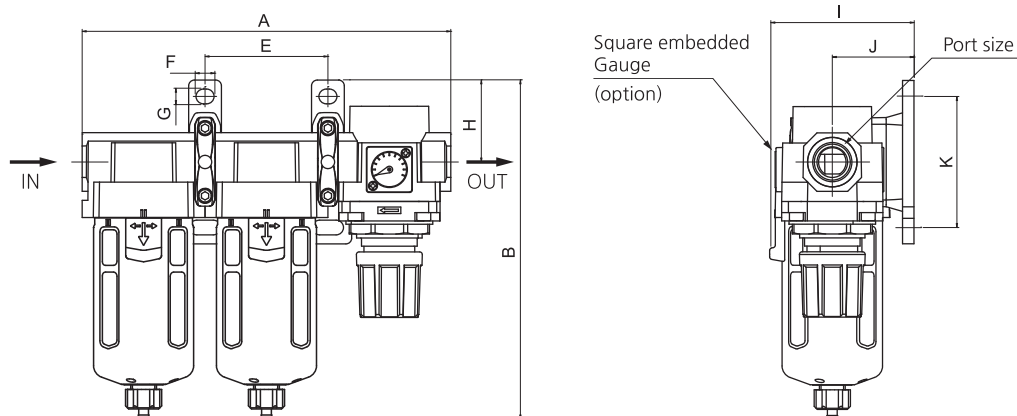


Option	D : Auto Drain	Gauge	
		G : Round type	Gs : Square embedded type
Model	 SAD300	 G40, R1/8	 Gs28

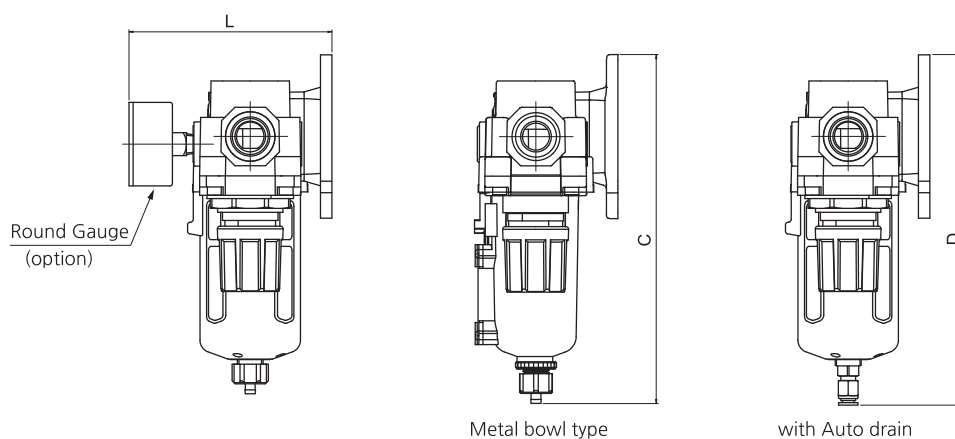
DIMENSIONS (mm)

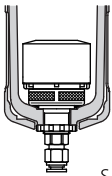
SAU 450

- SAU450-□04□□-□
- SAU450-□06□□-□



- Dimensions of each model with an option attached



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

품명	관접속구경	A	B	C	D	E	F	G	H	I	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



SAU 260



SAU 360

How to order

SAU 4 60 - 04 DG - MeP

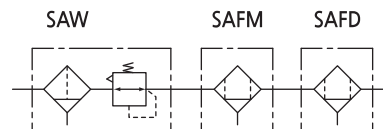
- Air Unit**
- Body Size**
2 - 1/4
3 - 3/8
4 - 1/2
- Composition**
60 — Filter Regulator(SAW)
— Mist Separator(SAFM)
— Micro Mist Separator(SAFD)
- Thread type**
Nil - Rc(PT)
N - NPT
G - G(PF)
- Port size**

기호	사이즈	몸체 사이즈		
		2	3	4
01	1/8	●		
02	1/4	●	●	
03	3/8		●	
04	1/2			●
06	3/4			●
- Accessory(Optional)**
Nil - None gauge / Manual Drain
D - Auto Drain

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

1. SAW, SAFM, SAFD200 are differential pressure type.
 2. SAW, SAFM, SAFD300~400 are float type.
- 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 + 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°C (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

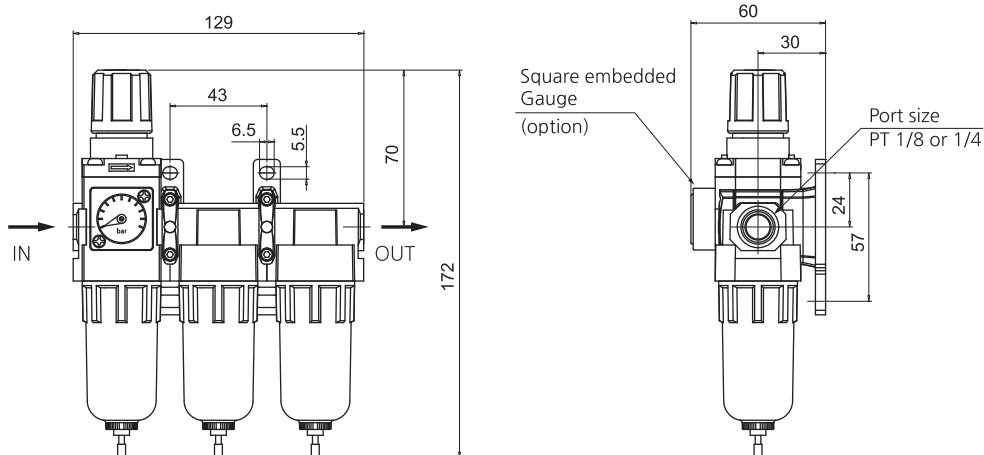
Precautions

- 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.
- Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- 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.
- 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.

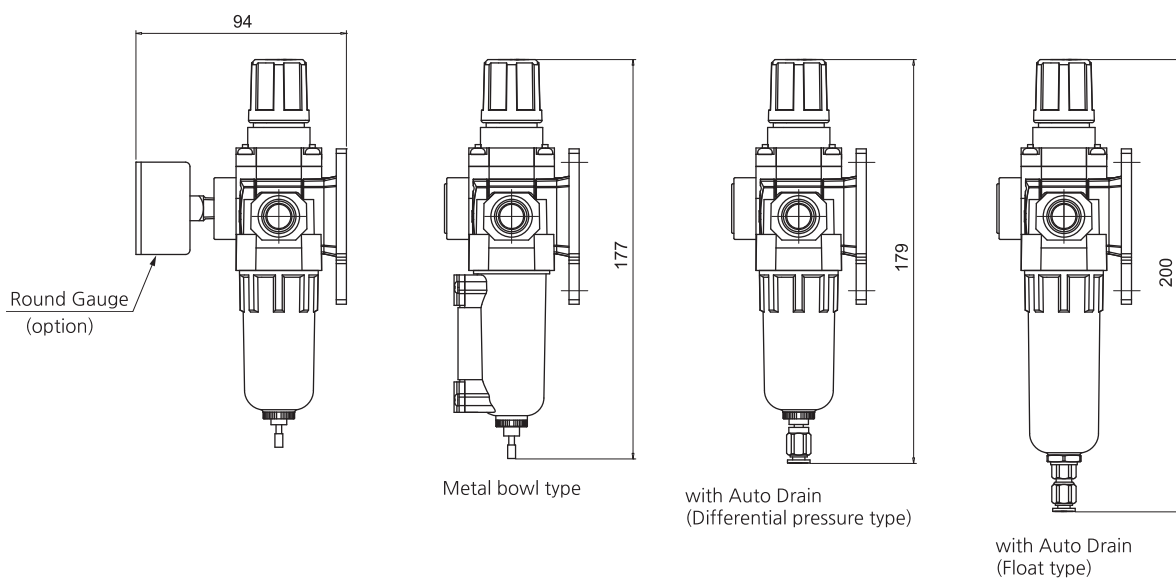
DIMENSIONS (mm)

SAU 260

■ SAU260-□02□□-□



■ Dimensions of each model with an option attached



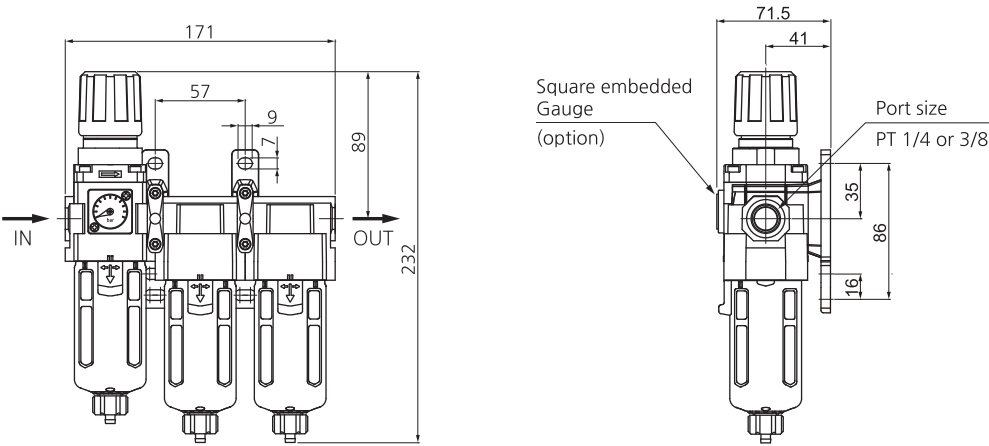
Option	Auto Drain		Gauge	
	D : Differential pressure type	Df : Float type	G : Round type	Gs : Square embedded type
Model		 SAD200	 G40, R1/8	 Gs28

Series SAU260~460

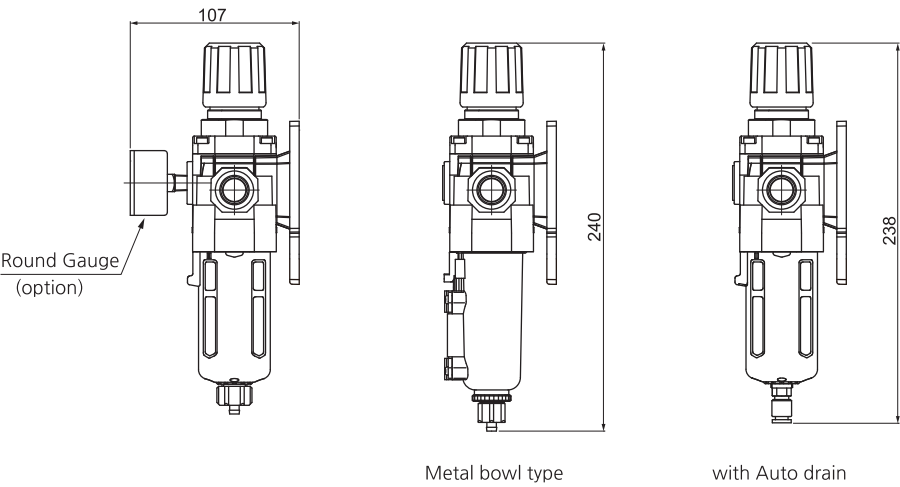
DIMENSIONS (mm)

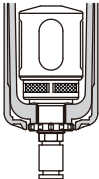
SAU 360

■ SAU360-□03□□-□



■ Dimensions of each model with an option attached

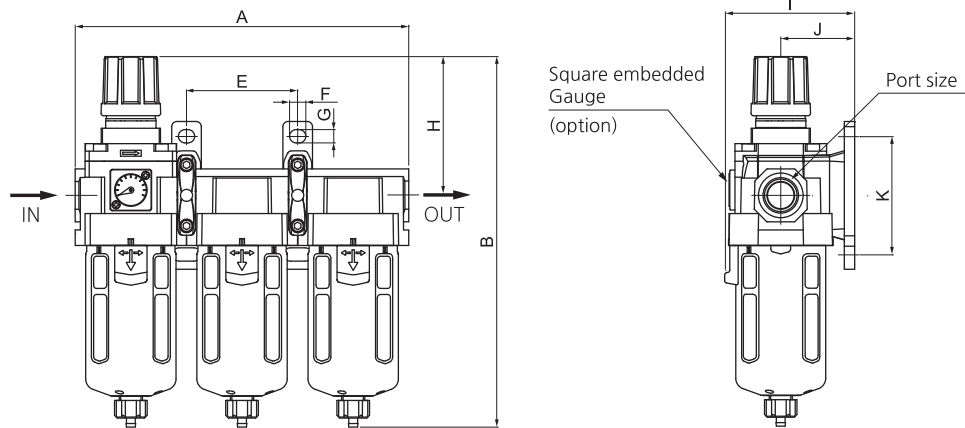


Option	D : Auto Drain	Gauge	
		G : Round type	Gs : Square embedded type
Model	 SAD300	 G40, R1/8	 Gs28

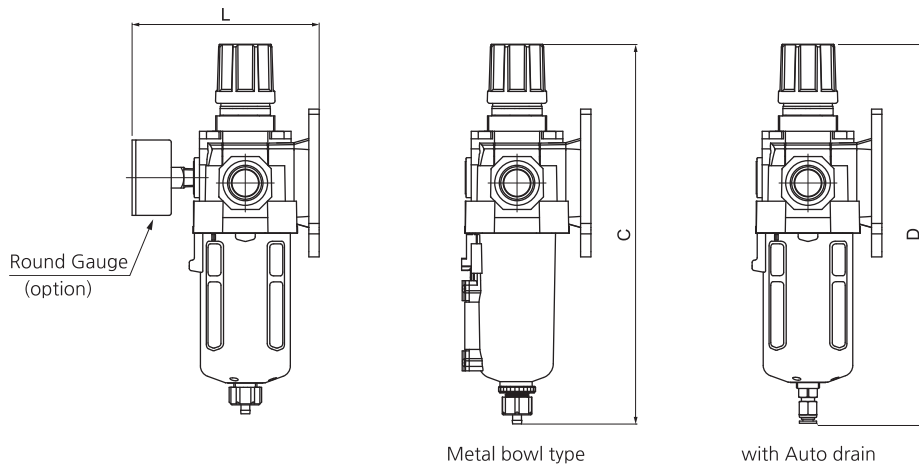
DIMENSIONS (mm)

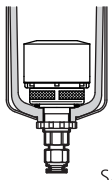
SAU 460

- SAU460-□04□□-□
- SAU460-□06□□-□



- 기타 옵션부착시 치수



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

품명	관접속구경	A	B	C	D	E	F	G	H	I	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



SAU800



SAU820

How to order

SAU 8 00 - 14 DG - MeP

- ① Air Unit
- ② **Body Size**
 - 8 - 1 1/2
 - 9 - 2
- ③ **Composition**
 - 00
 - Filter(SAF)
 - Regulator(SAR)
 - Lubricator(SAL)
 - 20
 - Filter(SAF)
 - Regulator(SAR)
- ④ **Thread type**
 - 무기호 - Rc(PT)
 - N - NPT
 - G - G(PF)
- ⑤ **Port Size**

Symbol	Size	Body size	
		8	9
12	1 1/4	●	
14	1 1/2	●	
20	2		●
- ⑥ **Accessory(Optional)**
 - Nil - None Gauge / Manual Drain
 - D - Auto Drain

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

 - G - Gauge
- ⑦ **Bowl**
 - PcS - Polycarbonate bowl with Steel guard
 - MeP - Metal bowl with pipe type sight glass

Specification

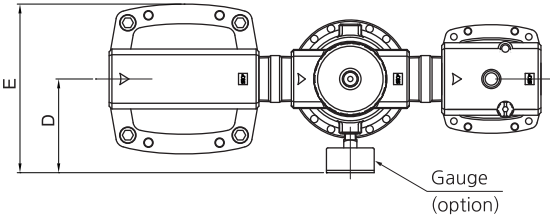
Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	-5 ~ 60℃ (No freezing)
Regulating range(SAR)	0.5~8.5bar (0.05~0.85MPa)
Filtration(SAF)	5μm (option: 40)
Recommended oil(SAL)	Turbin oil (ISO VG32)
Construction(SAR)	Internal pilot relieving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

Precautions

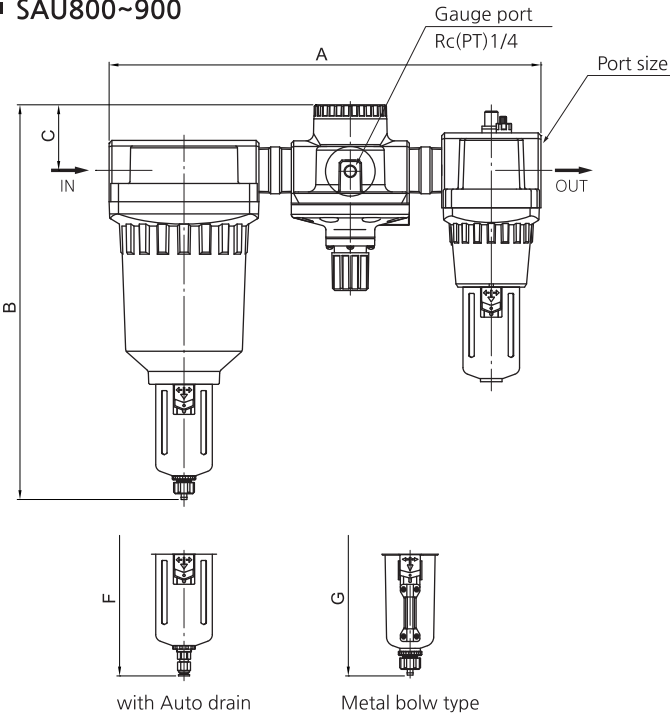
- ① Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- ② Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- ③ 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.

DIMENSIONS (mm)

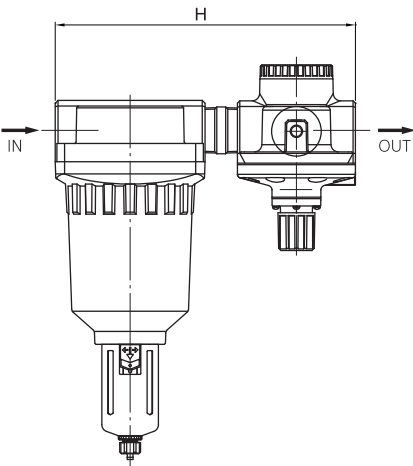
SAU 800~920

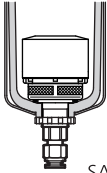


SAU800~900



SAU820~920



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

Model	Port size	A	B	C	D	E	F	G	H
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



SAU220H



SAU320H



SAU420H



SAU620H

How to order

SAU 4 20 H - 04 G

- ① Air Unit
- ② **Body Size**
 - 2 - 1/4
 - 3 - 3/8
 - 4 - 1/2, 3/4
 - 6 - 1
- ③ **Composition**
 - 20 Filter(SAF)
 - Regulator(SAR)
- ④ for High pressure
- ⑤ **Thread type**
 - Nil - Rc(PT)
 - N - NPT
 - G - G(PF)
- ⑥ **Port Size**

기호	사이즈	몸체 사이즈			
		2	3	4	6
01	1/8	●			
02	1/4	●	●		
03	3/8		●		
04	1/2			●	
06	3/4			●	●
10	1				●
- ⑦ **Accessory(Optional)**
 - Nil - None gauge
 - G - Gauge

Specification

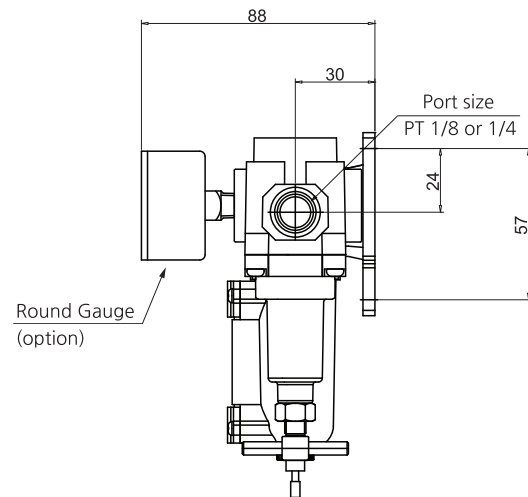
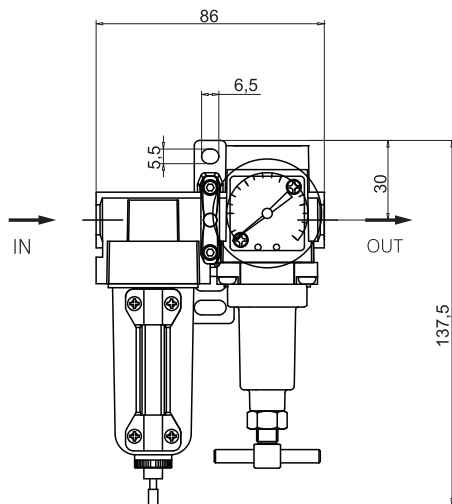
Fluid	Compressed Air
Max. operating pressure	20bar (2MPa)
Max. supply pressure	30bar (3MPa)
Ambient and Media temp.	-5 ~ 60°C (No freezing)
Regulating range(SAR, SAW)	1~17bar (0.1~1.7MPa)
Filtration(SAF, SAW)	5μm (option: 2, 10, 20, 40)
Bowl material(SAF)	ALDC
Construction(SAR)	Relief type

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.
- ⑥ Avoid riser piping and branch lines on the outlet side to prevent inferior lubrication.

DIMENSIONS (mm)

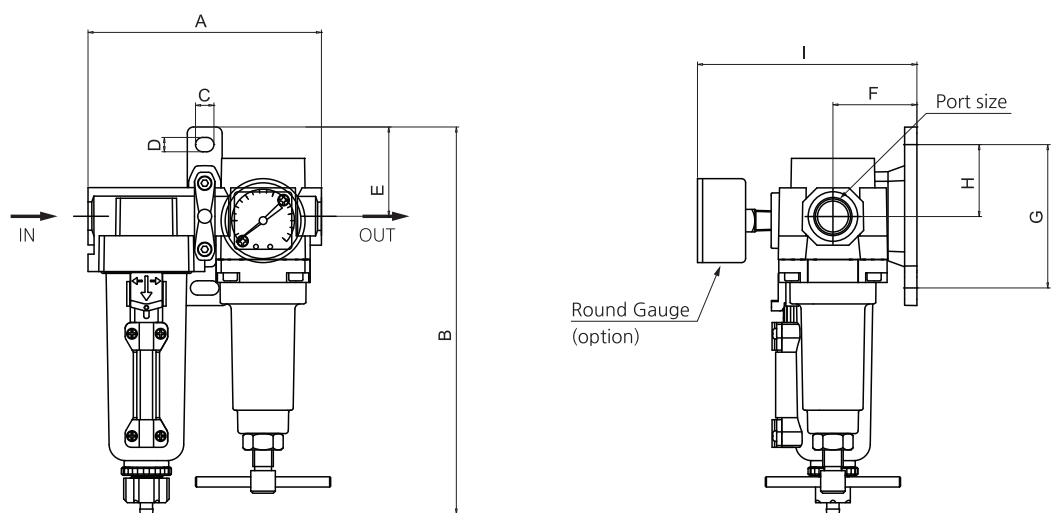
SAU 200H



Series SAU220H~620H

DIMENSIONS (mm)

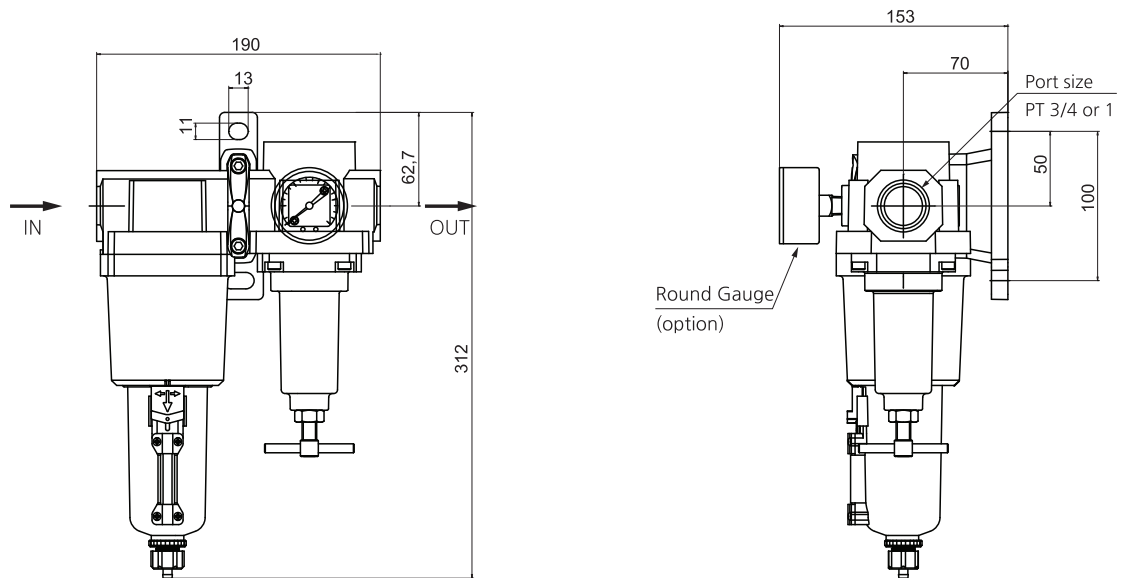
SAU 320H~420H



Model	Port size	A	B	C	D	E	F	G	H	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

DIMENSIONS (mm)

SAU 620H



Filter Regulator (SAW)

SAW100~600 Series

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



SAW100

SAW200

SAW300

SAW400

SAW600

How to order

SAW 4 00 - 04 BDG - MeP

① Filter regulator

② **Body Size**

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

③ **Thread type**

- Nil - Rc(PT)
- N - NPT
- G - G(PF)

④ **Port Size**

Symbol	Size	Body 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				
		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

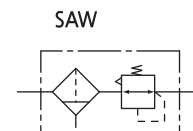
G	Round type gauge
Gs	Square embedded type

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



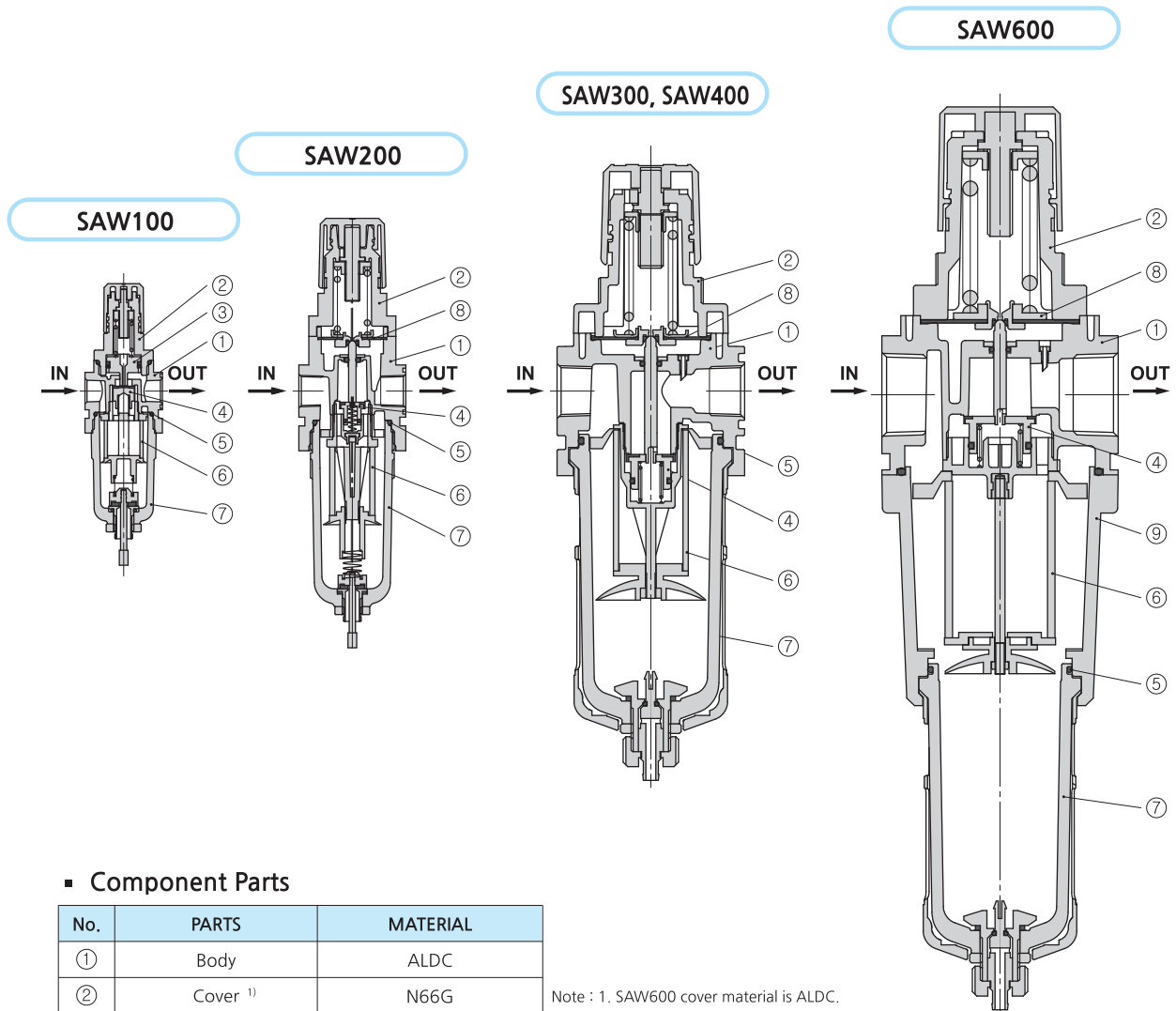
Specification

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 (0.05~0.85MPa)
Filtration	10μm (option: 2, 5, 20, 40)
Bowl material	Poly-carbonate (option: ALDC)
Bowl Guard Material	Nylon
Construction	Relief type

Precautions

- 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.
- 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.
- 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.

STRUCTURE / PARTS



■ Component Parts

No.	PARTS	MATERIAL
①	Body	ALDC
②	Cover ¹⁾	N66G
③	Piston ²⁾	N66G
④	Check valve Ass'y	Brass, NBR
⑦	Bowl Ass'y ³⁾	PC & Nylon
⑧	Diaphragm Ass'y	NBR
⑨	Housing	ALDC

Note : 1. SAW600 cover material is ALDC.

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

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

■ Replacement Parts

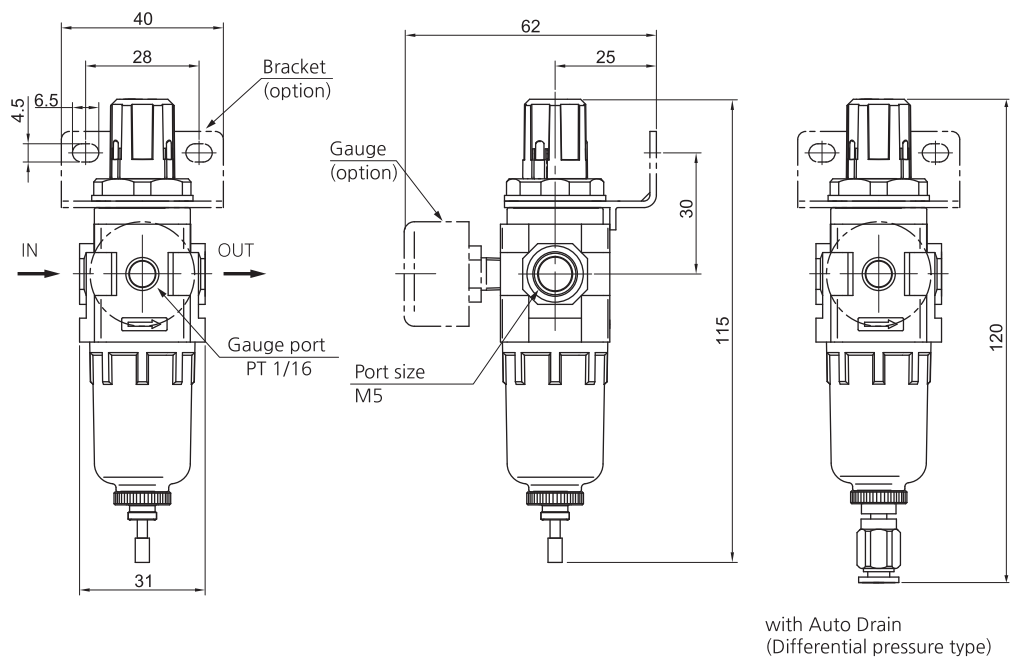
No.	PARTS	MATERIAL	Part no.				
			SAW100	SAW200	SAW300	SAW400	SAW600
⑤	O-ring	NBR	S22	U024	38x2	U137	U137
⑥	Element	-	W100-EL	W200-EL	W300-EL	W400-EL	W600-EL

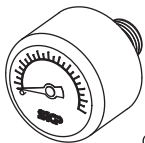
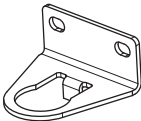
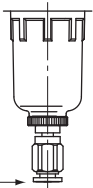
Series SAW100~600

DIMENSIONS (mm)

SAW 100

■ SAW100-□01(M5)□□

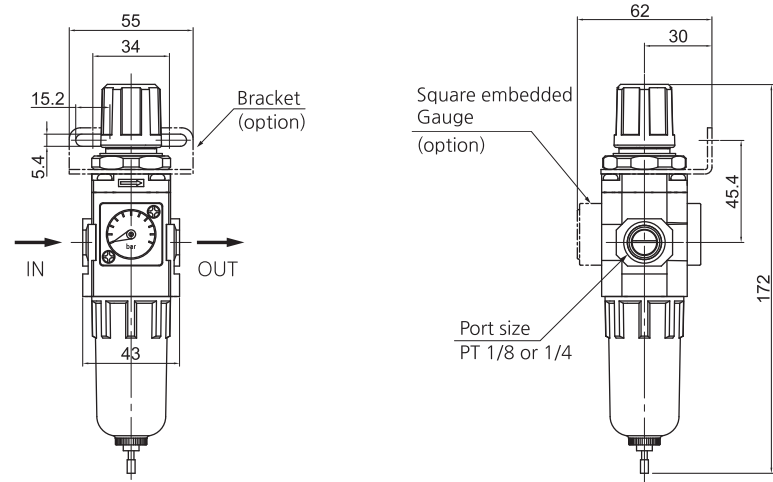


Option	G : Gauge	B : Bracket	D : Auto Drain (Differential pressure type)
Model	 G25, R1/16	 B120	 Φ4mm One-touch fitting

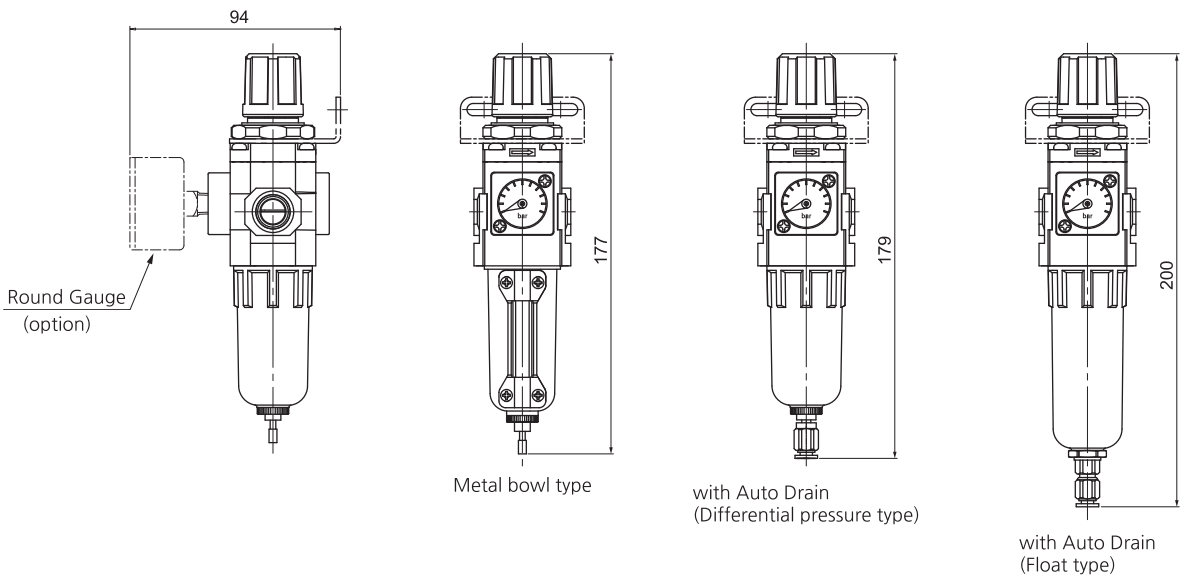
DIMENSIONS (mm)

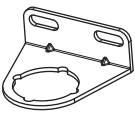
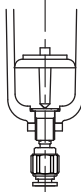
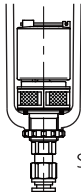
SAW 200

SAW200-□02□□□-□



Dimensions of each model with an option attached



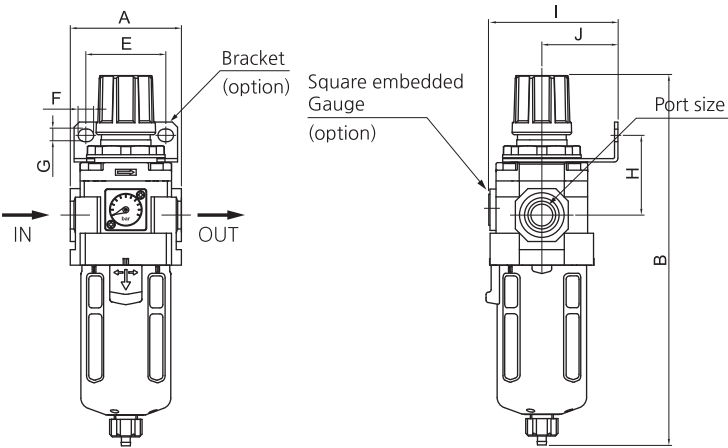
Option	B : Bracket	Gauge		Auto Drain	
		Gs : Square embedded	G : Round type	D : Differential pressure	Df : Float type
Model	 B220	 Gs28	 G40, R1/8		 SAD200

Series SAW100~600

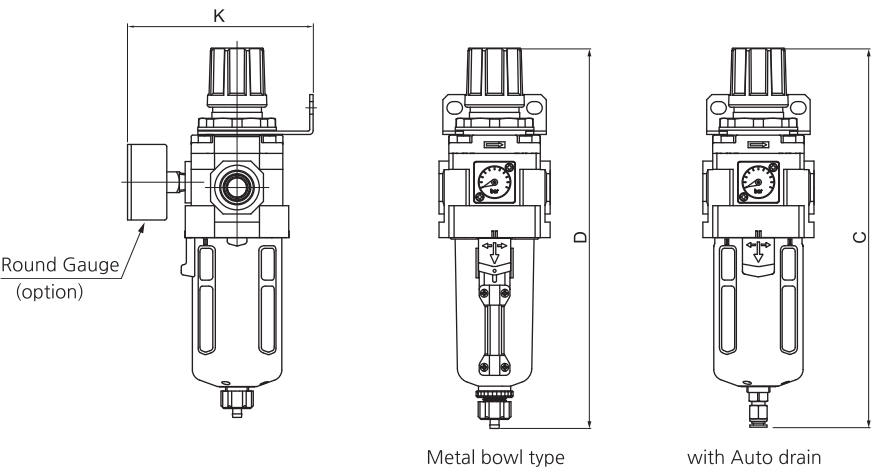
DIMENSIONS (mm)

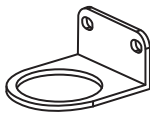
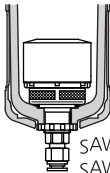
SAW 300~400

- SAW300-□03□□□-□
- SAW400-□04(06)□□□-□



- Dimensions of each model with an option attached



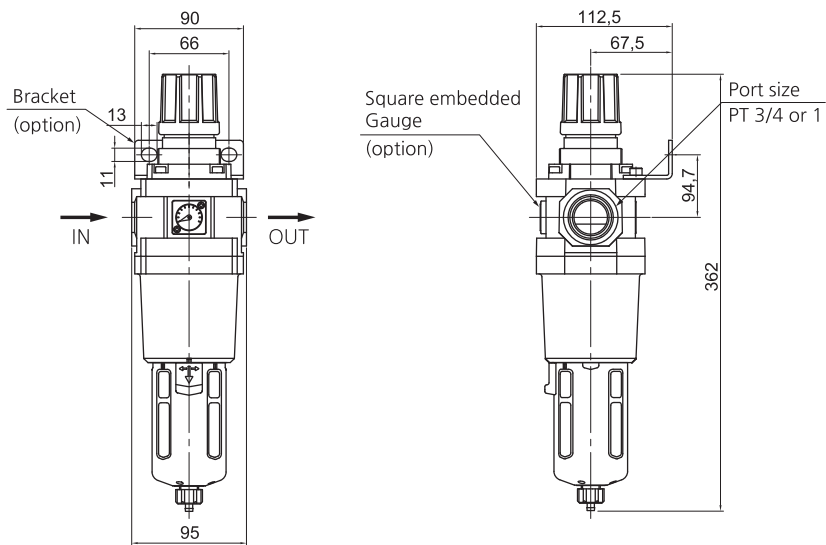
Option	B : Bracket	D : Auto Drain	Gauge	
			G : Round type	Gs : Square embedded type
Model	 SAW300 : B320 SAW400 : B420	 SAW300 : SAD300 SAW400 : SAD400	 SAW300 : G40, R1/8 SAW400 : G50, R1/4	 Gs28

Model	Port size	A	B	C	D	E	F	G	H	I	J	K
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

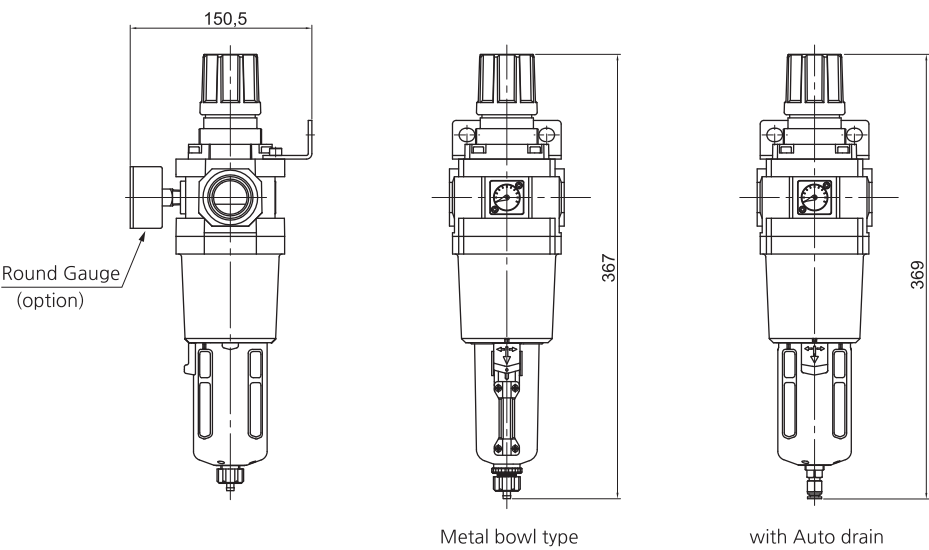
DIMENSIONS (mm)

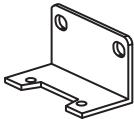
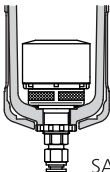
SAW 600

SAW600-□06(10)□□□-□



기타 옵션부착시 치수



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

Filter regulator for High Pressure (SAW)

SAW200H~600H Series



SAW200H



SAW300H



SAW400H



SAW600H

How to order

SAW 4 00 H - 04 BG

① Filter regulator

② Body Size

2 - 1/4
3 - 3/8
4 - 1/2, 3/4
6 - 1

③ for High pressure

④ Thread type

Nil - Rc(PT)
N - NPT
G - G(PF)

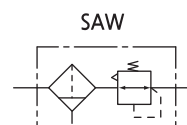
⑤ Port size

Symbol	Size	Body 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)			
Gauge Port size	SAW200H	SAW300H	SAW400H	SAW600H
	1/8		1/4	
Construction	Relief type			

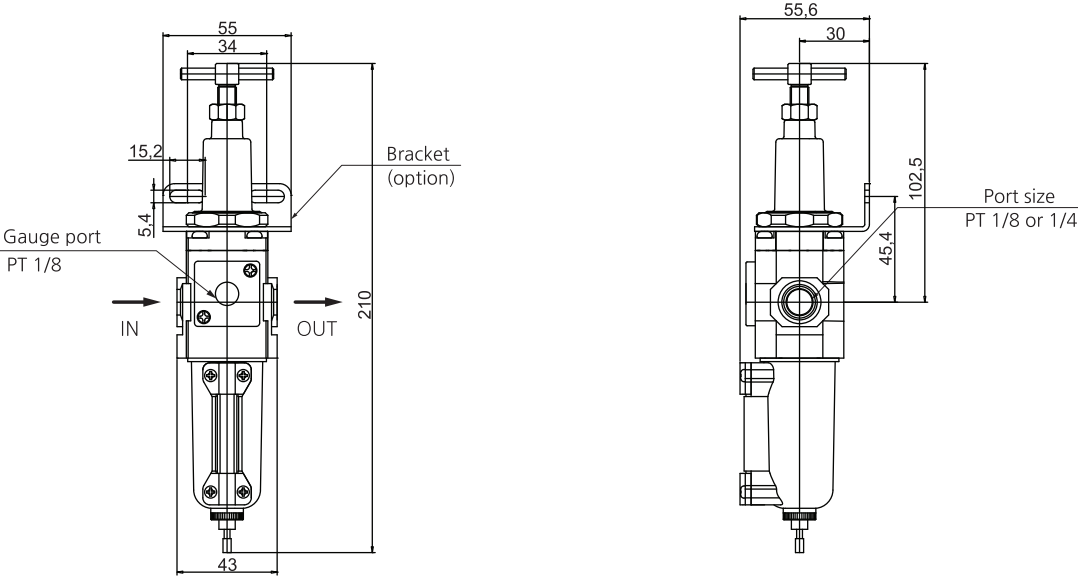
Precautions

- 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.
- 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.

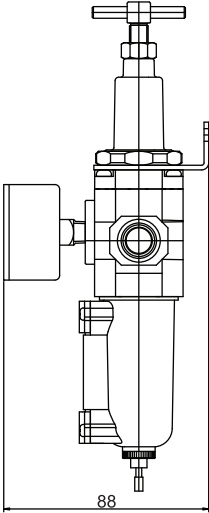
DIMENSIONS (mm)

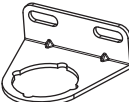
SAW 200H

■ SAW200H-□02□□



■ Dimensions of each model with an option attached

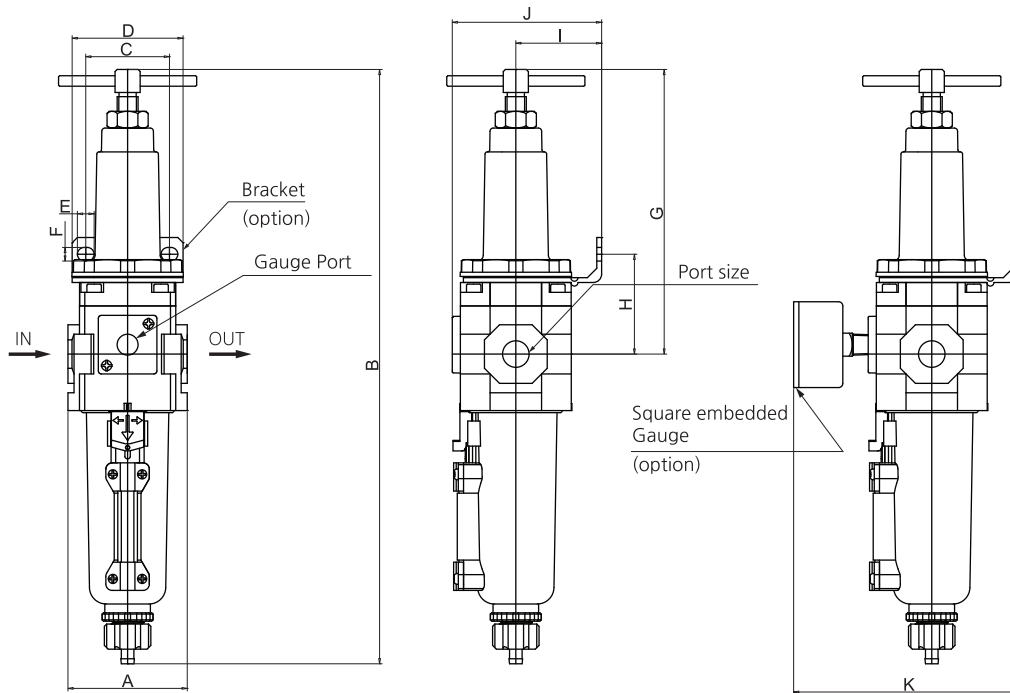


Option	G : Round type	B : Bracket
Model	 Gh40, R1/8	 B220

DIMENSIONS (mm)

SAW 300H~400H

- SAW300H□-□03□□
- SAW400H□-□04(06)□□



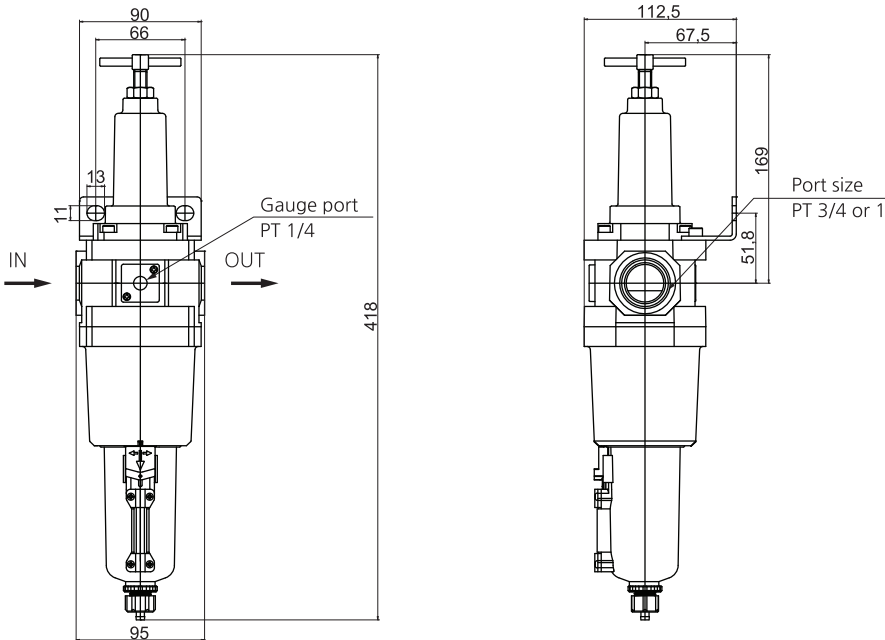
옵션	G : Round type	B : Bracket
품명	 SAW300H : Gh40, R1/8 SAW400-04(06)H : Gh50, R1/4	 SAW300H : B320 SAW400-04(06)H : B420

Model	Port size	A	B	C	D	E	F	G	H	I	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

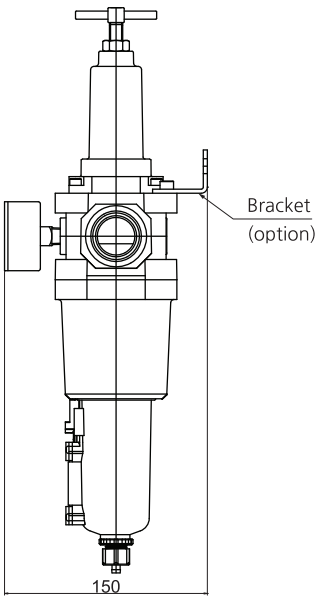
DIMENSIONS (mm)

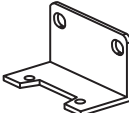
SAW 600H

- SAW600H□-□06□□
- SAW600H□-□10□□



- Dimensions of each model with an option attached



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

SAWM 4 00 - 04 BDG - MeP
Mist Separator Regulator

SAWD 4 00 - 04 BDG - MeP
Micro Mist Separator Regulator

① Body Size

2 - 1/4
3 - 3/8
4 - 1/2

② Thread type

Nil - Rc(PT)
N - NPT
G - G(PF)

③ Port Size

기호	사이즈	몸체 사이즈		
		2	3	4
01	1/8	●		
02	1/4	●	●	
03	3/8		●	
04	1/2			●

④ Accessory(Optional)

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

Symbol	Description	Body		
		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.

G - Gauge

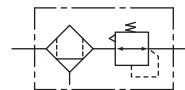
G	Round type gauge
Gs	Square embedded type

⑤ Bowl

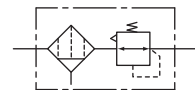
Nil - Polycarbonate bowl with Nylon guard
PcS - Polycarbonate bowl with Steel guard
MeP - Metal bowl with pipe type sight glass

Symbol

SAWM



SAWD



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 (0.05~0.85MPa)	
Filtration	SAWM	0.1μm
	SAWD	0.01μm
Bowl material	Poly-carbonate (option: ALDC)	
Bowl Guard Material	Nylon	
Construction	Relief type	

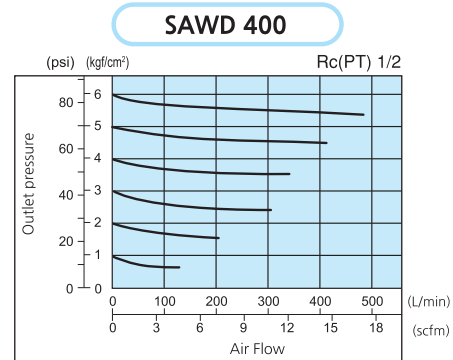
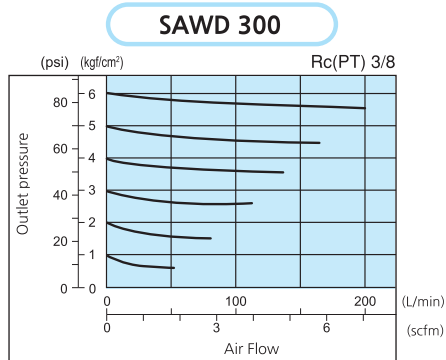
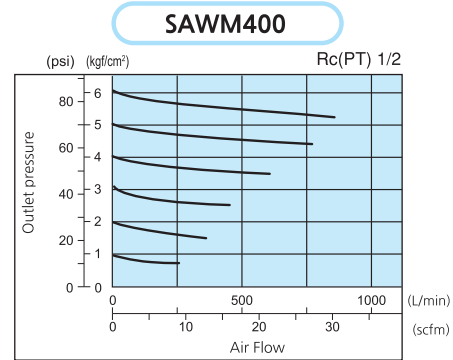
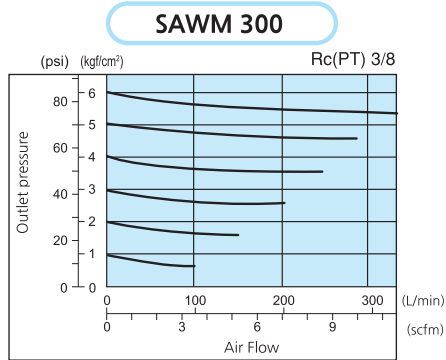
Precautions

- 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 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

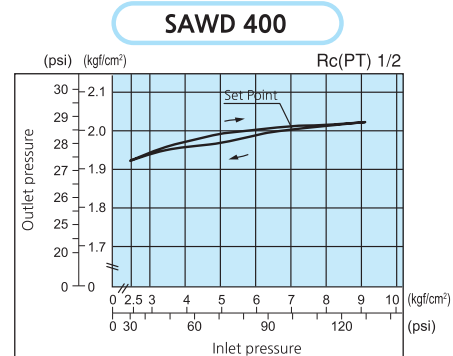
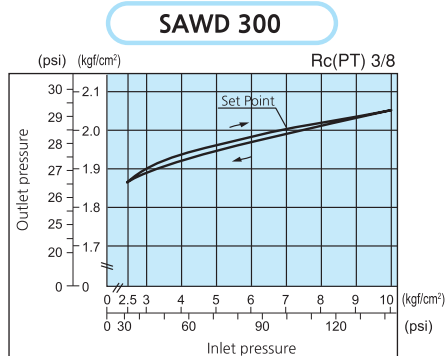
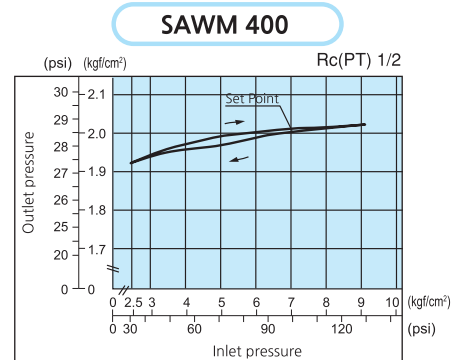
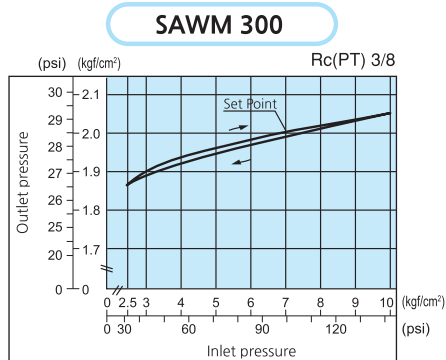
FLOW CHARACTERISTICS

Inlet pressure 7kg/cm²



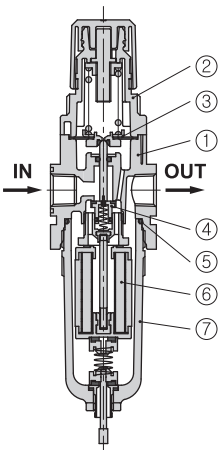
PRESSURE CHARACTERISTICS

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

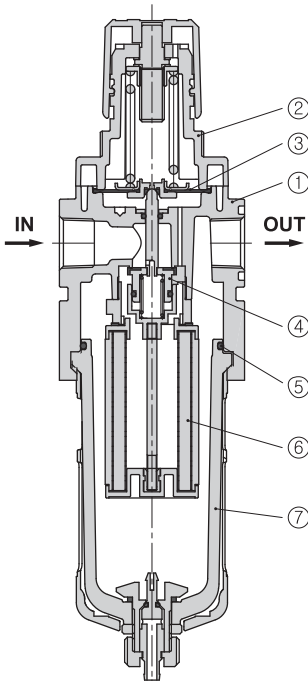


STRUCTURE / PARTS

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).

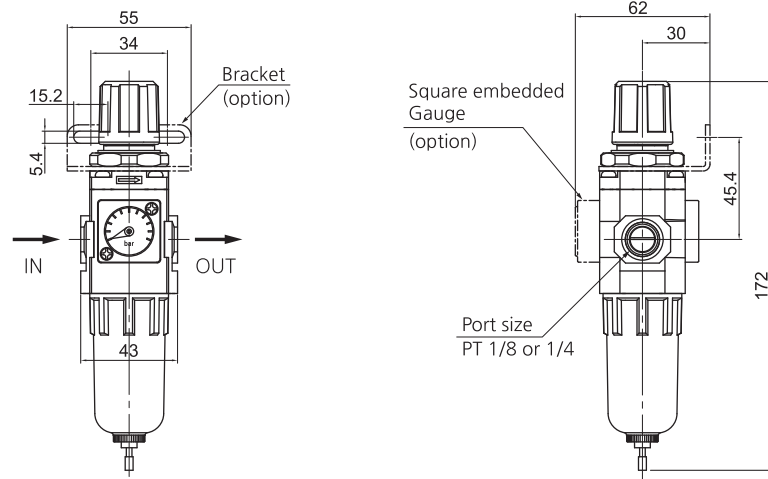
■ Replacement Parts

No.	PARTS	MATERIAL	Part no.					
			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

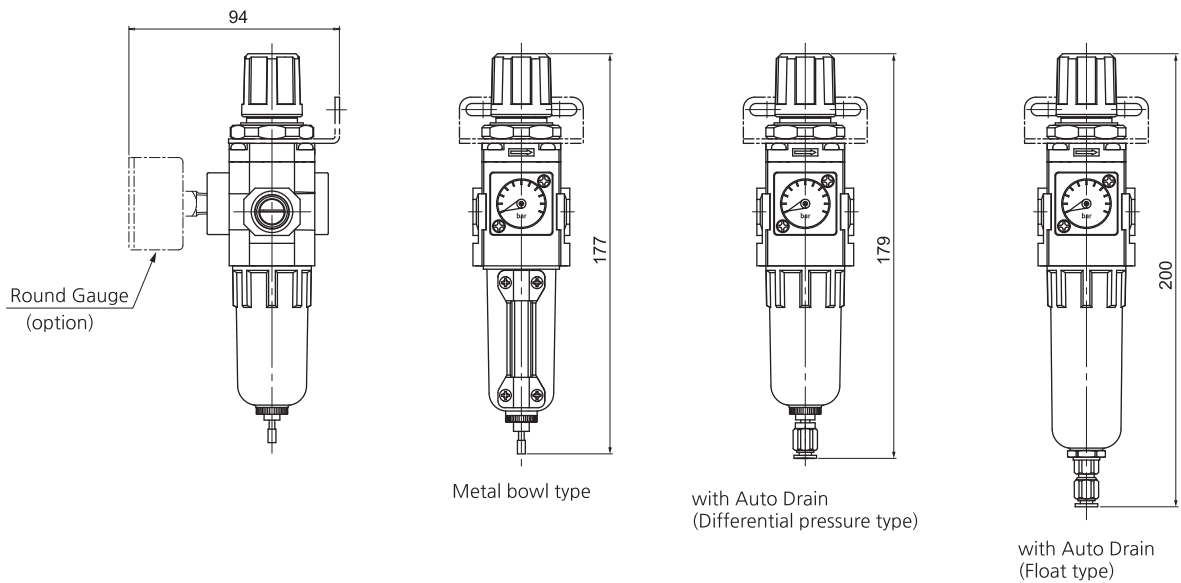
DIMENSIONS (mm)

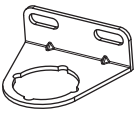
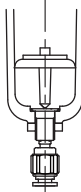
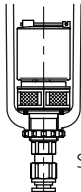
SAWM(SAWD) 200

■ SAWM(SAWD)200-□02□□□-□



■ Dimensions of each model with an option attached

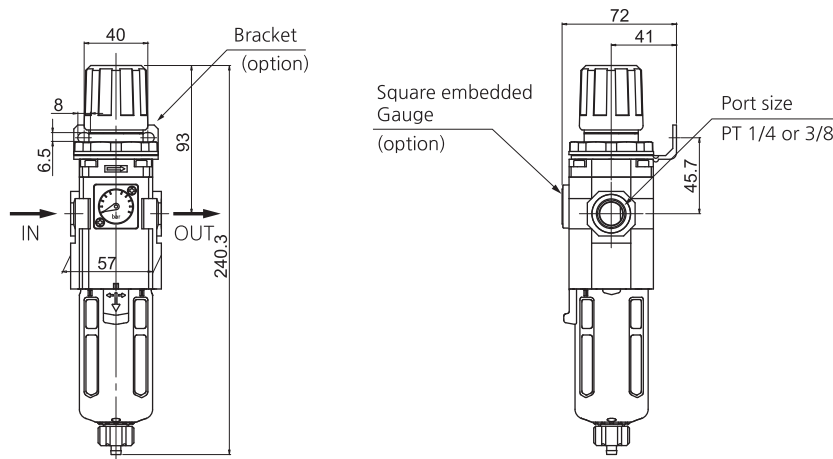


Option	B : Bracket	Gauge		Auto Drain	
		Gs : Square embedded	G : Round type	D : Differential pressure	Df : Float type
Model	 B220	 Gs28	 G40, R1/8		 SAD200

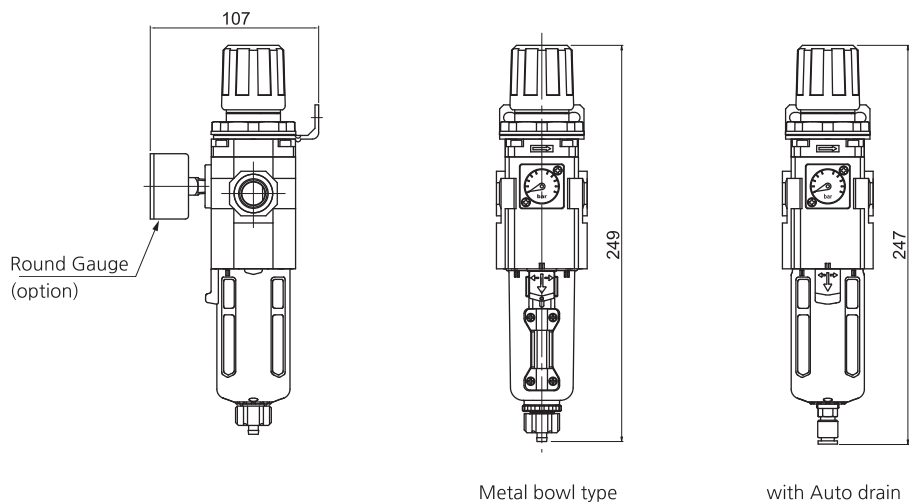
DIMENSIONS (mm)

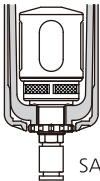
SAWM(SAWD) 300

SAWM(SAWD)300-□03□□□-□



Dimensions of each model with an option attached

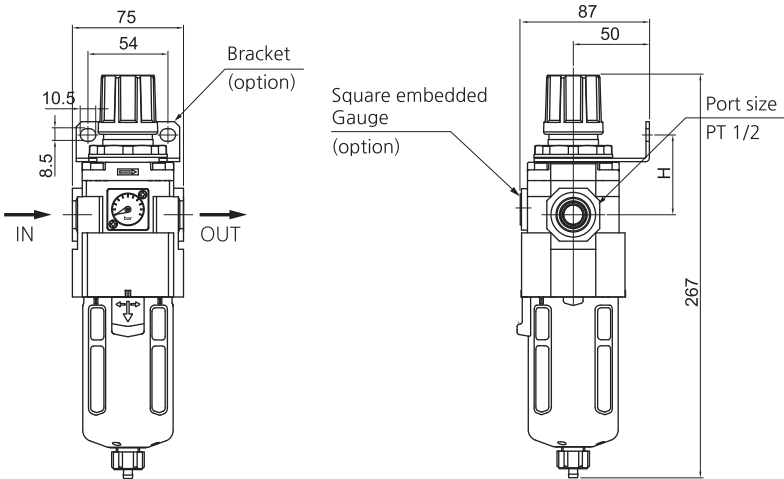


Option	B : Bracket	D : Auto Drain	Gauge	
			G : Round type	Gs : Square embedded type
Model	 B320	 SAD300	 G40, R1/8	 Gs28

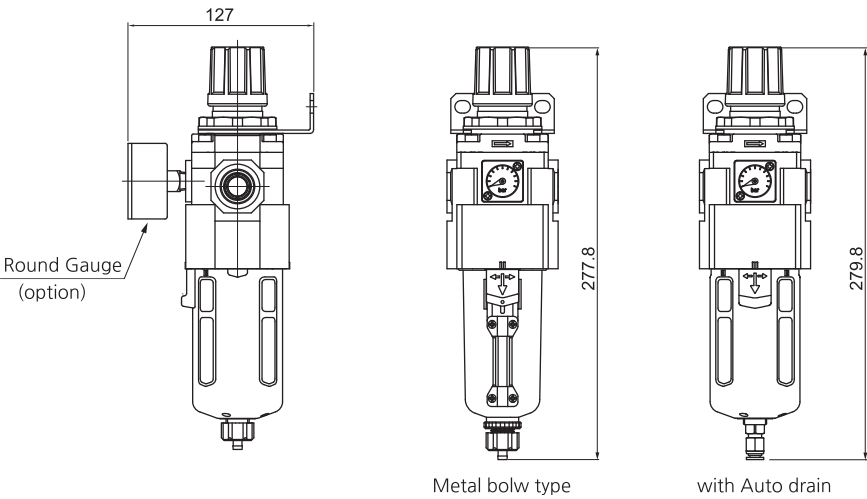
DIMENSIONS (mm)

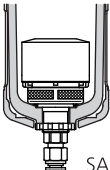
SAWM(SAWD) 400

SAWM(SAWD)400-□04□□□-□



Dimensions of each model with an option attached



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

Air Filter (SAF)

SAF100~600 Series



SAF100

SAF200

SAF300

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

Symbol	Size	Body 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

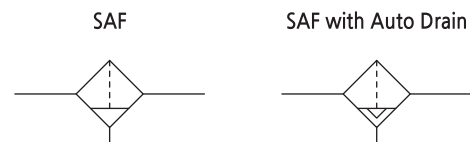
Symbol	Description	Body				
		1	2	3	4	6
D	One-touch fitting type	●	●	●	●	●
Dn	Nipple(PT1/8) type	-	-	●	●	●
Df	SAF200 Float type	-	●	-	-	-

※ 1. SAF100 and SAF200 are 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



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

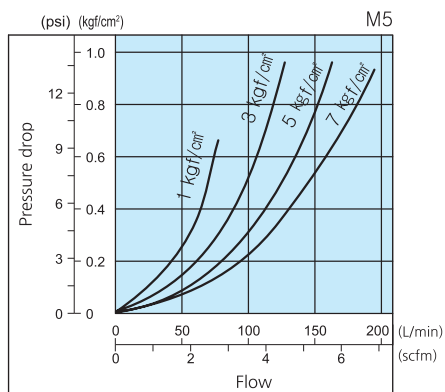
Precautions

- 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.
- Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- 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.
- When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.
- 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.

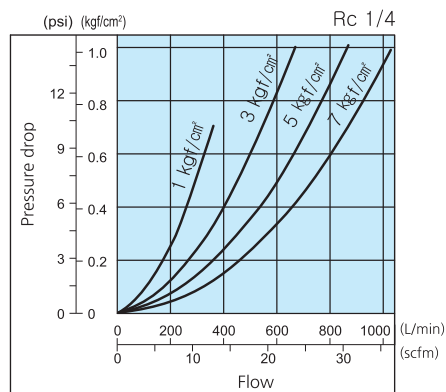
FLOW CHARACTERISTICS

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.

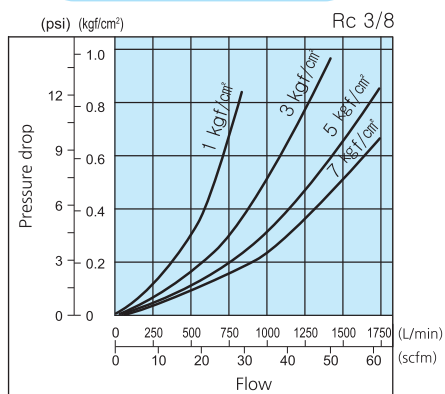
SAF 100



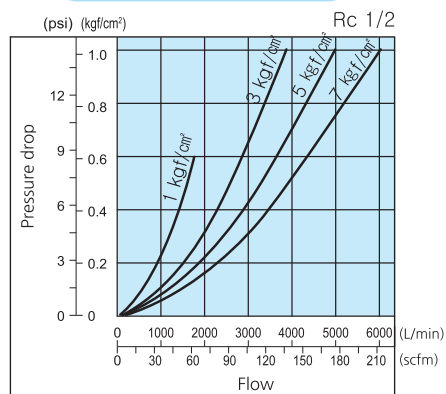
SAF 200



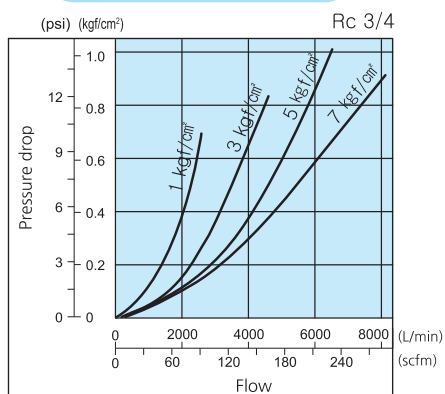
SAF 300



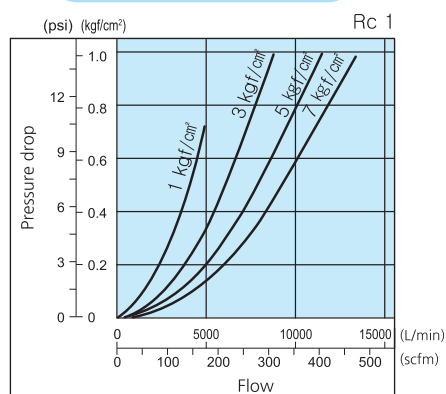
SAF 400-04



SAF 400-06



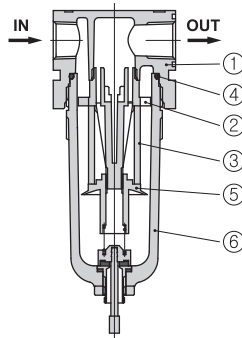
SAF 600



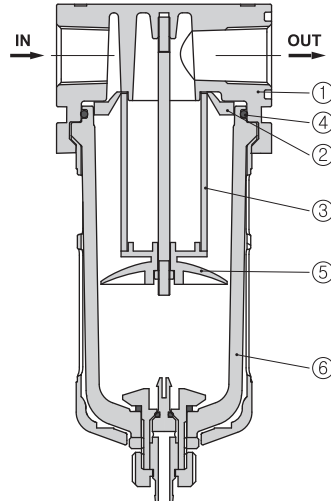
Series SAF100~600

STRUCTURE / PARTS

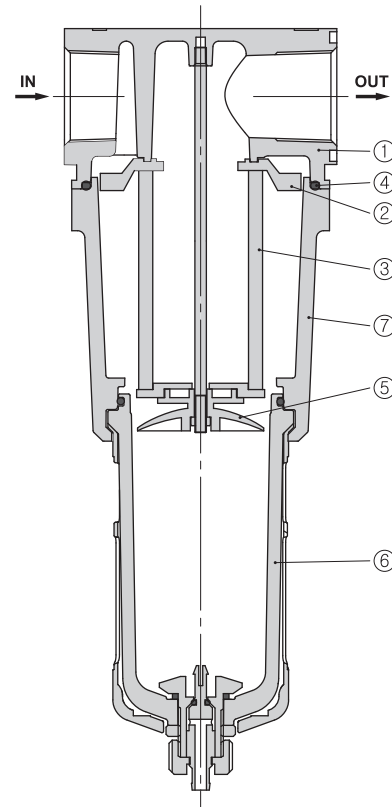
SAF100, SAF200



SAF300, SAF400



SAF600



■ 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).

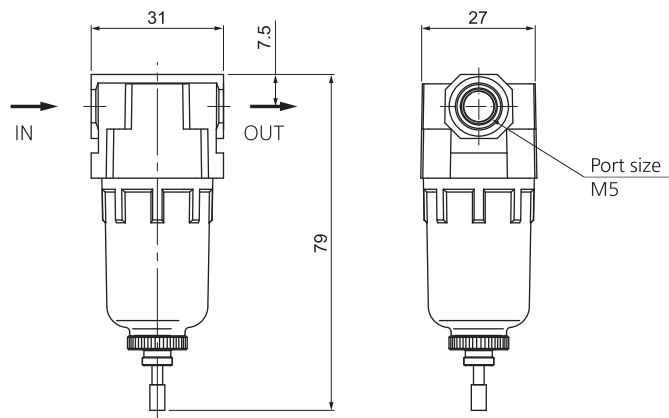
■ Replacement Parts

No.	PARTS	MATERIAL	Part no.				
			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

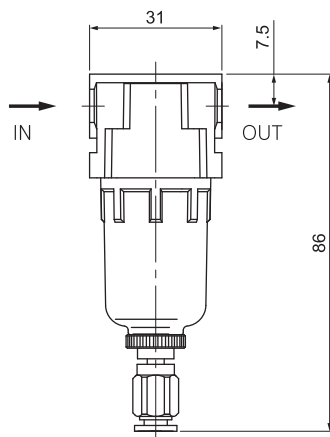
DIMENSIONS (mm)

SAF 100

■ SAF100-□01(M5)□



■ Dimensions of each model with an option attached



with Auto Drain
(Differential pressure type)

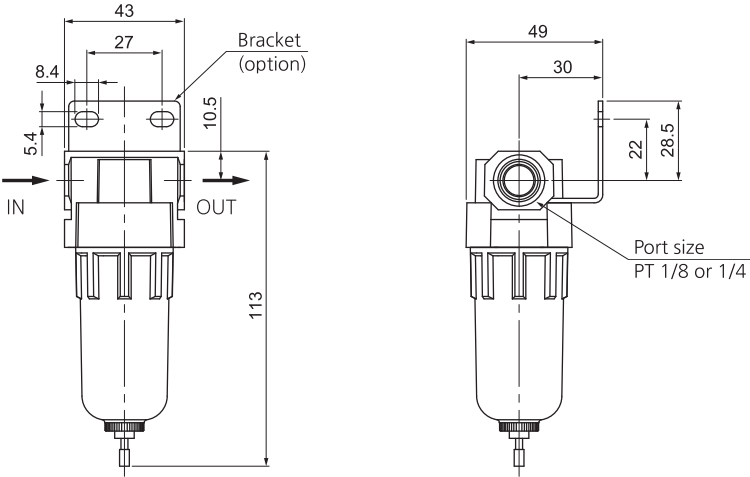
Option	D : Auto Drain (Differential pressure type)
Model	φ4mm one-touch fitting

Series SAF100~600

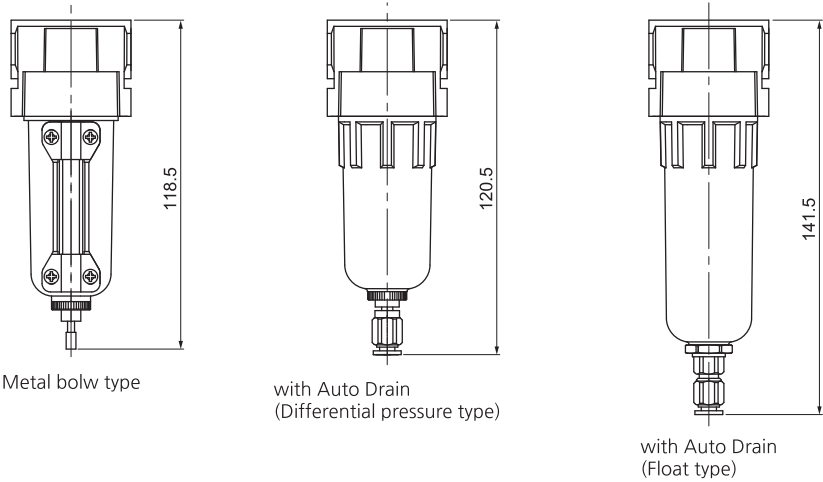
DIMENSIONS (mm)

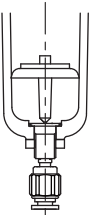
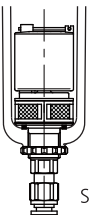
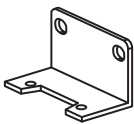
SAF 200

■ SAF200-□02□□



■ Dimensions of each model with an option attached

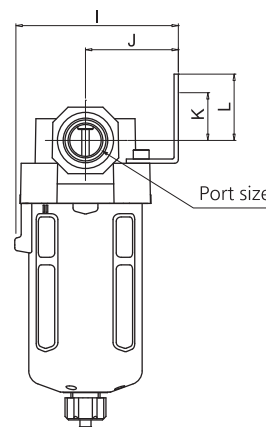
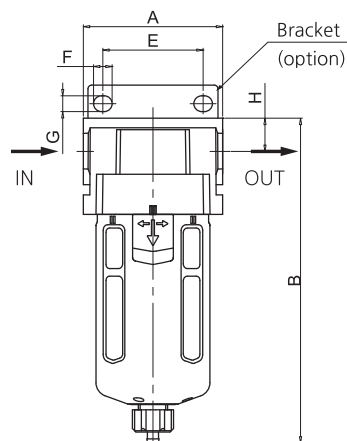


Option	Auto Drain		B : Bracket
	D : Differential pressure type	Df : Float type	
Model		 SAD200	 B200

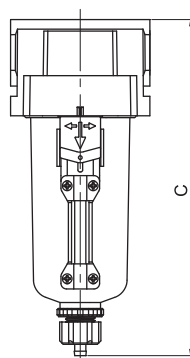
DIMENSIONS (mm)

SAF 300~400

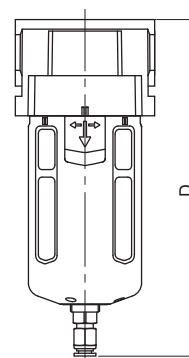
- SAF300-□03□□
- SAF400-□04(06)□□



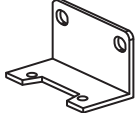
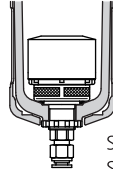
- Dimensions of each model with an option attached



Metal bowl type



with Auto drain

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

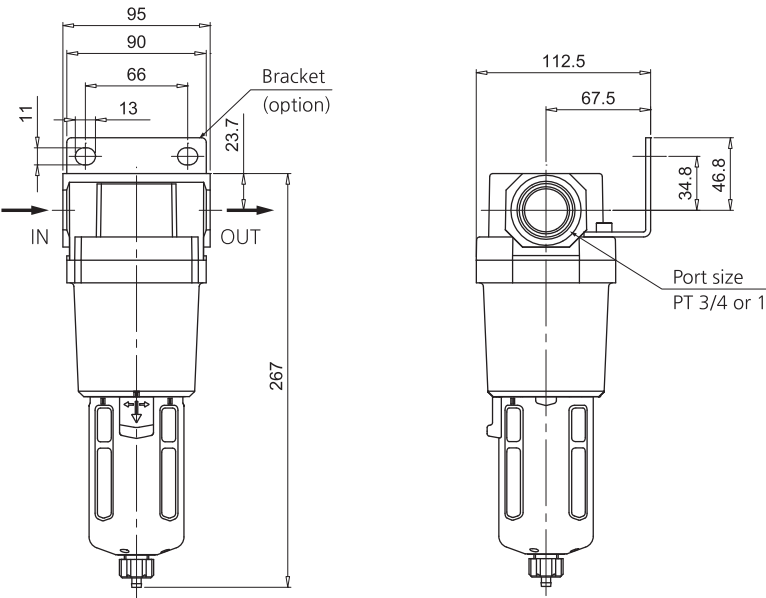
Model	Port size	A	B	C	D	E	F	G	H	I	J	K	L
SAF300-03	1/4, 3/8	57	143	151	149	40	7.9	6.3	14	65	36.5	14	21
SAF400-04	1/2	75	174	179	181	54	10	8.5	17.9	85	50	25.7	35.7
SAF400-06	3/4	75	178	183	185	54	10	8.5	19.8	85	50	25.1	35.1

Series SAF100~600

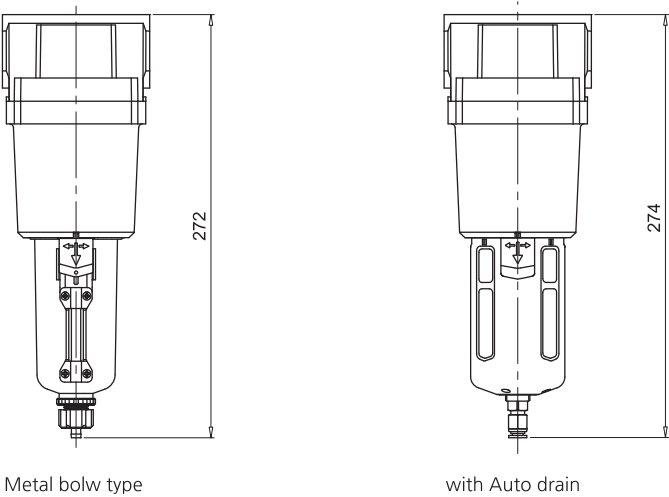
DIMENSIONS (mm)

SAF 600

- SAF600-□06□□
- SAF600-□10□□



- Dimensions of each model with an option attached



Option	B : Bracket	D : Auto Drain
Model	 B600	 SAD400

Filter for High Pressure(SAF)

SAF200H~600H Series



SAF200H



SAF300H



SAF400H



SAF600H

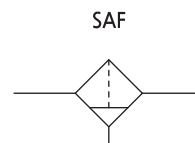
How to order

- SAF 4 00 H - 04 B**
- ① **Filter**
 - ② **Body Size**
2 - 1/4
3 - 3/8
4 - 1/2
6 - 1
 - ③ **for High pressure**
 - ④ **Thread type**
Nil - Rc(PT)
N - NPT
G - G(PF)
 - ⑤ **Port size**

기호	사이즈	몸체 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 / 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°C (No freezing)
Filtration	10μm (option: 2, 5, 20, 40)
Bowl material	ALDC

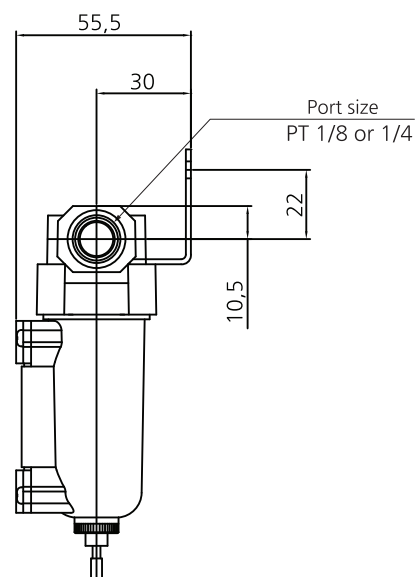
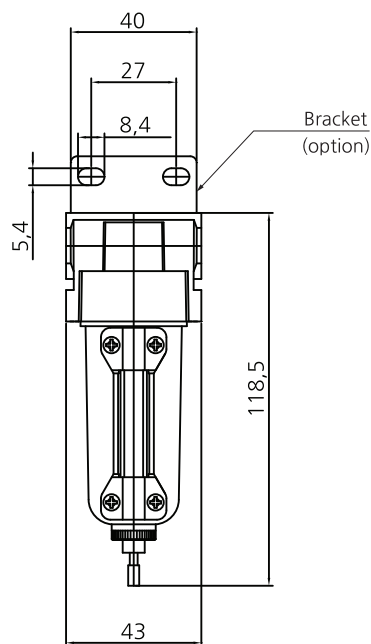
Precautions

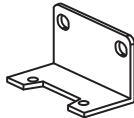
- ① Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- ② To set the pressure using the knob, turn the knob in 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.
- 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.

DIMENSIONS (mm)

SAF 200H

■ SAF200H-□02□□

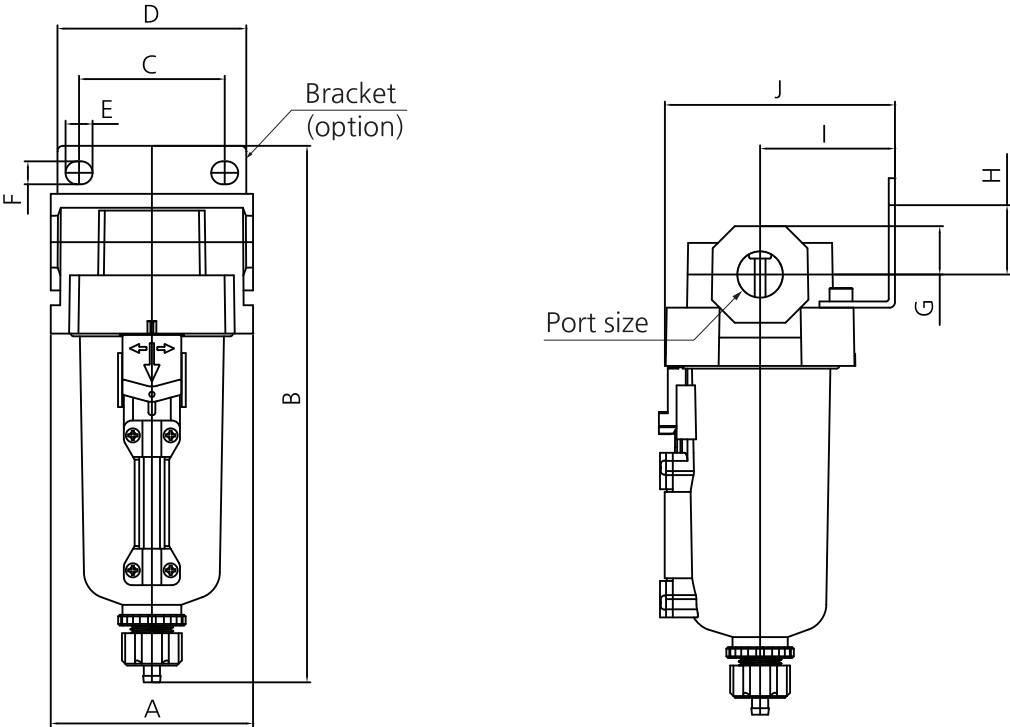


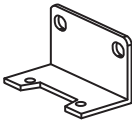
Option	B : Bracket
Model	 B200

DIMENSIONS (mm)

SAF 300H~400H

- SAF300H□-□03□□
- SAF400H□-□04(06)□□



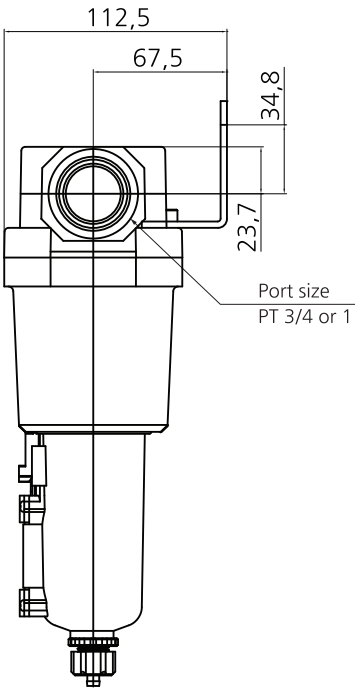
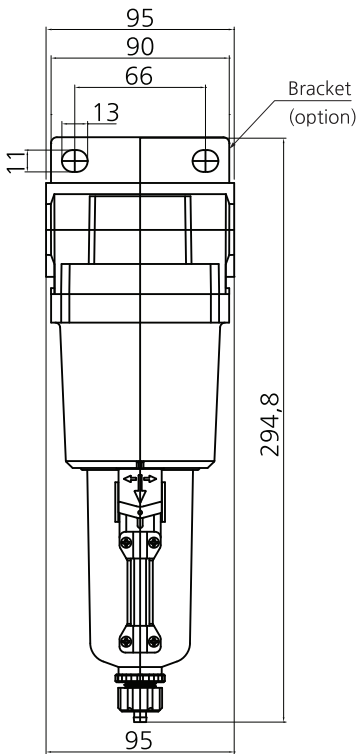
Option	B : Bracket
Model	 SAF300 : B300 SAF400 : B400

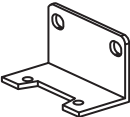
Model	Port size	A	B	C	D	E	F	G	H	I	J
SAF300H-03	1/4, 3/8	57	167.8	40	53	8	6.5	14	21	41	70.7
SAF400H-04	1/2	75	193	54	70	10	8.5	17.9	25.7	50	87.5
SAF400H-06	3/4	75	194.5	54	70	10	8.5	19.8	25	50	87.5

DIMENSIONS (mm)

SAF 600H

- SAF600H□-□06□□
- SAF600H□-□10□□



Option	B : Bracket
Model	 B600

Large Flow Air Filter (SAF)

SAF800~900 Series



SAF800



SAF900

How to order

SAF 8 00 - 14 BD - MeP

① **Air Filter** •

② **Body Size** •
8 - 1 1/4, 1 1/2
9 - 2

③ **Thread type** •
Nil - Rc(PT)
N - NPT
G - G(PF)

④ **Port Size** •

Symbol	Size	Body size	
		8	9
12	1 1/4	●	
14	1 1/2	●	
20	2		●

⑤ **Accessory(Optional)** •

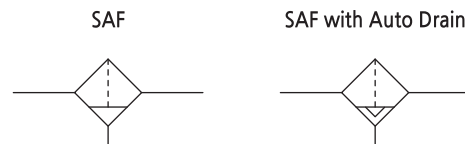
Nil - None Bracket / Manual Drain
B - Bracket
D - Auto Drain

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. operating pressure		10bar (1.0MPa)
Max. supply pressure		15bar (1.5MPa)
Ambient and Media temp.		-5 ~ 60℃ (No freezing)
Filtration		5μm (option: 40)
Bowl material		Poly-carbonate (option: ALDC)

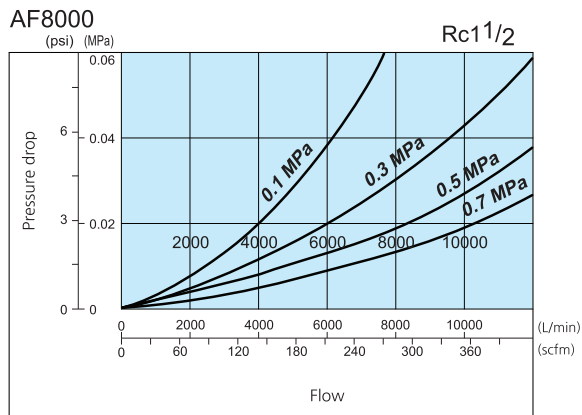
Precautions

- 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.
- Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- 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.
- When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.
- 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.

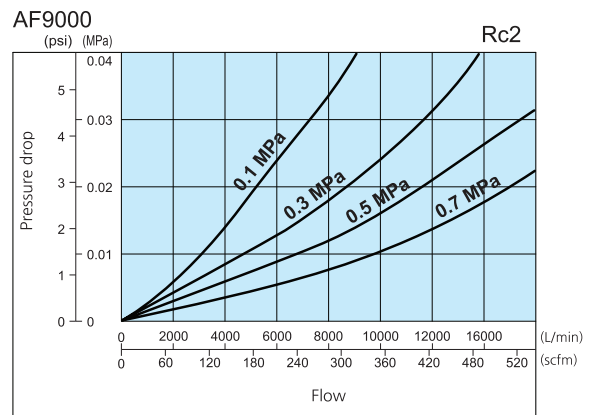
Series SAF800~900

FLOW CHARACTERISTICS

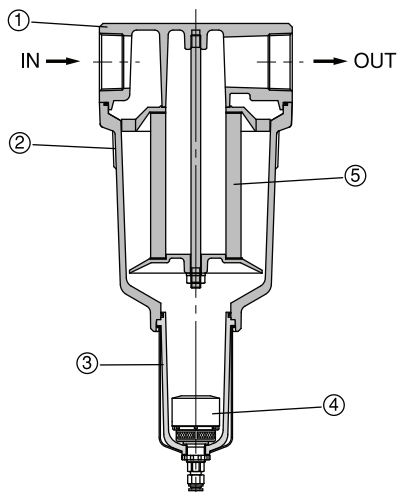
SAF 800



SAF 900



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).

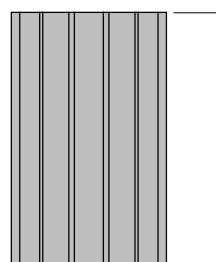
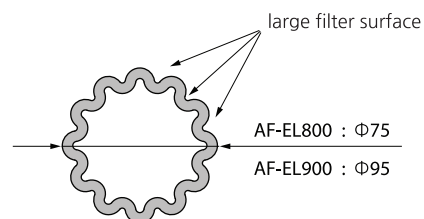
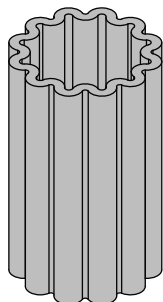
Replacement Parts

(mm)

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

SKP Filter for large flow

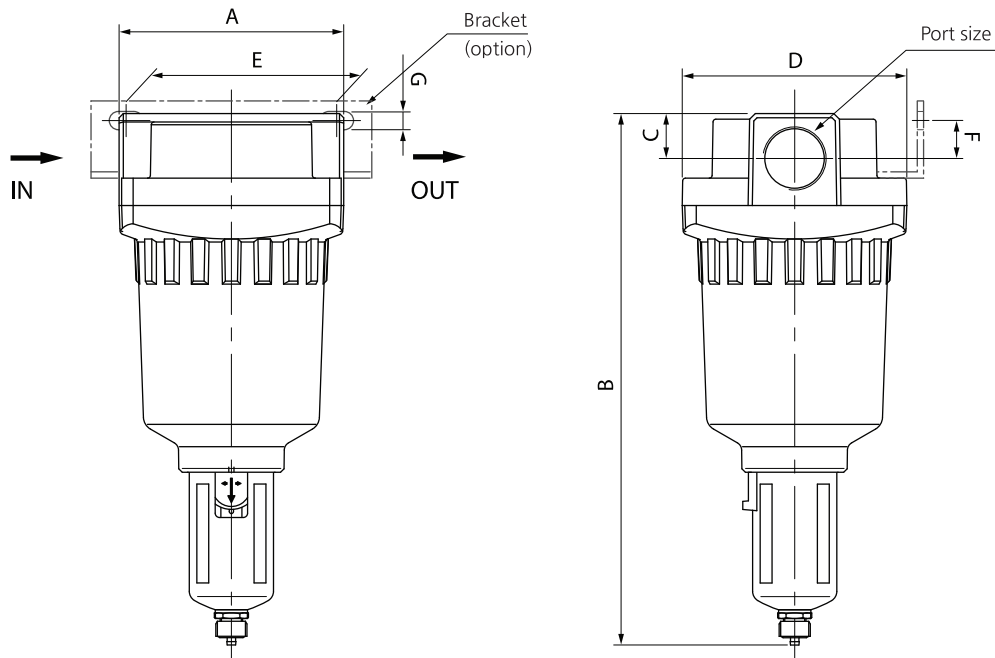
- Material : Porous plastics
- Filtration : 5μm (option : 40μm)
- Large filter surface
- Long life



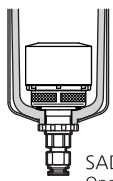
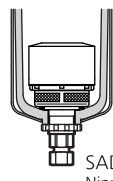
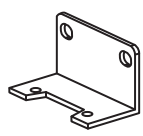
AF-EL800 : 120 mm
AF-EL900 : 180 mm

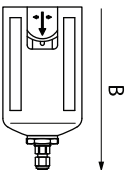
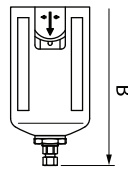
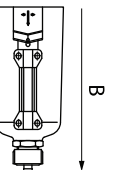
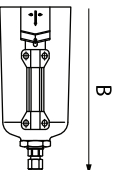
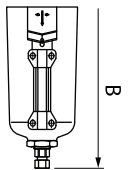
DIMENSIONS (mm)

SAF800~900



Model	Port size	A	B	C	D	E	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

Bowl	PC Bowl		Metal Bowl		
	With D	With Dn	Manual Drain	With D	With Dn
	 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



SAFD200

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

How to order

SAFM 3 00 - 03 BD - MeP
Mist Separator

SAFD 3 00 - 03 BD - MeP
Micro Mist Separator

① Body Size

2 - 1/4
3 - 3/8
4 - 1/2, 3/4

② Thread type

Nil - Rc(PT)
N - NPT
G - G(PF)

③ Port Size

기호	사이즈	몸체 사이즈		
		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
B - Bracket
D - Auto Drain

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

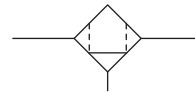
주) 1. SAFM, SAFD200 are differential pressure type.
2. SAFM, SAFD300~400 are float type.

⑤ Bowl

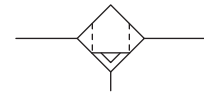
Nil - Polycarbonate bowl with Nylon guard
PcS - Polycarbonate bowl with Steel guard
MeP - Metal bowl with pipe type sight glass

Symbol

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. supply pressure	15bar (1.5MPa)	
Ambient and Media temp.	-5 ~ 60°C (No freezing)	
Filtration	SAFM	0.1 μm
	SAFD	0.01 μm
Bowl Material	Poly-carbonate (option: ALDC)	
Bowl Guard material	Nylon	

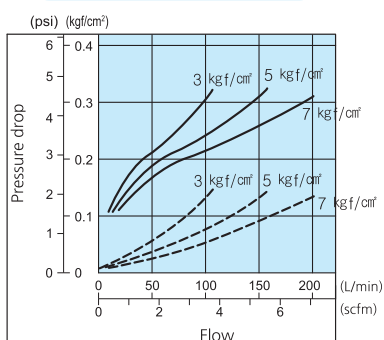
Precautions

- 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 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.
- 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.

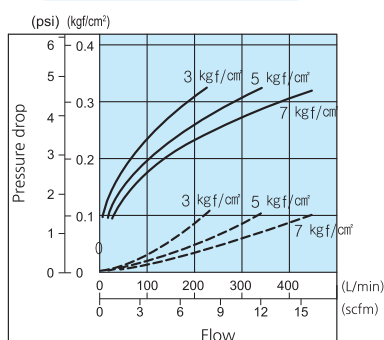
FLOW CHARACTERISTICS

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

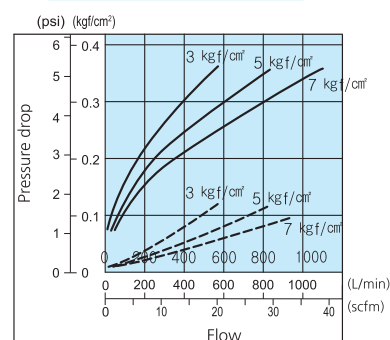
SAFM 200



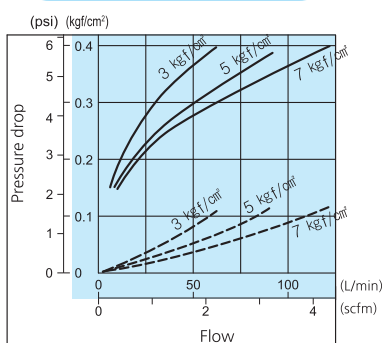
SAFM 300



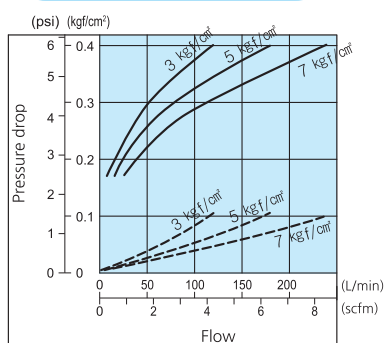
SAFM 400



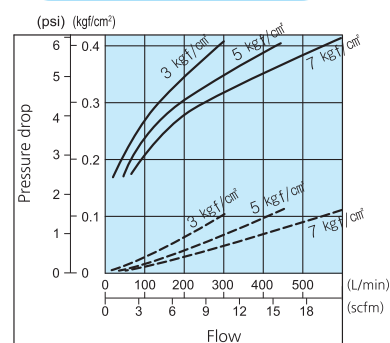
SAFD 200



SAFD 300

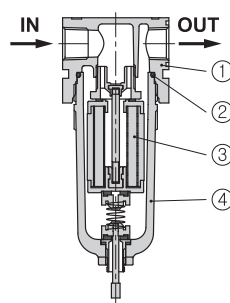


SAFD 400

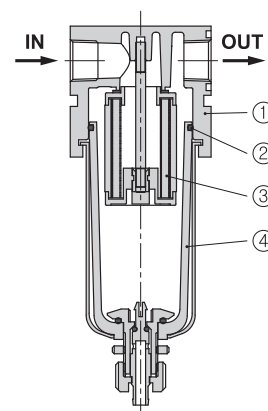


STRUCTURE / PARTS

SAFM 200 SAFD 200



SAFM 300 to 400 SAFD 300 to 400



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).

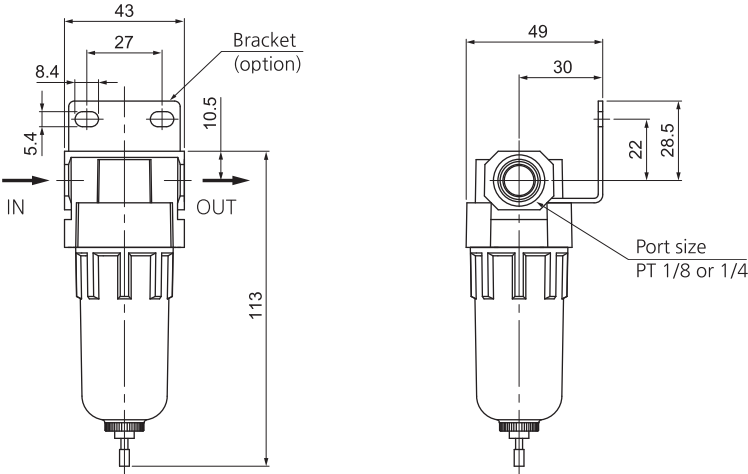
Replacement Parts

No.	PARTS	MATERIAL	Part no.					
			SAFM200	SAFD200	SAFM300	SAFD300	SAFM400	SAFD400
②	O-ring	NBR	U024		38x2		U137	
③	Filter	-	FM200-EL	FD200-EL	FM300-EL	FD300-EL	FM400-EL	FD400-EL

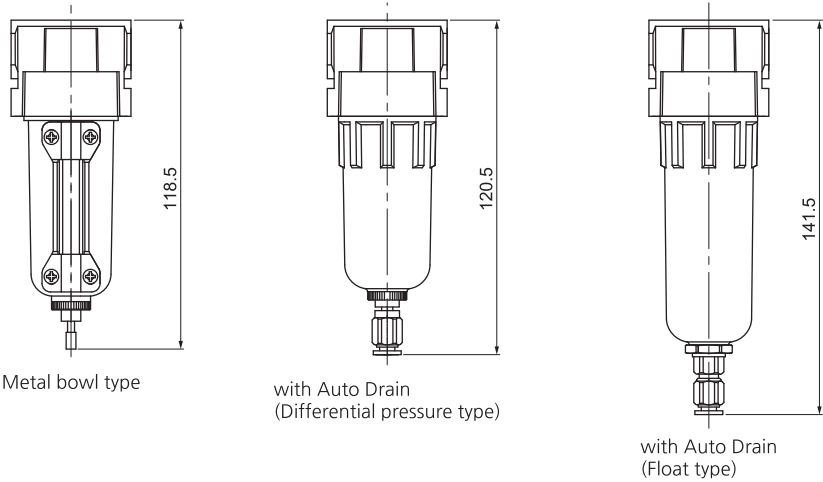
DIMENSIONS (mm)

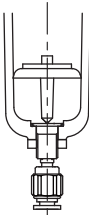
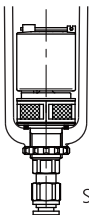
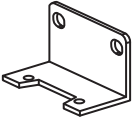
SAFM(SAFD) 200

SAFM(SAFD) 200-□02□□



Dimensions of each model with an option attached

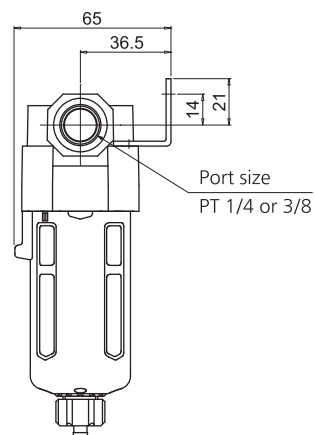
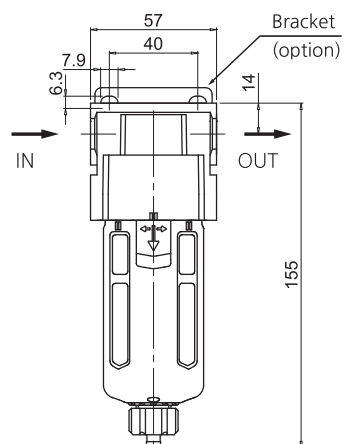


Option	Auto Drain		B : Bracket
	D : Differential pressure type	Df : Float type	
Model		 SAD200	 B200

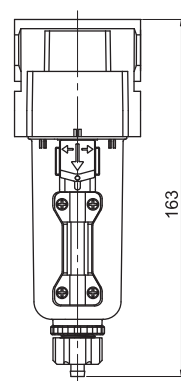
DIMENSIONS (mm)

SAFM(SAFD) 300

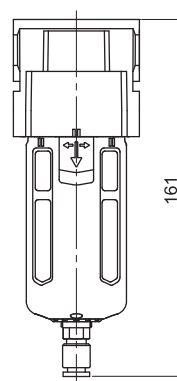
■ SAFM(SAFD)300-□03□□



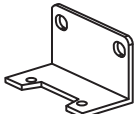
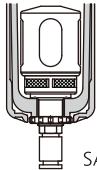
■ Dimensions of each model with an option attached



Metal bowl type



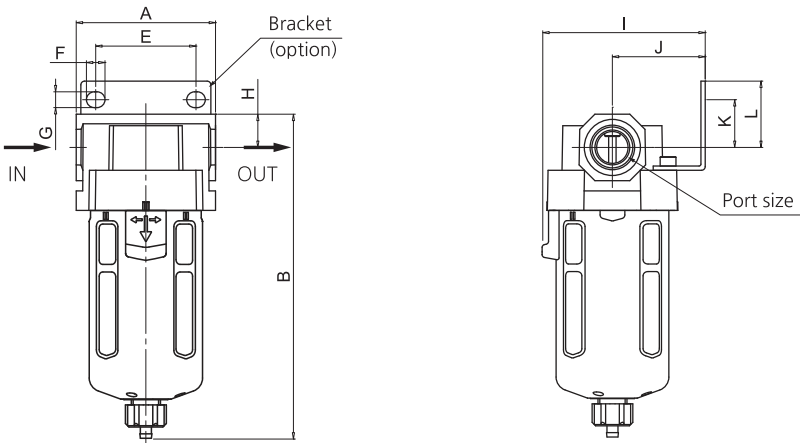
with Auto drain

Option	B : Bracket	D : Auto Drain
Model	 B300	 SAD300

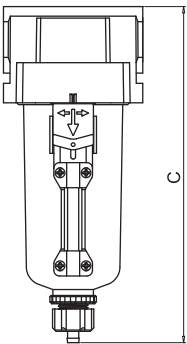
DIMENSIONS (mm)

SAFM(SAFD) 400

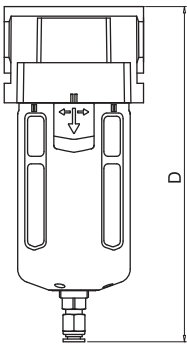
- SAFM(SAFD)400-□04□□
SAFM(SAFD)400-□06□□



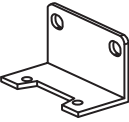
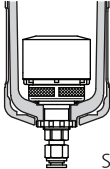
- Dimensions of each model with an option attached



Metal bowl type



with Auto drain

Option	B : Bracket		D : Auto Drain	
Model	 B400		 SAD400	

Model	Port size	A	B	C	D	E	F	G	H	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

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



SAR600



SAR400



SAR300



SAR200



SAR100

How to order

SAR 4 00 - 04 BGK

① Air Regulator

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

Symbol	Size	Body 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 / None Gauge
B - Bracket
G - Gauge

G	Round type
Gs	Square embedded type

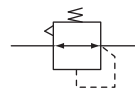
Note) SAR100 is available only round type gauge.

K - With backflow function

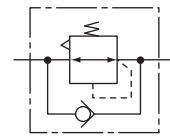
Note) SAR100 can not attach a backflow function.

Symbol

SAR



SAR with backflow function



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	SAR600
	1/16	1/8		1/4	
Construction	Relief type				

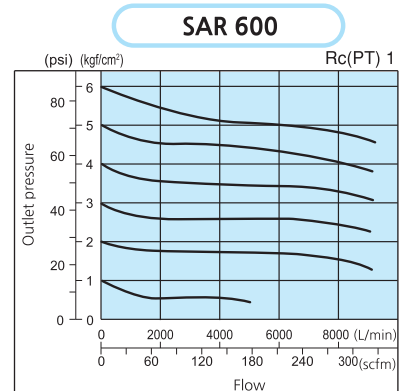
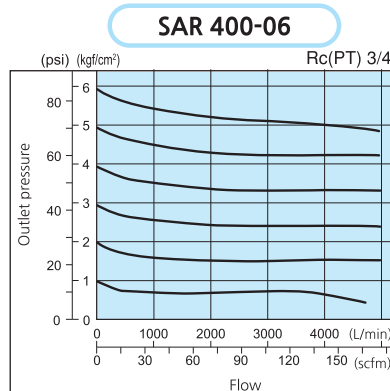
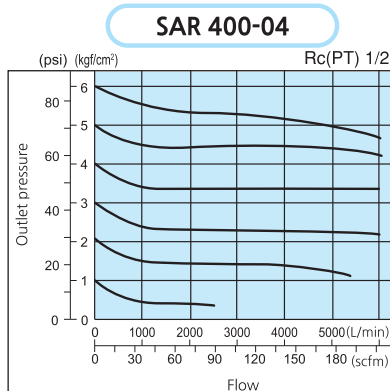
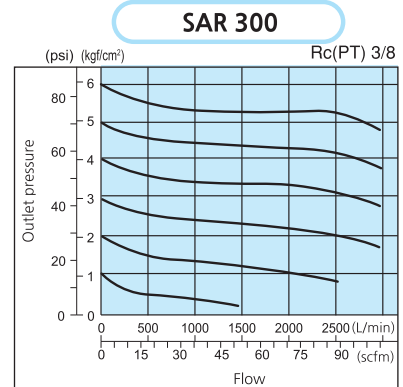
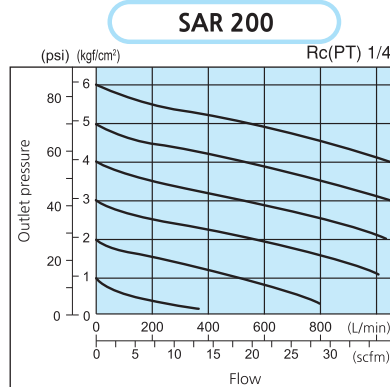
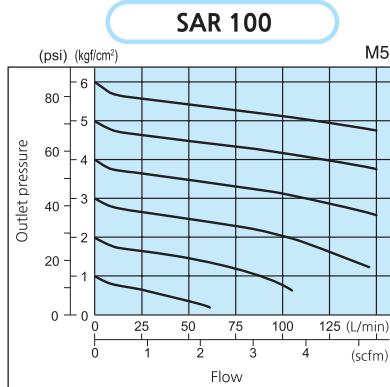
Precautions

- 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.
- 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.

Series SAR100~600

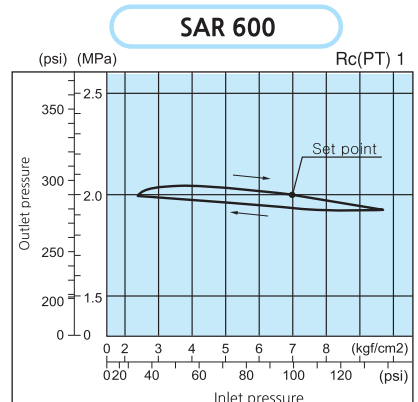
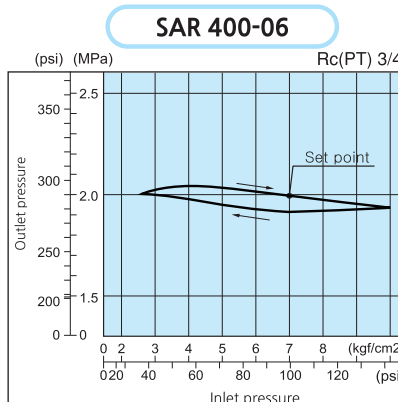
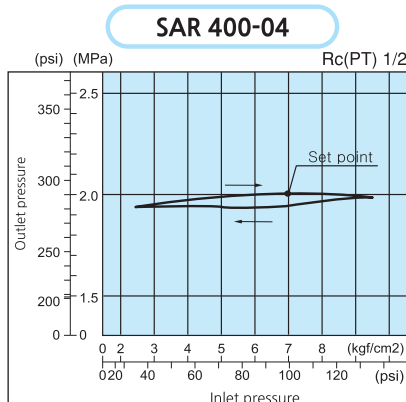
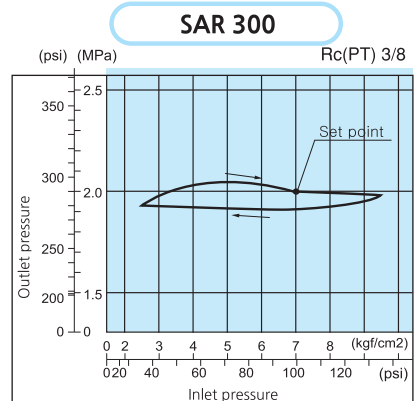
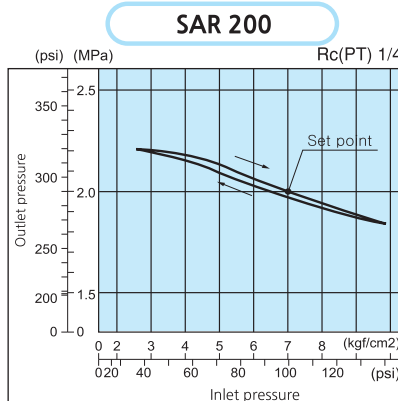
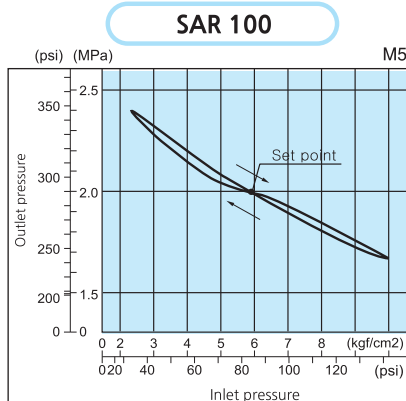
FLOW CHARACTERISTICS

Inlet pressure 7kg/cm²



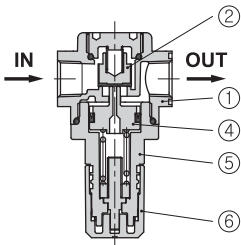
PRESSURE CHARACTERISTICS

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

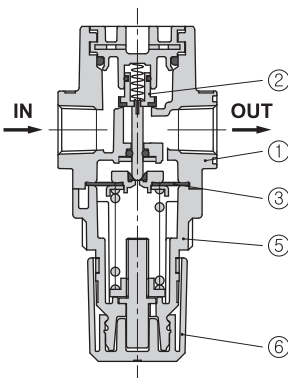


STRUCTURE / PARTS

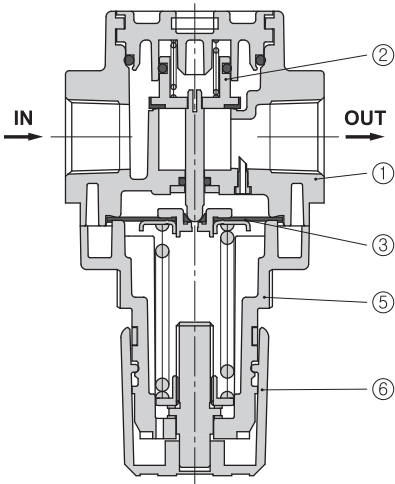
SAR100



SAR200



SAR300 to 600



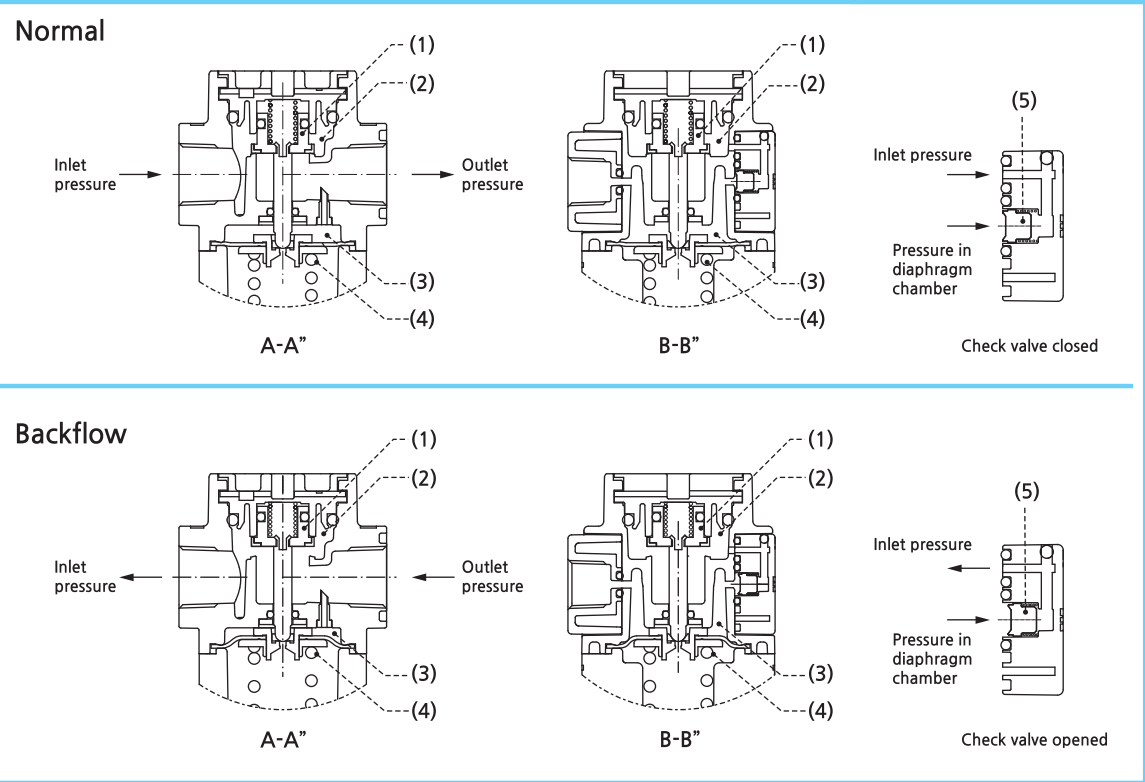
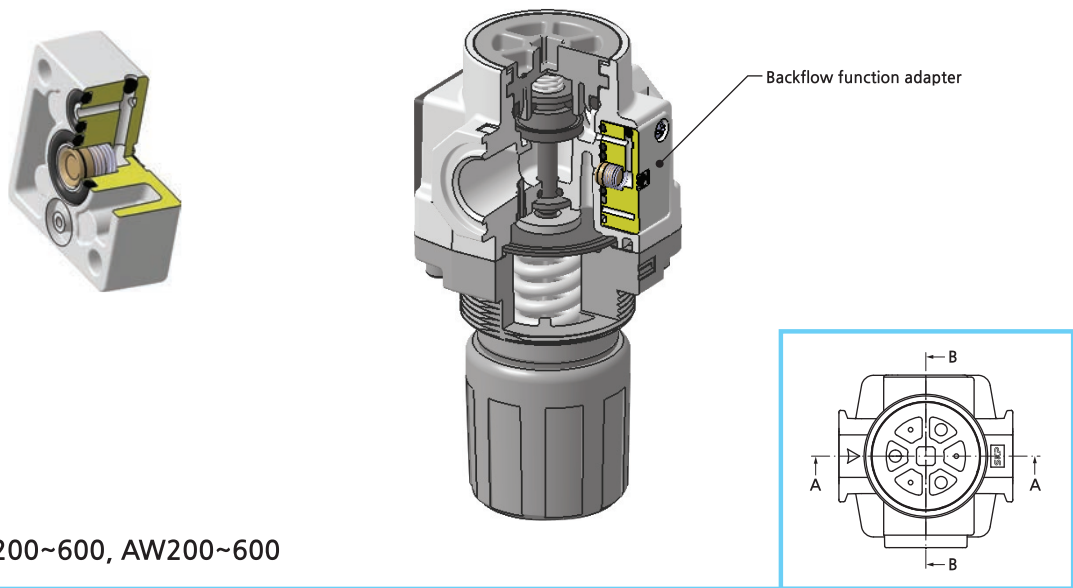
■ Component Parts

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.

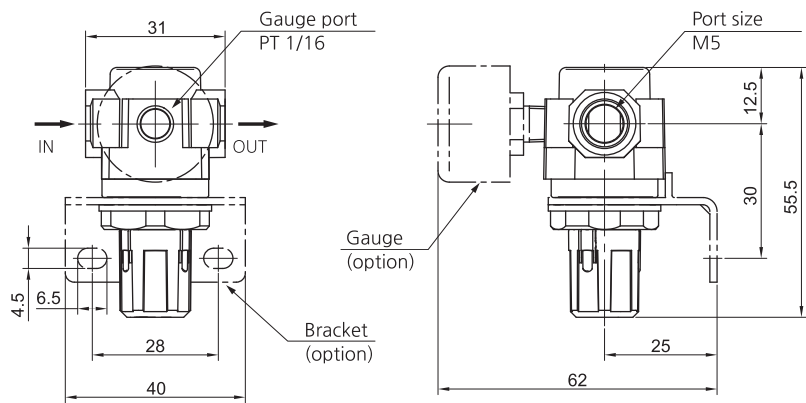


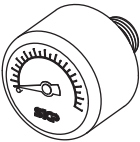
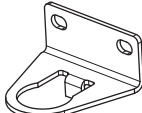
work	Description for the operation state by the backflow function adapter
normal	Because the inlet pressure(1) is higher than the regulating pressure, Check valve(5) closes and operates as a normal regulator.
backflow	When the inlet pressure(1) is shut off and released, the presure in the diaphragm chamber (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)

DIMENSIONS (mm)

SAR 100

■ SAR100-□01(M5)□□



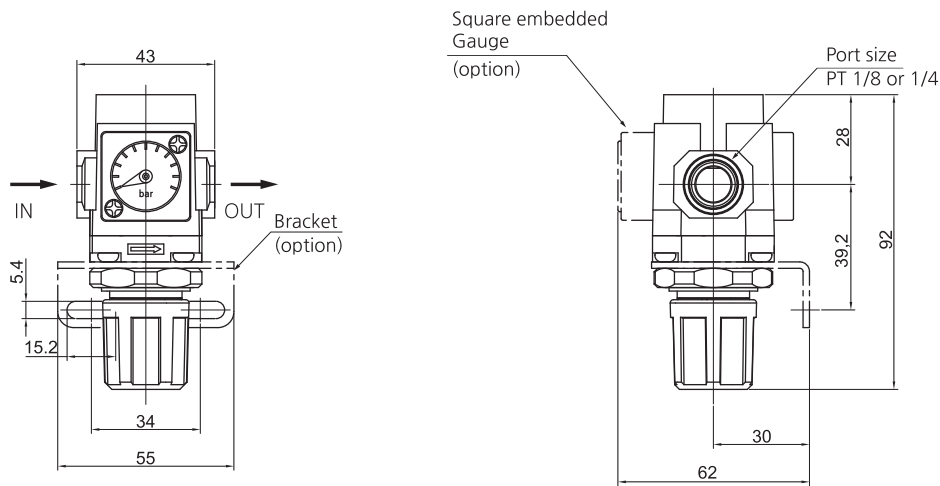
Option	G : Round type Gague	B : Bracket
Model	 Model : G25 R 1/16	 B120

Series SAR100~600

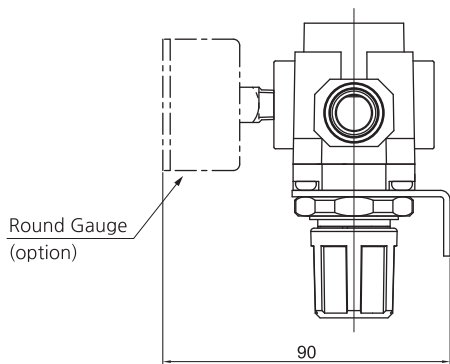
DIMENSIONS (mm)

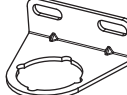
SAR 200

■ SAR200-□02□□



■ Dimensions of each model with an option attached

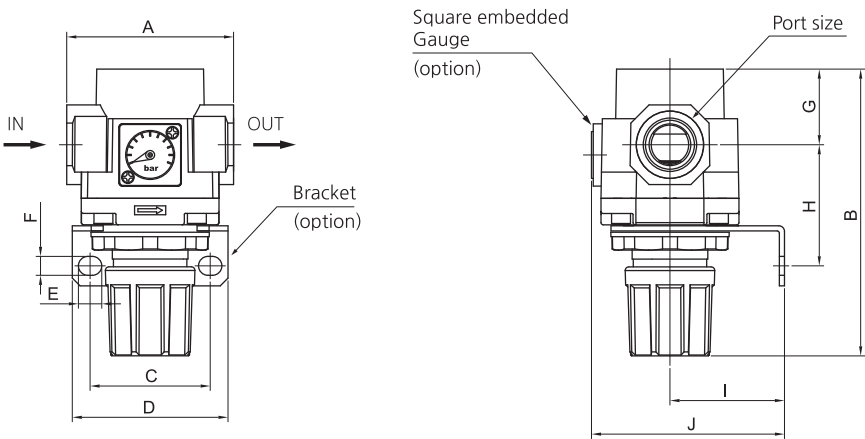


Option	Gs : Square embedded Gauge	G : Round type Gauge	B : Bracket
Model	 Gs28	 G40, R1/8	 B220

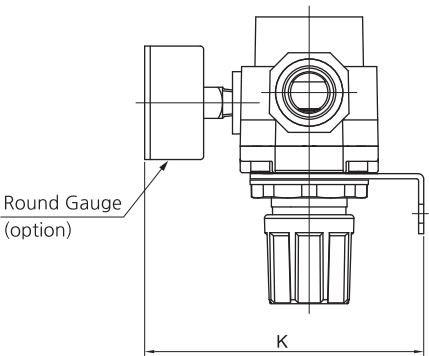
DIMENSIONS (mm)

SAR 300~400

- SAR300-□03□□
SAR400-□04(06)□□



- Dimensions of each model with an option attached



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

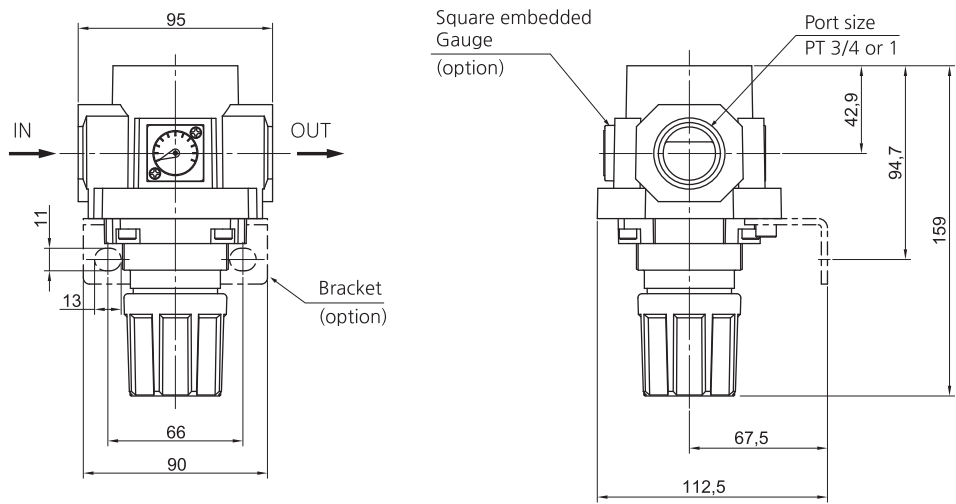
Model	Port size	A	B	C	D	E	F	G	H	I	J	K
SAR300-03	1/4, 3/8	57	117	40	53	8	6.5	28.4	45.7	41	72	107
SAR400-04	1/2	75	125	54	70	10.5	8.5	34	54	50	87	127
SAR400-06	3/4	75	127	54	70	10.5	8.5	34.5	55.5	50	87	127

Series SAR100~600

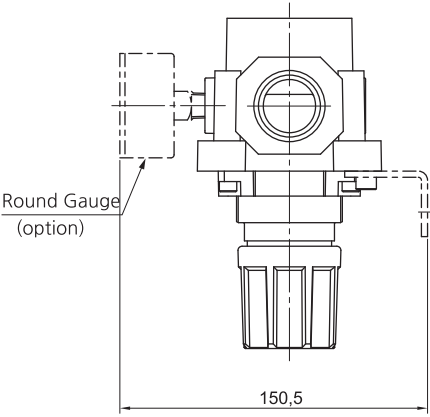
DIMENSIONS (mm)

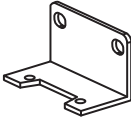
SAR 600

- SAR600-□06□□
- SAR600-□10□□



- Dimensions of each model with an option attached



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

SAR 8 25 - 14 G

① Air Regulator

② **Body Size**
8 - 1 1/4, 1 1/2
9 - 2

③ **Pilot type**

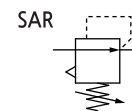
④ **Thread type**
Nil - Rc(PT)
N - NPT
G - G(PF)

⑤ **Port Size**

Symbol	Size	Body size	
		8	9
12	1 1/4	●	
14	1 1/2	●	
20	2		●

⑥ **Accessory(Optional)**
Nil - None Gauge
G - Gauge

Symbol



Specification

Port size	SAR825	1 1/4, 1 1/2
	SAR925	2
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 (0.05~0.85MPa)	
Construction	Internal pilot relieving style (Pilot air is always bleeding.)	
Gauge port	1/4	

Precautions

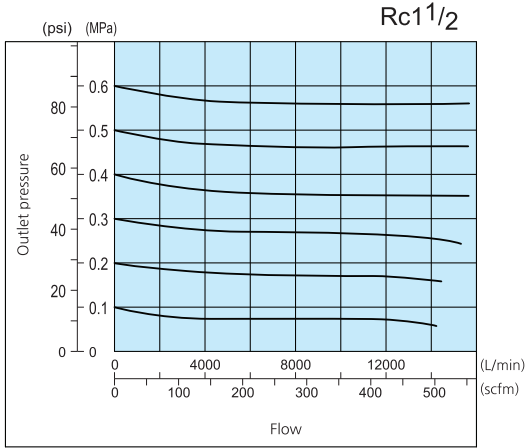
- ① Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- ② To set the pressure using the knob, turn the knob in 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

Series SAR825~925

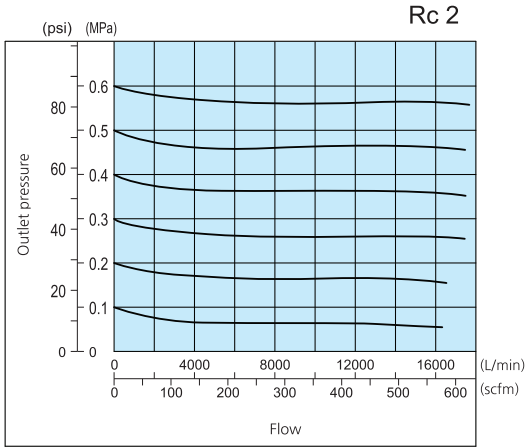
FLOW CHARACTERISTICS

Inlet pressure 7kg/cm²

SAR 825



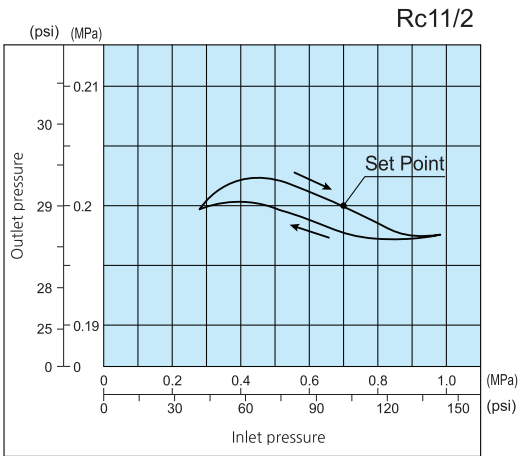
SAR 925



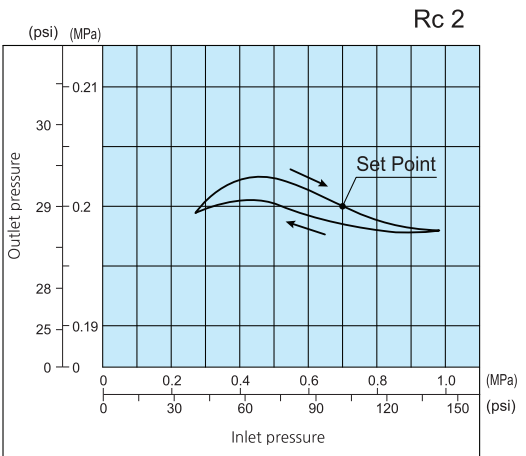
PRESSURE CHARACTERISTICS

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

SAR 825

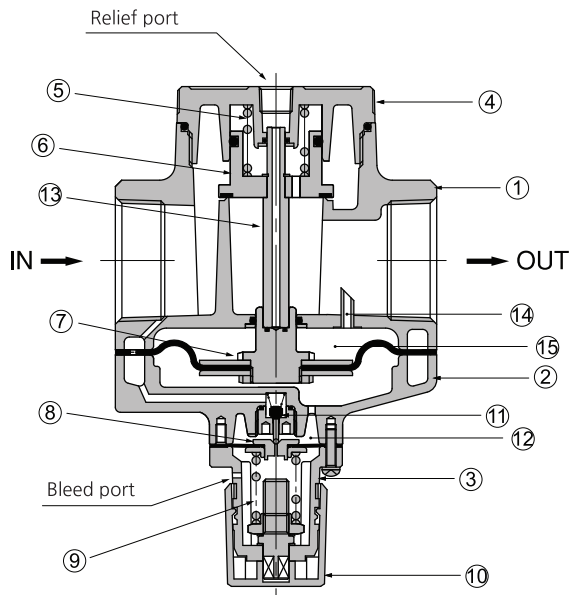


SAR 925



Large Flow Pilot Operated Regulator

STRUCTURE / PARTS



Component Parts

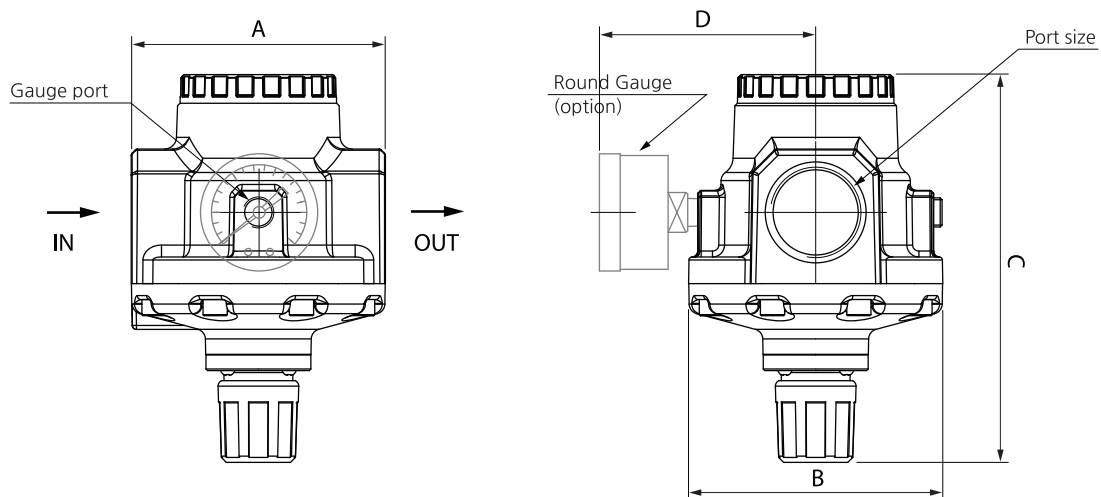
No.	PARTS	MATERIAL
①	Body	ALDC
②	Cover	ALDC
③	ADJ Cover	ALDC
④	Valve guide	ALDC

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 handle⑩ is turned clockwise to compress pressure adjustment spring⑨, the pressure from the IN side passes through diaphragm ⑧, opens pilot valve⑪, and enters upper pilot chamber⑫. This pressure and the force generated by pressure adjustment spring⑨ act as resistance, resulting in equilibrium. Then, this pressure passes through diaphragm⑦ of the main valve and check valve rod⑬, and pushes check valve⑬ open, thus guiding the pressure to the OUT side. At the same time, the pressure passes through feedback hole⑭, and enters diaphragm chamber⑤, thus establishing the OUT side pressure (secondary pressure).

DIMENSIONS (mm)



Model	Port size	Gauge port	A	B	C	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.



SAR300T



SAR400T



SAR600T

How to order

SAR 4 00 T - 04 BGK

- ① Air Regulator
- ② Body Size
 - 2 - 1/4
 - 3 - 3/8
 - 4 - 1/2, 3/4
 - 6 - 1
- ③ Handle type
 - T - T type handle
- ④ Thread type
 - Nil - Rc(PT)
 - N - NPT
 - G - G(PF)
- ⑤ Port Size

기호	사이즈	몸체 사이즈			
		2	3	4	6
01	1/8	●			
02	1/4	●	●		
03	3/8		●		
04	1/2			●	
06	3/4			●	●
10	1				●

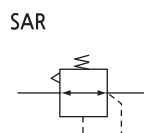
⑥ Accessory(Optional)

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

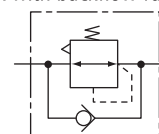
G	Round type
Gs	Square embedded type

- K - With backflow function

Symbol



SAR with backflow function



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 (0.05~0.85MPa)			
Gauge port	SAR200T	SAR300T	SAR400T	SAR600T
	1/8		1/4	
Construction	Relief type			

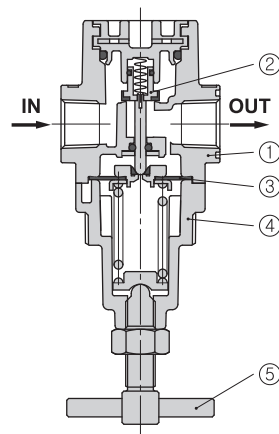
Precautions

- 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.
- 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.

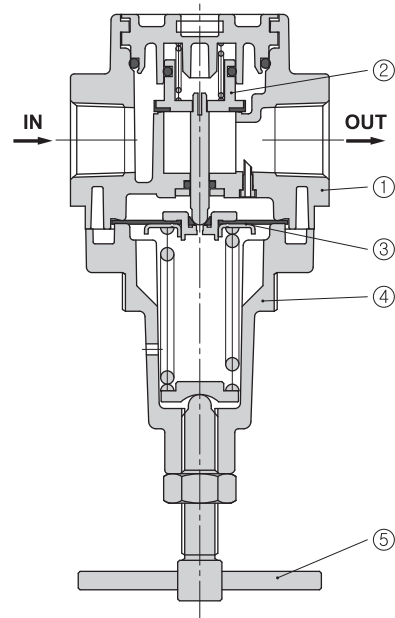
Air Regulator with T-type Handle

STRUCTURE / PARTS

SAR200T



SAR300T to 600T



■ Component Parts

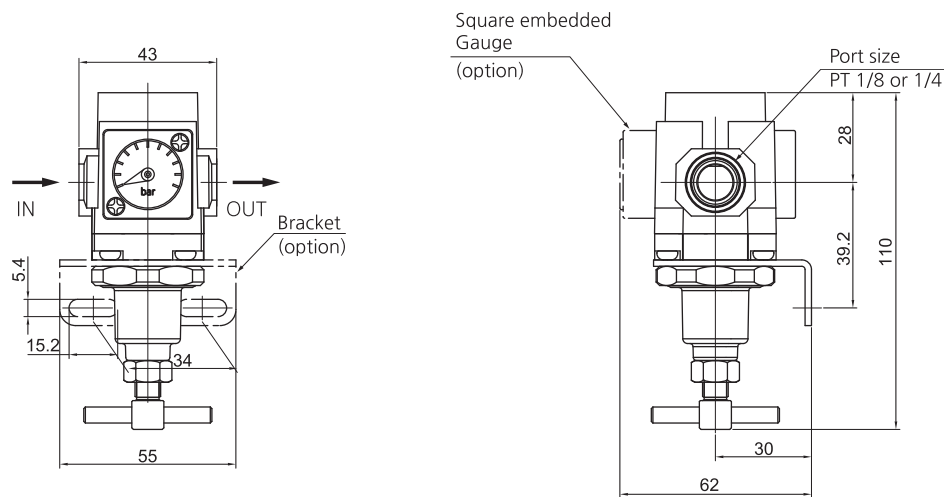
No.	PARTS	MATERIAL
①	Body	ALDC
②	Check valve Ass'y	Brass, NBR
③	Diaphragm Ass'y	NBR
④	Cover	ALDC
⑤	Handle	Steel

Series SAR100T~600T

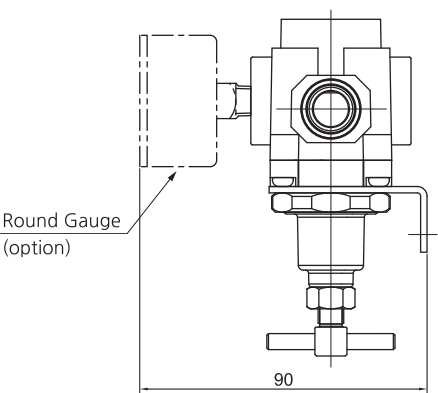
DIMENSIONS (mm)

SAR 200T

■ SAR200T-□02□□



■ Dimensions of each model with an option attached



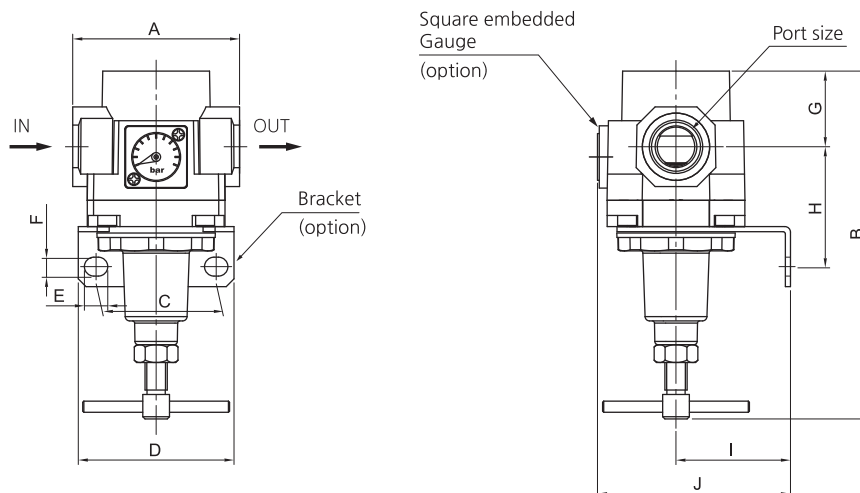
Option	Gs : Square embedded Gauge	G : Round type Gauge	B : Bracket
Model	 Gs28	 G40, R1/8	 B220

Air Regulator with T-type Handle

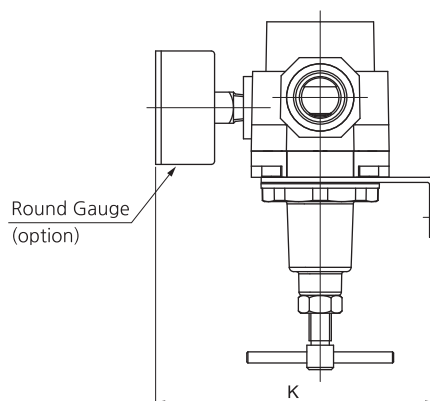
DIMENSIONS (mm)

SAR 300T~400T

- SAR300T-□03□□
SAR400T-□04(06)□□



- Dimensions of each model with an option attached



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

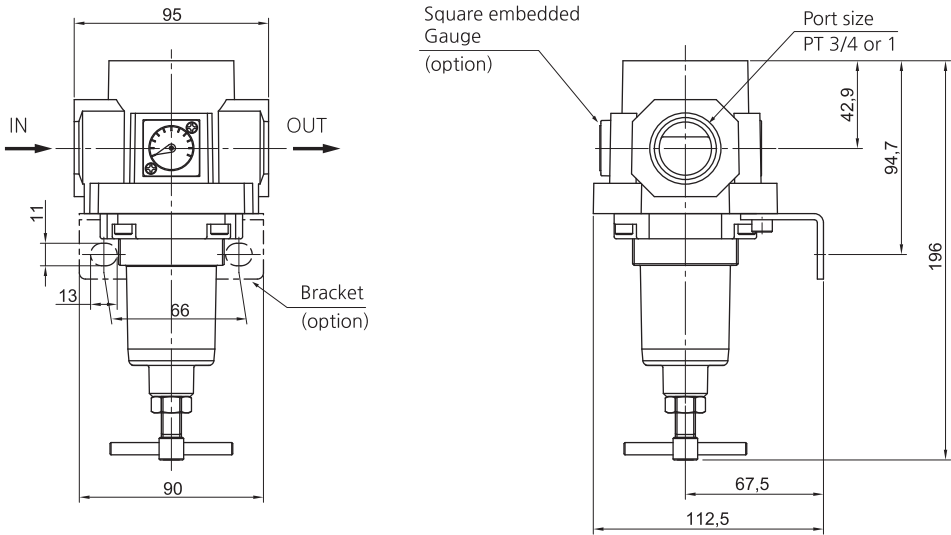
Model	Port size	A	B	C	D	E	F	G	H	I	J	K
SAR300T-03	1/4 or 3/8	57	150	40	53	8	6.5	28.4	45.7	41	72	107
SAR400T-04	1/2	75	158	54	70	10.5	8.5	34	54	50	87	127
SAR400T-06	3/4	75	160	54	70	10.5	8.5	34.5	55.5	50	87	127

Series SAR100T~600T

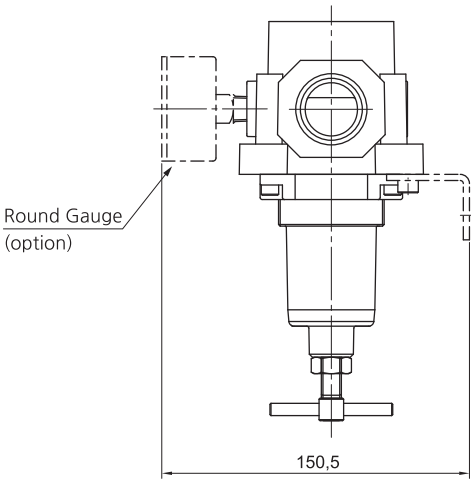
DIMENSIONS (mm)

SAR 600T

- SAR600T-□06□□
- SAR600T-□10□□



- Dimensions of each model with an option attached



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.



SAR200H



SAR300H



SAR400H



SAR600H

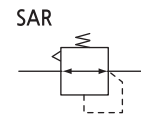
How to order

SAR 4 00 H - 04 BG

- ① Air Regulator
- ② **Body Size**
 - 2 - 1/4
 - 3 - 3/8
 - 4 - 1/2
 - 6 - 1
- ③ for high pressure
- ④ **Thread type**
 - Nil - Rc(PT)
 - N - NPT
 - G - G(PF)
- ⑤ **Port Size**

기호	사이즈	몸체 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(Adapter Only)
 - B - Bracket
 - 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)			
Gauge port	SAR200H	SAR300H	SAR400H	SAR600H
	1/8		1/4	
Construction	Relief type			

Precautions

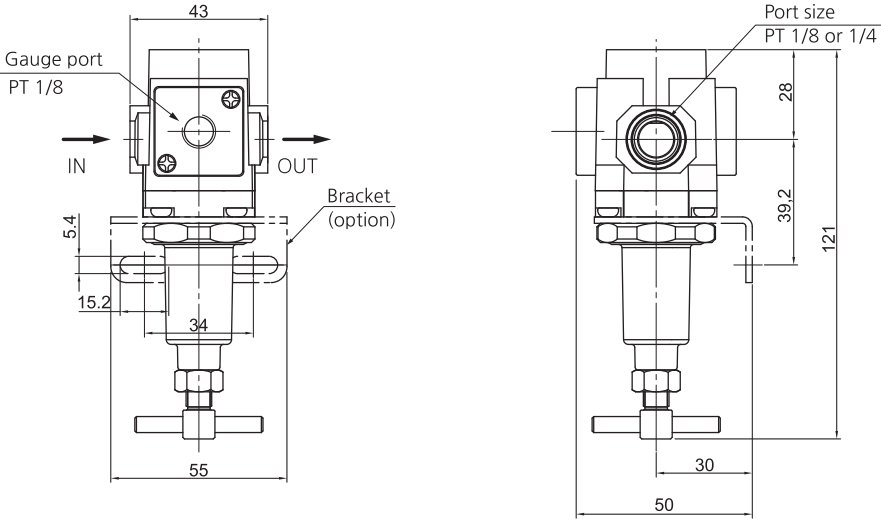
- Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- To set the pressure using the knob, turn the knob in the 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.
- 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 SAR200H~600H

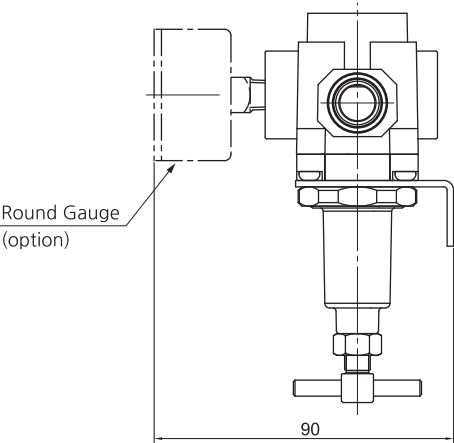
DIMENSIONS (mm)

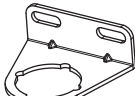
SAR 200H

■ SAR200H-□02□□



■ Dimensions of each model with an option attached



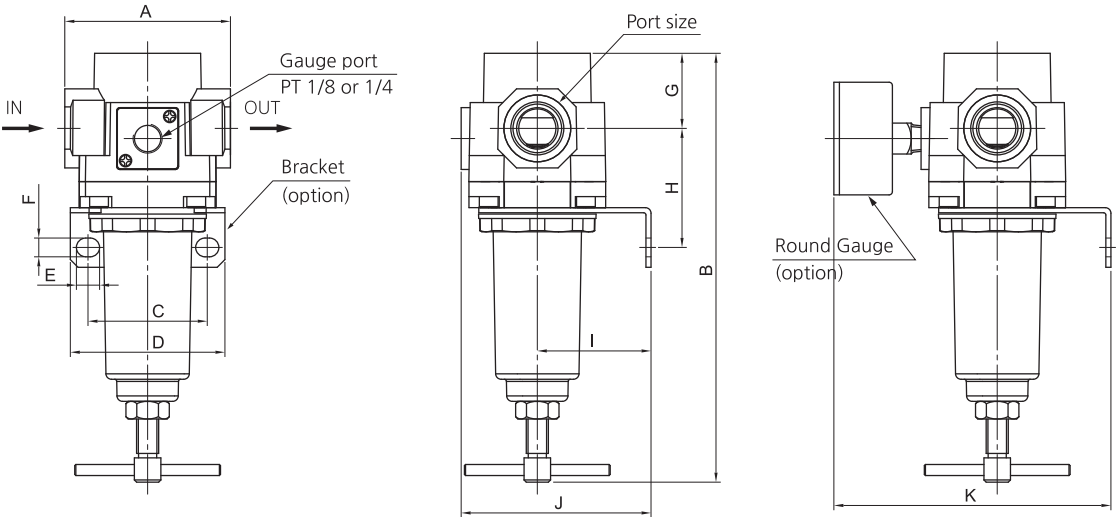
Option	G : Round type Gague	B : Bracket
Model	 Gh40, R1/8	 B220

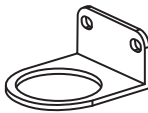
Air Regulator for High Pressure

DIMENSIONS (mm)

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

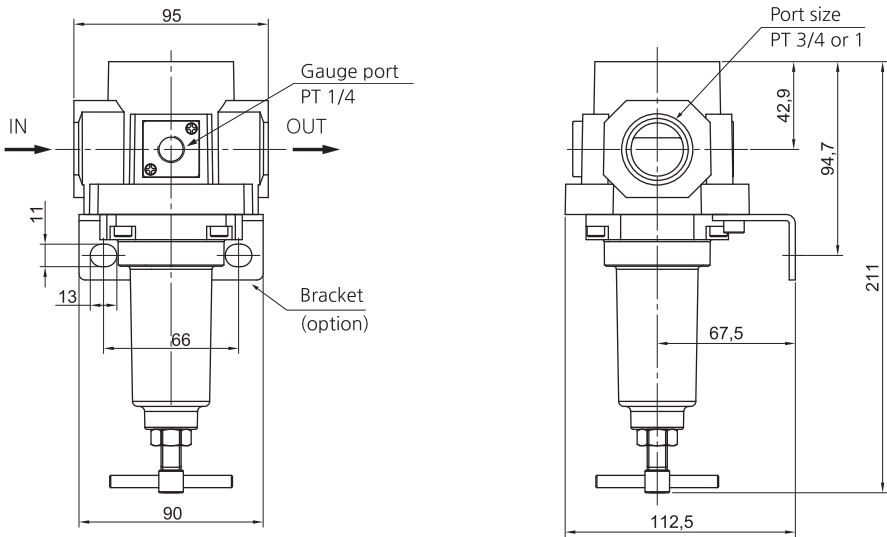
Model	Port size	A	B	C	D	E	F	G	H	I	J	K
SAR300H-03	1/4, 3/8	57	164	40	53	8	6.5	28.4	45.7	41	72	107
SAR400H-04	1/2	75	188	54	70	10.5	8.5	34	54	50	86	127
SAR400H-06	3/4	75	190	54	70	10.5	8.5	34.5	55.5	50	86	127

Series SAR200H~600H

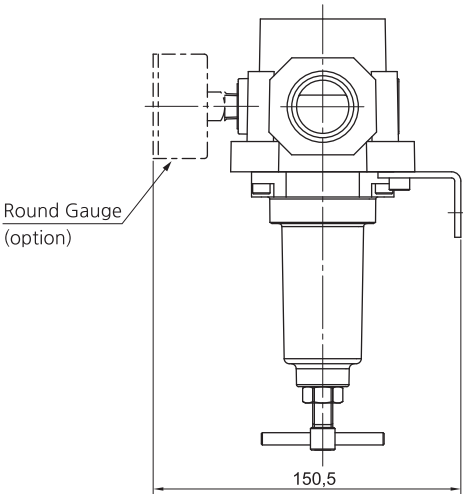
DIMENSIONS (mm)

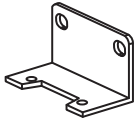
SAR 600H

- SAR600H□-□06□□
- SAR600H□-□10□□



- Dimensions of each model with an option attached



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

Precision Regulator (SRP)

SRP2000~3000 Series



SRP 2000



SRP 3000

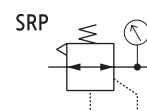
How to order

SRP 20 00 - 02 BG

- 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**

Symbol	Size	Body size	
		20	30
02	1/4	●	
03	3/8		●
04	1/2		●
- ⑥ **Accessory(Optional)**
 - Nil - None Bracket / None Gauge
 - B - Bracket
 - G - Precision Gauge

Symbol



Specification

Fluid		Compressed Air
Max. operating pressure		10bar (1.0MPa)
Min. supply pressure ¹⁾	SRP2000	Set pressure +0.5bar
	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 ²⁾ (At supply pressure of 10bar)	SRP2000	5 L/min
	SRP3000	11 L/min
Ambient and fluid temperature		-5~60℃ (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.

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

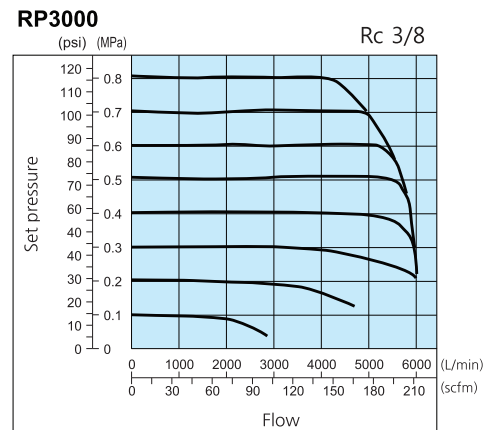
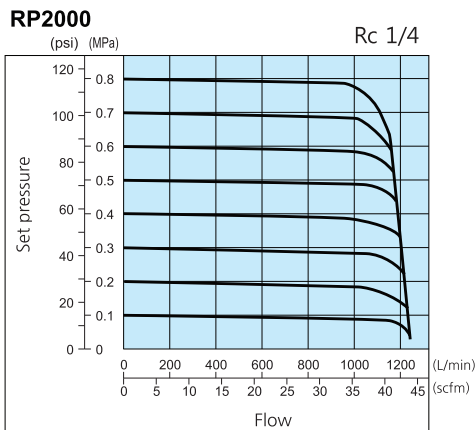
Precautions

- 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.

Series SRP2000~3000

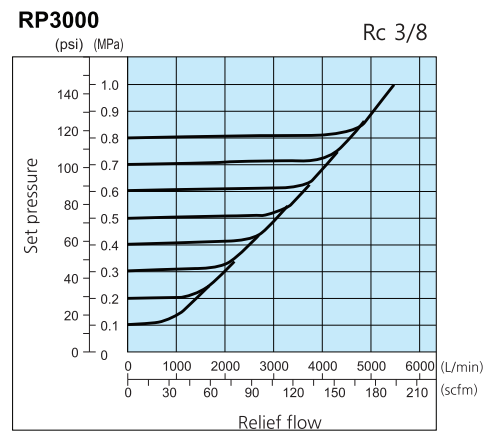
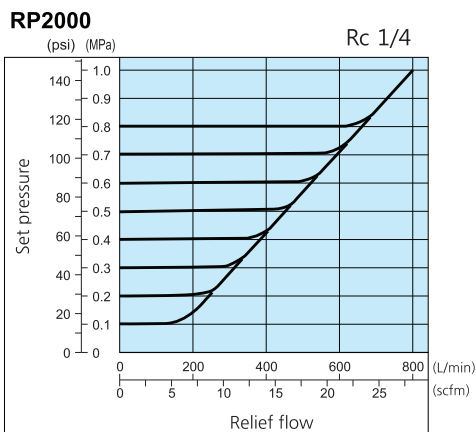
FLOW CHARACTERISTICS

Supply pressure : 1MPa



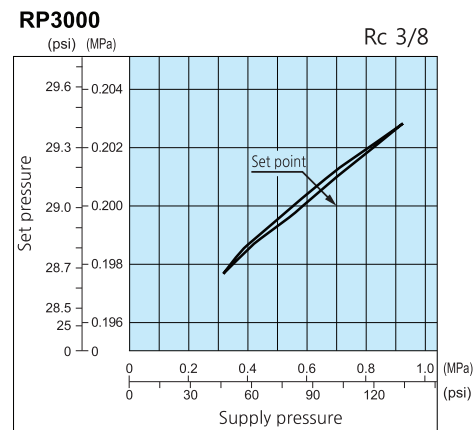
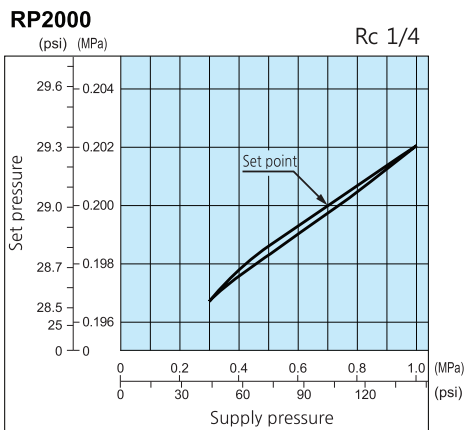
RELIEF CHARACTERISTICS

Back pressure : 1MPa



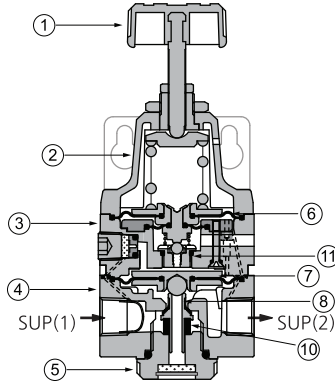
PRESSURE CHARACTERISTICS

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



STRUCTURE / PARTS

SRP2000



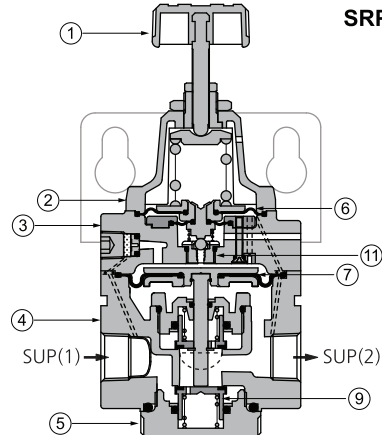
■ Working principle (For SRP2000)

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 ⑦ 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.

SRP3000



■ Component Parts

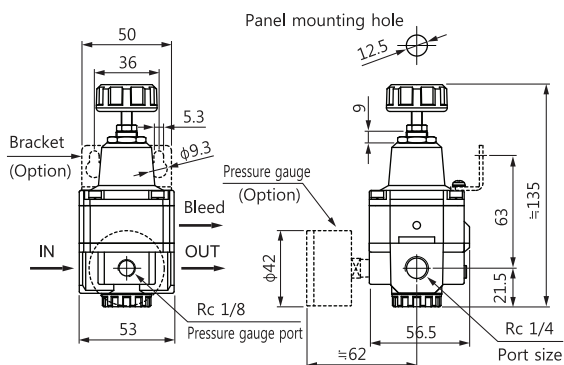
No.	PARTS	MATERIAL
①	Handle	NYLON
②	Cover	ALDC
③	Disk	ALDC
④	Body	ALDC
⑤	Valve guide	ALDC

■ Replacement Parts

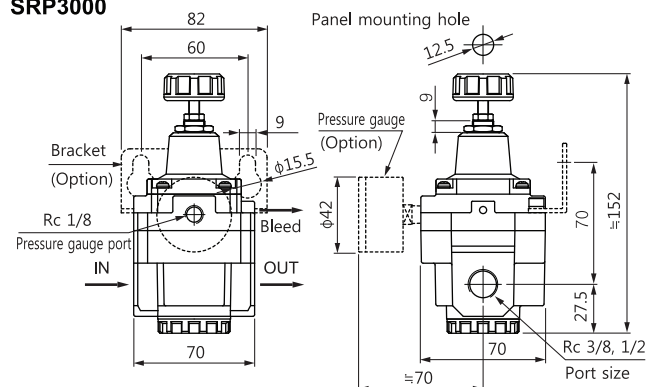
No.	PARTS	MATERIAL
⑥	Diaphragm Ass'y	NBR, others
⑦	Main Diaphragm Ass'y	NBR, others
⑧	Check valve	SUS, NBR
⑨	Check valve	Brass, NBR
⑩	Damper	NBR
⑪	Nozzle Ass'y	Brass, others

DIMENSIONS (mm)

SRP2000



SRP3000



Air Lubricator (SAL)

SAL100~600 Series



SAL100

SAL200

SAL300

SAL400

SAL600

How to order

SAL 4 00 - 04 B - MeP

① Air Lubricator

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

Symbol	Size	Body 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
B - Bracket

⑥ Bowl

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

Symbol



Specification

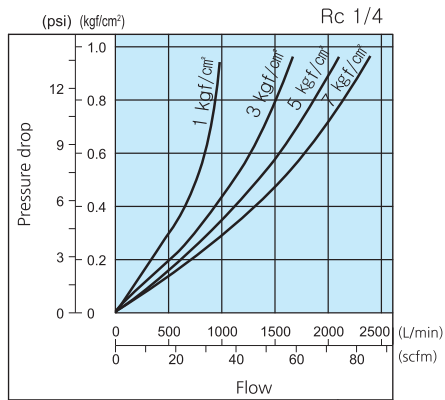
Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	-5 ~ 60°C (No freezing)
Recommended oil	Turbin oil (ISO VG32)
Bowl material	Poly-carbonate (option: ALDC)
Bowl guard material	Nylon

Precautions

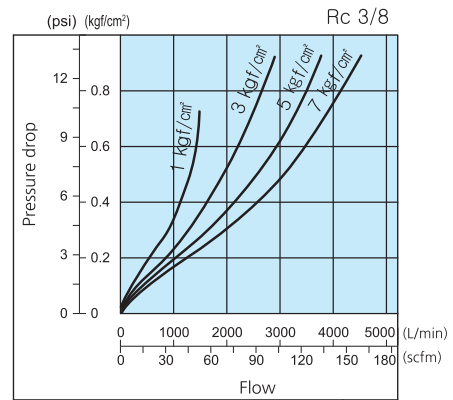
- Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- Do not introduce air from the outlet side as this can damage the damper.
- Use a check valve (SACM series) to prevent back flow of the lubricant when redirecting the air flow before the lubricator.
- Avoid riser piping and branch lines on the outlet side to prevent inferior lubrication.
- 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.
- Check the usage rate once a day. If the lubricant is not normally consumed, problems may occur to the lubricated objects.

FLOW CHARACTERISTICS

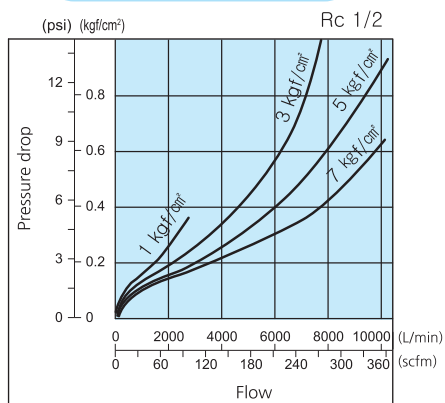
SAL 200



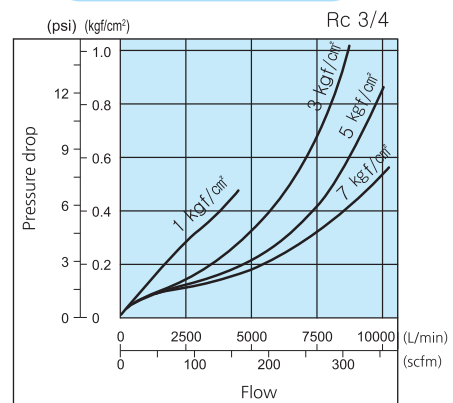
SAL 300



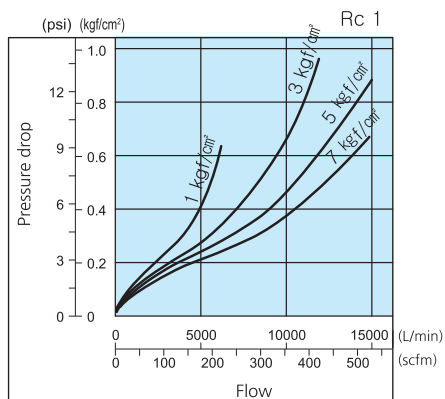
SAL 400-04



SAL 400-06



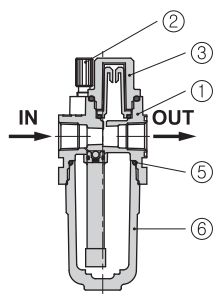
SAL 600



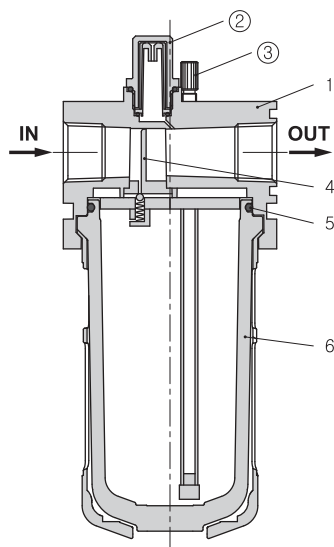
Series SAL100~600

STRUCTURE / PARTS

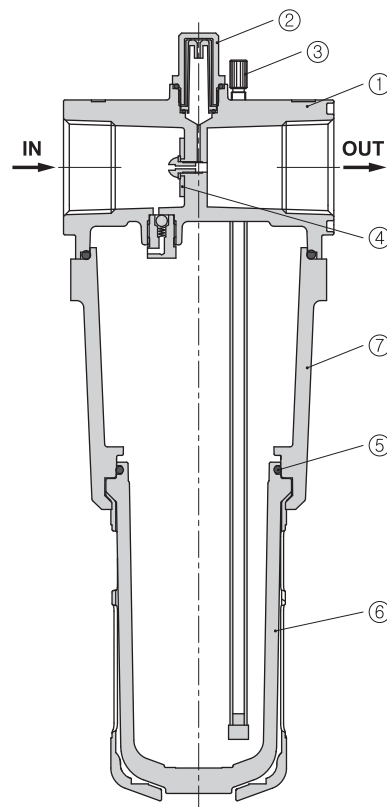
SAL100



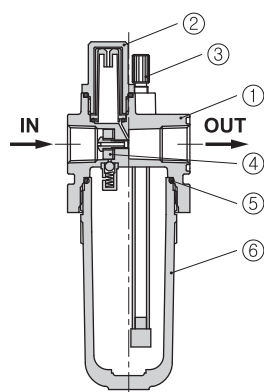
SAL300, SAL400



SAL600



SAL200



■ 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).

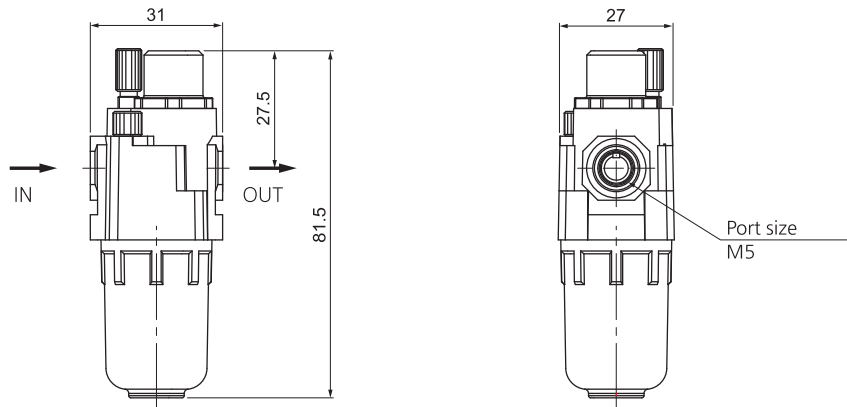
■ Replacement Parts

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

DIMENSIONS (mm)

SAL 100

■ SAL100-□01(M5)

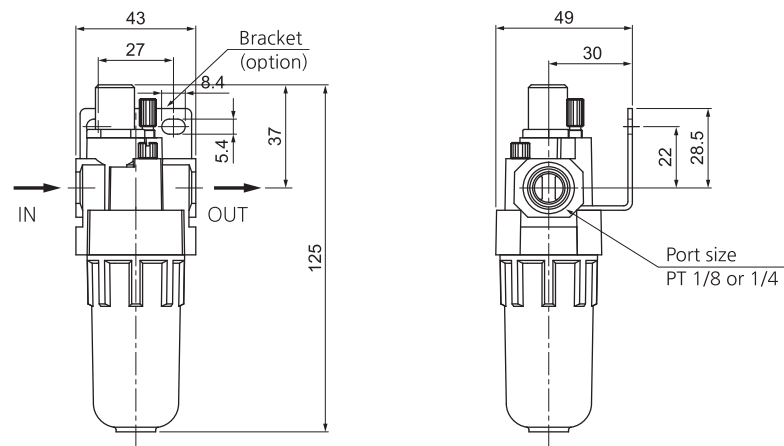


Series SAL100~600

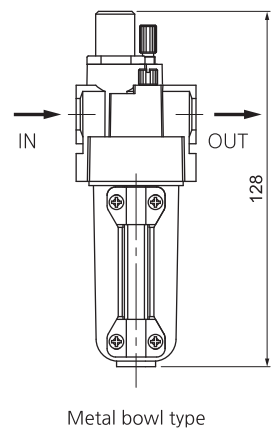
DIMENSIONS (mm)

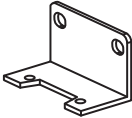
SAL 200

■ SAL200-□02□



■ Dimensions of each model with an option attached

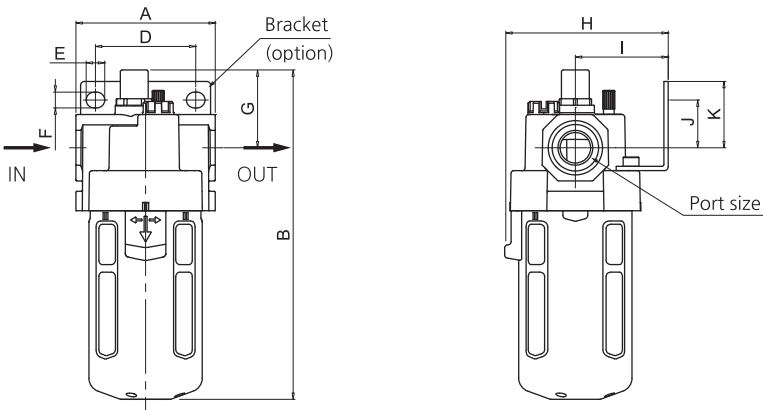


Option	B : Bracket
Model	 B200

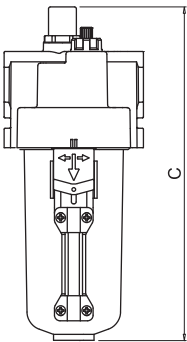
DIMENSIONS (mm)

SAL 300~400

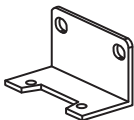
- SAL300-□03□□
SAL400-□04(06)□□



- Dimensions of each model with an option attached



Metal bowl type

Option	B : Bracket											
Model	 SAL300 : B300 SAL400 : B400											

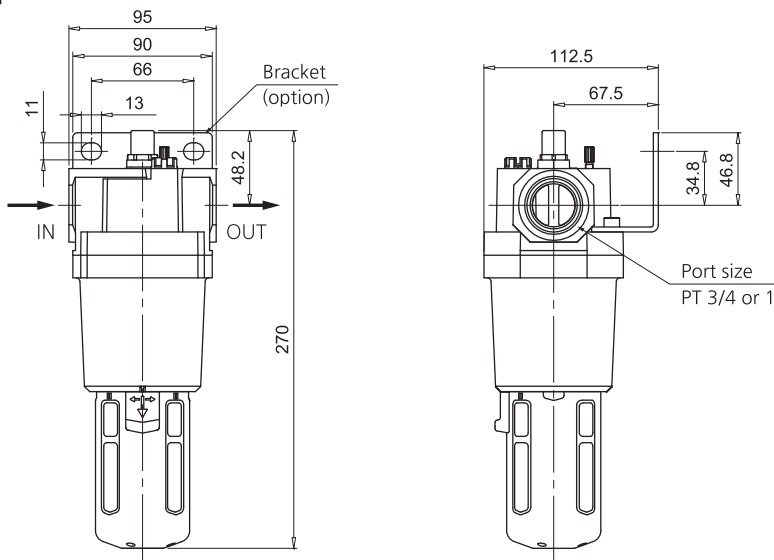
Model	Port size	A	B	C	D	E	F	G	H	I	J	K
SAL300-03	1/4, 3/8	57	147	160	40	7.9	6.3	14	65	36.5	14	21
SAL400-04	1/2	75	177.5	177	54	10	8.5	41.9	85	50	25.7	35.7
SAL400-06	3/4	75	181.5	181	54	10	8.5	43.8	85	50	25.1	35.1

Series SAL100~600

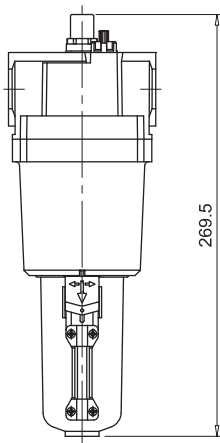
DIMENSIONS (mm)

SAL 600

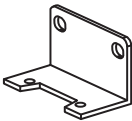
- SAL600-□06□□
- SAL600-□10□□



- Dimensions of each model with an option attached



Metal bowl type

Option	B : Bracket
Model	 B600

Large Flow Air Lubricator (SAL)

SAL800~900 Series



SAL900

How to order

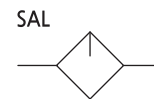
- SAL 8 00 - 14 B - MeP**
- ① Air Lubricator
 - ② **Body Size**
 - 8 - 1 1/4, 1 1/2
 - 9 - 2
 - ③ **Thread type**
 - Nil - Rc(PT)
 - N - NPT
 - G - G(PF)
 - ④ **Port Size**

Symbol	Size	Body size	
		8	9
12	1 1/4	●	
14	1 1/2	●	
20	2		●
 - ⑤ **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.

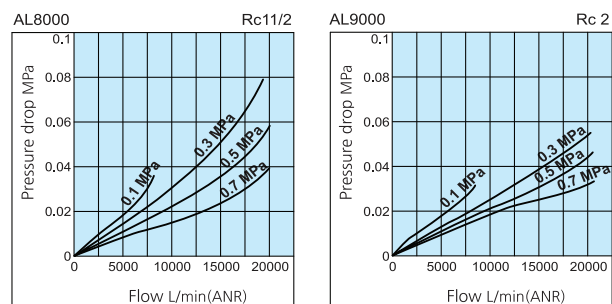
Symbol



Specification

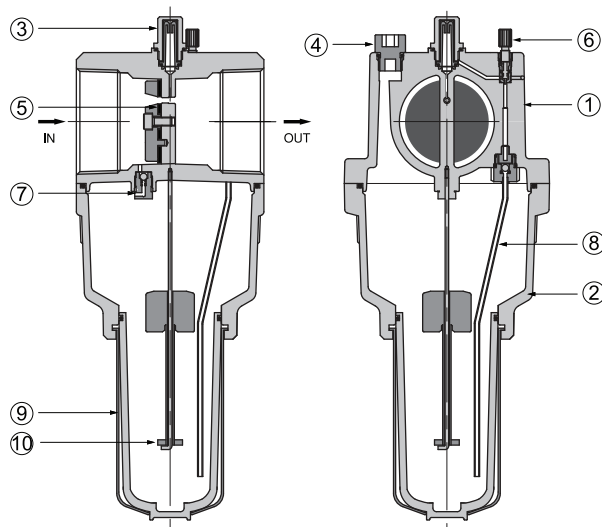
Port size	SAL800	1 1/4, 1 1/2
	SAL900	2
Fluid		Compressed Air
Max. operating pressure		10bar (1.0MPa)
Max. supply pressure		15bar (1.5MPa)
Ambient and Media temp.		-5 ~ 60°C (No freezing)
Recommended oil		Turbin oil (ISO VG32)
Bowl material		Poly-carbonate (option: ALDC)

Flow Characteristics



Series SAL800~900

STRUCTURE / PARTS



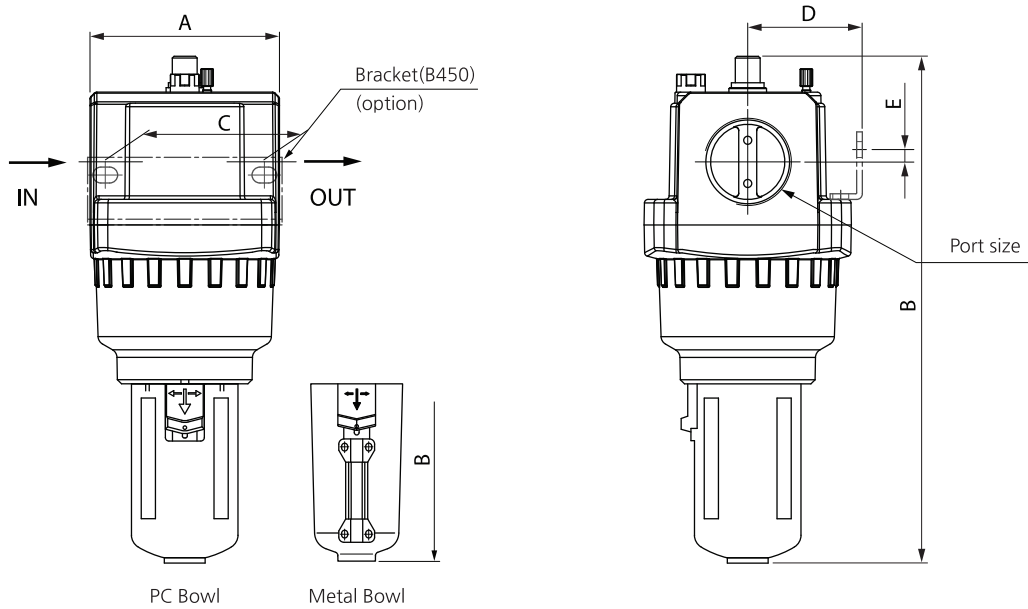
Component Parts

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	A	B		C	D	E
			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.



SAD200



SAD300

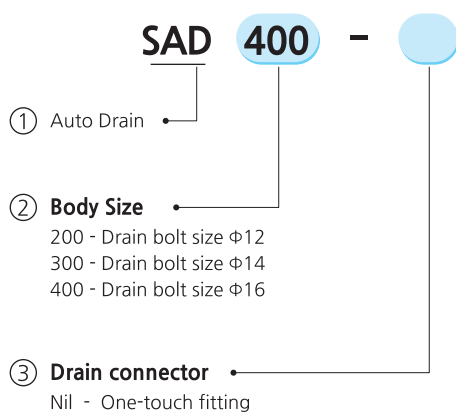


SAD400



SAD400-N

How to order

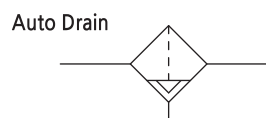


Body size	Drain guide
200	$\Phi 4$
300	$\Phi 6$
400	$\Phi 6$

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°C
Pressure to close drain	Greater than 0.5bar
Pressure to open drain	Less than 0.3bar

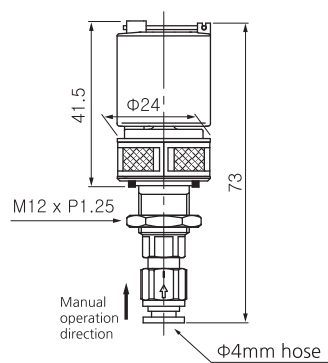
Material

- Cylinder, Cover and Buoy : Acetal
- Gaskets : NBR
- Packing and Valve : NBR
- Spring : Stainless steel
- PIF collet : Zn plated diecasting
- O-ring : NBR
- One-touch fitting, Manual pusher : Br

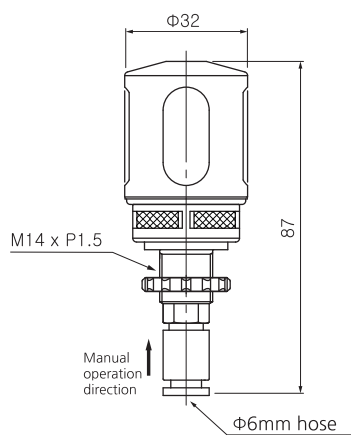
Series SAD200~400

DIMENSIONS (mm)

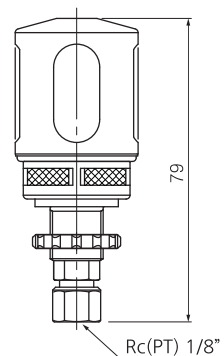
SAD 200



SAD 300

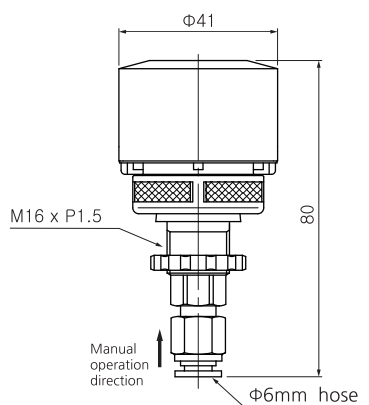


SAD300

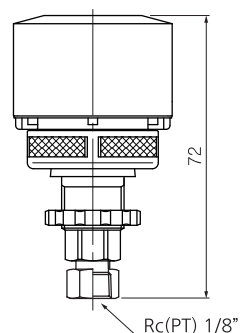


SAD300-N

SAD 400



SAD400

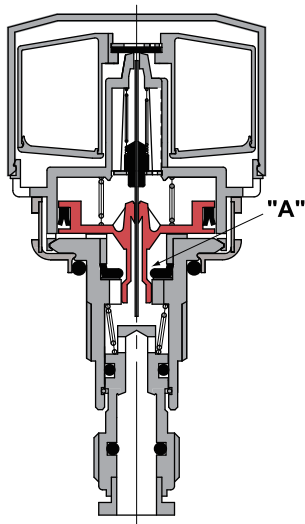


SAD400-N

Working principle

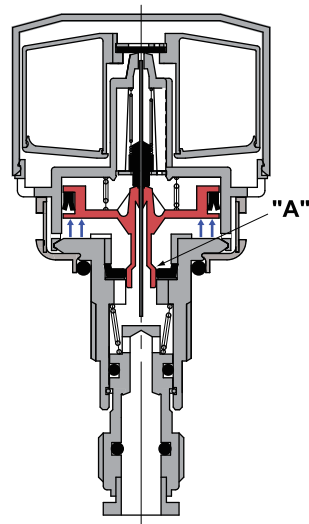
① When unpressurized up to ~0.5 bar

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



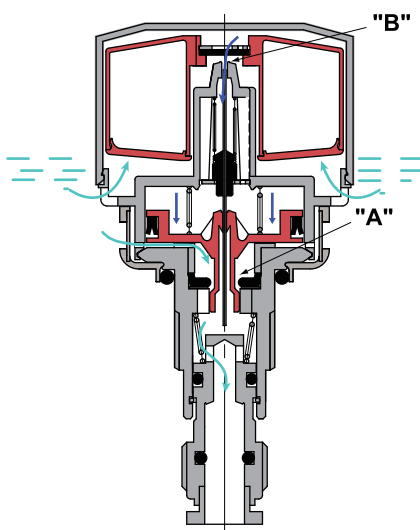
② When pressure is above 0.5 bar in the bowl

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



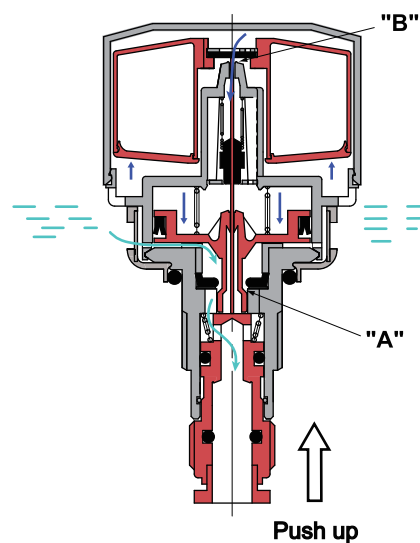
③ When there is accumulation in the bowl

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.



SHVS400

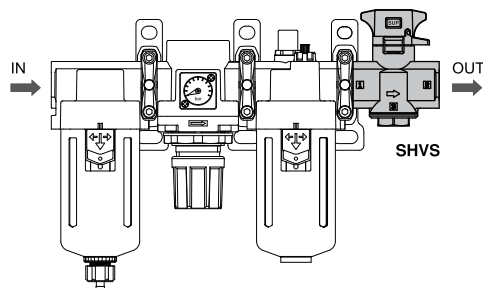


SHVS300

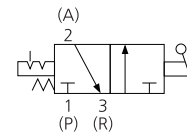
How to order

- SHVS 3 00- 03**
- 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)
 - N - NPT
 - G - G(PF)
 - ④ **Port Size**

Symbol	Size	Body 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	SHVS600	
Port size	IN, OUT	1/4	3/8	1/2	3/4	1
	EXH	1/8	1/4	3/8	1/2	
Cv	IN→OUT	0.88	1.72	3.8	5.0	6.5
	OUT→EXH	0.84	1.66	2.4	2.8	3.1
Fluid		Compressed air				
Proof pressure		15bar (1.5MPa)				
Operating pressure range		1~10bar (0.1~1MPa)				
Ambient and fluid temp.		-5~60°C (No freezing)				
Handle switching 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.

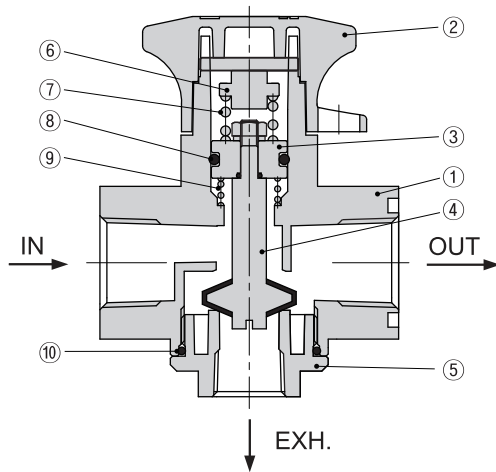
* A spacer or spacer with bracket is required if the valve is combined with modular F.R.L. Please order it separately.

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

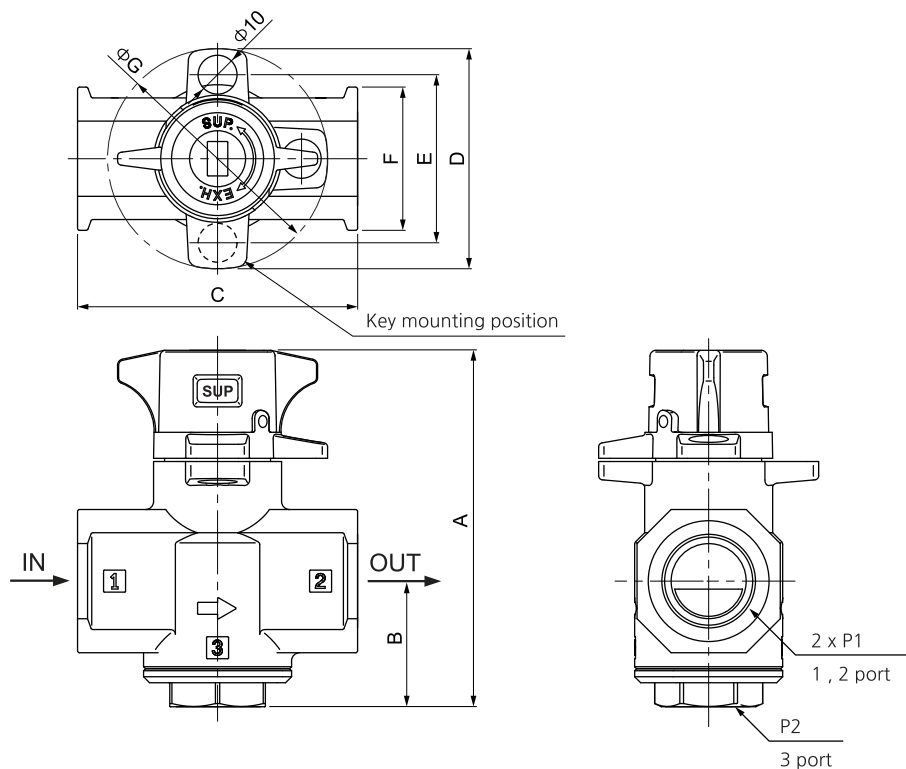
SHVS 200~600



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	A	B	C	D	E	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

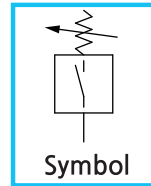
Pressure Switch (SPS)

SPS 100 Series

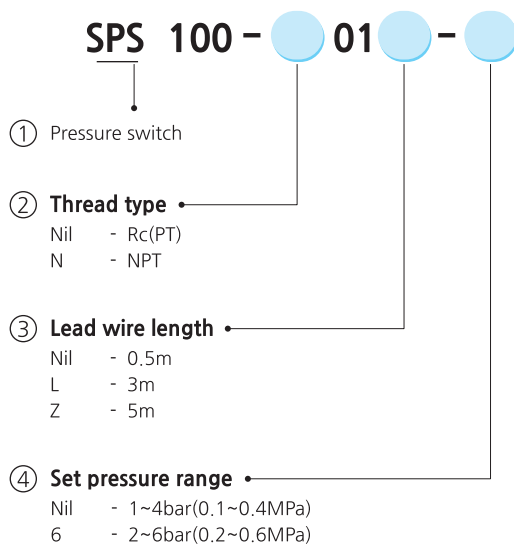


SPS100

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



How to order



Specification

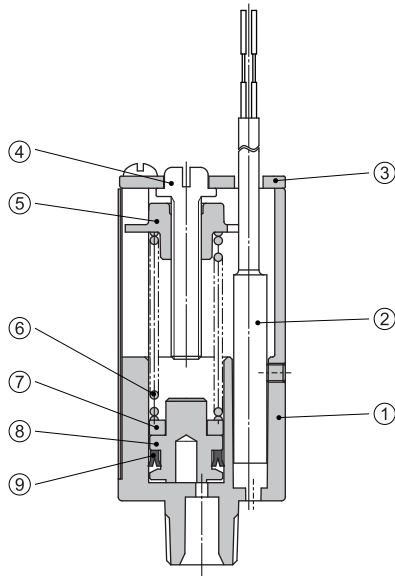
Fluid	Air	
Max. operating pressure	7bar (0.7MPa)	
Proof pressure	10bar (1MPa)	
Ambient and fluid temp.	-5 ~ 60°C (No freezing)	
Set pressure range	Nil	1~4bar (0.1~0.4MPa)
	6	2~6bar (0.2~0.6MPa)
Contacts	1a	
Error of scale	±0.5 bar (0.05 MPa) or less	
Hysteresis	1.2bar (0.12MPa)	
Repeatability	±0.5bar (0.05MPa) or less	
Wiring specifications	Grommet, Lead wire length: 0.5 m	
Port size	1/8	
Voltage	DC24V	AC100
Operating current 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.
- ⑦ 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.
- ⑧ The pressure displayed on the scale plate is a guideline only. Measure the accurate pressure with the pressure gauge.

STRUCTURE / PARTS

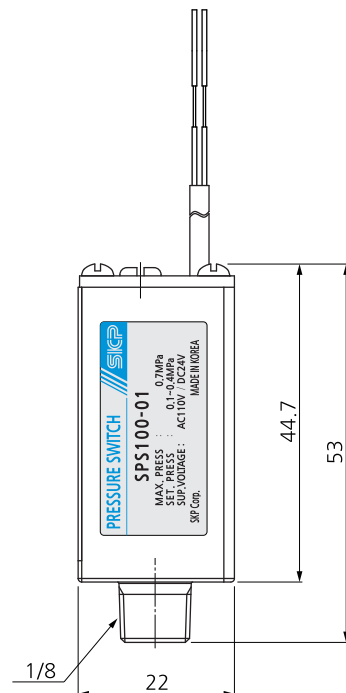
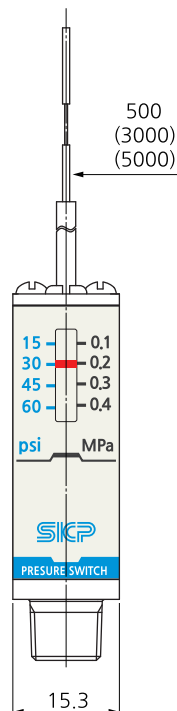
SPS 100



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



Accessory

Gauge Series



G50



G40



G25

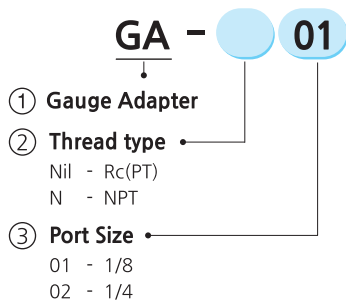
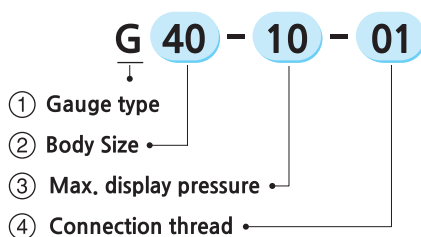


Gs28



GA-01

How to order

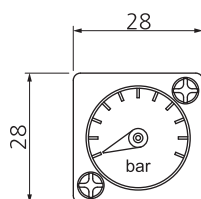


Model		Pressure range ⁽¹⁾	Unit	Connection thread
Standard	G25-10-R1	0~10 (0~1)	Both bar and MPa	R 1/16
	G40-10-01			R 1/8
	G50-10-02			R 1/4
High pressure	Gh40-20-01	0~20 (0~2)	Both bar and MPa	R 1/8
	Gh50-20-02			R 1/4
Precision	Gp40-2-01	0~2 (0~0.2)	Both bar and MPa	R 1/8
	Gp40-4-01	0~4 (0~0.4)		
	Gp40-8-01	0~8 (0~0.8)		
Embedded square	Gs28-10	0~10	bar	-

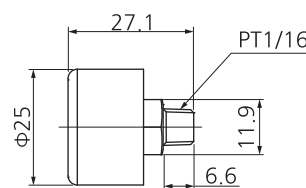
Note : 1. Do not apply pressure more than the maximum display pressure.
This will cause a malfunction.

Dimension(mm)

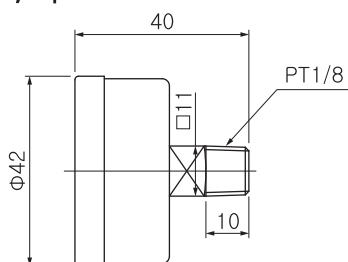
Gs28



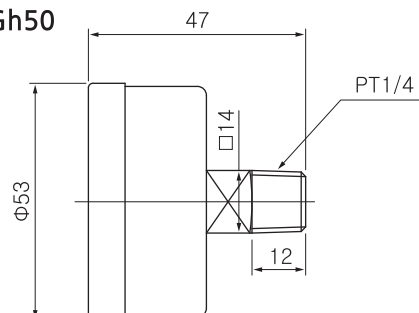
G25



G40, Gh40, Gp40



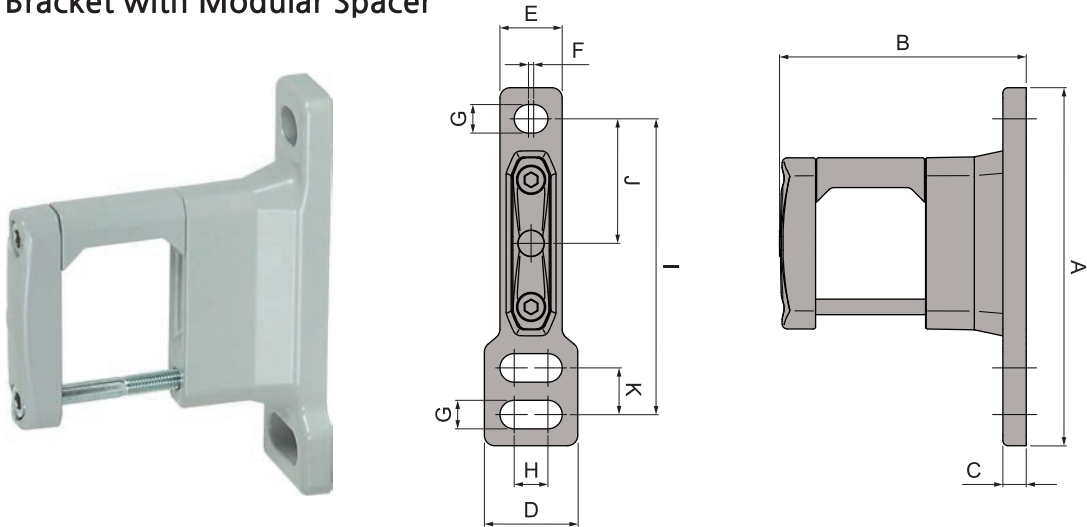
G50, Gh50



Accessory

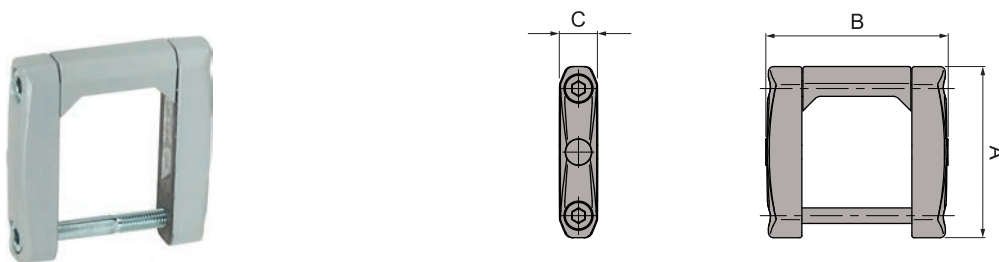
Bracket for Air Unit (B11T~B61T / B11S~B61S)

■ Bracket with Modular Spacer



명칭	A	B	C	D	E	F	G	H	I	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	A	B	C	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

Accessory

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



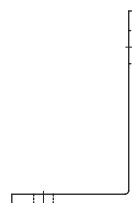
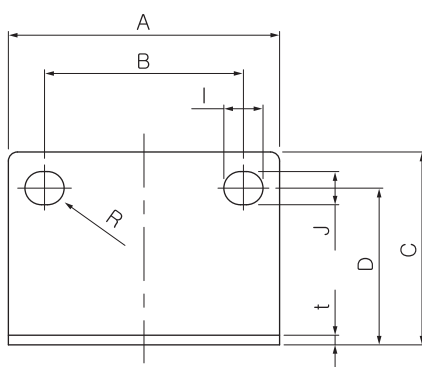
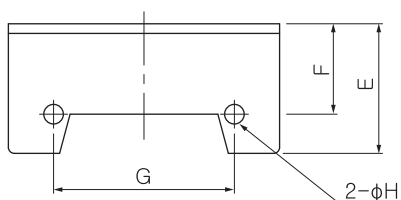
B600



B400



B300



Model	A	B	C	D	E	F	G	H	I	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

Accessory

Bracket for SAR / SAW(B120~B420)

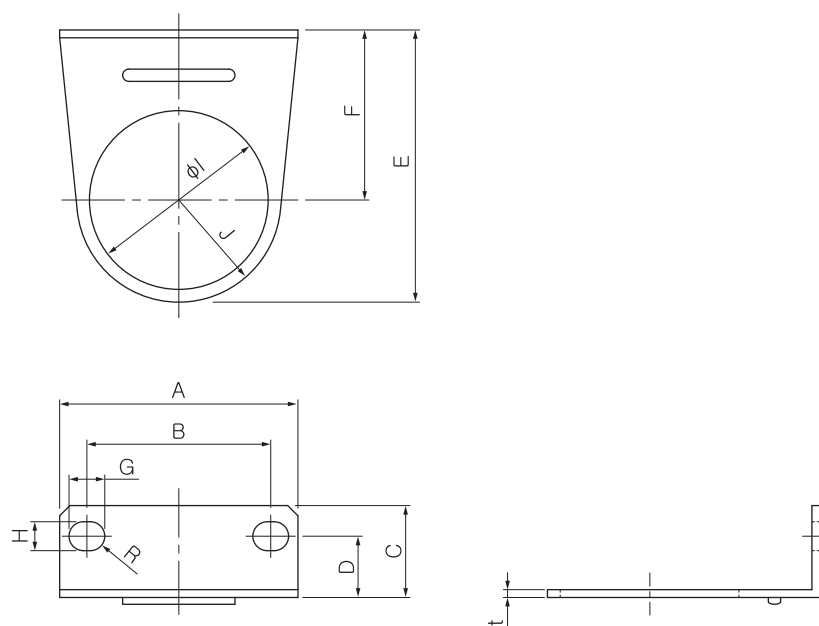


B420

B320

B220

B120

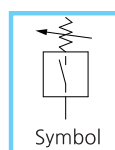
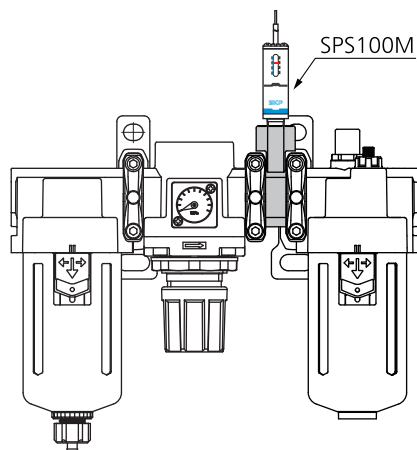


Model	A	B	C	D	E	F	G	H	I	J	R	t	Applicable model
B120	40	28	18.8	13.5	37.5	25	6.5	4.5	18.1	12.5	2.25	1.6	SAR100, SAW100
B220	55	34	21	15	49.5	30	15	5.4	29.8	19.3	5	2	SAR200, SAW200, SAWM200, SAWD200
B320	53	40	22	13.5	67	41	8	6.5	42.5	25	3.25	2.3	SAR300, SAW300, SAWM300, SAWD300
B420	70	54	28	19	80	52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

Accessory

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

SPS 100M -

① Body size

20 - 1/4
30 - 3/8
40 - 1/2
50 - 3/4
60 - 1

② Lead wire length

Nil - 0.5m
L - 3m
Z - 5m

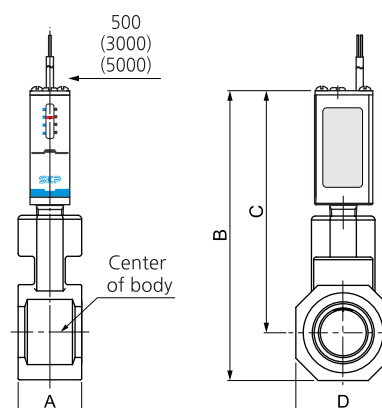
③ Set pressure range

Nil - 1~4bar(0.1~0.4MPa)
6 - 2~6bar(0.2~0.6MPa)

Specification

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

Dimension(mm)

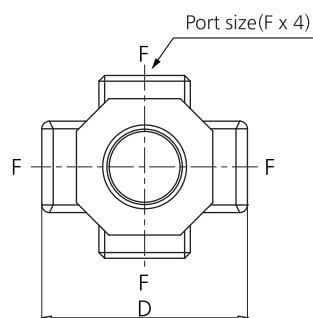
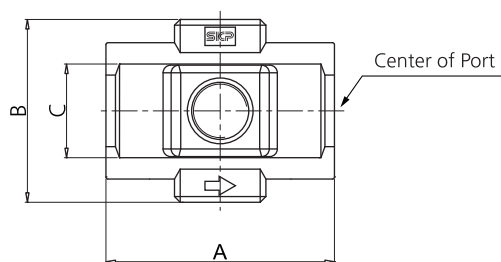
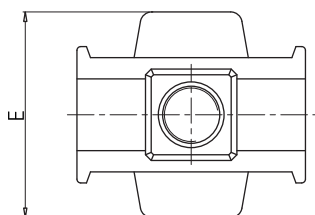
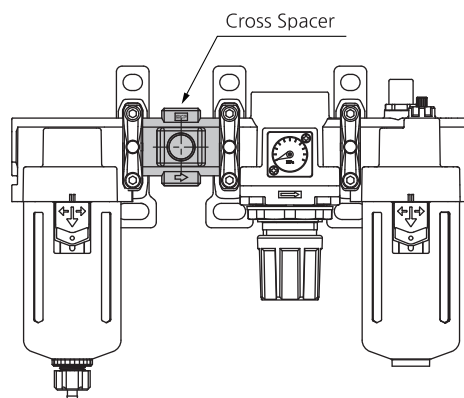


Model	A	B	C	D	Applicable model
PS100M-20	18	89.5	79	25	SAU200, SAU210~260
PS100M-30	19	100	86	30	SAU300, SAU310~360
PS100M-40	24	109	91.1	35.8	SAU400-04, SAU410~460
PS100M-50	24	113	93.2	43.6	SAU400-06, SAU420-06
PS100M-60	28	128	104.3	52.4	SAU600, SAU610~620

Accessory

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)	A	B	C	D	E	Applicable model
B240C-□01	1/8	40	36	21	38	38	SAU200, SAU210~260
B240C-□02	1/4						
B340C-□01	1/8	49	43	28	48	48	SAU300, SAU310~360
B340C-□02	1/4						
B440C-□02	1/4	60	48	35.8	54	54	SAU400-04, SAU410-04~460-04
B440C-□03	3/8						

Note : □ in model numbers indicates a pipe thread type.
No indication is necessary for Rc; however, indicate N for NPT, and G for G.

Accessory

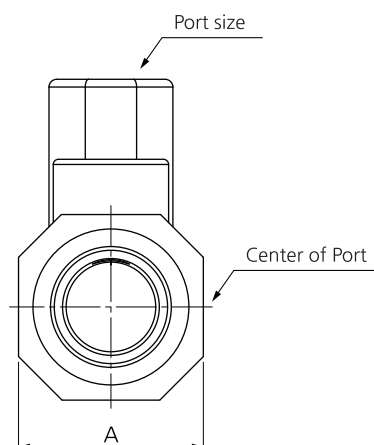
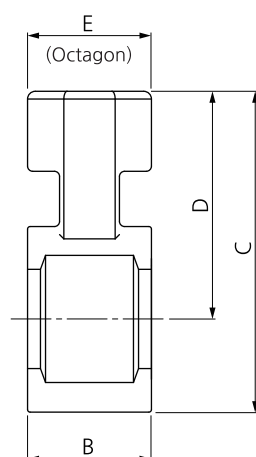
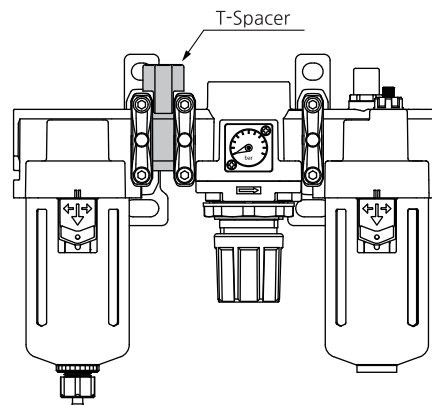
T Spacer(B230T~B630T)

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.



B430T

B230T



Unit (mm)

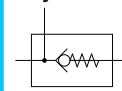
Model	Port size	A	B	C	D	E	Applicable model
B230T-□01	1/8	25	18	42.5	32	19	SAU200, SAU210~260
B230T-□02	1/4						
B330T-□01	1/8	30	19	53	39	19	SAU300, SAU310~360
B330T-□02	1/4						
B430T-□01	1/8	35.8	24	62	44.1	24	SAU400-04, SAU410-04~460-04
B430T-□02	1/4						
B430T-□03	3/8						
B530T-□01	1/8	43.6	24	66	46.2	24	SAU400-06, SAU420-06
B530T-□02	1/4						
B530T-□03	3/8						
B630T-□01	1/8	52.4	28	81	57.3	30	SAU600-06(10), SAU610-06(10), SAU620-06(10)
B630T-□03	3/8						
B630T-□04	1/2						

Note : □ in model numbers indicates a pipe thread type.
No indication is necessary for Rc; however, indicate N for NPT, and G for G.

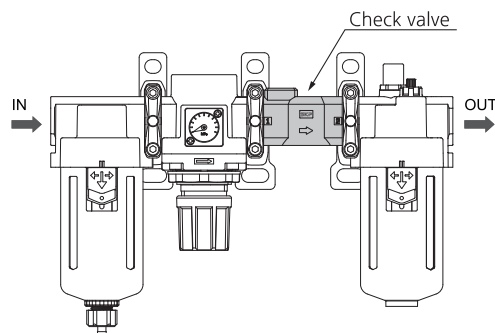
Accessory

Check Valve(SACM200~400)

Symbol



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

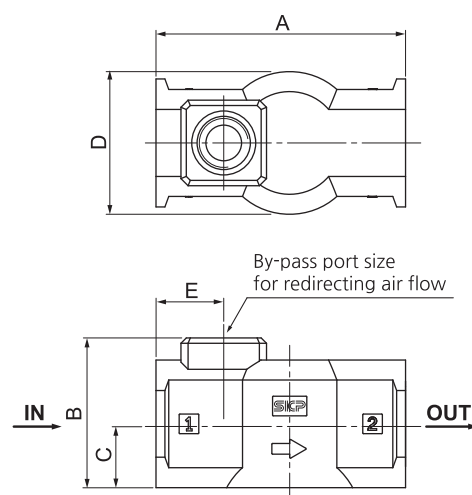
- SACM 4 00- 02**
- ① Check valve
 - ② Body size
 - 2 - 1/4
 - 3 - 3/8
 - 4 - 1/2
 - ③ Thread type
 - Nil - Rc(PT)
 - N - NPT
 - G - G(PF)
 - ④ By-pass port size

Symbol	Size	Body 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)

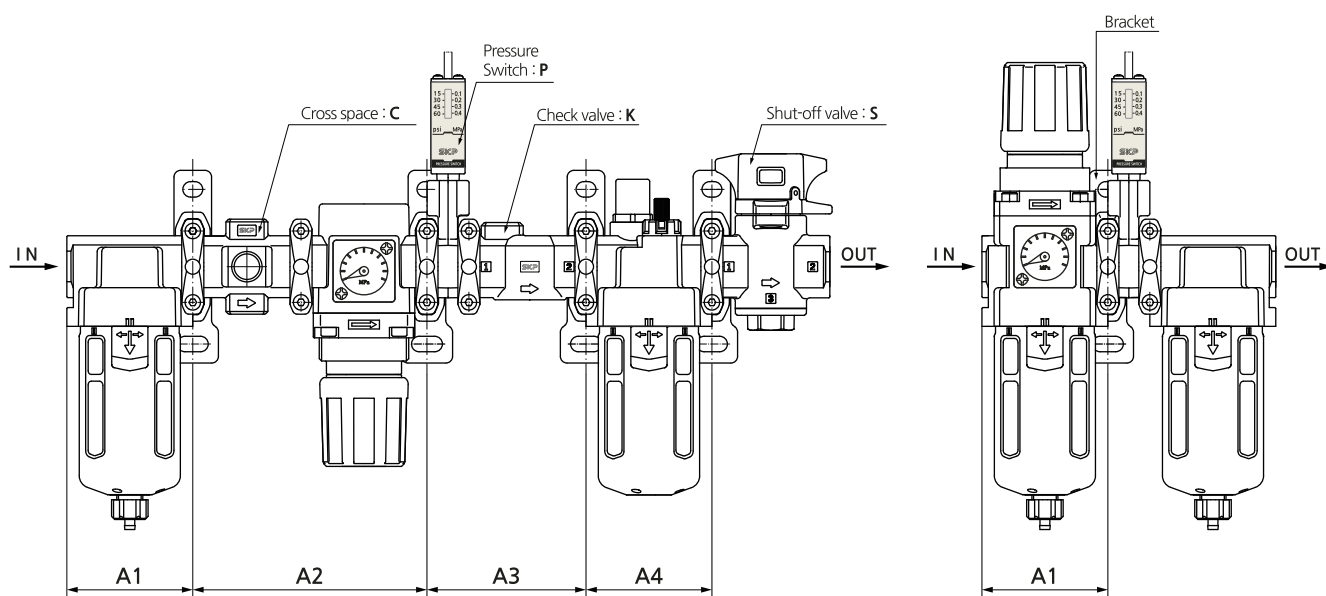
Dimension(mm)



Model	By-pass port size	A	B	C	D	E	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 Model	K			P		C		S			KP			CK			KS				CKP		
	A1	A2	A3	A1	A2	A1	A2	A1	A2	A3	A1	A2	A3	A1	A2	A3	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	—	—	—	95	95	—	—	95	95	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Attachment Model	KPS				KCS				KPCS				PC		PS			PCS			CS		
	A1	A2	A3	A4	A1	A2	A3	A4	A1	A2	A3	A4	A1	A2	A1	A2	A3	A1	A2	A3	A1	A2	A3
SAU100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SAU200	43	43	58	43	43	83	40	43	43	83	58	43	43	83	43	43	61	43	83	61	43	83	43
SAU300	57	57	72	57	57	106	53	57	57	106	72	57	106	57	57	76	57	106	76	57	106	57	72
SAU400-04	75	75	94	75	75	135	70	75	75	135	94	75	75	135	75	75	99	75	135	99	75	135	75
SAU400-06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SAU600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	75	75	99	—	—	—	—	—	—

Attachment Model	K			P		S		KP		KS			KPS			PS	
	A1	A2	A3	A1	A2	A1	A2	A1	A2	A3	A1	A2	A3	A1	A2	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	72	57	76	76
SAU410-04	75	70	75	75	75	75	94	75	70	75	75	94	75	75	99	—	—
SAU610	—	—	95	95	95	—	—	—	—	—	—	—	—	—	95	122	—

Attachment Model	P		C		S		PS		CS	
	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2
SAU220	43	43	43	43	43	43	43	73	73	73
SAU320	57	57	57	57	57	57	57	75	135	135
SAU420-04	75	70	75	75	75	75	94	75	70	70
SAU420-06	75	75	—	—	—	—	—	—	—	—
SAU610	95	95	—	95	95	95	95	—	—	—

Attachment Model	P			C		S			PS			CS		
	A1	A2	A3	A1	A2	A1	A2	A3	A1	A2	A3	A1	A2	A3
SAU230	43	43	43	83	43	43	43	43	43	61	43	83	43	43
SAU330	57	57	57	106	57	57	57	57	57	76	57	106	57	57
SAU430-04	75	75	75	135	75	75	75	75	75	99	75	135	75	75
SAU430-06	75	75	—	—	—	—	—	—	—	—	—	—	—	—

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

Attachment Model	P			C		S			PS			CS		
	A1	A2	A3	A1	A2	A1	A2	A3	A1	A2	A3	A1	A2	A3
SAU250	43	43	43	83	43	43	43	43	43	61	43	83	43	43
SAU350	57	57	57	106	57	57	57	57	57	76	57	106	57	57
SAU450-04	75	75	75	135	75	75	75	75	75	99	75	135	75	75
SAU450-06	75	75	—	—	—	—	—	—	—	—	—	—	—	—

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

L1 : Dimension from the end of the IN side to the center of the mounting hole for the first bracket

L2 : Mounting hole between the first and the second brackets

L3 : Mounting hole between the second and the third brackets

L4 : Mounting hole between the third 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.
Air leaks at the connecting part of a bowl.	Clamp ring is loosened.	Clamp ring should be locked by turning. If air is still leaking after locking, shut off the air source and change the damaged part.
	Flaw is on the O-ring.	
	Damaged bowl.	
Draining function is not working when the drain is opened.	Solid foreign substances are clogging the drain pipe.	Cleaning exhaust pipe is required.
Air leaks at a drain valve.	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.
	Foreign substances is inserted into the seat of drain valve or seat is damaged.	
	The bowl attached to the drain valve is damaged.	
Condensed water is not drained when auto drain attached type used.	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.
	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.	
Condensed water is constantly drained after once drained when auto drain attached type used.	A valve seat is damaged.	After shutting off air, disassemble and clean or change the damaged part.
	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.	

Troubleshooting

• REGULATOR

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

Troubleshooting

• LUBRICATOR

Condition	Trouble Cause	Solution
Oil is not accumulated in spite of air flowing.	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.
	Regulating loading valve is tightened up excessively.	Proper regulating is required.
	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.
Flow is hardly regulated.	Regulating screws are excessively loose.	Proper regulating is required.
	Regulating screws are hardly tightened because of dust around them.	Disassembly, inspection and cleaning are required.
	Regulating screws or seat parts get flaw.	
Oil leaks at regulating screw parts.	Regulating screws are excessively loose.	Proper regulating is required.
	O-ring is damaged.	Replace damaged parts.
Air leaks at connecting part of bowl.	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. Replace damaged parts.
	O-ring is damaged.	
	A bowl is damaged.	

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.

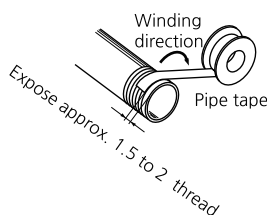
Mounting

⚠ WARNING

- 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.

Directional Control Valve



■ SV (Solenoid Valve)	178
■ SMV (Mechanical Valve)	201
■ SMVS (Spool type Mechanical valve)	211
■ SMVF (Pilot type Mechanical valve)	216
■ SFVM (Foot Valve)	231
■ SHV (Hand Valve)	233

5port Pilot Operated Solenoid Valve (SV)

SV1000 Series (Rc(PT) 1/8)

- 18.0mm Body width
- Transition Flow 700 l/min (5bar)

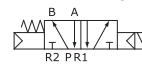


How to order

- SV 11 30-110V-CL-P-01**
- Solenoid valve**
 - Function**
 - 1 - 2 position single
 - 2 - 2 position double
 - 3 - 3 position Closed Center
 - 4 - 3 position Exhaust Center
 - 5 - 3 position Pressure Center
 - Coil Rate Voltage**
 - 220V - AC 220V
 - 110V - AC 110V
 - 24V - AC 24V
 - D24V - DC 24V
 - Coil Type**
 - Nil - Without Coil
 - G - Flying Leads (Grommet)
 - C - 3 Pin coil + Connector
 - CL - 3 Pin coil + LED lamp Connector
 - Manual Operator**
 - P - Push Button
 - Thread Type**
 - Nil - Rc(PT)
 - N - NPT
 - G - G(PF)
 - Port Size**
 - 01 - Rc(PT) 1/8

Symbol

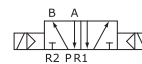
2 Position Single



3 Position Closed Center



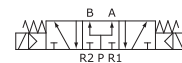
2 Position Double



3 Position Exhaust Center



3 Position Pressure Center



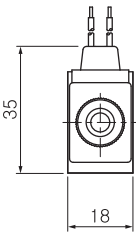
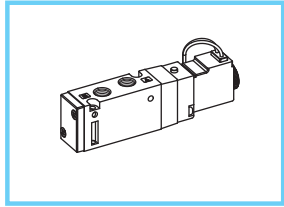
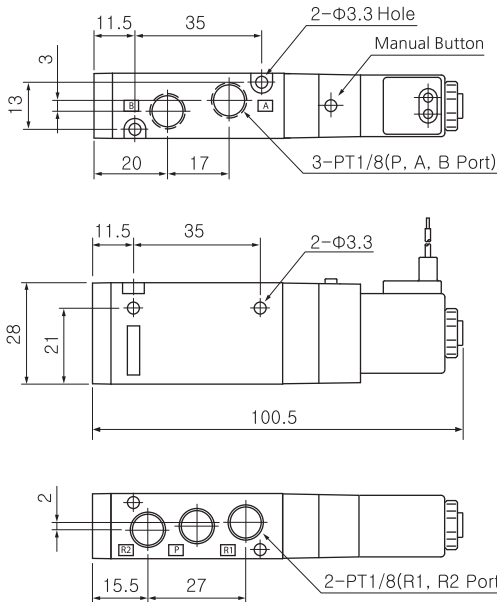
Specification

Function	5port 2position	5port 3position
Fluid	Compressed air	
Ambient and Media temp.	5 ~ 60°C	
Max. operating pressure	1.5~10bar	2~10bar
Eff. Sectional Area(5bar)	12.6mm ²	9.0mm ²
Response time(5bar)	25ms or less	35ms or less
Max. operating frequency	5c/sec	3c/sec
Lubrication	Not required	
Manual override	Push button	
Coil insulation	F-Class or Equivalent	
Allowable voltage	±10% rated voltage	
Power consumption	AC:3.6VA(60Hz) / DC:2.5W	

DIMENSIONS (mm)

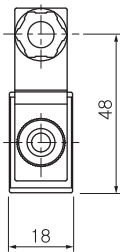
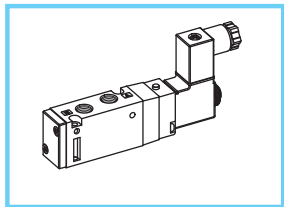
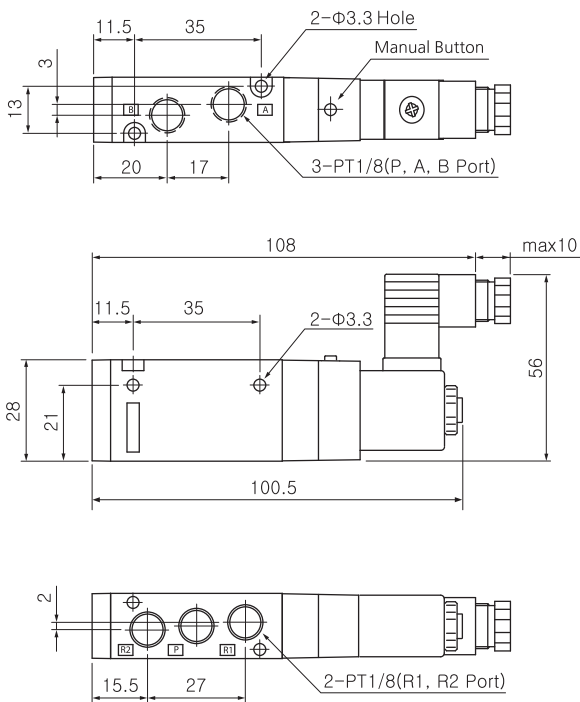
2position / 5port single(Grommet type)

SV1130-□□□V-G-...



2position / 5port single(Connector type)

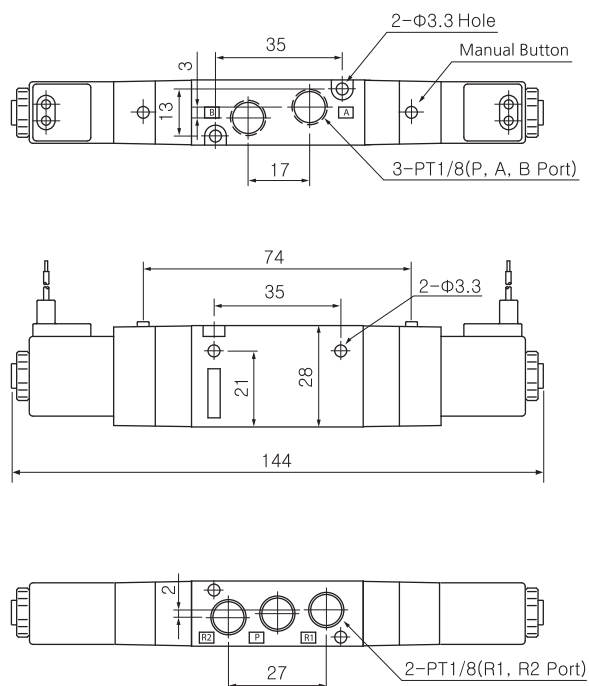
SV1130-□□□V-C-...



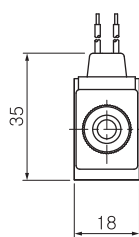
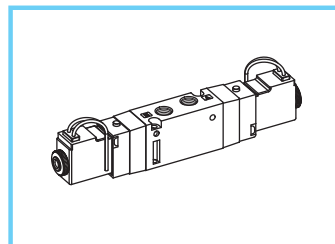
Series SV1000

DIMENSIONS (mm)

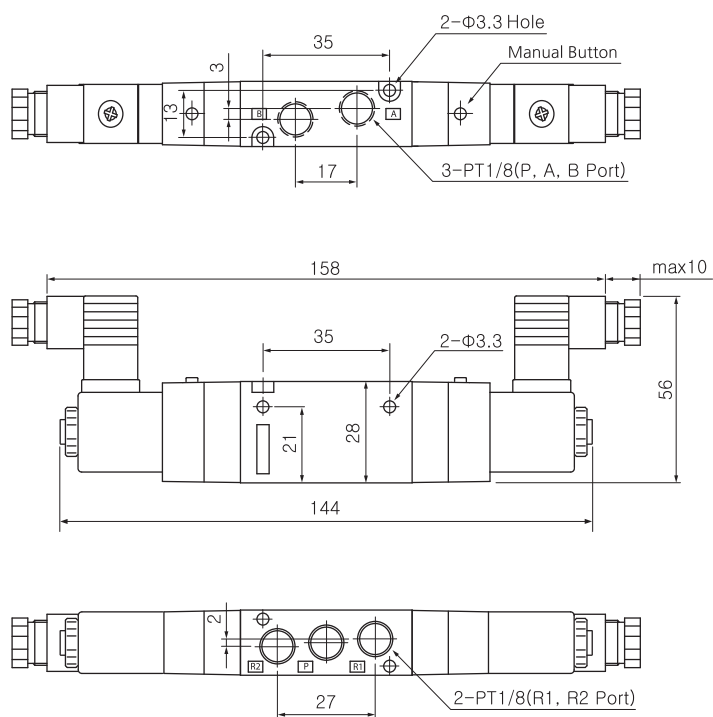
2position / 5port double(Grommet type)



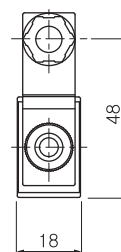
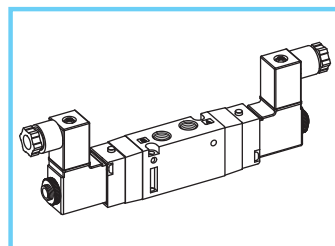
SV1230-□□□V-G-...



2position / 5port double(Connector type)



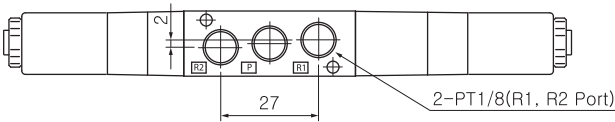
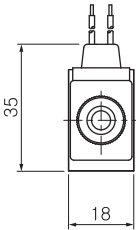
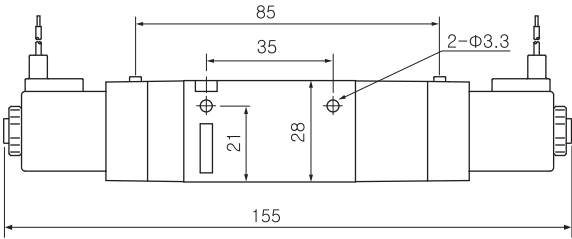
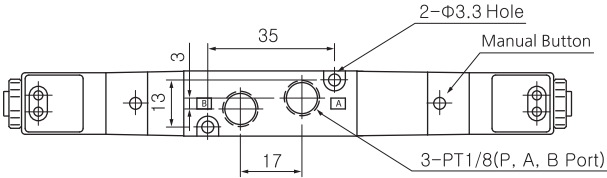
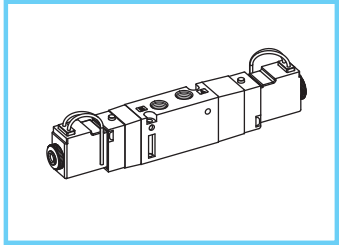
SV1230-□□□V-C-□-...



DIMENSIONS (mm)

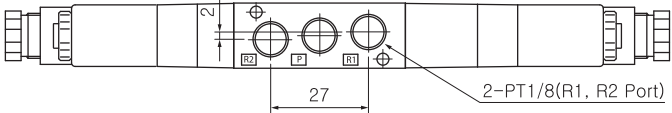
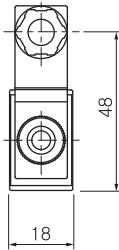
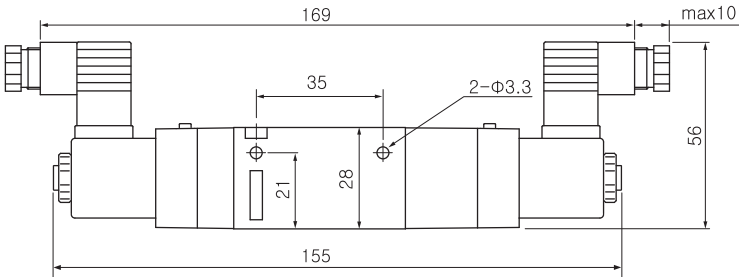
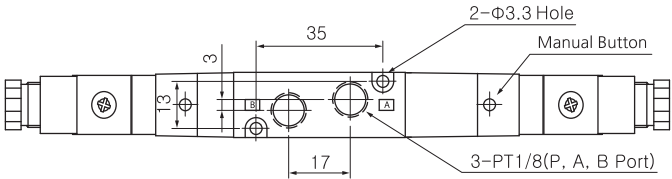
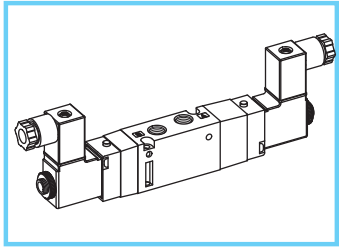
3position / 5port double (Grommt type)

SV1330-□□□V-G-...



3position / 5port double (Connector type)

SV1330-□□□V-C□-...



5port Pilot Operated Solenoid Valve (SV)

SV3000 Series (Rc(PT) 1/4)

- 26.5mm Body width
- Transition Flow 1000 l/min (5bar)

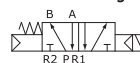


How to order

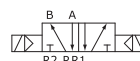
- SV 3 1 30-220V-GL-P-02**
- ① Solenoid valve
 - ② **Function**
 - 1 - 2 position single
 - 2 - 2 position double
 - 3 - 3 position Closed Center
 - 4 - 3 position Exhaust Center
 - 5 - 3 position Pressure Center
 - ③ **Coil Rate Voltage**
 - 220V - AC 220V
 - 110V - AC 110V
 - 24V - AC 24V
 - D24V - DC 24V
 - ④ **Coil Type**
 - Nil - Without Coil
 - G - Flying Leads (Grommet)
 - GL - Flying Leads with LED lamp(Grommet)
 - C - 3 Pin coil + Connector
 - CL - 3 Pin coil + LED lamp Connector
 - ⑤ **Manual Operator**
 - P - Push Button
 - ⑥ **Thread Type**
 - Nil - Rc(PT)
 - N - NPT
 - G - G(PF)
 - ⑦ **Port Size**
 - 02 - Rc(PT) 1/4(P, A, B), 1/8(R1, R2)

Symbol

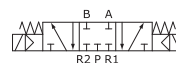
2 Position Single



2 Position Double



3 Position Closed Center



3 Position Exhaust Center



3 Position Pressure Center



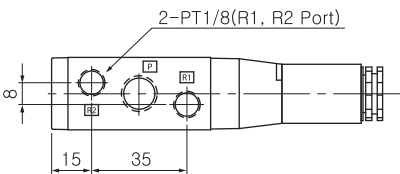
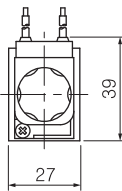
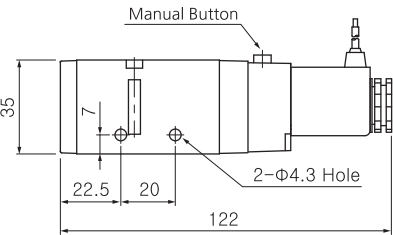
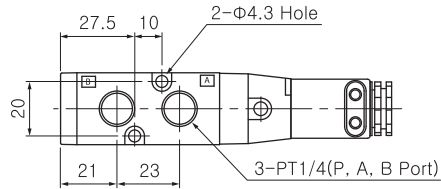
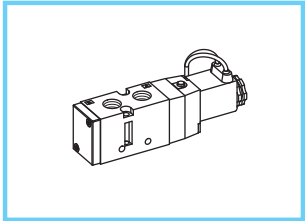
Specification

Function	5port 2position	5port 3position
Fluid	Compressed air	
Ambient and Media temp.	5 ~ 60°C	
Max. operating pressure	1.5~10bar	2~10bar
Eff. Sectional Area(5bar)	19mm ²	11.5mm ²
Response time(5bar)	25ms or less	35ms or less
Max. operating frequency	5c/sec	3c/sec
Lubrication	Not required	
Manual override	Push button	
Coil insulation	F-Class or Equivalent	
Allowable voltage	±10% rated voltage	
Power consumption	AC:4.9VA(60Hz) / DC:2.5W	

DIMENSIONS (mm)

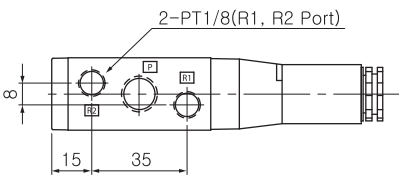
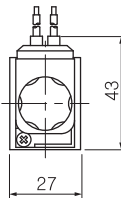
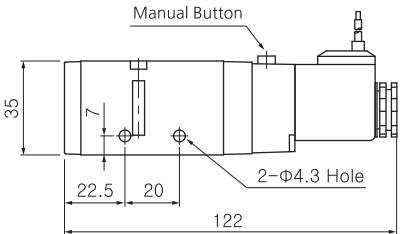
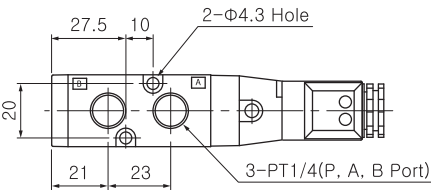
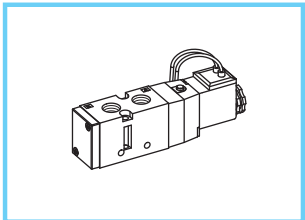
2position / 5port single(Grommet type)

SV3130-□□□V-G-...



2position / 5port single(Lamp type)

SV3130-□□□V-GL-...

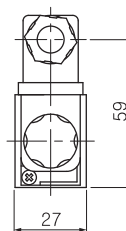
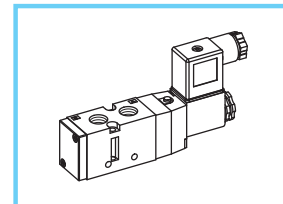
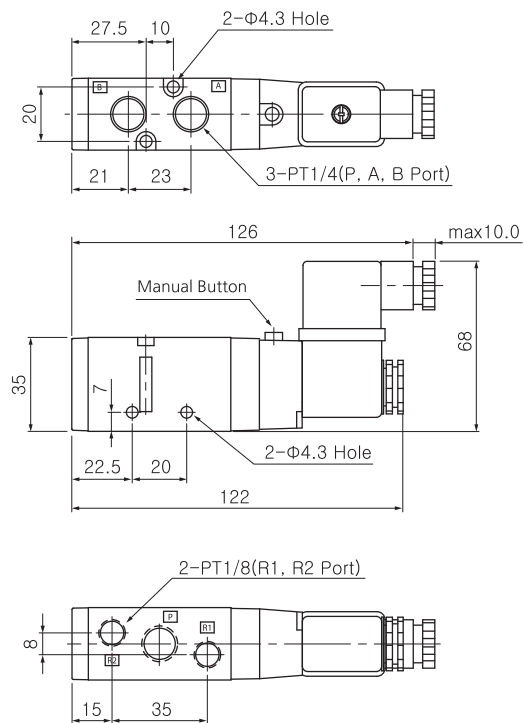


Series SV3000

DIMENSIONS (mm)

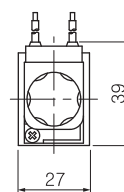
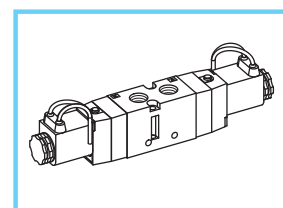
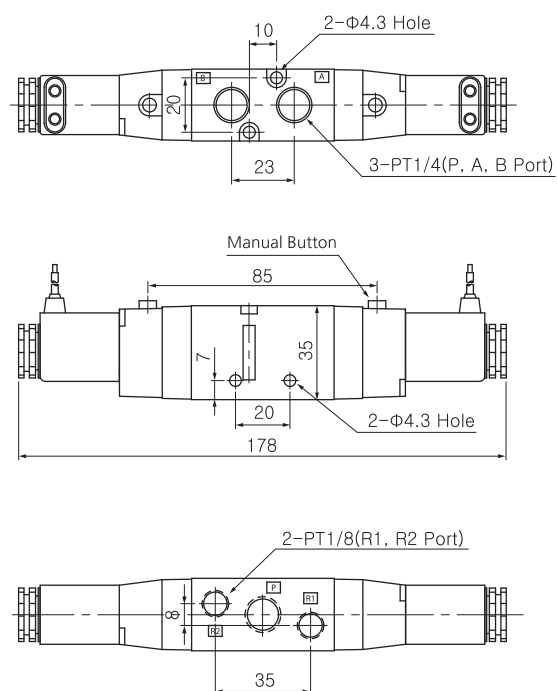
2position / 5port single(Connector type)

SV3130-□□□V-C□-...



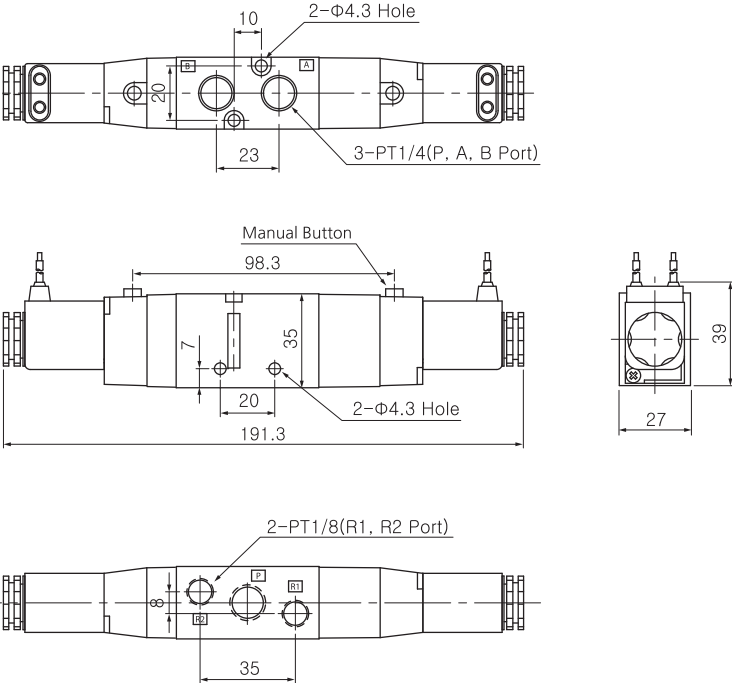
2position / 5port double(Grommet type)

SV3230-□□□V-G-...

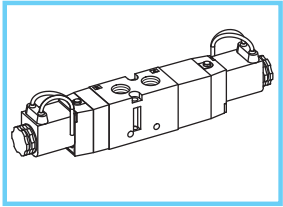


DIMENSIONS (mm)

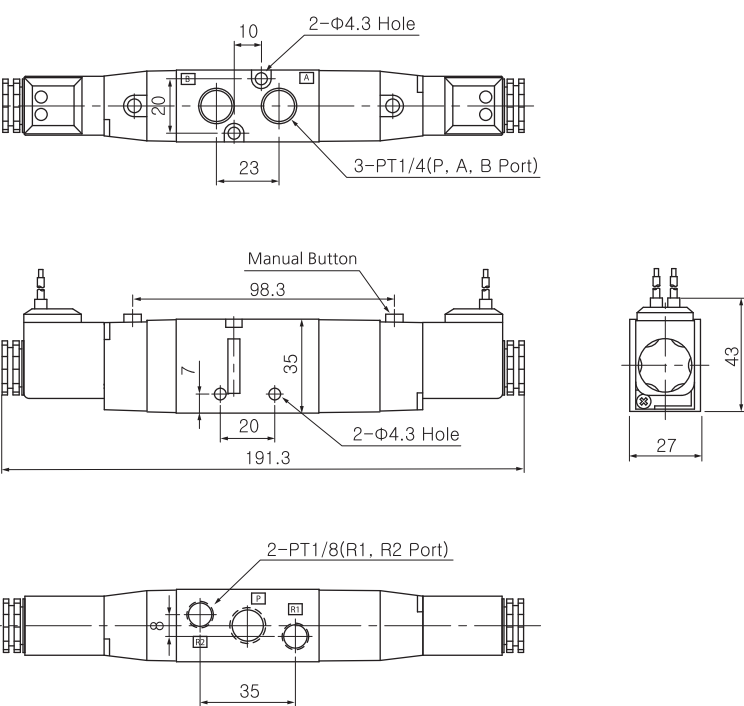
3position / 5port double(Grommet type)



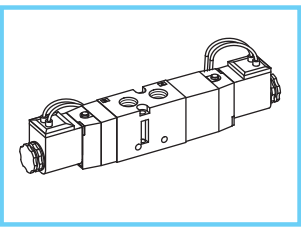
SV3330-□□□V-G-...



3position / 5port double(Lamp type)



SV3330-□□□V-GL-...

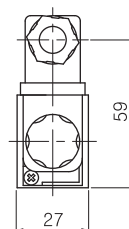
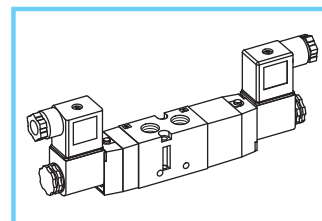
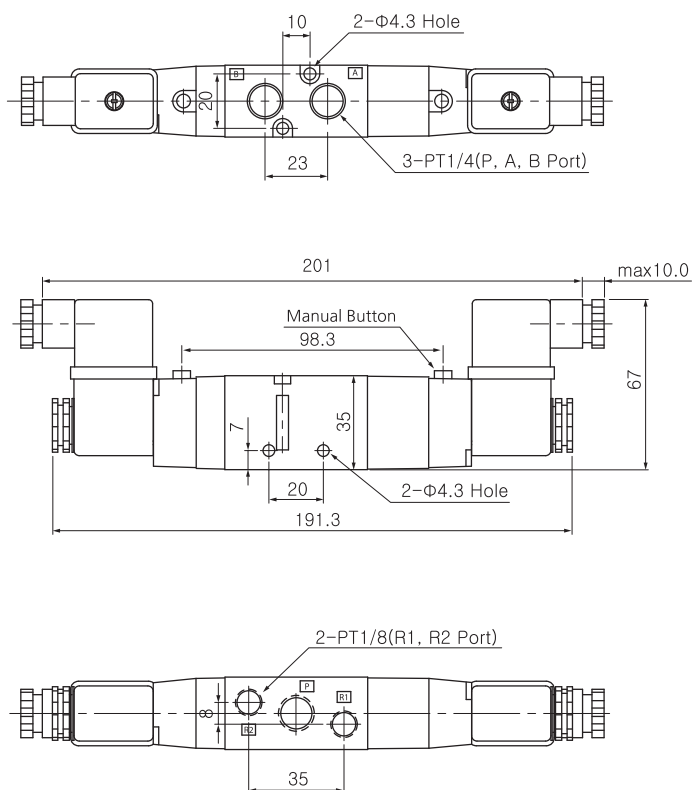


Series SV3000

DIMENSIONS (mm)

3position / 5port double(Connector type)

SV3330-□□□V-C□-...



5port Pilot Operated Solenoid Valve (SV)

SV5000 Series (Rc(PT) 3/8)

- 32.0mm Body width
- Transition Flow 2000 l/min (5bar)



How to order

- SV 5 1 30-220V - GL - P - 03**
- ① Solenoid valve
 - ② **Function**
 - 1 - 2 position single
 - 2 - 2 position double
 - 3 - 3 position Closed Center
 - 4 - 3 position Exhaust Center
 - 5 - 3 position Pressure Center
 - ③ **Coil Rate Voltage**
 - 220V - AC 220V
 - 110V - AC 110V
 - 24V - AC 24V
 - D24V - DC 24V
 - ④ **Coil Type**
 - Nil - Without Coil
 - G - Flying Leads (Grommet)
 - GL - Flying Leads with LED lamp(Grommet)
 - C - 3 Pin coil + Connector
 - CL - 3 Pin coil + LED lamp Connector
 - ⑤ **Manual Operator**
 - P - Push Button
 - ⑥ **Thread Type**
 - Nil - Rc(PT)
 - N - NPT
 - G - G(PF)
 - ⑦ **Port Size**
 - 03 - Rc(PT) 3/8

Symbol

2 Position Single



2 Position Double



3 Position Closed Center



3 Position Exhaust Center



3 Position Pressure Center



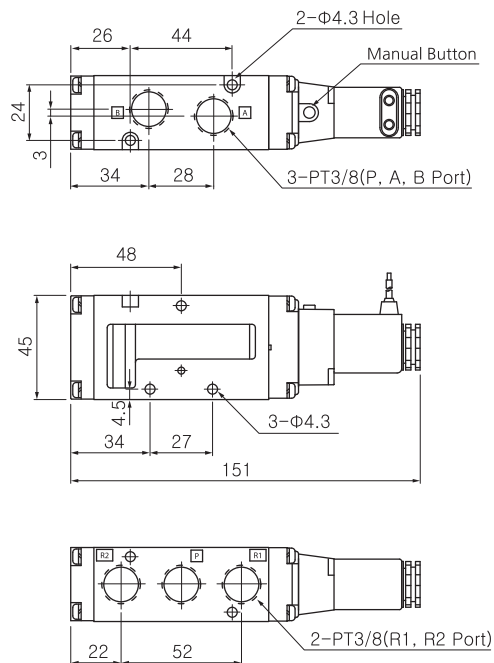
Specification

Function	5port 2position	5port 3position
Fluid	Compressed air	
Ambient and Media temp.	5 ~ 60℃	
Max. operating pressure	1.5~10bar	2~10bar
Eff. Sectional Area(5bar)	36mm ²	30mm ²
Response time(5bar)	30ms or less	40ms or less
Max. operating frequency	5c/sec	3c/sec
Lubrication	Not required	
Manual override	Push button	
Coil insulation	F-Class or Equivalent	
Allowable voltage	±10% rated voltage	
Power consumption	AC:4.9VA(60Hz) / DC:2.5W	

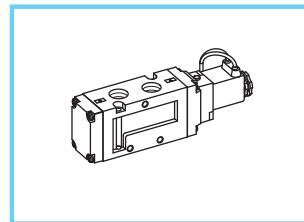
Series SV5000

DIMENSIONS (mm)

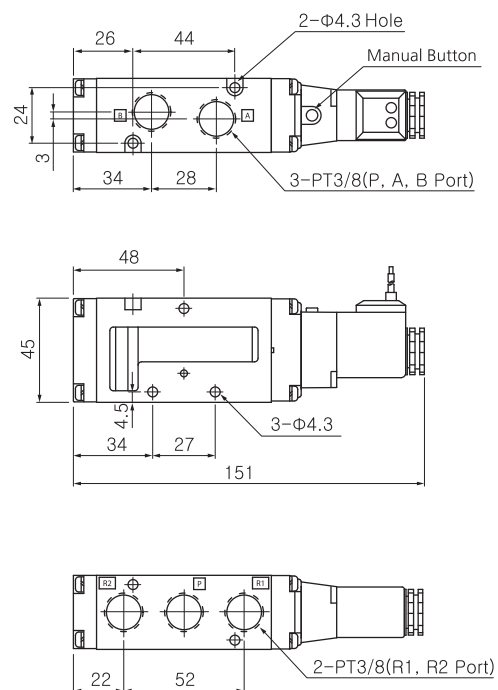
2position / 5port single(Grommet type)



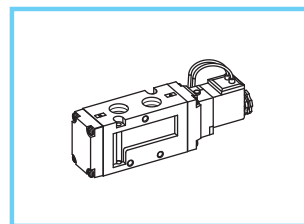
SV5130-□□□V-G-...



2position / 5port single(Lamp type)



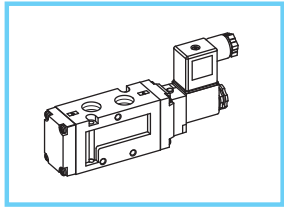
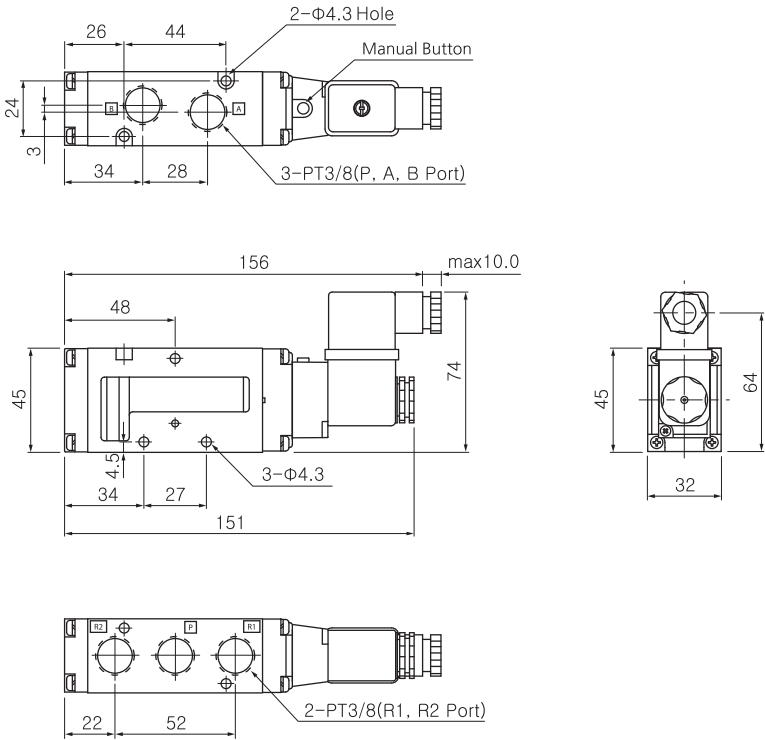
SV5130-□□□V-GL-...



DIMENSIONS (mm)

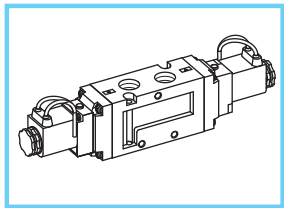
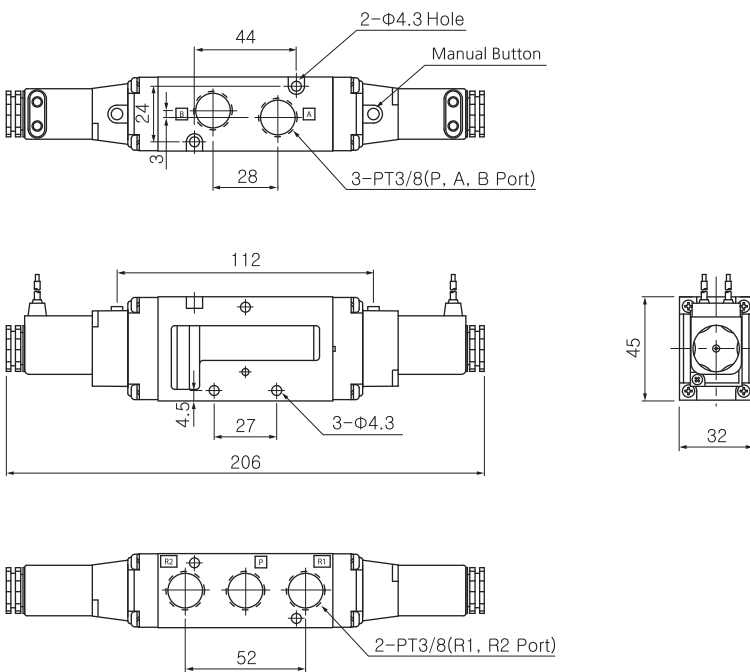
2position / 5port single(Connector type)

SV5130-□□□V-C□-...



2position / 5port double(Grommet type)

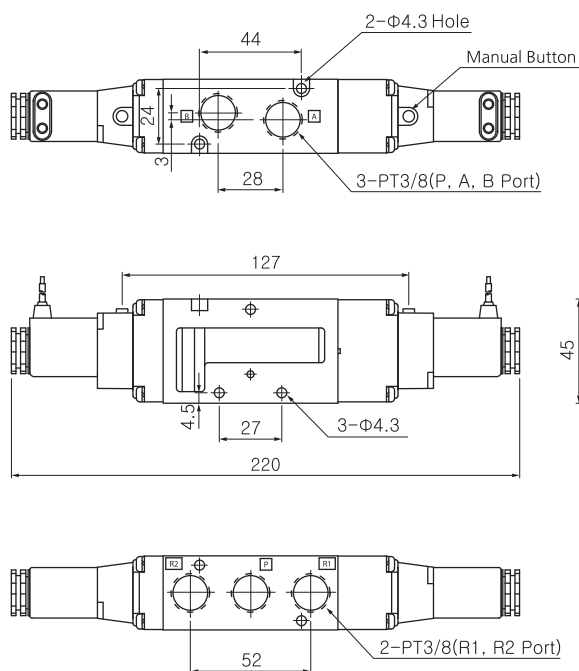
SV5230-□□□V-G-...



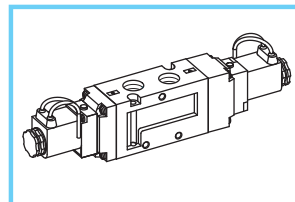
Series SV5000

DIMENSIONS (mm)

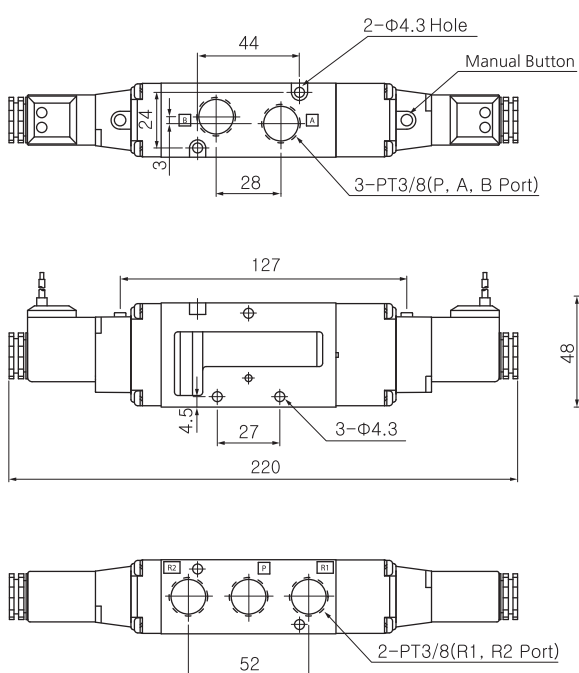
3position / 5port double(Grommet type)



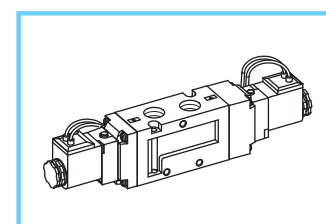
SV5330-□□□V-G-...



3position / 5port double(Lamp type)

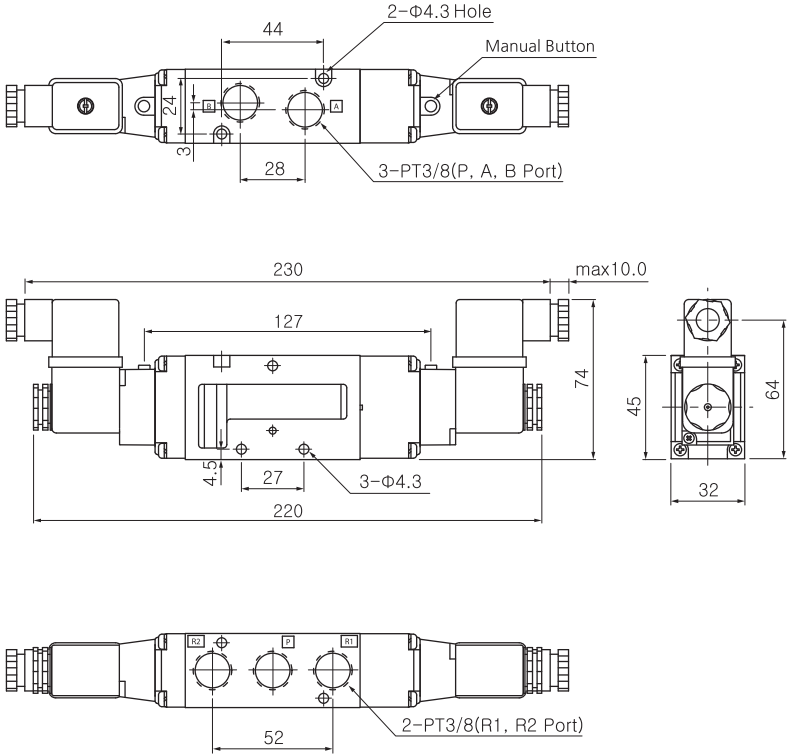


SV5330-□□□V-GL-...

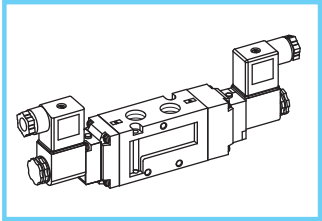


DIMENSIONS (mm)

3position / 5port double(Connector type)



SV5330-□□□V-C□-...



5port Pilot Operated Solenoid Valve (SV)

SV6000 Series (Rc(PT) 1/2)

- 36.0mm Body width
- Transition Flow 3500 l/min (5bar)



How to order

SV 6 1 30-220V-GL-P-04

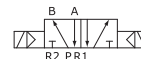
- ① Solenoid valve
- ② **Function**
 - 1 - 2 position single
 - 2 - 2 position double
 - 3 - 3 position Closed Center
 - 4 - 3 position Exhaust Center
 - 5 - 3 position Pressure Center
- ③ **Coil Rate Voltage**
 - 220V - AC 220V
 - 110V - AC 110V
 - 24V - AC 24V
 - D24V - DC 24V
- ④ **Coil Type**
 - Nil - Without Coil
 - G - Flying Leads (Grommet)
 - GL - Flying Leads with LED lamp(Grommet)
 - C - 3 Pin coil + Connector
 - CL - 3 Pin coil + LED lamp Connector
- ⑤ **Manual Operator**
 - P - Push Button
- ⑥ **Thread Type**
 - Nil - Rc(PT)
 - N - NPT
 - G - G(PF)
- ⑦ **Port Size**
 - 04 - Rc(PT) 1/2

Symbol

2 Position Single



2 Position Double



3 Position Closed Center



3 Position Exhaust Center



3 Position Pressure Center



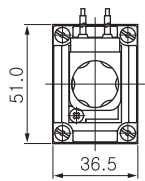
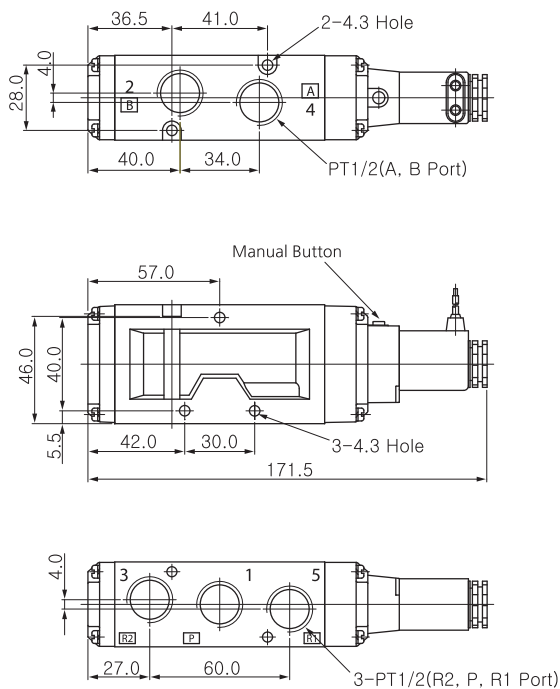
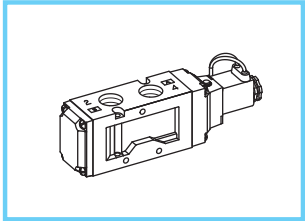
Specification

Function	5port 2position	5port 3position
Fluid	Compressed air	
Ambient and Media temp.	5~60℃	
Max. operating pressure	1.5~10bar	2~10bar
Eff. Sectional Area(5bar)	65mm ²	50mm ²
Response time(5bar)	30ms or less	40ms or less
Max. operating frequency	2c/sec	1c/sec
Lubrication	Not required	
Manual override	Push button	
Coil insulation	F-Class or Equivalent	
Allowable voltage	±10% rated voltage	
Power consumption	AC:4.9VA(60Hz) / DC:2.5W	

DIMENSIONS (mm)

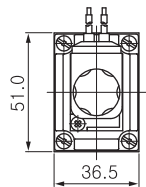
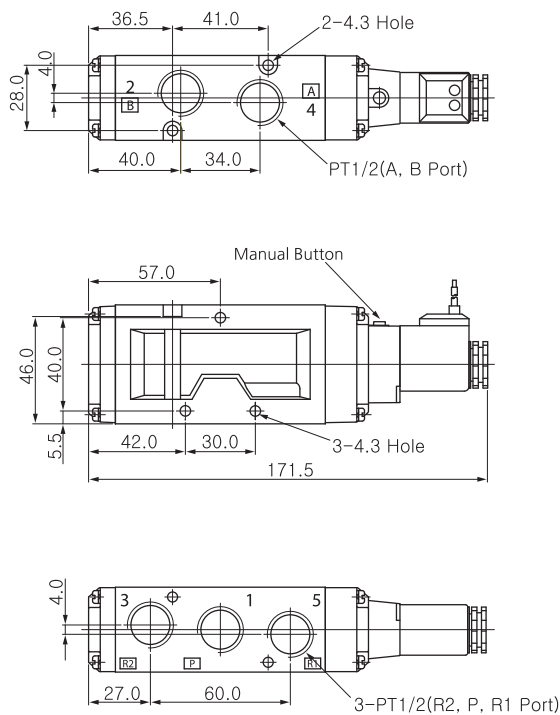
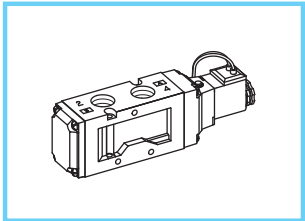
2position / 5port single(Grommet type)

SV6130-□□□V-G-...



2position / 5port single(Lamp type)

SV6130-□□□V-GL-...

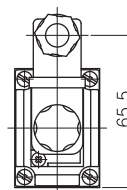
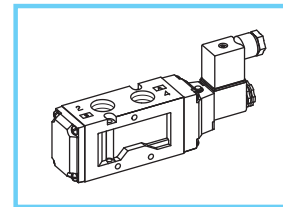
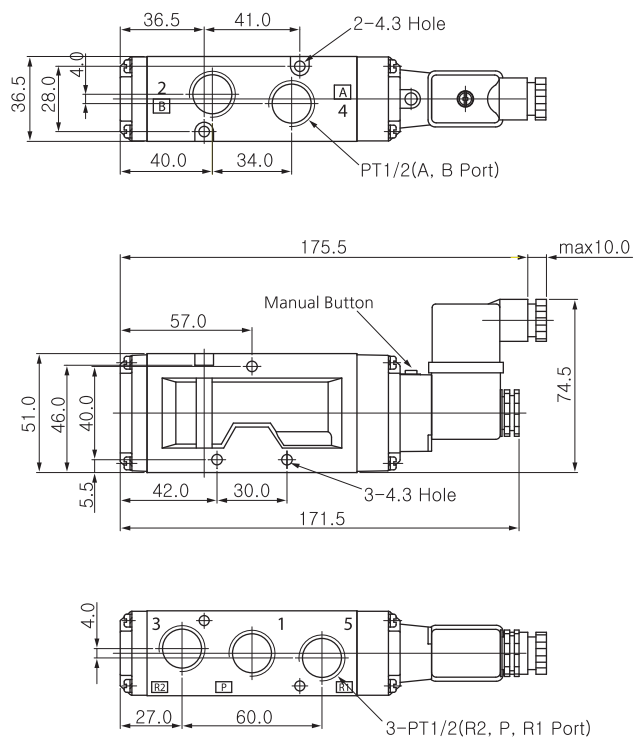


Series SV6000

DIMENSIONS (mm)

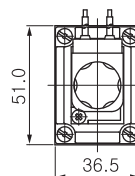
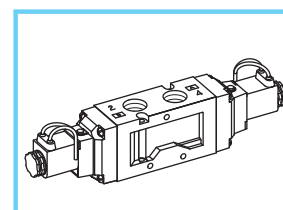
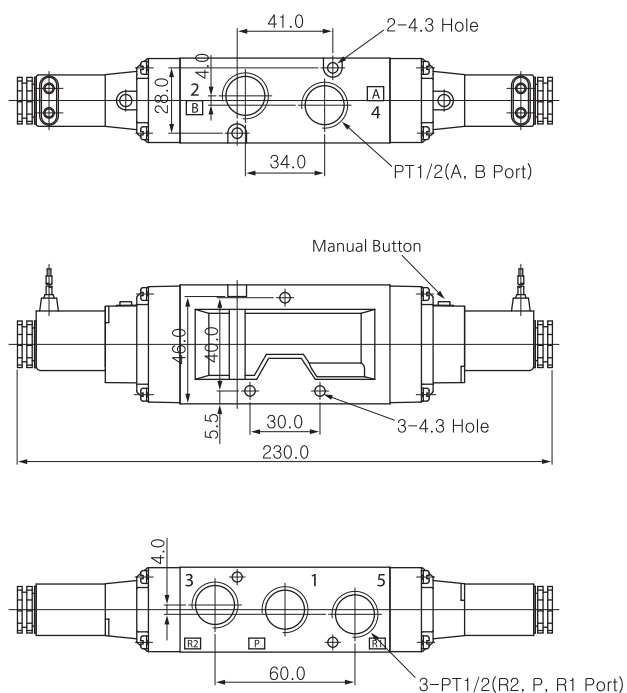
2position / 5port single(Connector type)

SV6130-□□□V-C□-...



2position / 5port double(Grommet type)

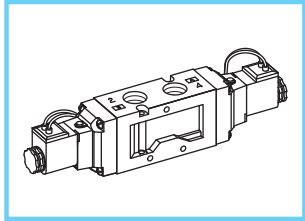
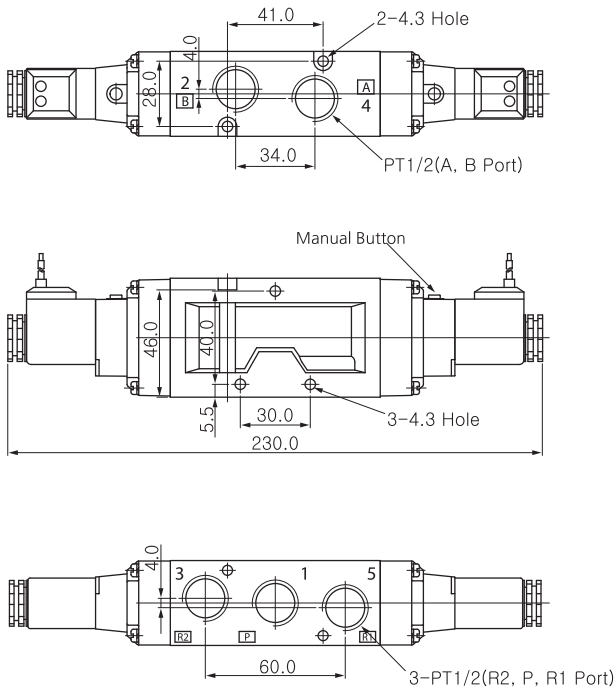
SV6230-□□□V-G-...



DIMENSIONS (mm)

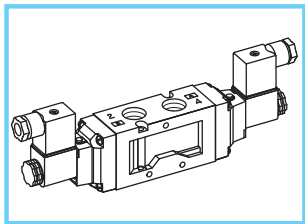
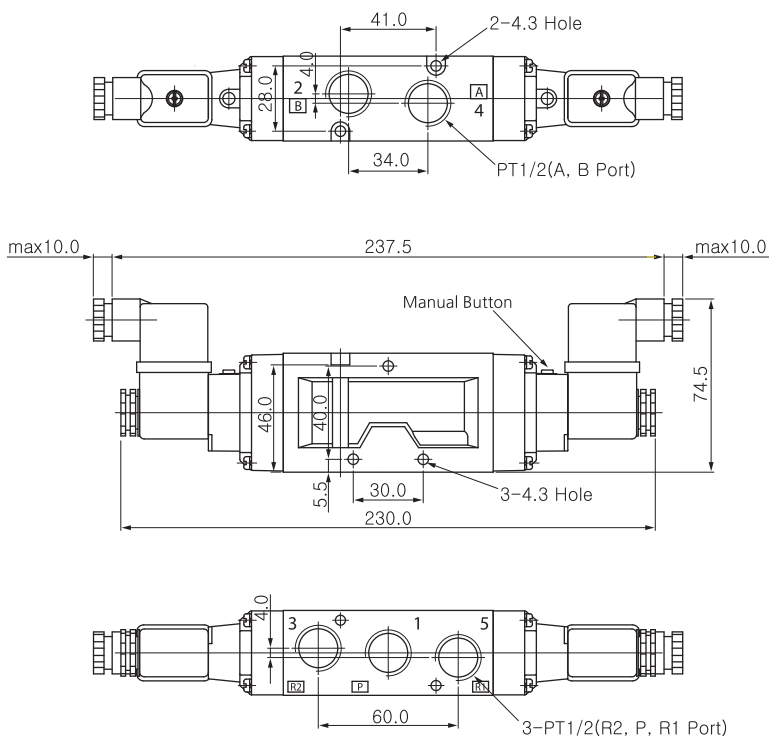
2position / 5port double(Lamp type)

SV6230-□□□V-GL-...



2position / 5port double(Connector type)

SV6230-□□□V-C□-...



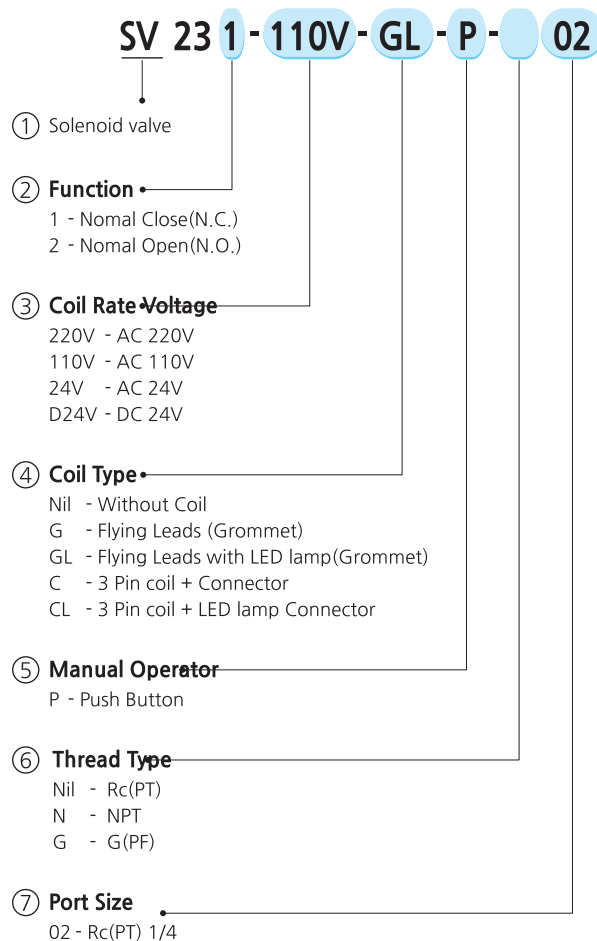
3port Pilot Operated Solenoid Valve (SV)

SV231~232 Series (Rc(PT) 1/4)

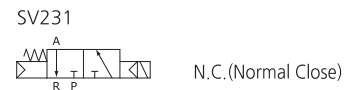
- 26.5mm Body width
- Transition Flow 1000 l/min (5bar)



How to order



Symbol

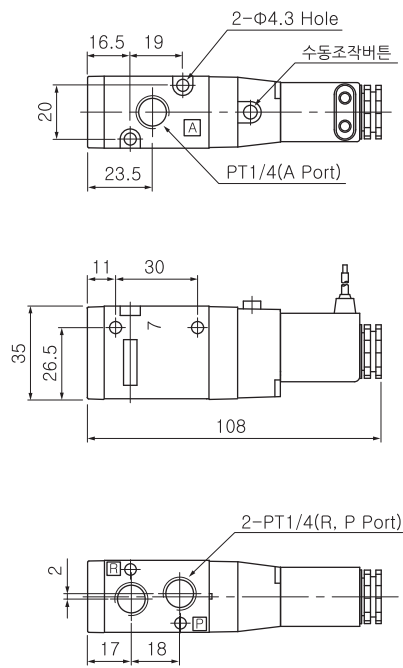


Specification

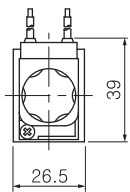
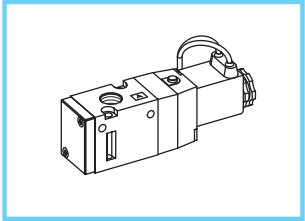
Fluid	Compressed air
Ambient and Media temp.	5~60℃
Max. operating pressure	1.5~10bar
Eff. Sectional Area(5bar)	19mm ²
Response time(5bar)	25ms or less
Max. operating frequency	5c/sec
Lubrication	Not required
Manual override	Push button
Coil insulation	F-Class or Equivalent
Allowable voltage	±10% rated voltage
Power consumption	AC:4.9VA(60Hz) / DC:2.5W

DIMENSIONS (mm)

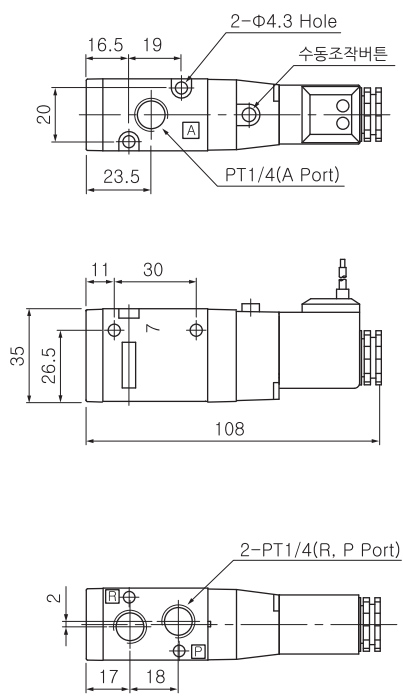
2position / 3port (Grommet type)



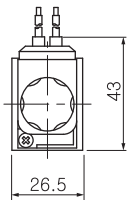
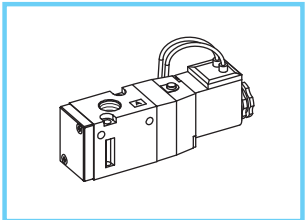
SV23□-□□□V-G-...



2position / 3port (Lamp type)



SV23□-□□□V-GL-...

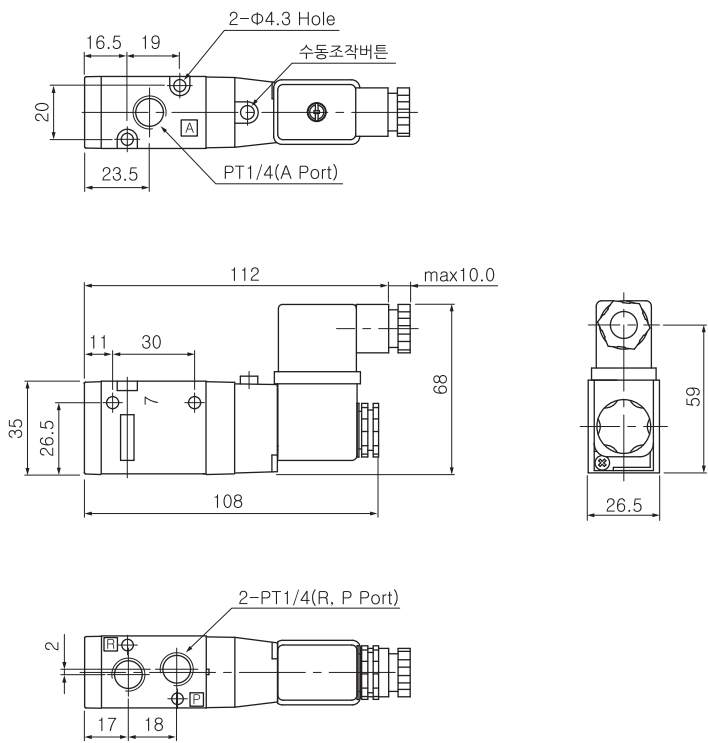
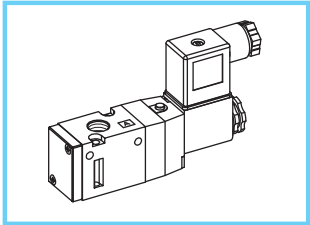


Series SV231~232

DIMENSIONS (mm)

2position / 3port (Connector type)

SV23□-□□□V-C□-...



Solenoid Coil Series



How to order

SL3 - A2

① Coil type

- SG1 - 15mm - Grommet / Flying Leads
- SC1 - 15mm - 3 Pin Connector Coil
- SG3 - 22mm - Grommet / Flying Leads
- SL3 - 22mm - Grommet / Flying Leads with LED
- SC3 - 22mm - 3 Pin Connector Coil

② Voltage

- A1 - AC 110V
- A2 - AC 220V
- A4 - AC 24V
- D4 - DC 24V

Specification

Model			SG1, SC1	SG3, SL3, SC3
Voltage Tolerances			±10% of Rated Voltage	
Coil Insulation Class			F-Class or Equivalent	
Ambient and Media temp.			5~60℃	
Holding Power	AC	60Hz	3.6VA	4.9VA
		50Hz	4.6VA	6.0VA
	DC		2.5W	2.5W

Material

- Molding : Glass Pressure Nylon
- Lead Wire : AWG-no.22, no.24
- Lead Wire Packing : Viton
- Yoke : Carbon Iron
- Indicator Cap : Polycarbonate

Coil Connector Series

- with 15mm Coil width
- with 22mm Coil width



How to order

CN1 - A2

① **Connector type**

CN1 - 15mm - 3Pin Normal Connector
CL1 - 15mm - 3Pin Connector with LED
CN3 - 22mm - 3Pin Normal Connector
CL3 - 22mm - 3Pin Connector with LED

② **Voltage**

A1 - AC 110V
A2 - AC 220V
A4 - AC 24V
D4 - DC 24V

Specification

Voltage Tolerances	±10% of Rated Voltage
Ambient and Media temp.	5~60℃
Max.Current	2.5A
Protection Class	IP65(With Coil)

Material

- Indicator : Glass Pressure Nylon, Polycarbonate
- Sealing Packing : NBR
- Jointing Bolt : Carbon Iron

Mechanical Valve (SMV)

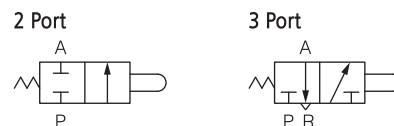
SMV100 Series (Rc(PT) 1/8)



How to order

- SMV 1 2 0 - 01 - 00**
- ① Mechanical Valve
 - ② **Number of Port**
 - 2 - 2 Port
 - 3 - 3 Port(include "exhaust hole")
 - ③ **Rod size**
 - 0 - Standard
 - 1 - For Roller Lever
 - ④ **Thread type**
 - Nil - Rc(PT)
 - N - NPT
 - G - G(PF)
 - ⑤ **Port size**
 - 01 - 1/8
 - ⑥ **Type of Actuator**
 - 00 - Standard
 - 01 - Roller lever
 - 02 - One way roller lever
 - 30 - Push button(Mushroom type)
 - 32 - Push button(Flat type)
 - 34 - Selector(2position)

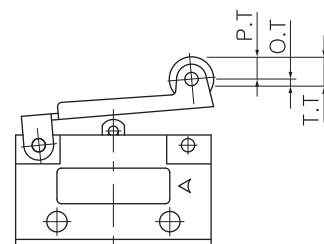
Symbol



Specification

Fluid	Compressed Air
Max. operating pressure	0~10bar (0~1MPa)
Ambient and Media temp.	-5 ~ 60°C (No freezing)
Effective orifice(Cv)	2.5mm ² (0.14)
Lubrication	Not required
Port size	1/8

Operating point of Mechanical valve

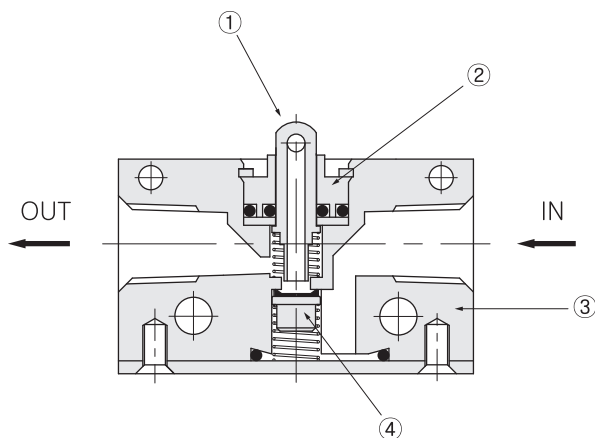


P.T.	From the free position to the operating position of actuator
O.T.	From the operating position to the operating limit of actuator
T.T.	From the free position to the operating limit of actuator

Series SMV100

STRUCTURE / PARTS

SMV 100



No.	PARTS	MATERIAL
①	Rod	A2011
②	Rod guide	Brass
③	Body	ALDC
④	Check valve	NBR

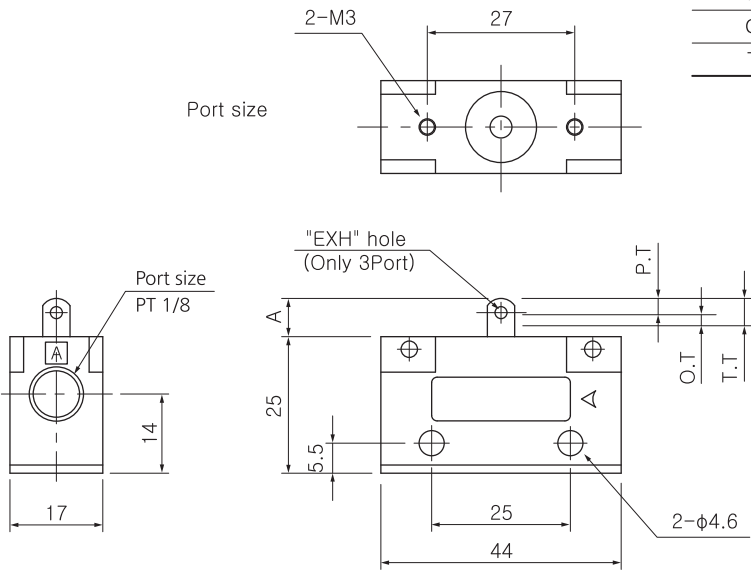
DIMENSIONS (mm)

SMV 120-01-00

121-01-00
130-01-00
131-01-00

Model	A
SMV120	7.5
SMV130	
SMV121	5.0
SMV131	

P.T.	1.1
O.T.	3
T.T.	4.1

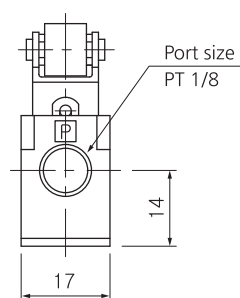
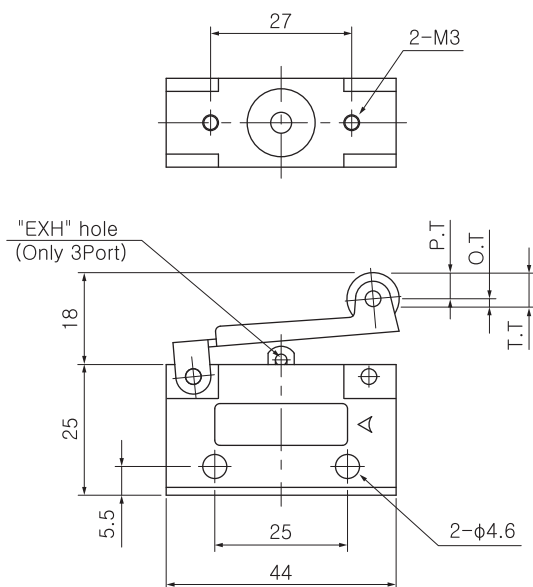


DIMENSIONS (mm)

SMV 121-01-01

131-01-01

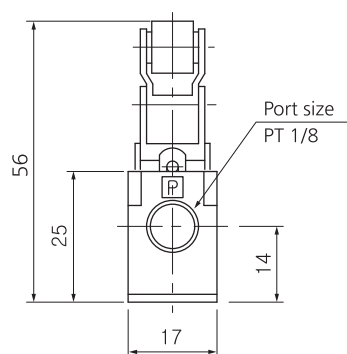
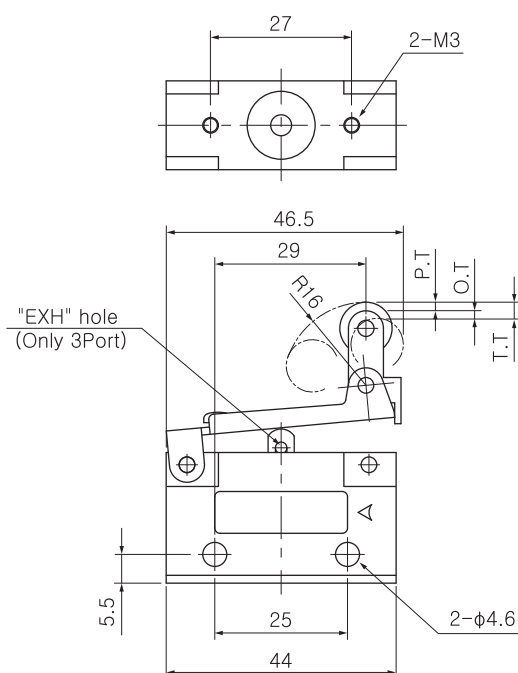
P.T.	2.1
O.T.	4
T.T.	6.1



SMV 121-01-02

131-01-02

P.T.	2.1
O.T.	4
T.T.	6.1

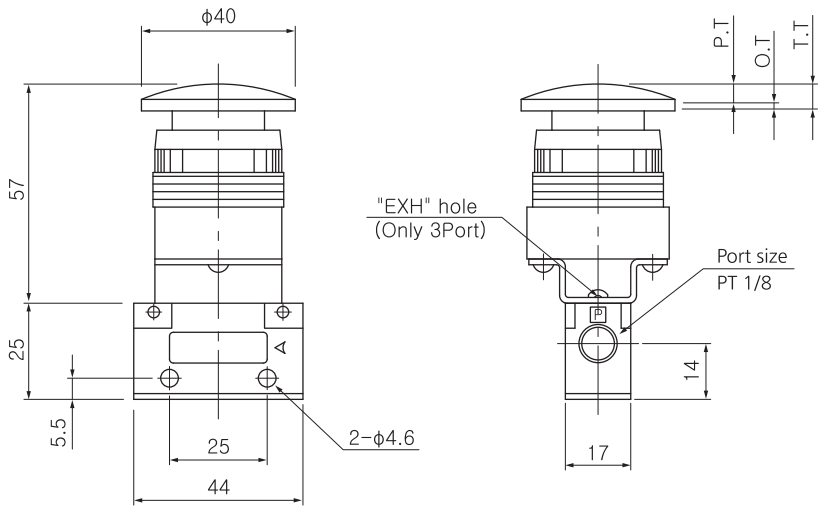


Series SMV100

DIMENSIONS (mm)

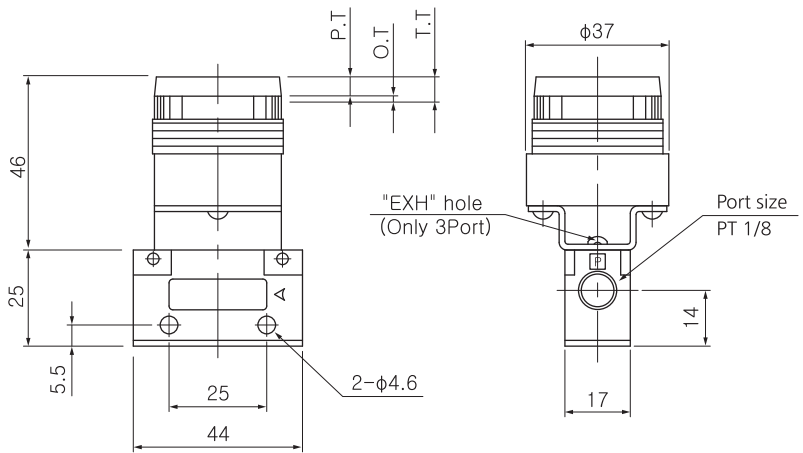
SMV 120-01-30
130-01-30

P.T.	5.4
O.T.	2.4
T.T.	7.8



SMV 120-01-32
130-01-32

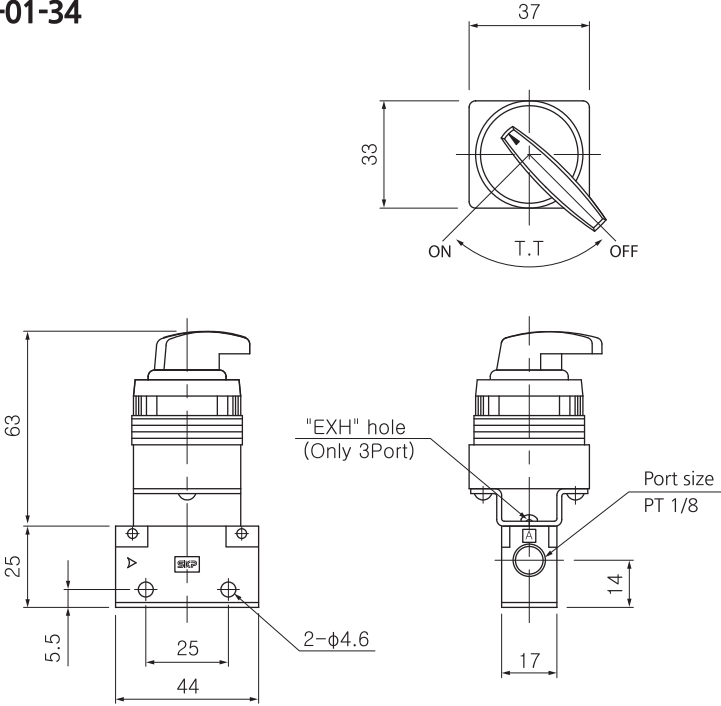
P.T.	5.4
O.T.	2.4
T.T.	7.8



DIMENSIONS (mm)

SMV 120-01-34
130-01-34

T.T.	90°
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Mechanical Valve (SMV)

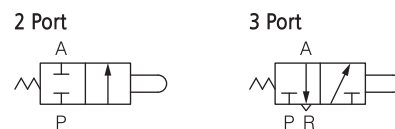
SMV200 Series (Rc(PT) 1/4)



How to order

- SMV 2 20 - 02 - 00**
- ① Mechanical Valve
 - ② Number of Port
 - 20 - 2 Port
 - 30 - 3 Port(include "exhaust hole")
 - ③ Thread type
 - Nil - Rc(PT)
 - N - NPT
 - G - G(PF)
 - ④ Port size
 - 02 - 1/4
 - ⑤ Type of Actuator
 - 00 - Standard
 - 01S - Roller lever(Bearing type)
 - 02S - One way roller lever(Bearing type)
 - 30 - Push button(Mushroom type)
 - 31 - Push button(ENG type)
 - 32 - Push button(Flat type)
 - 34 - Selector(2position)

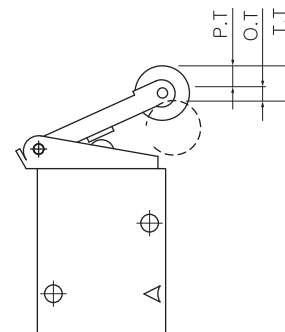
Symbol



Specification

Fluid	Compressed Air
Max. operating pressure	0~10bar (0~1MPa)
Ambient and Media temp.	-5~60℃ (No freezing)
Effective orifice(Cv)	19mm ² (1.0)
Lubrication	Not required
Port size	1/4

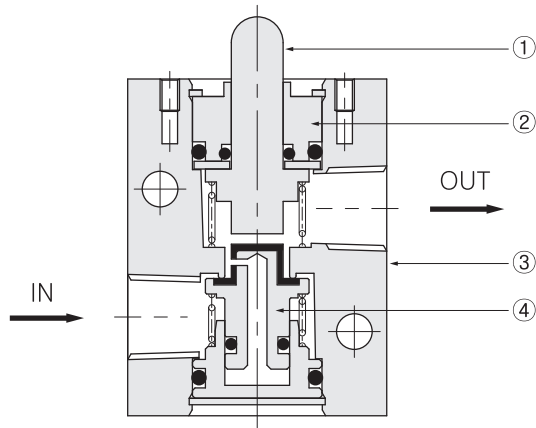
Operating point of Mechanical valve



P.T.	From the free position to the operating position of actuator
O.T.	From the operating position to the operating limit of actuator
T.T.	From the free position to the operating limit of actuator

STRUCTURE / PARTS

SMV 200

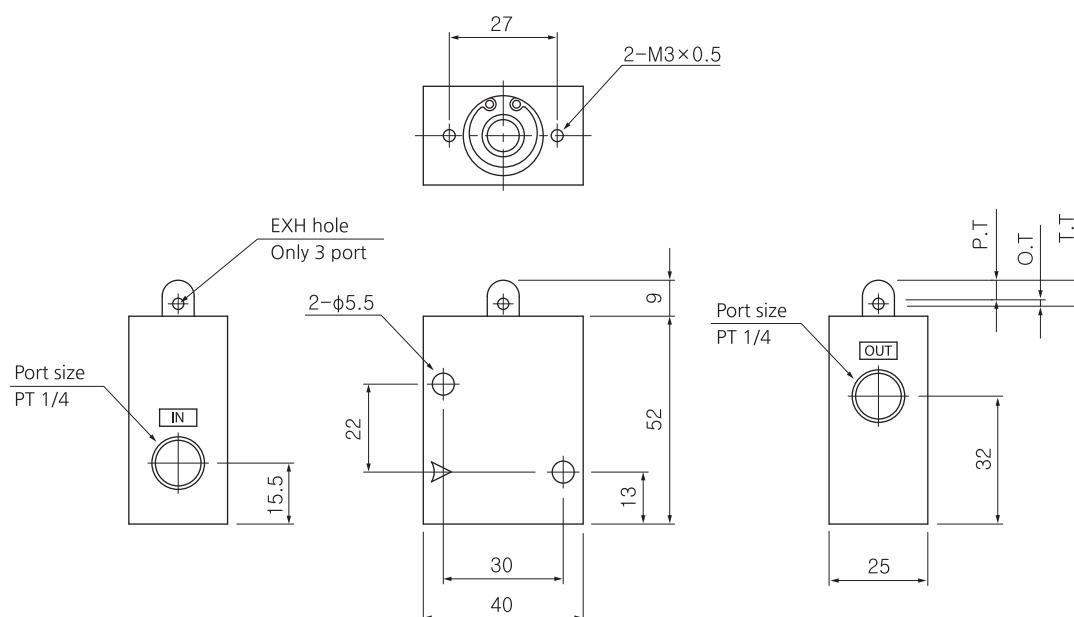


No.	PARTS	MATERIAL
①	Rod	A2011
②	Rod guide	Brass
③	Body	ALDC
④	Check valve	NBR

DIMENSIONS (mm)

SMV 220-02-00 230-02-00

P.T.	2.7
O.T.	3
T.T.	5.7

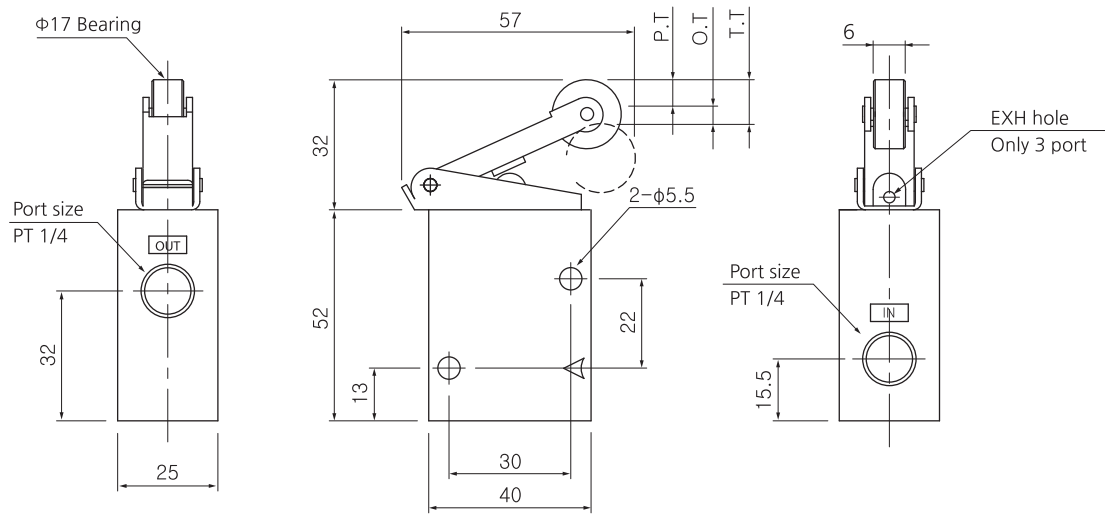


Series SMV200

DIMENSIONS (mm)

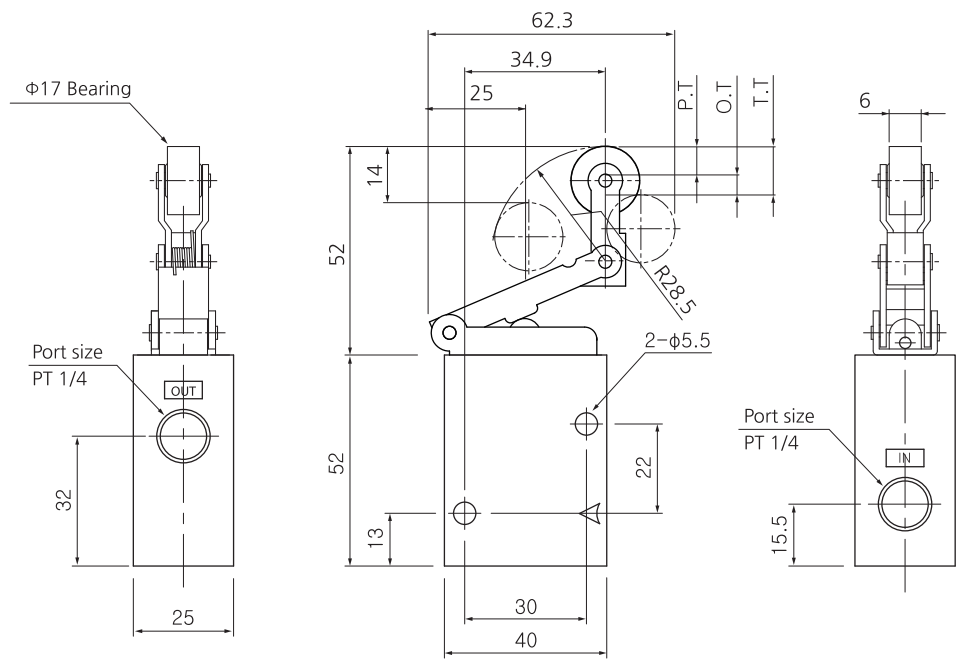
SMV 220-02-01S
230-02-01S

P.T.	5.8
O.T.	6.6
T.T.	12.4



SMV 220-02-02S
230-02-02S

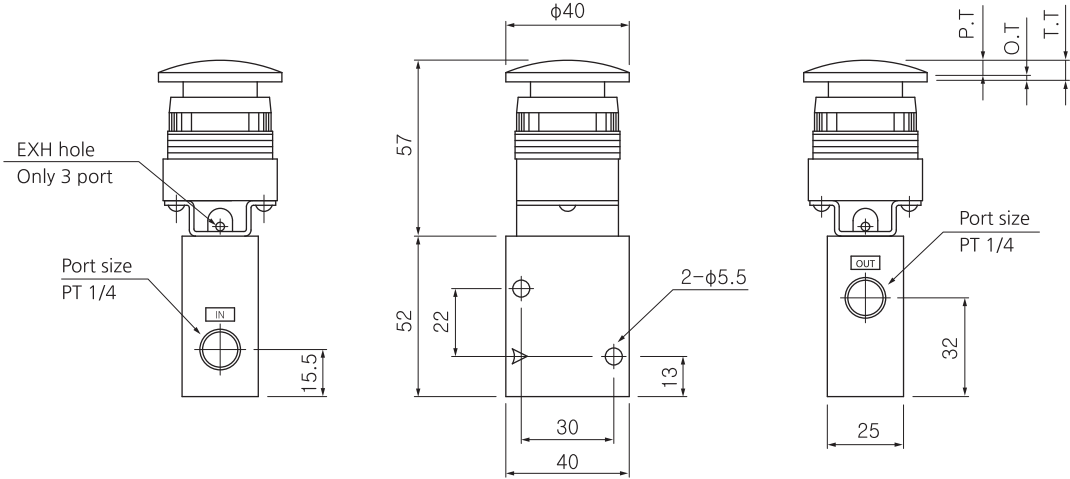
P.T.	5.8
O.T.	6.6
T.T.	12.4



DIMENSIONS (mm)

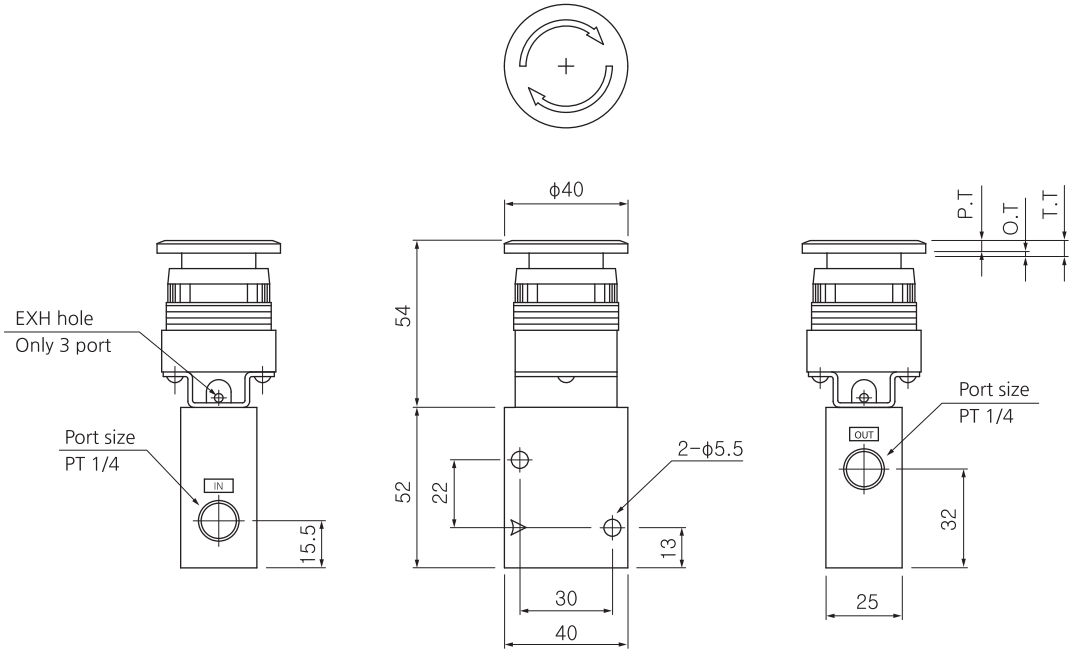
SMV 220-02-30
230-02-30

P.T.	4.7
O.T.	2.8
T.T.	7.5



SMV 220-02-31
230-02-31

T.T.	4.3
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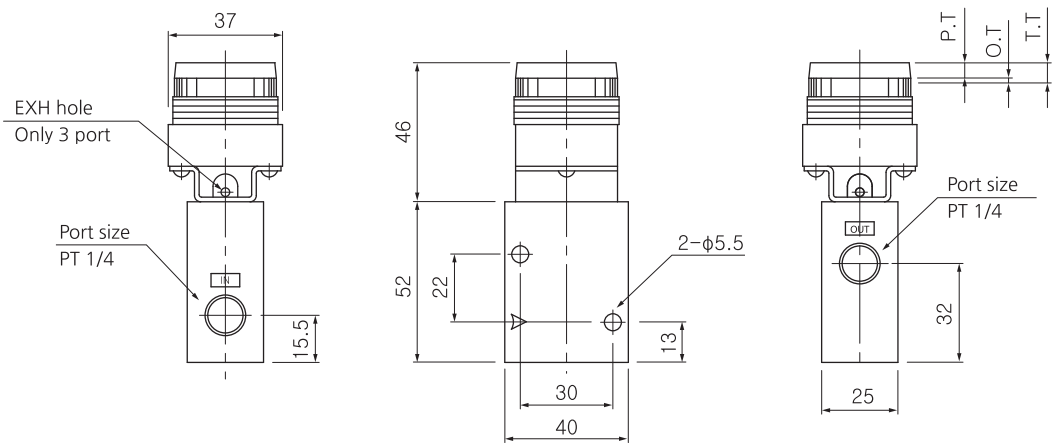


Series SMV200

DIMENSIONS (mm)

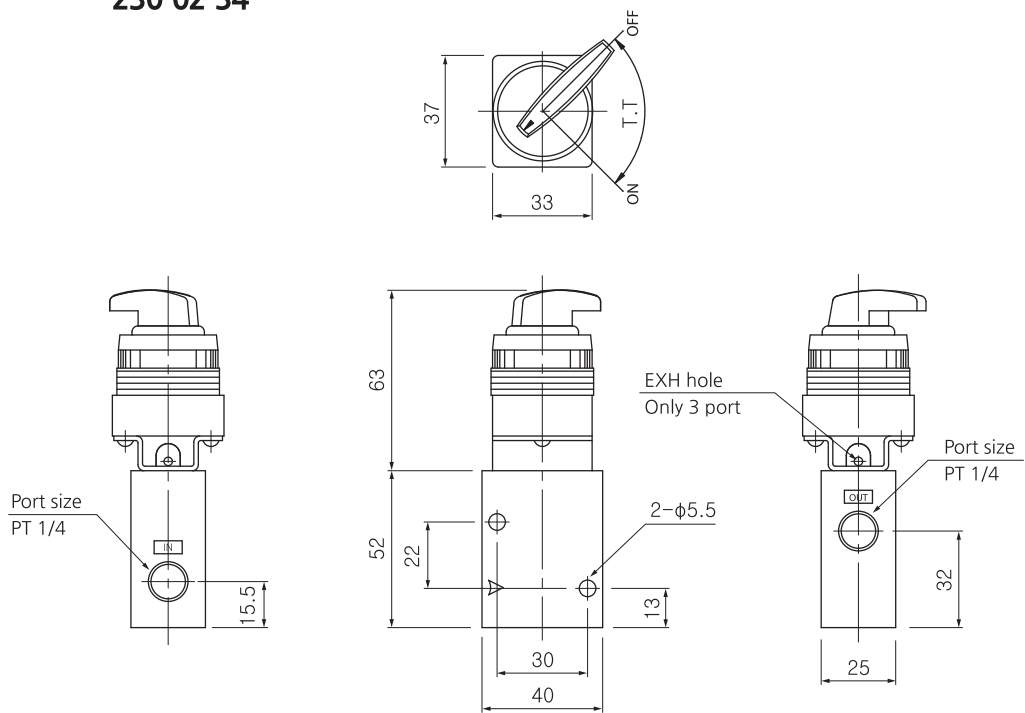
SMV 220-02-32
230-02-32

P.T.	4.7
O.T.	2.8
T.T.	7.5



SMV 220-02-34
230-02-34

T.T.	90°
------	-----



Spool type Mechanical Valve (SMVS)

SMVS230 Series (Rc(PT) 1/4)



How to order

- SMVS 2 3 0 - 02 - 00**
- ① Spool type Mechanical Valve
 - ② Number of Port
3 - 3 Port
 - ③ Thread type
Nil - Rc(PT)
N - NPT
G - G(PF)
 - ④ Port size
01 - 1/4
 - ⑤ Type of Actuator
 - 00 - Standard
 - 01S - Roller lever(Bearing type)
 - 02S - One way roller lever(Bearing type)
 - 30 - Push button(Mushroom type)
 - 31 - Push button(ENG type)
 - 32 - Push button(Flat type)
 - 34 - Selector(2position)

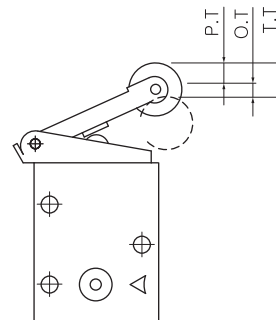
Symbol



Specification

Fluid	Compressed Air
Max. operating pressure	0~10bar (0~1MPa)
Ambient and Media temp.	-5 ~ 60°C (No freezing)
Lubrication	Not required
Port size	1/4

Operating point of Mechanical valve

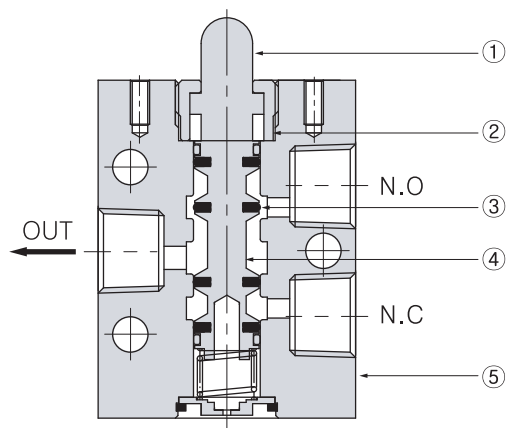


P.T.	From the free position to the operating position of actuator
O.T.	From the operating position to the operating limit of actuator
T.T.	From the free position to the operating limit of actuator

Series SMVS200

STRUCTURE / PARTS

SMVS 230

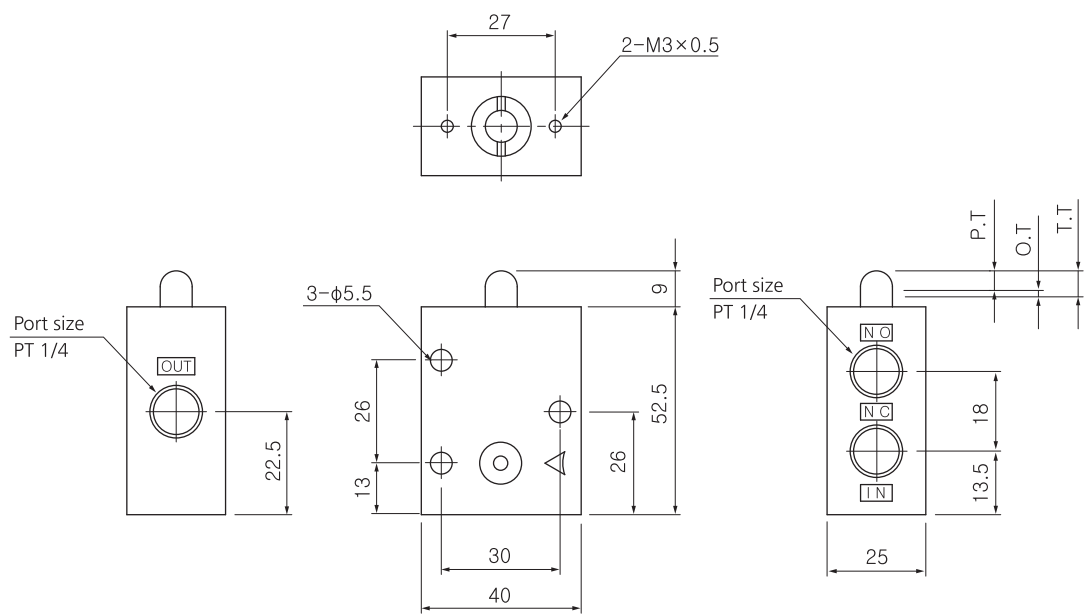


No.	PARTS	MATERIAL
①	Rod	SUS
②	Rod guide	Brass
③	I-ring	NBR
④	Spool	Al
⑤	Body	ALDC

DIMENSIONS (mm)

SMVS 230-02-00

P.T.	1.8
O.T.	2.2
T.T.	4

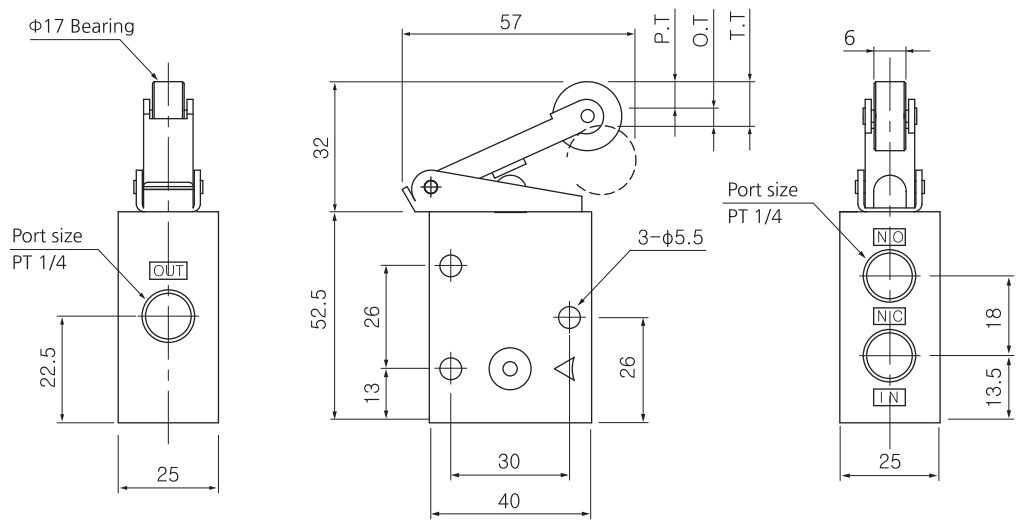


Spool type Mechanical Valve

DIMENSIONS (mm)

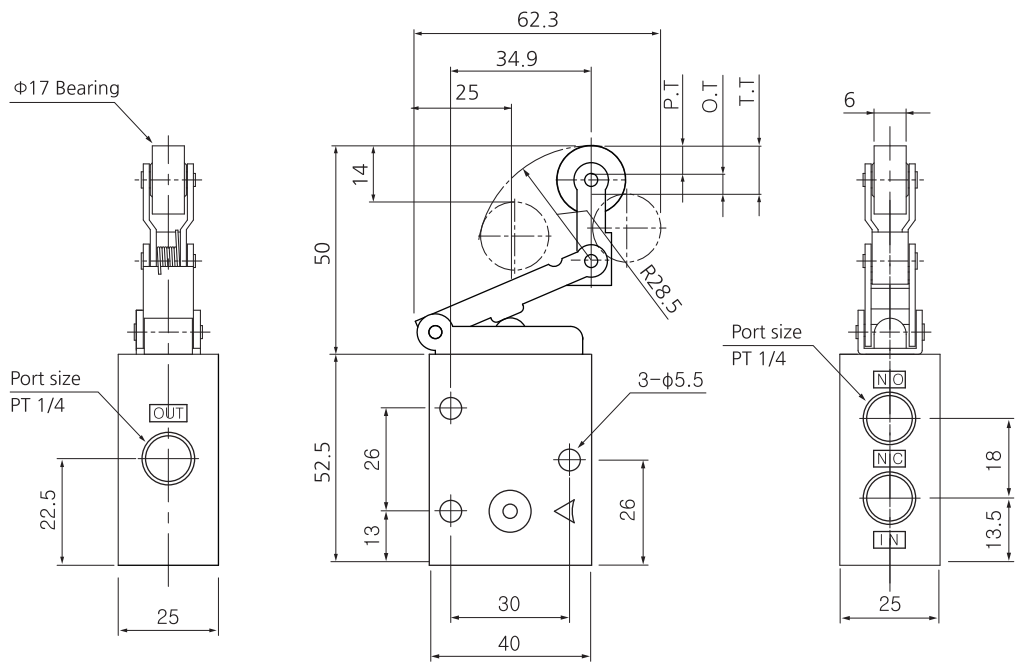
SMVS 230-02-01S

P.T.	4
O.T.	5
T.T.	9



SMVS 230-02-02S

P.T.	4
O.T.	5
T.T.	9

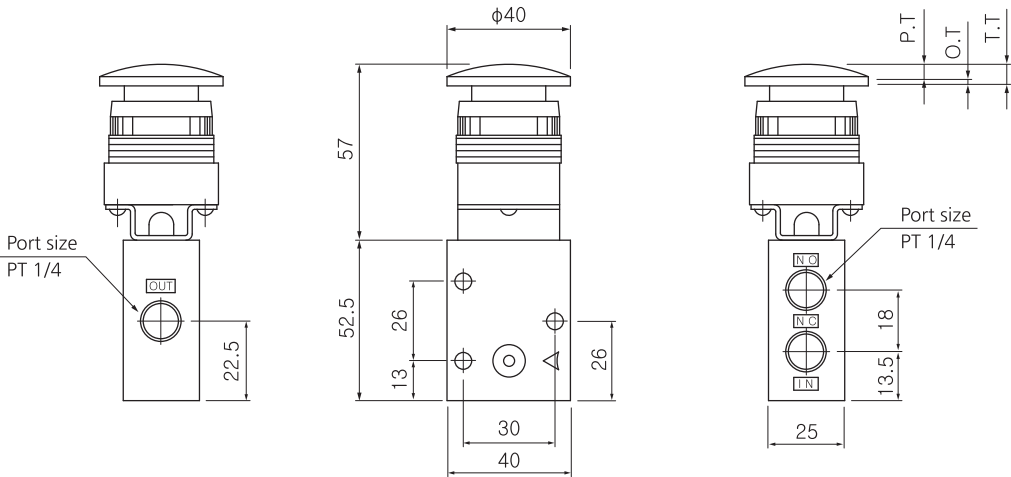


Series SMVS200

DIMENSIONS (mm)

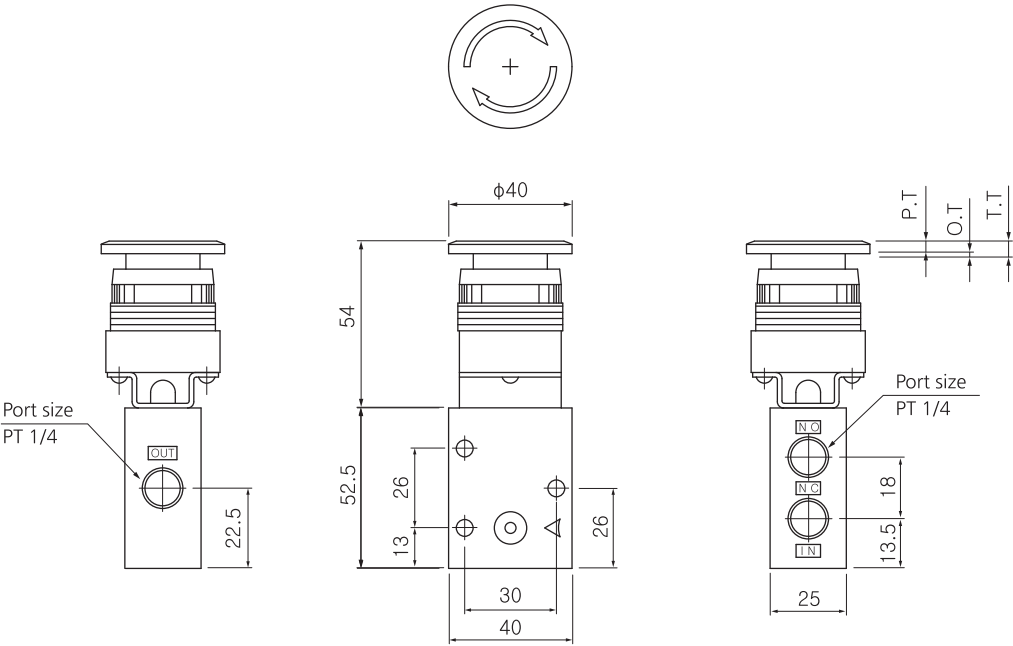
SMVS 230-02-30

P.T.	4.9
O.T.	1.6
T.T.	6.5



SMVS 230-02-31

T.T.	4.3
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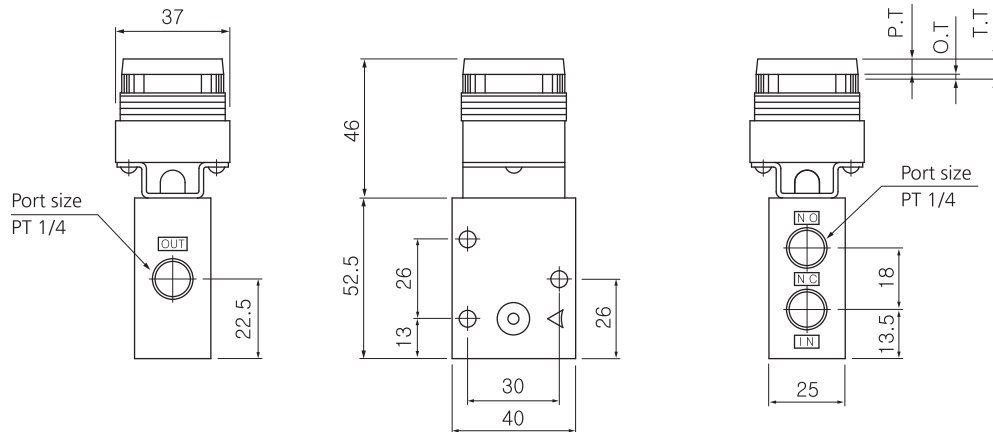


Spool type Mechanical Valve

DIMENSIONS (mm)

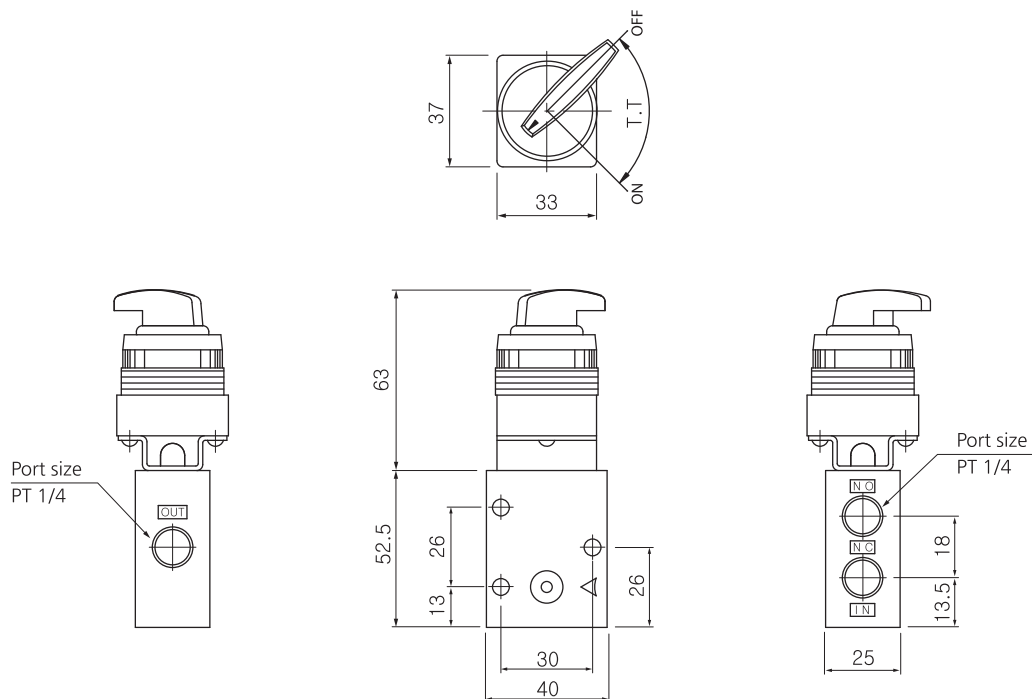
SMVS 230-02-32

P.T.	4.9
O.T.	1.6
T.T.	6.5



SMVS 230-02-34

T.T.	90°
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3port Pilot type Mechanical Valve (SMVF)

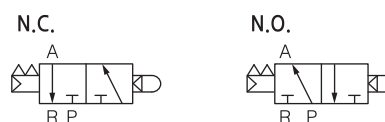
SMVF231~232 Series (Rc(PT) 1/4)



How to order

- SMVF 2 3 1 - 02 - 00**
- ① **Pilot type Mechanical Valve**
 - ② **Number of Port**
3 - 3 Port
 - ③ **Function**
1 - Nomal Close(N.C.)
2 - Nomal Open(N.O.)
 - ④ **Thread type**
Nil - Rc(PT)
N - NPT
G - G(PF)
 - ⑤ **Port size**
02 - 1/4
 - ⑥ **Type of Actuator**
00 - Standard
01 - Roller lever
01S - Roller lever(Bearing type)
02 - One way roller lever
02S - One way roller lever(Bearing type)
30 - Push button(Mushroom type)
32 - Push button(Flat type)
34 - Selector(2position)

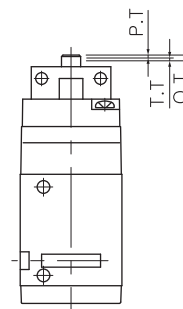
Symbol



Specification

Fluid	Compressed Air
Max. operating pressure	1.5~10bar (0.15~1MPa)
Ambient and Media temp.	-5~60°C (No freezing)
Effective orifice(Cv)	19mm ² (1.0)
Lubrication	Not required
Port size	1/4

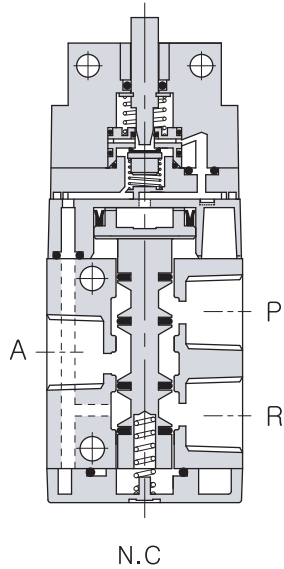
Operating point of Mechanical valve



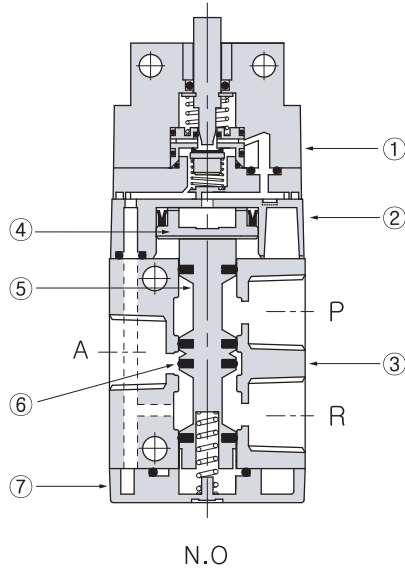
P.T.	From the free position to the operating position of actuator
O.T.	From the operating position to the operating limit of actuator
T.T.	From the free position to the operating limit of actuator

STRUCTURE / PARTS

SMVF 231



SMVF 232



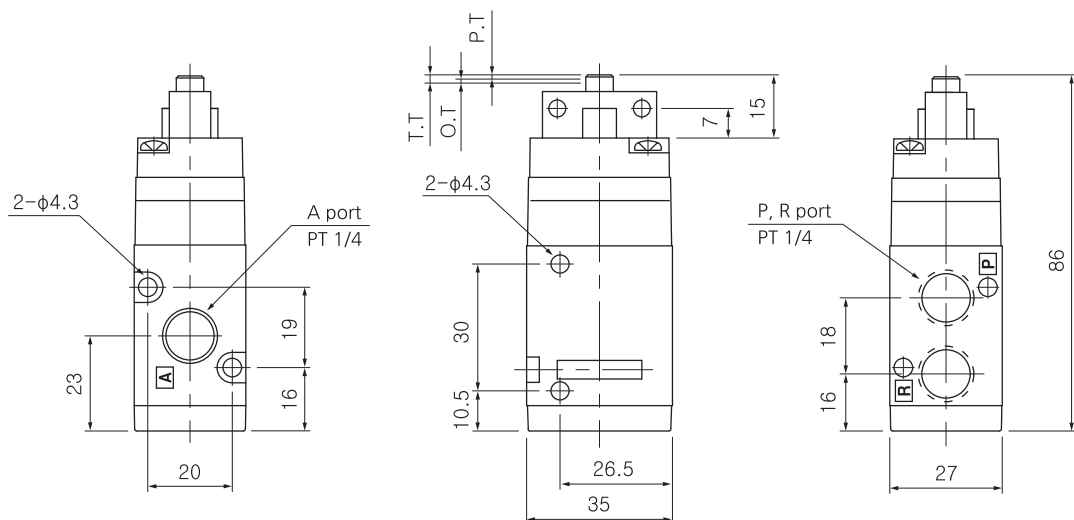
No.	PARTS	MATERIAL
①	Pilot guide	ZnDC
②	Pilot cylinder	N66G
③	Body	ALDC
④	Piston	POM
⑤	Spool	A2011
⑥	I-ring	NBR
⑦	Cover	ALDC

DIMENSIONS (mm)

SMVF 231-02-00

232-02-00

P.T.	1
O.T.	2
T.T.	3

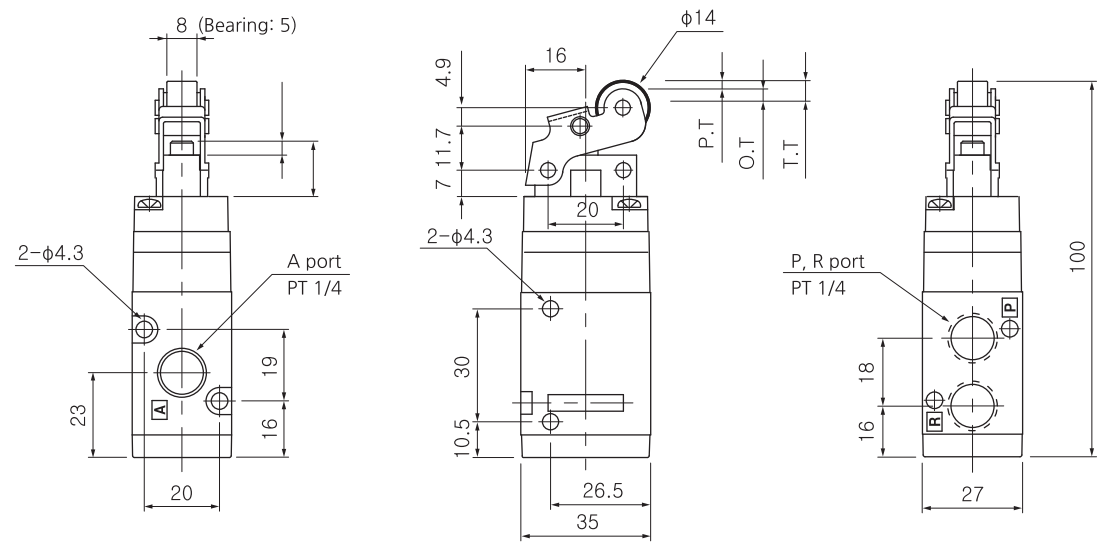


Series SMVF231~232

DIMENSIONS (mm)

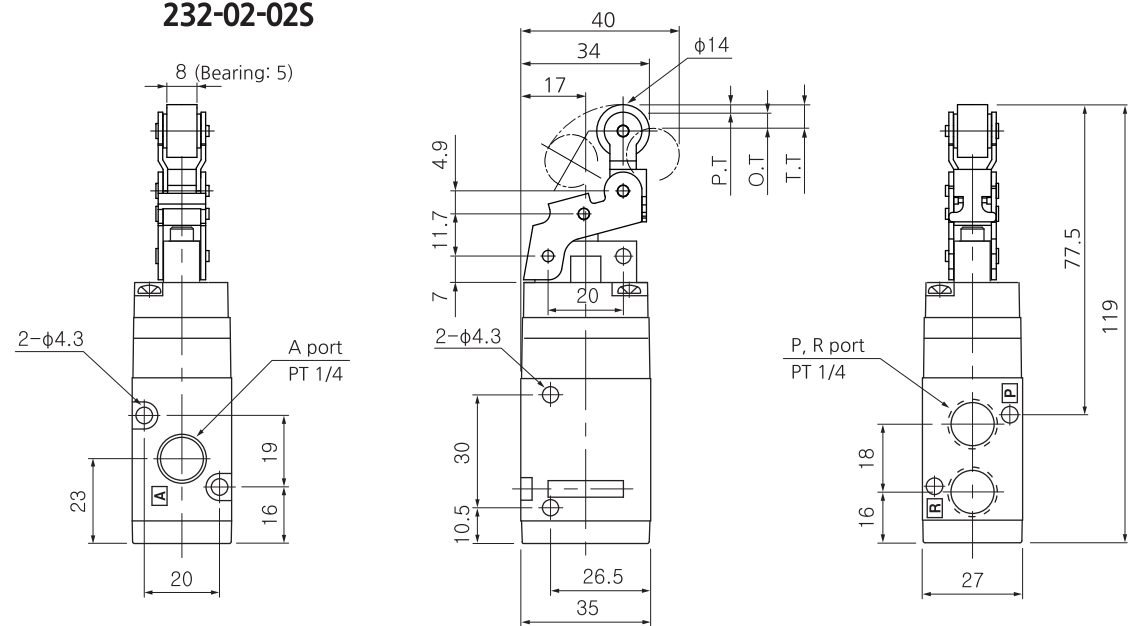
SMVF 231-02-01
232-02-01
231-02-01S
232-02-01S

P.T.	2.2
O.T.	4
T.T.	6.2



SMVF 231-02-02
232-02-02
231-02-02S
232-02-02S

P.T.	2.2
O.T.	4
T.T.	6.2



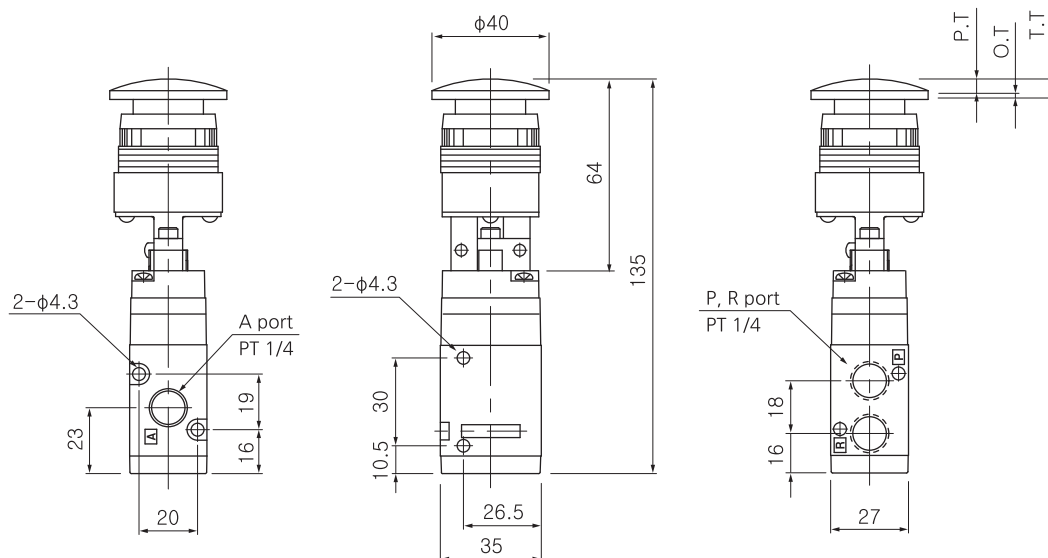
Pilot type Mechanical Valve

DIMENSIONS (mm)

SMVF 231-02-30

232-02-30

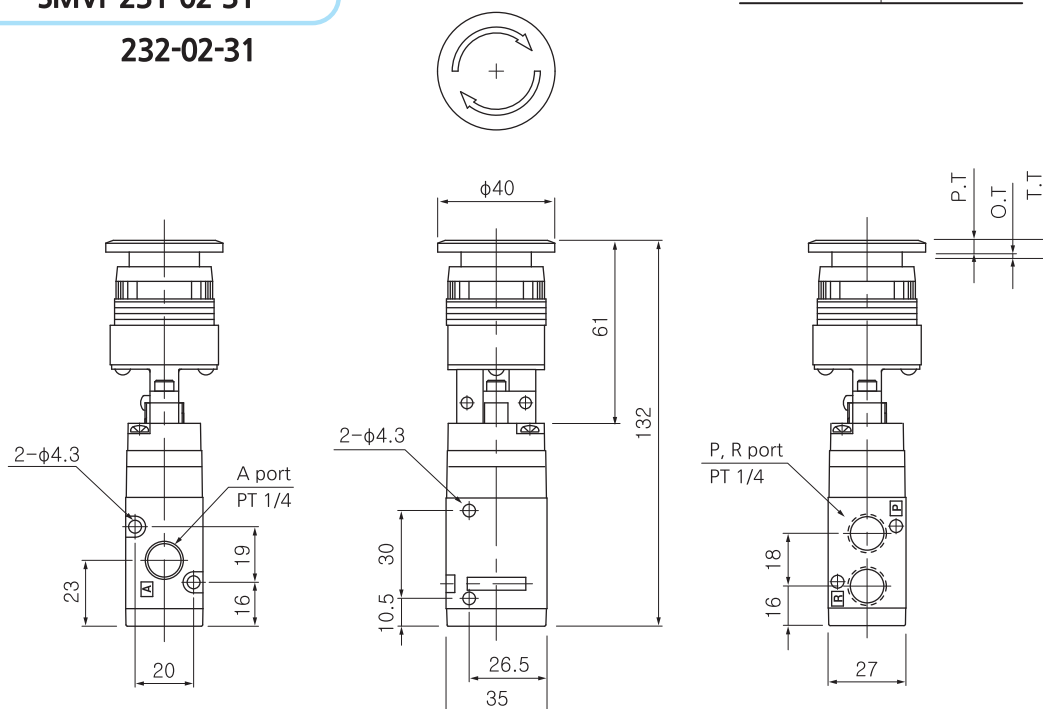
P.T.	5.5
O.T.	2
T.T.	7.5



SMVF 231-02-31

232-02-31

T.T.	8
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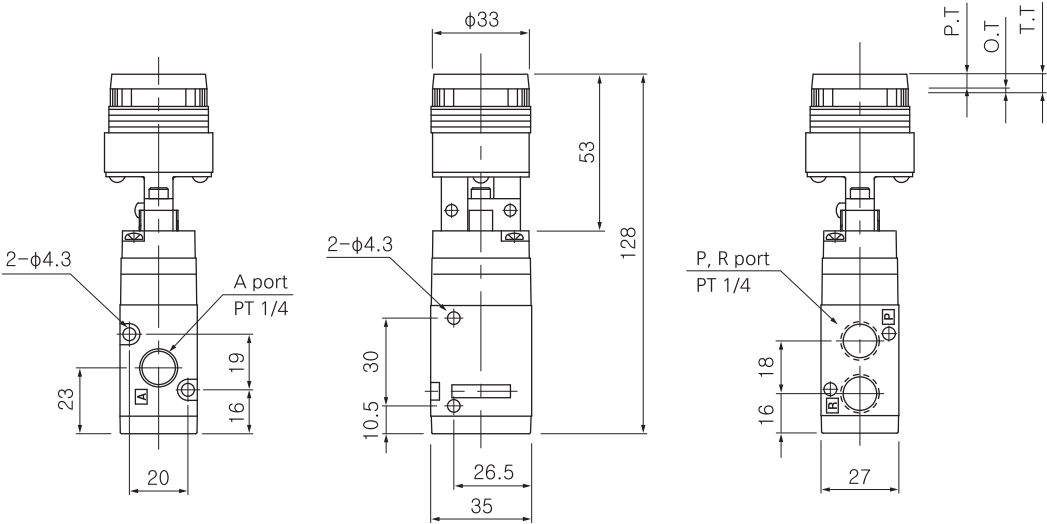


Series SMVF231~232

DIMENSIONS (mm)

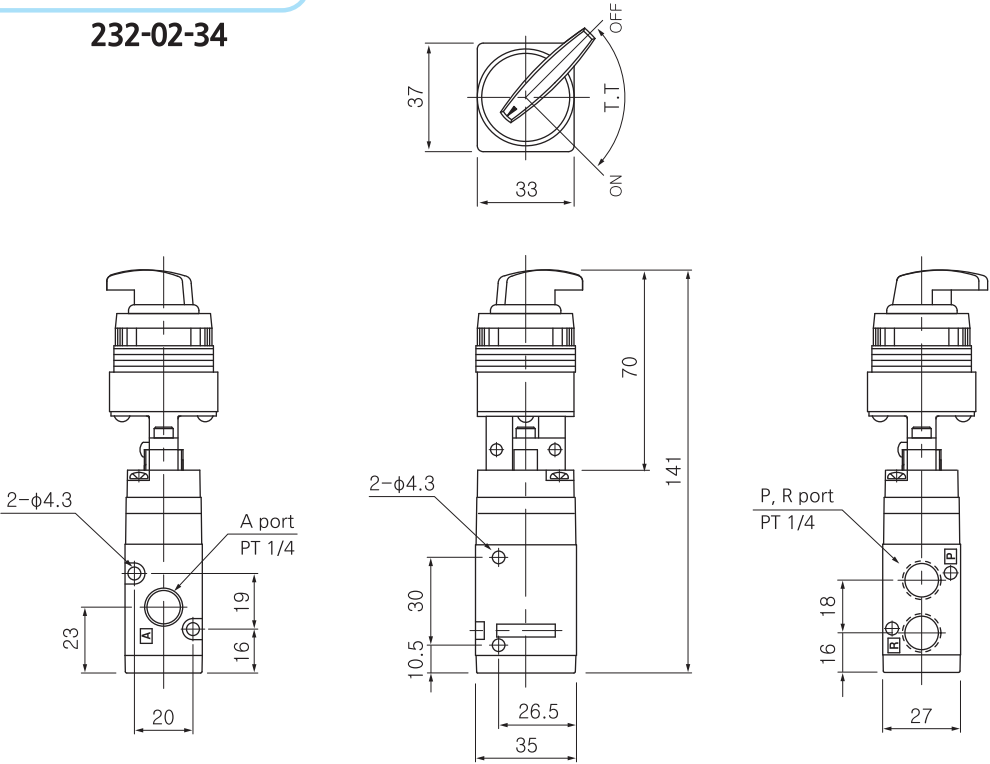
SMVF 231-02-32
232-02-32

P.T.	6
O.T.	2
T.T.	8



SMVF 231-02-34
232-02-34

T.T.	90°
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5port Pilot type Mechanical Valve (SMVF)

SMVF250 Series (Rc(PT) 1/4)



How to order

SMVF 2 5 0 - 02 - 00

① Pilot type
Mechanical Valve

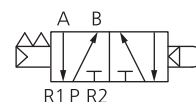
② Number of Port
5 - 5 Port

③ Thread type
Nil - Rc(PT)
N - NPT
G - G(PF)

④ Port size
02 - 1/4

⑤ Type of Actuator
00 - Standard
01 - Roller lever
01S - Roller lever(Bearing type)
02 - One way roller lever
02S - One way roller lever(Bearing type)
30 - Push button(Mushroom type)
32 - Push button(Flat type)
34 - Selector(2position)

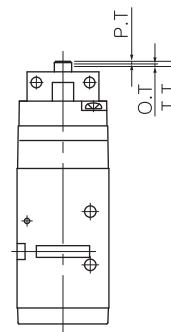
Symbol



Specification

Fluid	Compressed Air
Max. operating pressure	1.5~10bar (0.15~1MPa)
Ambient and Media temp.	-5~60°C (No freezing)
Effective orifice(Cv)	19mm ² (1.0)
Lubrication	Not required
Port size	1/4

Operating point of Mechanical valve

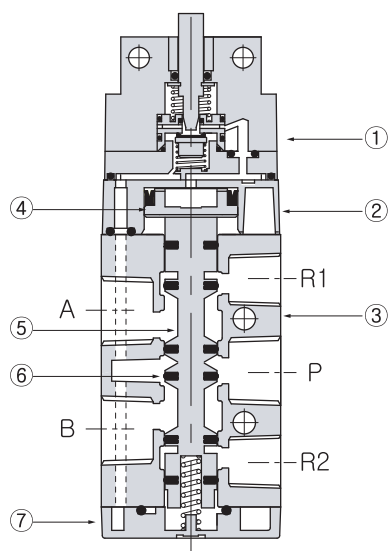


P.T.	From the free position to the operating position of actuator
O.T.	From the operating position to the operating limit of actuator
T.T.	From the free position to the operating limit of actuator

Series SMVF250

STRUCTURE / PARTS

SMVF 250

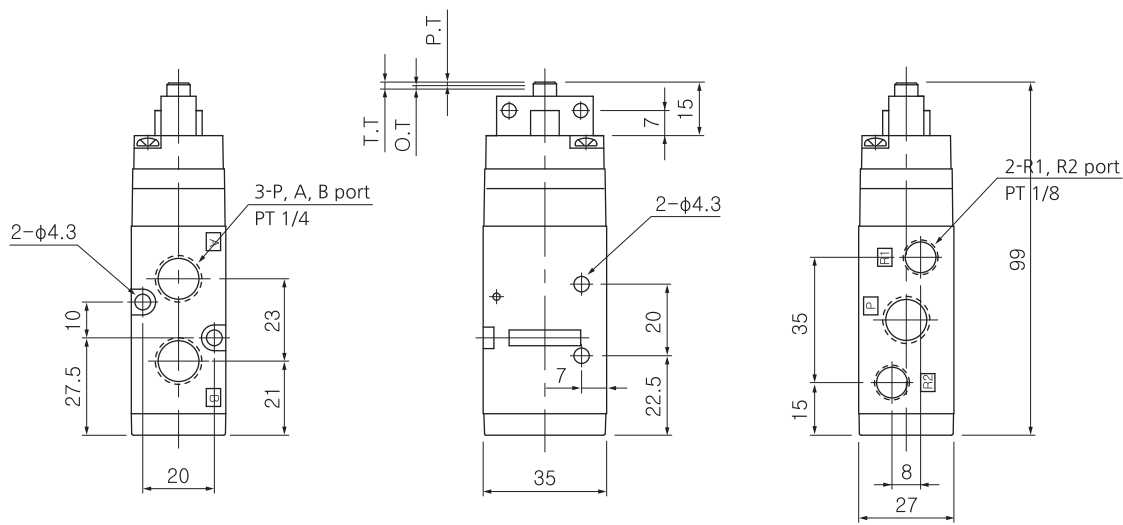


No.	PARTS	MATERIAL
①	Pilot guide	ZnDC
②	Pilot cylinder	N66G
③	Body	ALDC
④	Piston	POM
⑤	Spool	A2011
⑥	I-ring	NBR
⑦	Cover	ALDC

DIMENSIONS (mm)

SMVF 250-02-00

P.T.	1
O.T.	2
T.T.	3

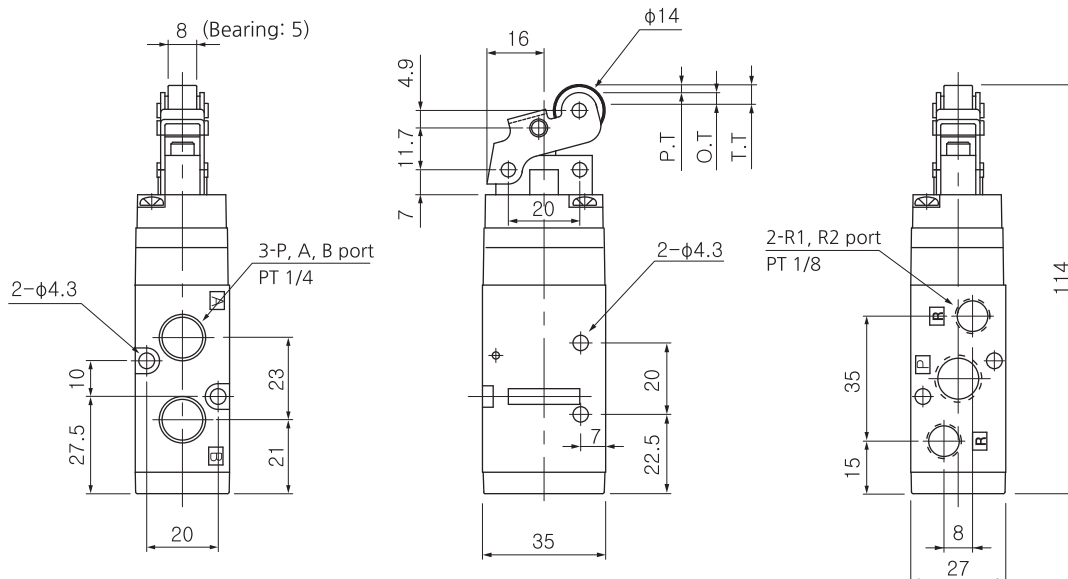


Pilot type Mechanical Valve

DIMENSIONS (mm)

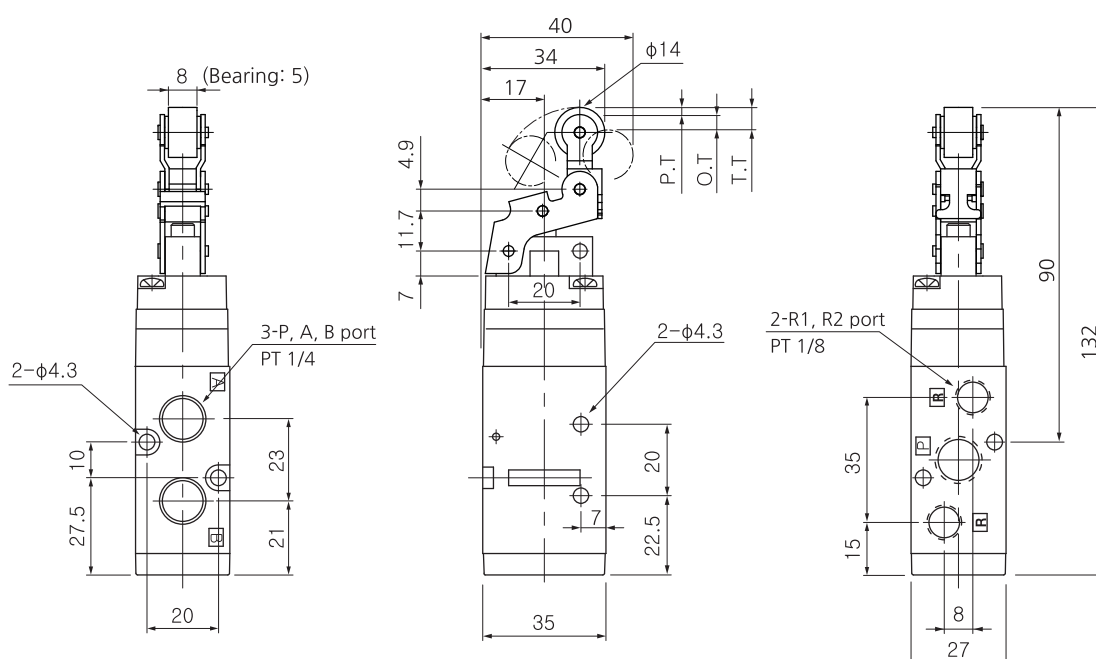
SMVF 250-02-01

250-02-01S



SMVF 250-02-02

250-02-02S

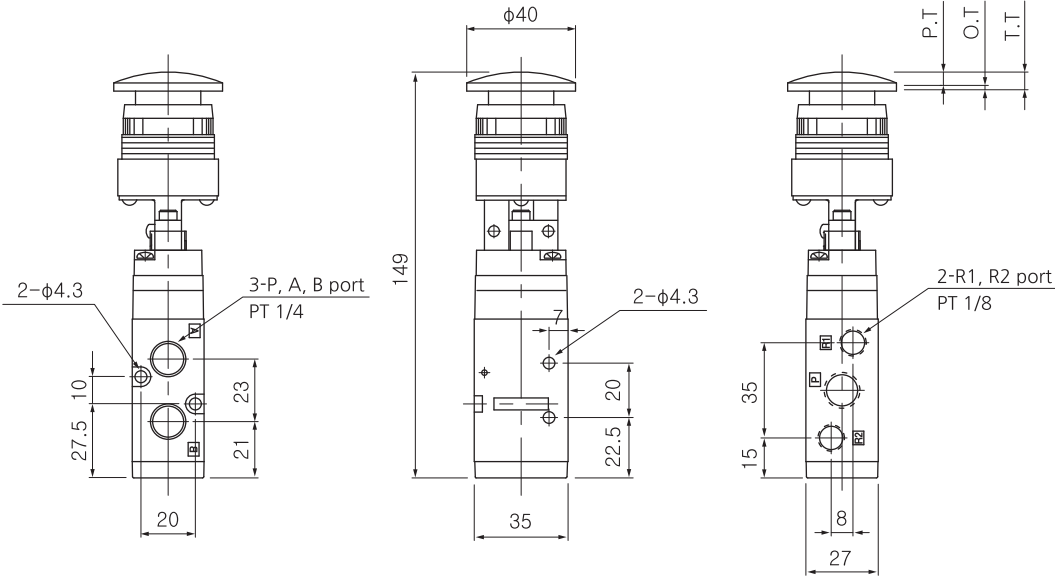


Series SMVF250

DIMENSIONS (mm)

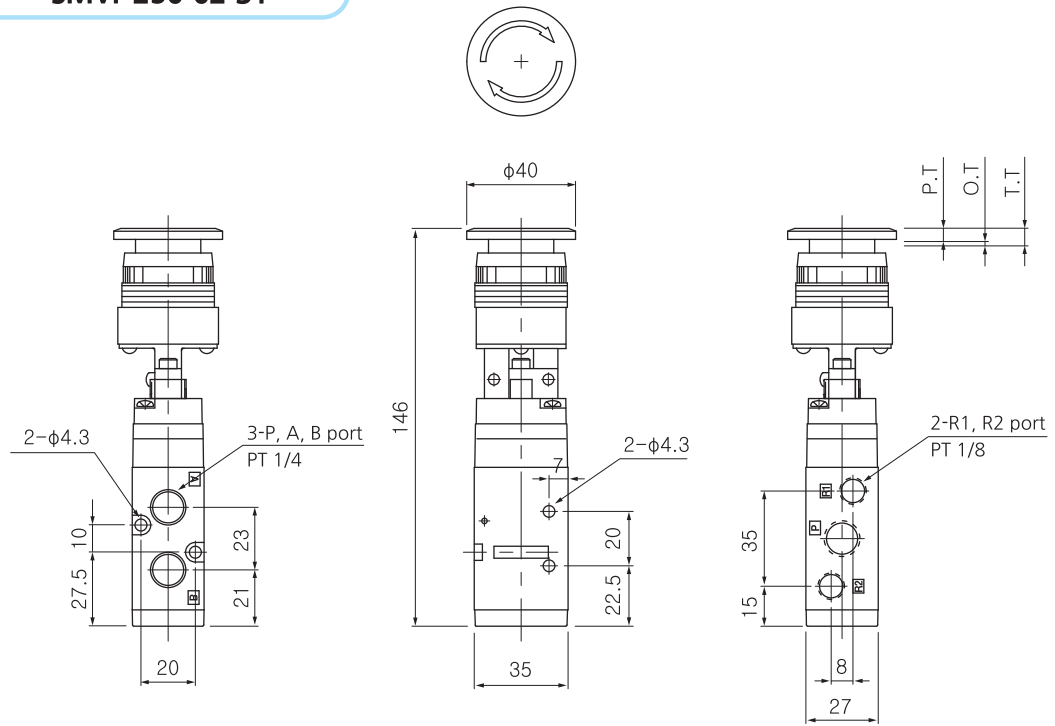
SMVF 250-02-30

P.T.	5.5
O.T.	2
T.T.	7.5



SMVF 250-02-31

T.T.	8
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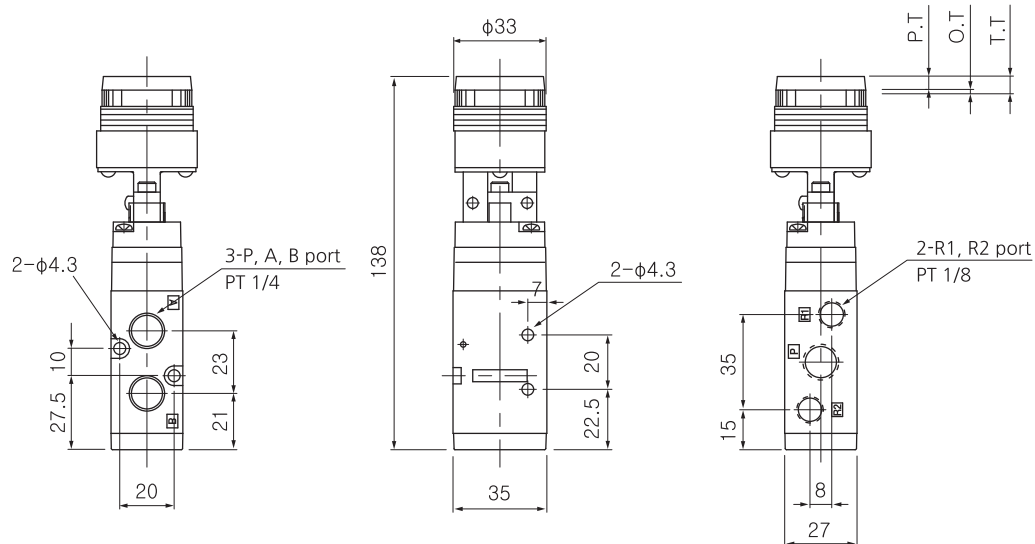


Pilot type Mechanical Valve

DIMENSIONS (mm)

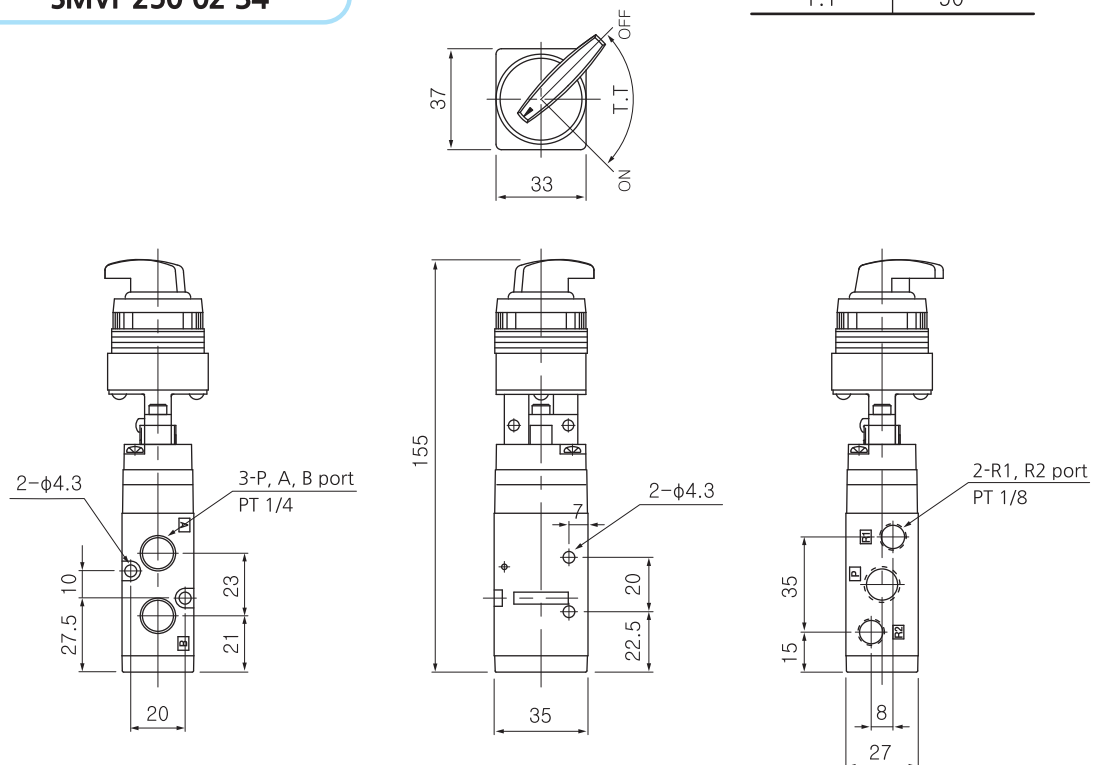
SMVF 250-02-32

P.T.	6
O.T.	2
T.T.	8



SMVF 250-02-34

T.T.	90°
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5port Pilot type Mechanical Valve (SMVF)

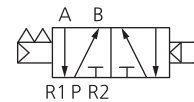
SMVF350 Series (Rc(PT) 3/8)



How to order

- SMVF 3 5 0 - 03 - 01**
- ① Pilot type Mechanical Valve
 - ② Number of Port
5 - 5 Port
 - ③ Thread type
Nil - Rc(PT)
N - NPT
G - G(PF)
 - ④ Port size
03 - 3/8
 - ⑤ Type of Actuator
 - 00 - Standard
 - 01 - Roller lever
 - 01S - Roller lever(Bearing type)
 - 02 - One way roller lever
 - 02S - One way roller lever(Bearing type)
 - 30 - Push button(Mushroom type)
 - 32 - Push button(Flat type)
 - 34 - Selector(2position)

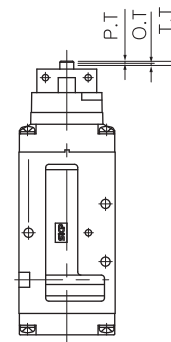
Symbol



Specification

Fluid	Compressed Air
Max. operating pressure	1.5~10bar (0.15~1MPa)
Ambient and Media temp.	-5~60℃ (No freezing)
Effective orifice(Cv)	45mm ² (2.4)
Lubrication	Not required
Port size	3/8

Operating point of Mechanical valve

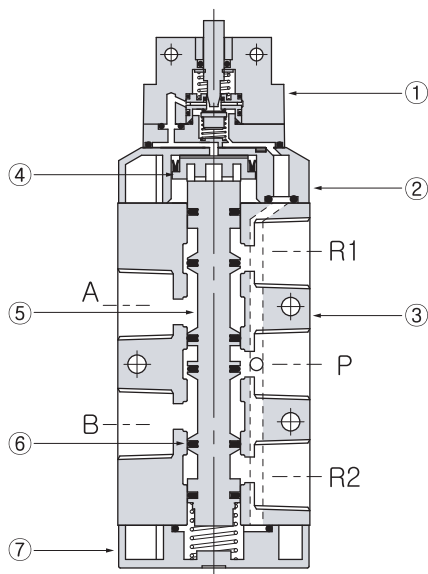


P.T.	From the free position to the operating position of actuator
O.T.	From the operating position to the operating limit of actuator
T.T.	From the free position to the operating limit of actuator

Pilot type Mechanical Valve

STRUCTURE / PARTS

SMVF 350

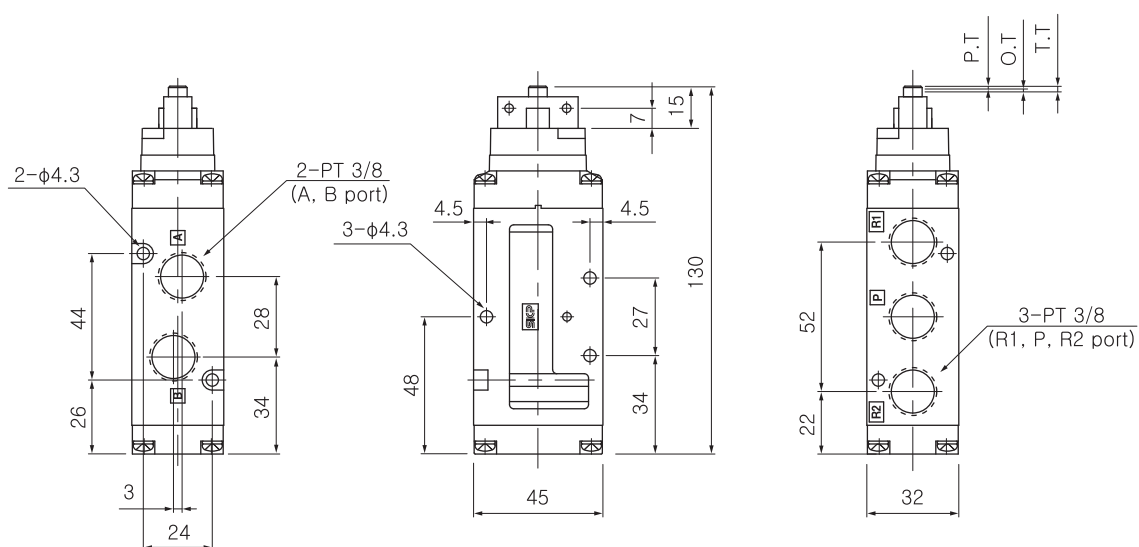


No.	PARTS	MATERIAL
①	Pilot guide	ZnDC
②	Pilot cylinder	N66G
③	Body	ALDC
④	Piston	POM
⑤	Spool	A2011
⑥	I-ring	NBR
⑦	Cover	ALDC

DIMENSIONS (mm)

SMVF 350-03-00

P.T.	1
O.T.	2
T.T.	3

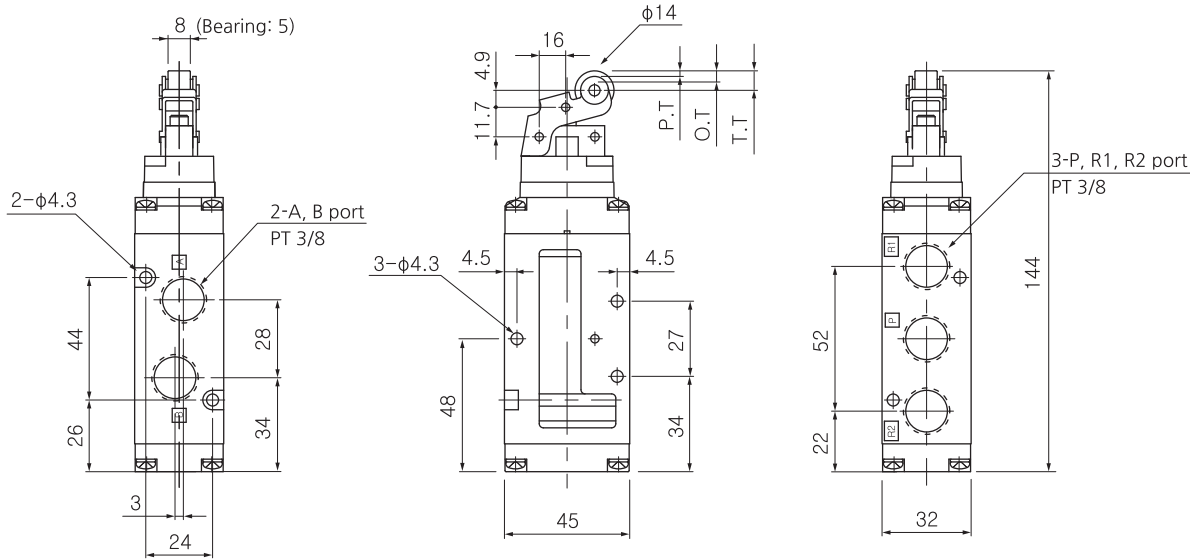


Series SMVF350

DIMENSIONS (mm)

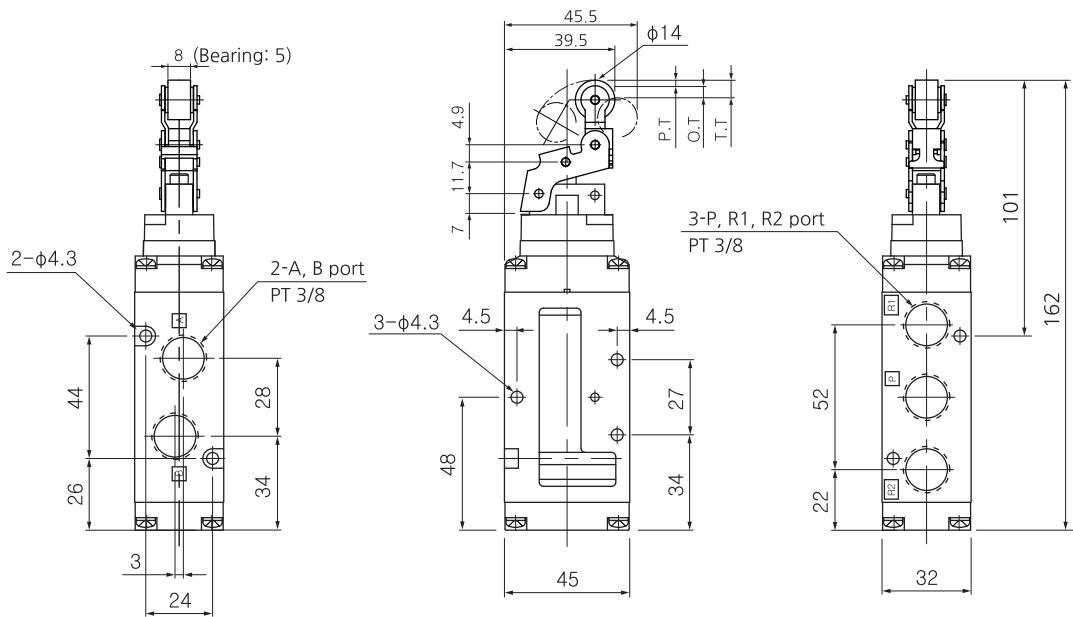
SMVF 350-03-01
350-03-01S

P.T.	2.2
O.T.	4
T.T.	6.2



SMVF 350-02-02
350-02-02S

P.T.	2.2
O.T.	4
T.T.	6.2

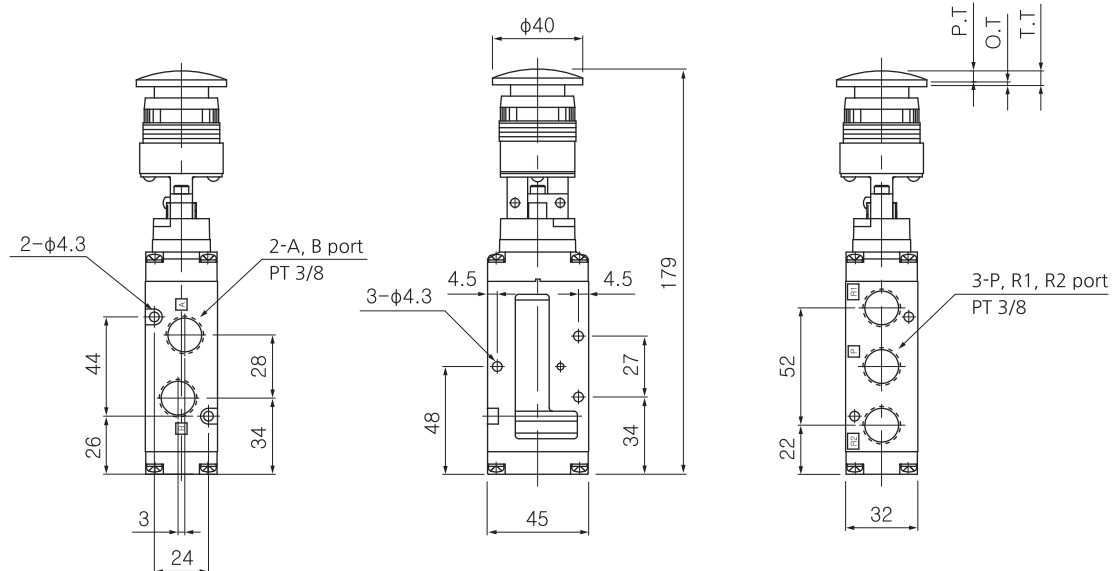


Pilot type Mechanical Valve

DIMENSIONS (mm)

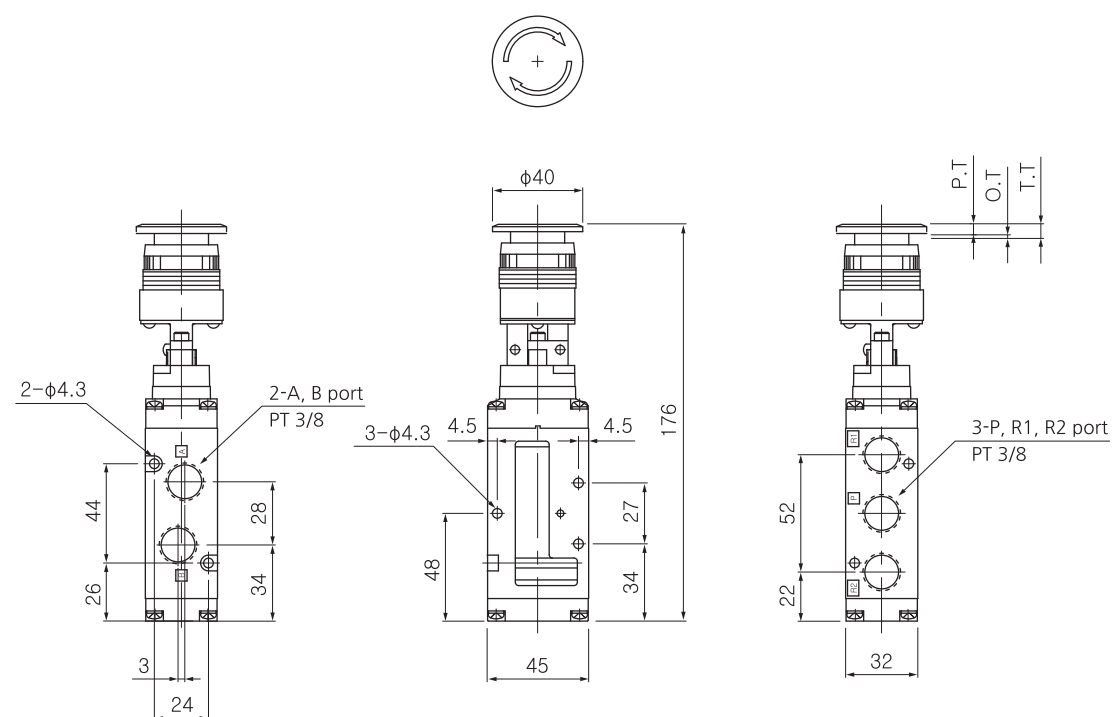
SMVF 350-03-30

P.T.	5.5
O.T.	2
T.T.	7.5



SMVF 350-03-31

T.T.	8
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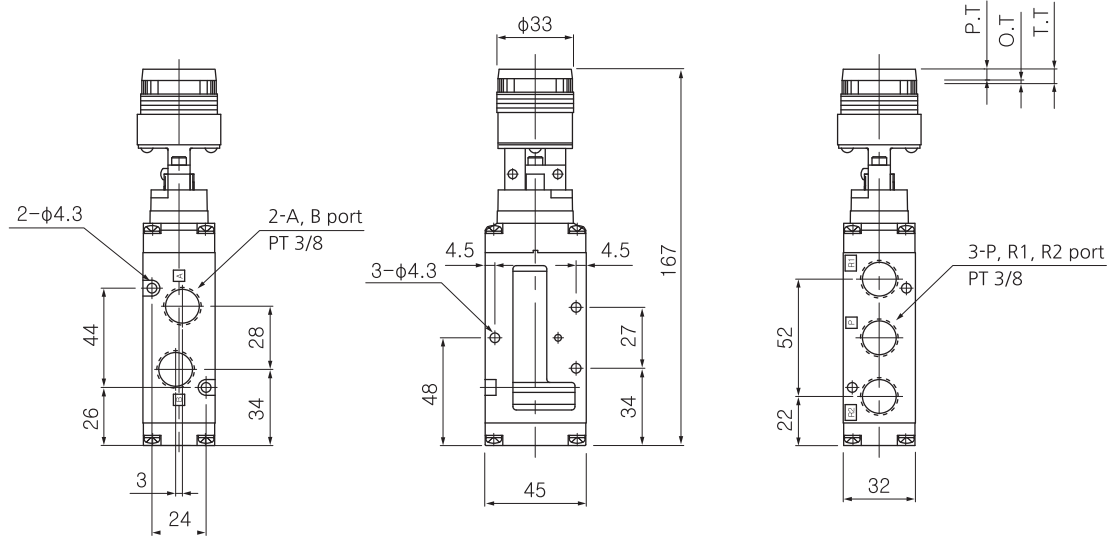


Series SMVF350

DIMENSIONS (mm)

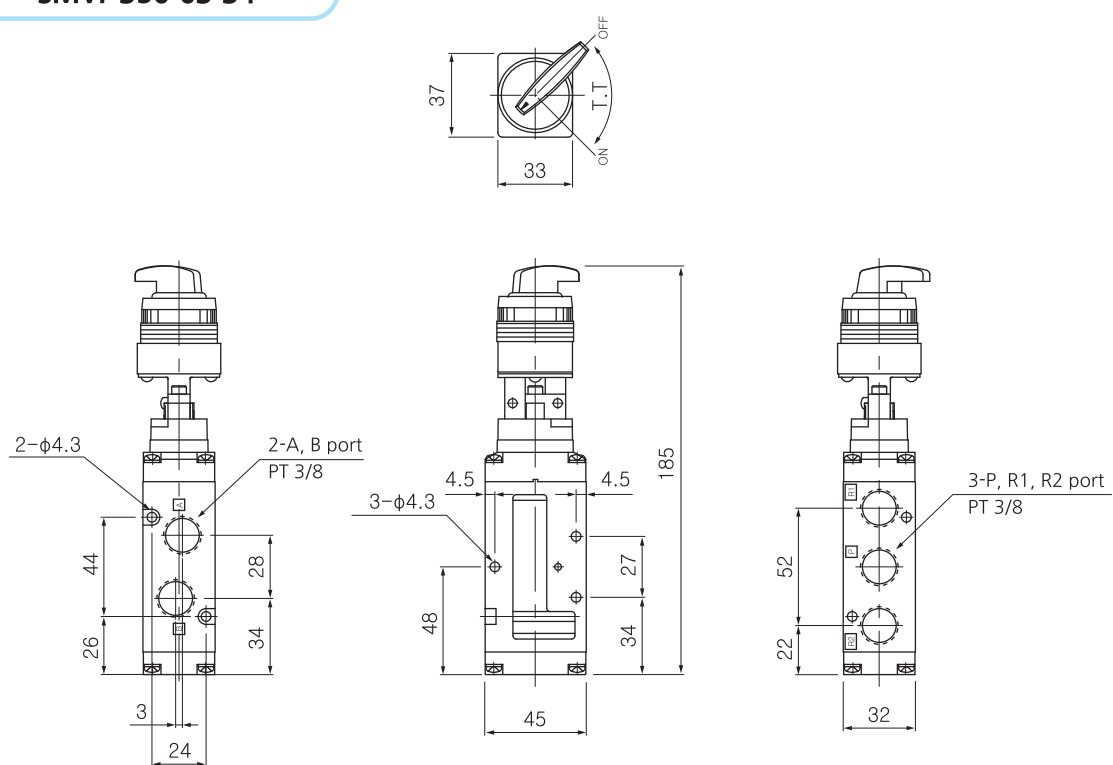
SMVF 350-03-32

P.T.	6
O.T.	2
T.T.	8



SMVF 350-03-34

T.T.	90°
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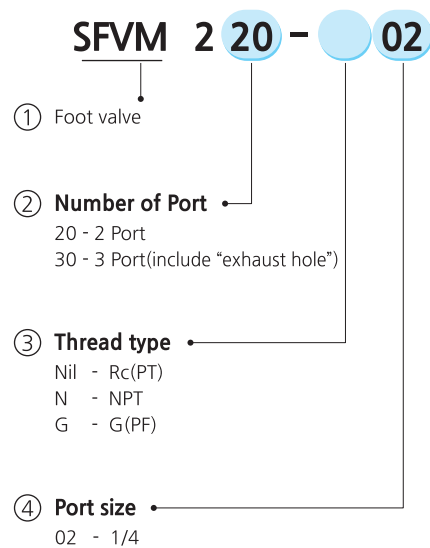
Foot Valve (SFVM)

SFVM220~230 Series



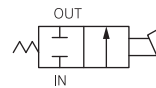
SFVM 230

How to order

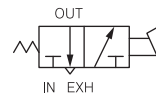


Symbol

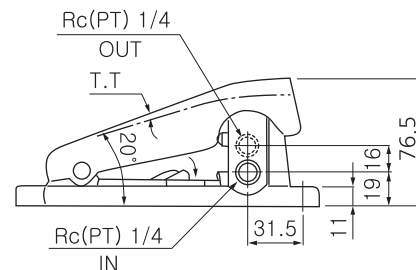
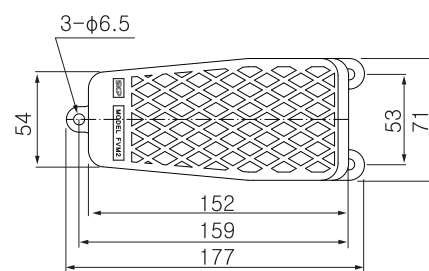
2 Port



3 Port



Dimensions (mm)



Specification

Fluid	Compressed Air
Max. operating pressure	0~10bar (0~1MPa)
Ambient and Media temp.	-5 ~ 60℃ (No freezing)
Effective orifice(Cv)	19mm ² (1.0)
Lubrication	Not required
Port size	1/4

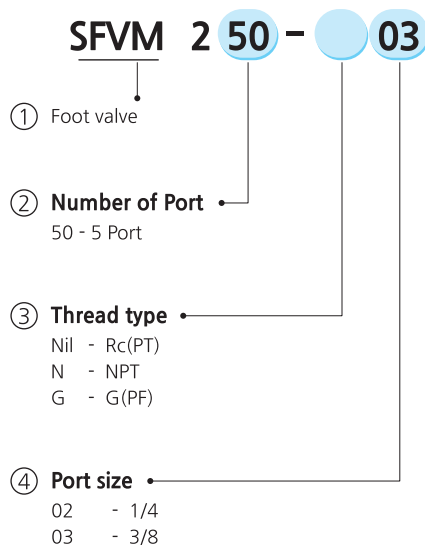
Pilot type Foot Valve (SFVM)

SFVM250 Series

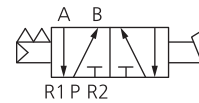


SFVM 250

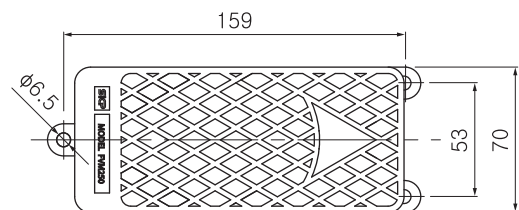
How to order



Symbol

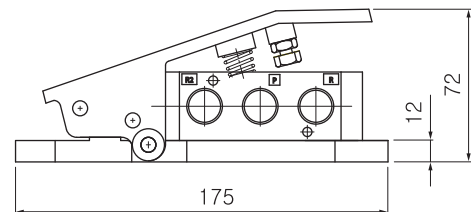


Dimensions (mm)



Specification

Model	SFVM250-02	SFVM250-03
Fluid	Compressed Air	
Max. operating pressure	0~10bar (0~1MPa)	
Ambient and Media temp.	-5~60°C (No freezing)	
Effective orifice(Cv)	19mm ² (1.0)	45mm ² (2.4)
Lubrication	Not required	
Port size	1/4	3/8



Hand Valve (SHV)

SHV200~400 Series



SHV 210



SHV 300



SHV 400

How to order

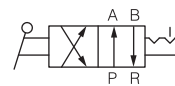
SHV 2 0 0 - 02

- ① Hand valve
- ② **Body size**
 - 2 - 1/4
 - 3 - 3/8
 - 4 - 1/2
- ③ **Piping and Mounting Method**

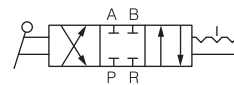
Mark	Piping	Mounting
0	Side	Body
1	Side	Panel
- ④ **Number of Positions**
 - 0 - 3 position (Closed Center)
 - 2 - 2 position
- ⑤ **Thread type**
 - Nil - Rc(PT)
 - N - NPT
 - G - G(PF)
- ⑥ **Port size**

Symbol	Size	Body size		
		2	3	4
02	1/4	●		
03	3/8		●	
04	1/2		●	●
06	3/4			●

Symbol



2 position



3 position Closed center

Specification

Fluid	Compressed Air
Max. supply pressure	15bar (15MPa)
Max. operating pressure	10bar (1MPa)
Ambient temperature	-5 ~ 60℃(No freezing)
Lubrication	Not required
Operating angle	90°

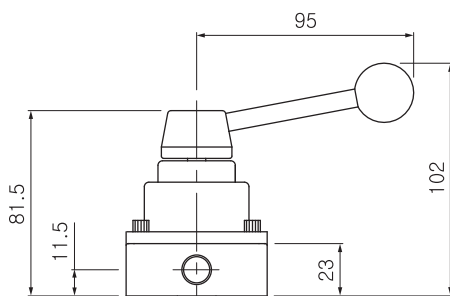
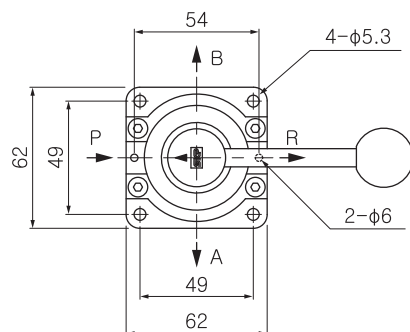
Precautions

- ① Ensure connection so that air is supplied to the "P" port. Air leakage may occur when the pressure is supplied from other ports
- ② Not suitable for negative pressure. The valve can malfunction due to air leakage.
- ③ When stopping the cylinder piston in the middle using the 3 position closed center valve, it is not possible to stop it correctly and precisely as the hydraulic equipment due to the air compressibility. Do not use this valve because it has slight air leakage and can not hold a stopping position.
- ④ The valve must be switched to each position instantly and securely. Stopping the handle halfway between the extreme positions may cause malfunction.

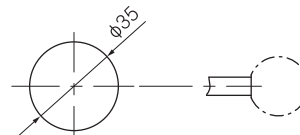
Series SHV200~400

DIMENSIONS (mm)

SHV 200

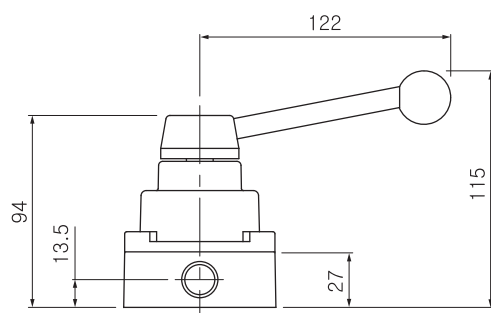
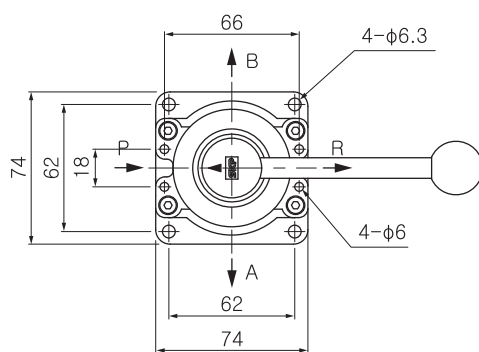


Panel cut dimension

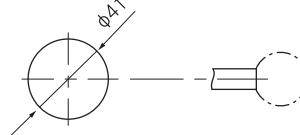


Max. panel thickness : 3.5mm

SHV 300



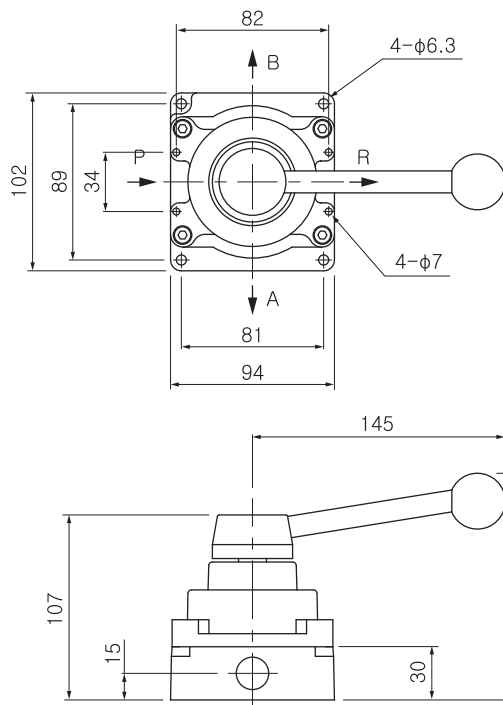
Panel cut dimension



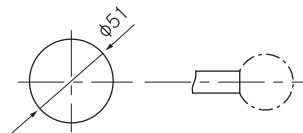
Max. panel thickness : 3.5mm

DIMENSIONS (mm)

SHV 400-04

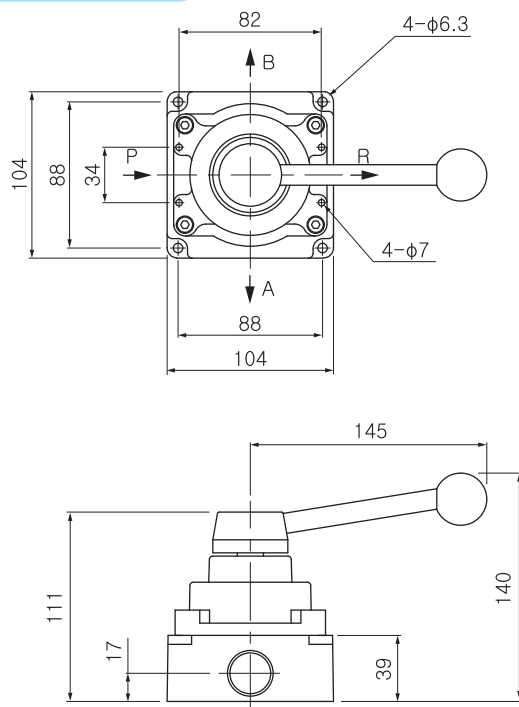


Panel cut dimension

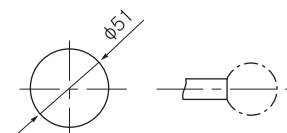


Max. panel thickness : 8mm

SHV 400-06



Panel cut dimension



Max. panel thickness : 8mm

Directiona Control valve 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.
- When an actuator, such as a cylinder, is to be driven using a valve, take appropriate measures (cover installation or approach prohibition) to prevent potential danger caused by actuator operation.
- Provide ventilation when using a valve in a confined area, such as in a closed control panel, in order to release the heat generated by the valve.
- Since the valves are subject to air leakage, they cannot be used for applications such as holding pressure in a pressure vessel.
- When using the double solenoid type for the first time, actuators may travel in an unexpected direction depending on the switching position of the valve. Implement measures to prevent any danger from occurring when operating the actuator.

Air Supply

WARNING

- Please consult with SKP when using the product in applications other than compressed air.
- Compressed air containing a large amount of drainage can cause malfunction of pneumatic equipment. An air dryer or water separator should be installed upstream from filters.

CAUTION

- Use the purified and dried air only.
Do not use compressed air that contains chemicals, organic solvents, salt, or corrosive gases as it can cause damage or malfunction.
- Install an air filter upstream near the valve. Select an air filter with a filtration size of 5 µm or smaller.

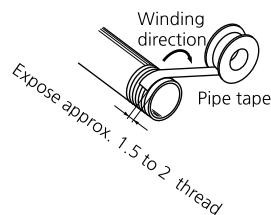
Mounting

⚠ WARNING

- 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

- Before piping is connected, it should be thoroughly blown out with air or washed to remove chips, cutting oil and other debris from inside the pipe.
- 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 ridge exposed at the end of the threads.



- Select and connect the proper ports for accurate piping.
P(1) : Compressed air input connection ports
B(2), A(4) : Actuator connection ports
R2(3), R1(5) : Residual air exhaust ports

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.
- Use the valves within the allowable range of 5°C~60°C of the ambient temperature and of the fluid material.
Especially at low temperatures, please use specially careful not to cause damage to the packing of frozen water.

Electrical factors for the valves

WARNING

- Allowable range of voltage variation should be within 10% of the recommended voltage for the proper operation of the valves. Any voltage exceeding more than 10% of the recommended voltage will result in the coil damage and the malfunctioning of the valves.
- Turning on or off of Alternate Current (AC) may result in surge current that may have problematic effect to the magnetic circuitry. It is recommended that an alternate plan is implemented to avoid such problematic effect.
- Continuous supply of electricity to the solenoid coil may result in increase of the surface temperature of the coil. In order to avoid the damage to the coil, please verify circuitry design before piping.
- Even if the source of electricity is completely disconnected, the operation of the valves may not come a complete stop due to a residual current in the magnetic circuitry. Reduce the magnitude of the leakage current on both sides by 20% of the rated voltage for AC supply current and by 10% of the rated voltage for DC supply current.

CAUTION

- When connecting power to a solenoid valve with a DC specification and equipped with a light or surge voltage suppressor, check for polarity.
- When electric power is connected to a solenoid valve, be careful to apply the proper voltage. Improper voltage may cause malfunction or coil damage.

Lubrication

CAUTION

- Valves have been lubricated for life by the manufacturer and therefore, do not require lubrication while in service.
- If a lubricant is used in the system, use class 1 turbine oil (no additive), ISO VG32.
Once lubricant is utilized within the system, since the original lubricant applied within the product during manufacturing will be washed away, please continue to supply lubrication to the system. Without continued lubrication, malfunctions could occur.

Maintenance

WARNING

- When components are removed, first confirm that measures are in place to prevent workpieces from dropping, run-away equipment, etc. Then, cut off the supply air and electric power, and exhaust all air pressure from the system using the residual pressure release function.
When the equipment is operated after remounting or replacement, first confirm that measures are in place to prevent lurching of actuators, etc. Then, confirm that the equipment is operating normally.
- Valves should be operated regularly to prevent malfunction.
- When the manual override is operated, connected equipment will be actuated. Operate after safety is confirmed.
- Even if the source of electricity is completely disconnected, the operation of the valves may not come a complete stop due to a residual current in the magnetic circuitry. Reduce the magnitude of the leakage current on both sides by 20% of the rated voltage for AC supply current and by 10% of the rated voltage for DC supply current.

WARNING

- Remove drainage from the air filters regularly.
- In the case of rubber seals, once lubrication has been started, it must be continued.
Use class 1 turbine oil (with no additive), VG32. If other lubricant oil is used, it may cause malfunction.

Other Air Equipment



- SAS (Speed Controller) 240
- SQE (Quick Exhaust Valve) 244
- SJ (Floating Joint) 246
- SRJ (Rotary Joint) 248

Speed Controller (SAS)

SAS2000~6000 Series



SAS6000



SAS5000



SAS4000

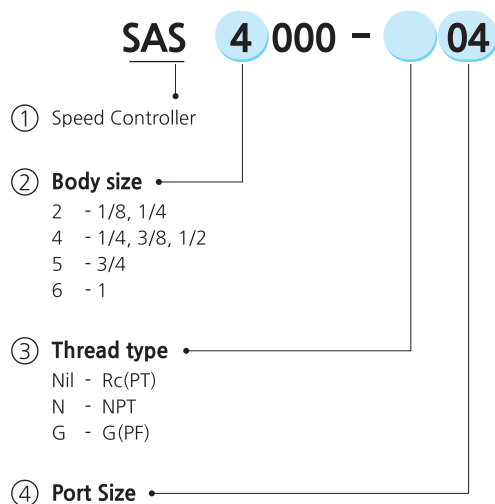


SAS2000-02



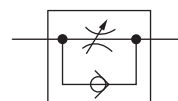
SAS2000-01

How to order



Symbol	Size	Body size			
		2	4	5	6
01	1/8	●			
02	1/4	●	●		
03	3/8		●		
04	1/2		●		
06	3/4			●	
10	1				●

Symbol



Specification

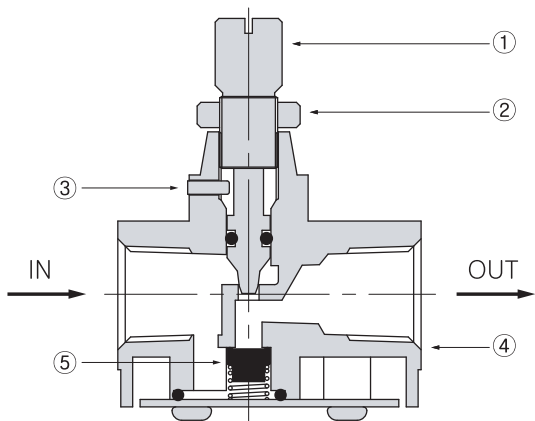
Fluid	Compressed Air
Max. supply pressure	10bar (1.0MPa)
Max. operating pressure	15bar (1.5MPa)
Ambient temperature	-5 ~ 60°C (No freezing)

Precautions

- ① This products are not designed for the use as stop valve with zero air leakage. A certain amount of leakage is allowed in the products specifications.
Tightening the needle to reduce leakage to zero may result in equipment damage.
- ② Confirm that the lock nut is tightened.
A loose lock nut may cause speed changes in the actuator.
- ③ When a needle valve is turned clockwise, it is closed and cylinder speed decreases. When a needle valve is turned counterclockwise, it is open and cylinder speed increases.

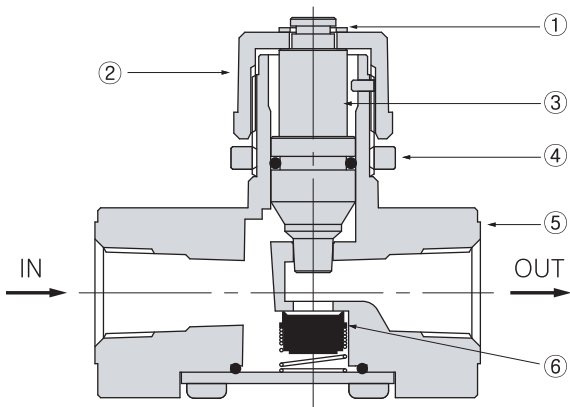
STRUCTURE / PARTS

SAS 2000



No.	PARTS	MATERIAL
①	Niddle	Brass
②	Handle nut	Brass
③	Stopper pin	Brass
④	Body	ALDC
⑤	Check valve	NBR

SAS 4000

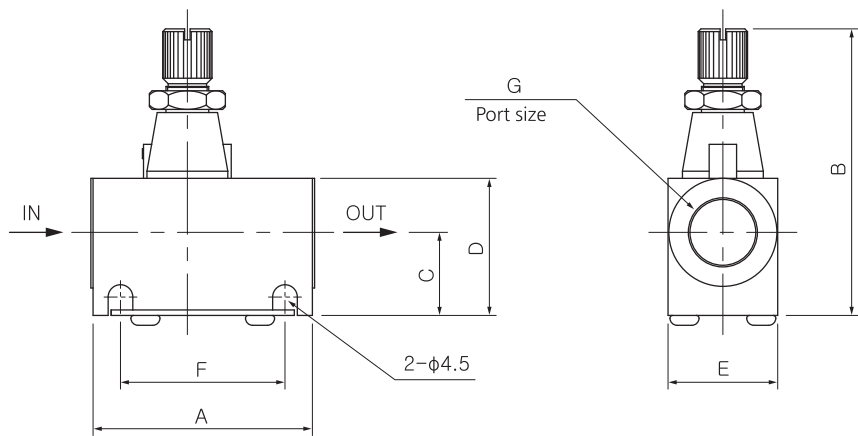


No.	PARTS	MATERIAL
①	E-ring	-
②	Handle	ABS
③	Niddle	AL
④	Handle nut	ABS
⑤	Body	ALDC
⑥	Check valve	NBR

Series SAS2000~6000

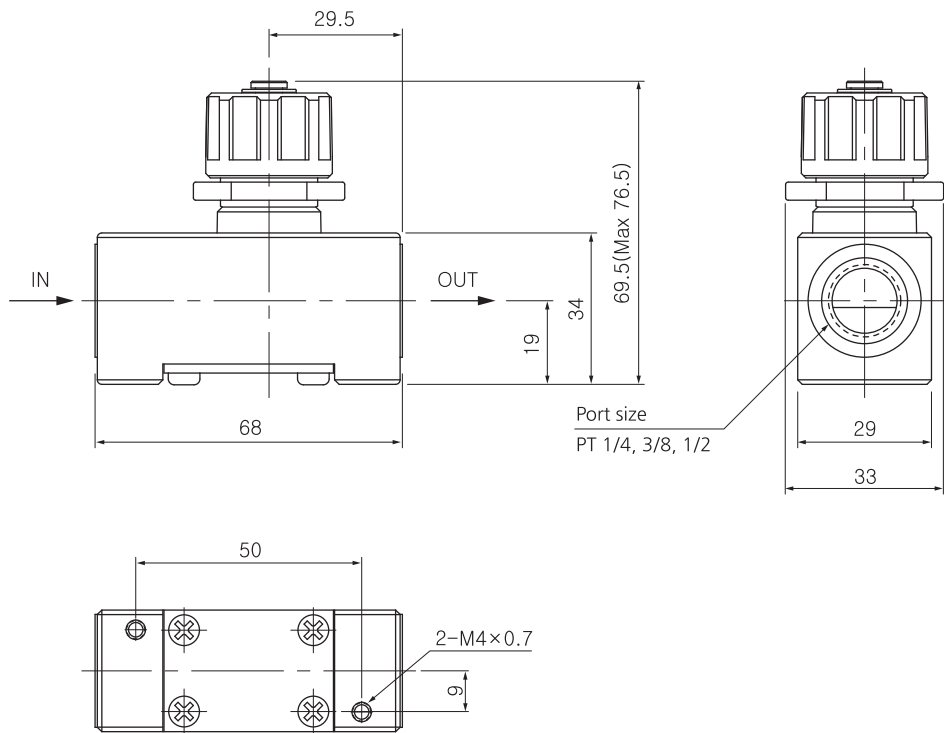
DIMENSIONS (mm)

SAS 2000



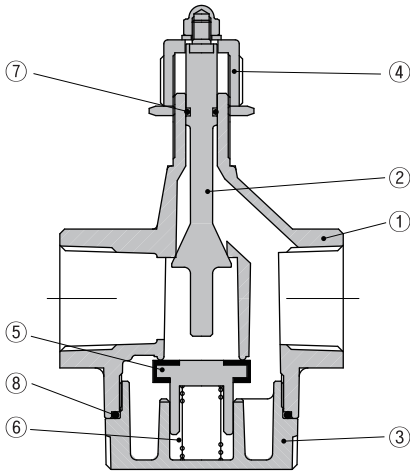
Model	A	B	C	D	E	F	G
SAS 2000-01	40	51	15	21.5	16	30	1/8
SAS 2000-02	40	53	17	25	20	30	1/4

SAS 4000



STRUCTURE / PARTS

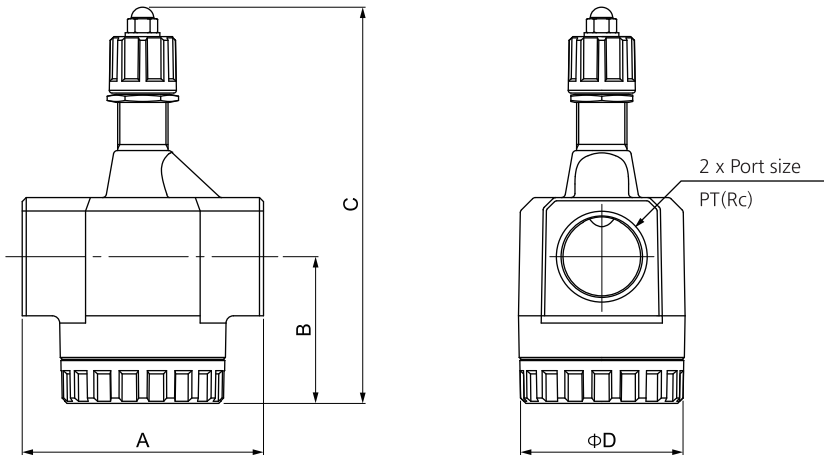
SAS 5000~6000



No.	PARTS	MATERIAL	
		SAS5000	SAS6000
①	Body	ALDC	
②	Niddle	Brass	
③	Cover	ALDC	
④	Handle	ALDC	
⑤	Check valve	NBR, Br	
⑥	Spring	SUS	
⑦	O-ring	NBR	
⑧	O-ring	NBR	

DIMENSIONS (mm)

SAS 5000~6000



Model	Port size	A	B	C	D
SAS 5000	3/4	74	42	121	49
SAS 6000	1	90	55.5	145	61.5

Quick Exhaust Valve (SQE)

SQE200~500 Series



SQE500



SQE400

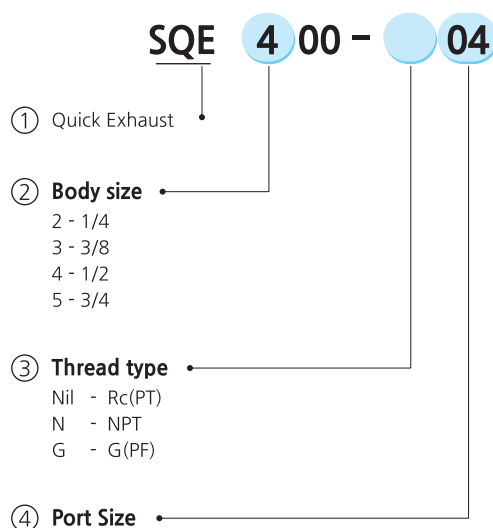


SQE300



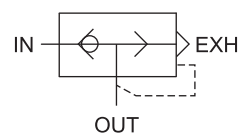
SQE200

How to order



Symbol	Size	Body size			
		2	3	4	5
02	1/4	●			
03	3/8		●		
04	1/2			●	
06	3/4				●

Symbol

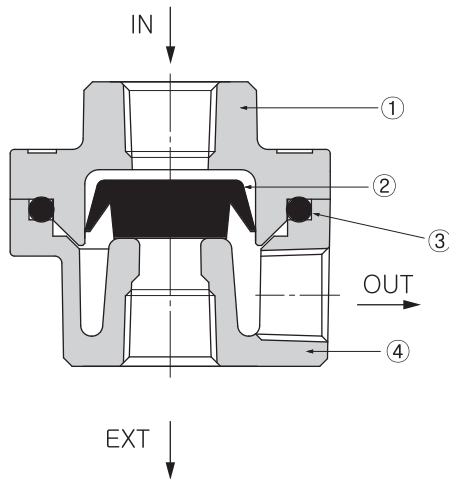


Specification

Fluid	Compressed Air
Max. supply pressure	10bar (1.0MPa)
Max. operating pressure	15bar (1.5MPa)
Ambient temperature	-5 ~ 60°C(No freezing)

STRUCTURE / PARTS

SQE 200~500

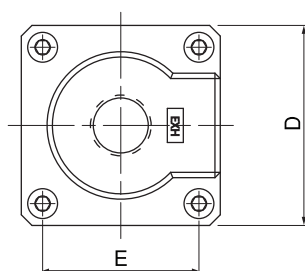
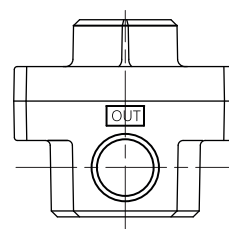
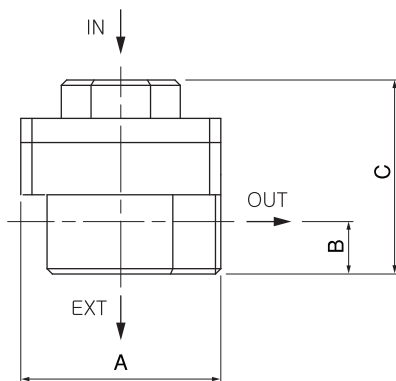


No.	PARTS	MATERIAL
①	Cover	ALDC
②	Valve ¹⁾	NBR
③	O - ring	NBR
④	Body	ALDC

Note : 1. SQE500 - Urethane

DIMENSIONS (mm)

SQE 200~500



MODEL	Port size	A	B	C	D	E
SQE 200	1/4	45	10	40	45	35
SQE 300	3/8	56	15	55	56	44
SQE 400	1/2	56	15	55	56	44
SQE 500	3/4	80	18	71	80	58

Floating Joint (SJ)

SJ(F)10~140 Series

- SJ series compensate displacement, imbalance and equilibrium deficiency of the rotating axle between a cylinder and the other component.



How to order

SJ F 40 - 14-150

① Floating Joint

② Mounting style
 Nil - Standard
 F - Flange type

③ Applicable bore size(mm) •

Model	Symbol	Applicable bore size(mm)
Standard	10	10
	15	10 · 15
	20	20
	30	25 · 30
	40	40
	63	50 · 63
	80	80
	100	100
	140	125 · 140

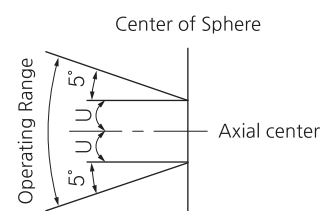
④ Thread nominal size(Standard) •

Nominal thread size	Applicable cylinder nominal thread size
5-080	M4 x 0.8
6-100	M6 x 1
8-125	M8 x 1.25
10-125	M10 x 1.25
14-150	M14 x 1.5
18-150	M18 x 1.5
22-150	M22 x 1.5
26-150	M26 x 1.5
30-150	M30 x 1.5

Specification

Operating Pressure	Pneumatic cylinder : 10bar(1MPa) or less
	Hydraulic cylinder : 35bar(3.5 MPa) or less
Mounting	Standard, Flange type

Range in Use

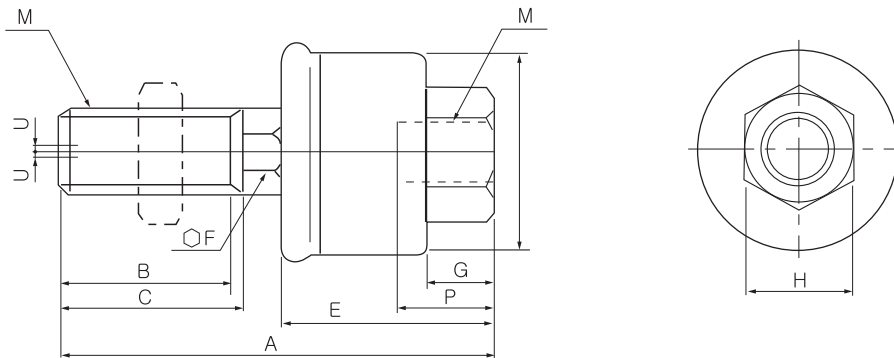


Precautions

- ① To use a floating joint to connect the cylinder rod to a driven body, secure it in place by applying a torque that is appropriate for the thread size. Also, if there is a risk of loosening during operation, take measures to prevent loosening, such as using a locking pin or thread adhesive. In the event that the connected portion becomes loose, the driven body might lose control or fall off, leading to equipment damage or injury to personnel.
- ② Do not use for rotational applications, because it is not a fitting designed for rotational axis.
- ③ High strength adhesive is applied to the portion of the connection that is threaded to prevent it from loosening, and it must not be disassembled. If it is forcefully disassembled, it could lead to damage.

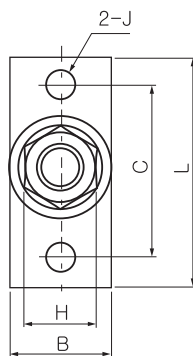
DIMENSIONS (mm)

SJ 10~140

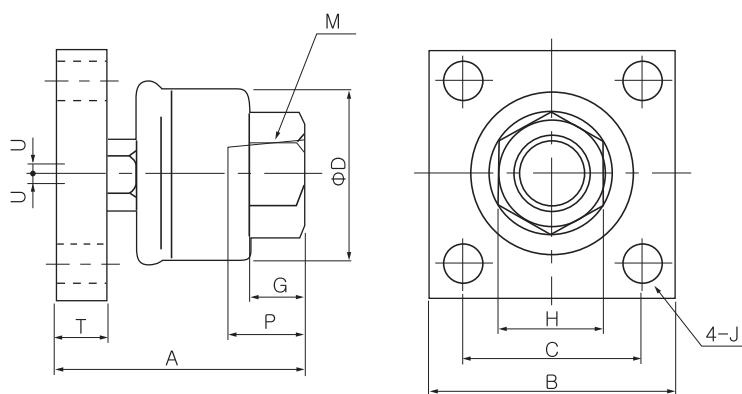


Model	M		A	B	C	D	E	F	G	H	Max. Depth of screw(P)	Permitted eccentricity(U)	Max. Operating compression(kgf)	Weight(g)
	Diameter	Pitch												
SJ10-4-070	4	0.7	34	12	14	16	2	6	5	10	5.5	0.5	5.4	20
SJ15-5-080	5	0.8	34	12	14	16	2	6	5	10	7	0.5	12.3	22
SJ15-6-100	6	1	34	12	14	16	2	6	5	10	7	0.5	12.3	24
SJ20-8-125	8	1.25	44	17	-	22	4.5	7	7	13	8	0.5	110	54
SJ30-10-125	10	1.25	50	19	-	25	5	8	8	17	9	0.5	250	86
SJ40-14-150	14	1.5	60	20	-	32	6	11	11	22	13	0.75	600	182
SJ63-18-150	18	1.5	75	25	-	42	7.5	14	13.5	27	15	1	1,100	404
SJ80-22-150	22	1.5	90	29	-	52	9.5	19	16	32	18	1.25	1,800	700
SJ100-26-150	26	1.5	110	35	-	63	11.5	24	20	41	24	2	2,800	1,250
SJ140-30-150	30	1.5	153	42	45	79	14	30	22	46	38	2.5	5,400	2,952

SJ F30~F40



SJ F63~F140



Model	M		A	B	L	C	D	E	F	G	H	Max. Depth of screw(P)	Permitted eccentricity(U)	Max. Operating compression(kgf)	Weight(g)
	Diameter	Pitch													
SJ F30-10-125	10	1.25	40	25	52	40	25	6	6.6	8	17	9	0.5	250	128
SJ F40-14-150	14	1.5	49	32	70	52	32	9	9	11	22	13	0.75	440	292
SJ F63-18-150	18	1.5	62	65	-	45	42	9	9	13.5	27	15	1	1,100	680
SJ F80-22-150	22	1.5	77	75	-	55	52	16	11	16	32	18	1.25	1,800	1,206
SJ F100-26-150	26	1.5	94	90	-	65	63	19	11	20	41	24	2	2,800	2,170
SJ F140-30-150	30	1.5	131	125	-	82	79	25	18	22	46	38	2.5	3,600	5,420

Rotary Joint (SRJ)

SRJ2000~6000 Series

- SRJ Series are easy to install because of its small size and light weight.
- SRJ Series have very low resistance against rotation.
- SRJ Series are complete no-lubrication type.



SRJ 3000A



SRJ 4000A



SRJ 6000W

How to order

SRJ 4 000 A - 04 R

- ① Rotary Joint
- ② Body size
 - 2 - 1/4
 - 3 - 3/8
 - 4 - 1/2
 - 5 - 3/4
 - 6 - 1
- ③ Media Fluid
 - A - Air
 - W - Water
- ④ Port size

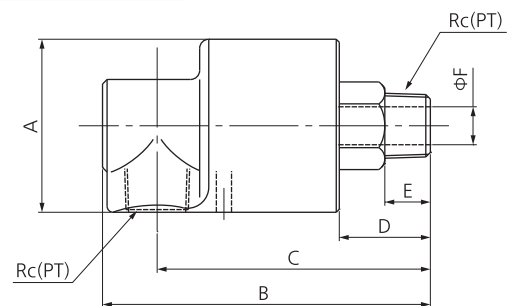
Symbol	Size	Body size					
		2	3	4	5	6	
01	1/8	●					
02	1/4	●					
03	3/8		●				
04	1/2			●			
06	3/4				●		
10	1					●	
- ⑤ Direction of connecting screw
 - R - Right
 - L - Left

Symbol

Fluid	Air, Water	
Max. temperature	100℃	
Max. pressure	10bar (1MPa)	
Number of Max. rotation	for Air	800rpm
	for Water	500rpm

Dimensions (mm)

SRJ 2000~6000



Model	Port size (PT)	A	B	C	D	E	F
SRJ2000-01	1 / 8	45	88.5	73	24	11	7
SRJ2000-02	1 / 4	45	88.5	73	24	11	7
SRJ3000-03	3 / 8	45	93	79	28	12	9
SRJ4000-04	1 / 2	57	108	91	30.5	15	12.5
SRJ5000-06	3 / 4	63	121	101	35	16	17
SRJ6000-10	1	74	138.5	115.5	42	18	21.5

