

**Pneumatic**

***Plus***

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## **Air Cleaning Equipment**

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# Air Cleaning Equipment

## SAMU (Micro Separator Unit)

Model	Port size(PT)	Composition	Page
SAMU 150	1/4	SAMG (Water Separator) + SAMH (Micro Mist Separator with Pre-filter) + SAR (Air Regulator)	16
SAMU 250	3/8		
SAMU 350	1/2		
SAMU 450	3/4		
SAMU 550	3/4, 1		



## SAMG (Water Separator)

Model	Port size(PT)	Filtration rating	Page
SAMG 150	1/8, 1/4	Water droplet separation rate : 99%	19
SAMG 250	1/4, 3/8		
SAMG 350	3/8, 1/2		
SAMG 450	3/4		
SAMG 550	3/4, 1		
SAMG 650	1 1/4, 1 1/2		
SAMG 850	1 1/2, 2		



## SAFL (Main Line Filter)

Model	Port size(PT)	Filtration rate	Page
SAFL 150	1/8, 1/4	1 µm (Filtration efficiency : 99%)	23
SAFL 250	1/4, 3/8		
SAFL 350	3/8, 1/2		
SAFL 450	3/4		
SAFL 550	3/4, 1		
SAFL 650	1 1/4, 1 1/2		
SAFL 850	1 1/2, 2		



## SAM (Mist Separator)

Model	Port size(PT)	Filtration rate	Page
SAM 150	1/8, 1/4	0.1 µm (Filtration efficiency : 99%)	27
SAM 250	1/4, 3/8		
SAM 350	3/8, 1/2		
SAM 450	3/4		
SAM 550	3/4, 1		
SAM 650	1 1/4, 1 1/2		
SAM 850	1 1/2, 2		



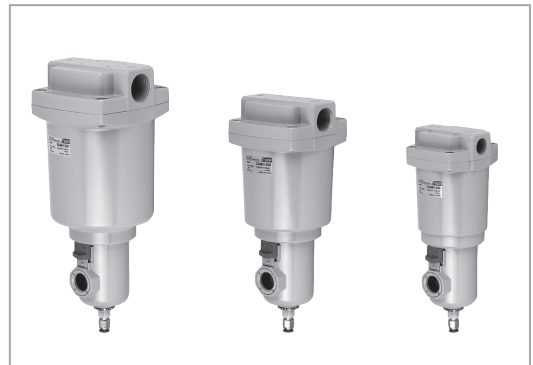
**SAMD (Micro Mist Separator)**

Model	Port size(PT)	Filtration rate	Page
SAMD 150	1/8, 1/4	0.01 µm (Filtration efficiency : 99%)	31
SAMD 250	1/4, 3/8		
SAMD 350	3/8, 1/2		
SAMD 450	3/4		
SAMD 550	3/4, 1		
SAMD 650	1 1/4, 1 1/2		
SAMD 850	1 1/2, 2		



**SAMH (Micro Mist Separator with Pre-filter)**

Model	Port size(PT)	Filtration rate	Page
SAMH 150	1/8, 1/4	0.1+0.01 µm (Filtration efficiency : 99%)	35
SAMH 250	1/4, 3/8		
SAMH 350	3/8, 1/2		
SAMH 450	3/4		
SAMH 550	3/4, 1		
SAMH 650	1 1/4, 1 1/2		
SAMH 850	1 1/2, 2		



**SAD402 (Auto Drain Valve)**

Model	Port size(PT)	Thread type	Page
SAD 402	1/4	female thread	39
	3/8		
	1/2		
	R04	male thread	
	M30		



**Bracket (for micro filter)**

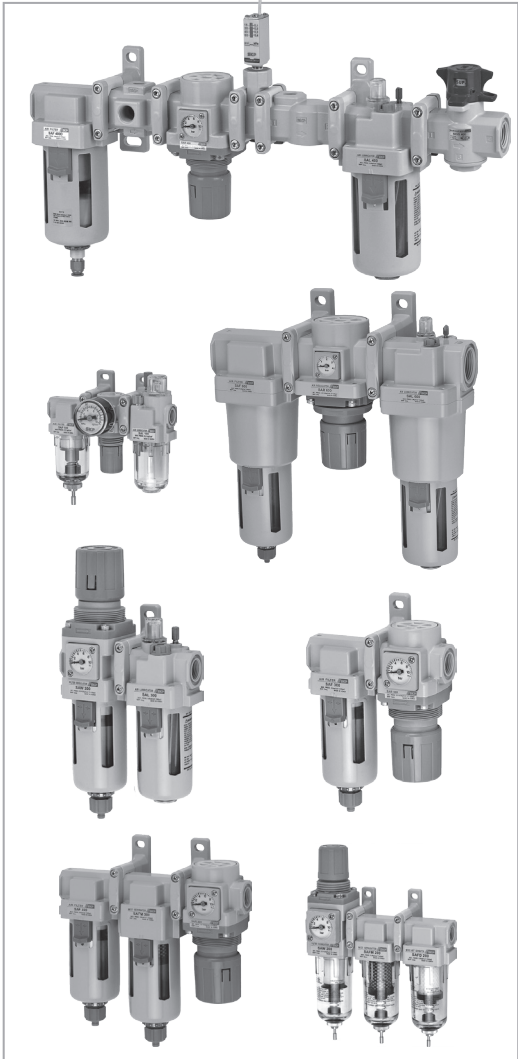
Model	Applicable model	Page
B150	150 Series (SAFL, SAM, SAMD, SAMH, SAMG)	41
B250	250 Series (SAFL, SAM, SAMD, SAMH, SAMG)	
B350	350 Series (SAFL, SAM, SAMD, SAMH, SAMG)	
B450	450 Series (SAFL, SAM, SAMD, SAMH, SAMG)	
B550	550 Series (SAFL, SAM, SAMD, SAMH, SAMG)	
B650	650 Series (SAFL, SAM, SAMD, SAMH, SAMG)	
B850	850 Series (SAFL, SAM, SAMD, SAMH, SAMG)	



# Air Line Equipment

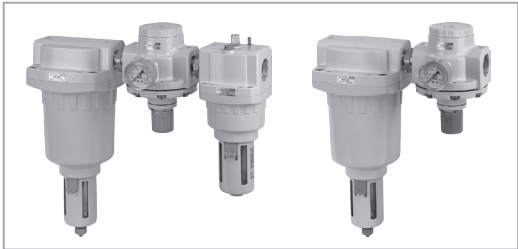
## SAU (Air Unit)

Model	Port size(PT)	Composition	Page
SAU 100	M5, 1/8	SAF(Air Filter) + SAR(Air Regulator) + SAL(Lubricator)	46
SAU 200	1/4		
SAU 300	3/8		
SAU 400	1/2, 3/4		
SAU 600	3/4, 1		
SAU 110	M5, 1/8	SAW(Filter Regulator) + SAL(Lubricator)	52
SAU 210	1/4		
SAU 310	3/8		
SAU 410	1/2		
SAU 610	3/4, 1		
SAU 120	M5, 1/8	SAF(Air Filter) + SAR(Air Regulator) +	57
SAU 220	1/4		
SAU 320	3/8		
SAU 420	1/2, 3/4		
SAU 620	3/4, 1		
SAU 230	1/4	SAF(Air Filter) + SAFM(Mist separator) + SAR(Air Regulator)	62
SAU 330	3/8		
SAU 430	1/2, 3/4		
SAU 240	1/4	SAW(Filter Regulator) + SAFM(Mist separator)	66
SAU 340	3/8		
SAU 440	1/2		
SAU 250	1/4	SAFM(Mist separator) + SAFD(Micro Mist separator) + SAR(Air Regulator)	70
SAU 350	3/8		
SAU 450	1/2, 3/4		
SAU 260	1/4	SAW(Filter Regulator) + SAFM(Mist separator) + SAFD(Micro Mist separator)	74
SAU 360	3/8		
SAU 460	1/2		



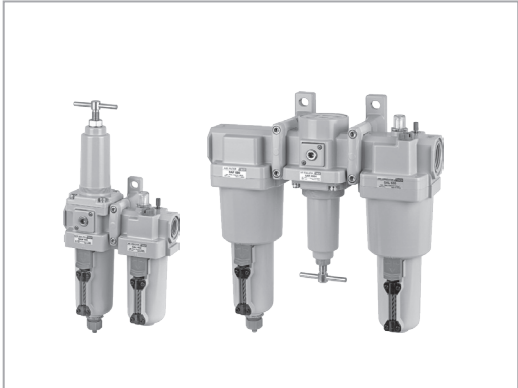
## SAU (Large Flow Air Unit)

Model	Port size(PT)	Composition	Page
SAU 800	1 1/4, 1 1/2	SAF(Filter) + SAR(Regulator) + SAL(Lubricator)	78
SAU 900	2		
SAU 820	1 1/4, 1 1/2	SAF(Filter) + SAR(Regulator)	78
SAU 920	2		



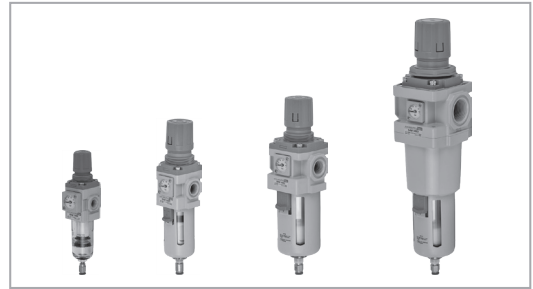
## SAU (Air Unit for High Pressure)

Model	Port size(PT)	Composition	Page
SAU 200H	1/4	SAF(Filter) + SAR(Regulator) + SAL(Lubricator)	80
SAU 300H	3/8		
SAU 420H	1/2, 3/4		
SAU 620H	1	SAW(Filter Regulator) + SAL(Lubricator)	80
SAU 210H	1/4		
SAU 310H	3/8		
SAU 410H	1/2		
SAU 610H	1		



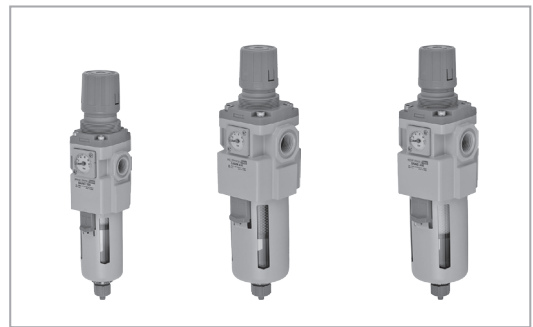
**SAW (Filter Regulator)**

Model	Port size(PT)	Filteration	Regulating range	Page
SAW 100	M5, 1/8	10 µm (standard)	0.5~8.5bar (0.05~0.85MPa)	84
SAW 200	1/4			
SAW 300	3/8			
SAW 400	1/2			
SAW 600	3/4, 1			



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

Model	Port size(PT)	Filteration	Regulating range	Page
SAWM 200	1/4	0.3 µm	0.5~8.5bar (0.05~0.85MPa)	90
SAWM 300	3/8			
SAWM 400	1/2			
SAWD 200	1/4	0.01 µm		
SAWD 300	3/8			
SAWD 400	1/2			



**SAF (Air Filter)**

Model	Port size(PT)	Filteration	Page
SAF 100	M5, 1/8	10 µm (standard)	96
SAF 200	1/4		
SAF 300	3/8		
SAF 400	1/2, 3/4		
SAF 600	3/4, 1		



**SAF (Large flow Air Filter)**

Model	Port size(PT)	Filteration	Page
SAF 800	1 1/4, 1 1/2	5 µm (Special filter for large flow)	103
SAF 900	2		



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

Model	Port size(PT)	Filteration	Page
SAFM 200	1/4	0.3 µm	106
SAFM 300	3/8		
SAFM 400	1/2, 3/4		
SAFD 200	1/4	0.01 µm	
SAFD 300	3/8		
SAFD 400	1/2, 3/4		



**SAR (Air Regulator)**

Model	Port size(PT)	Regulating range	Page
SAR 100	M5, 1/8	0.5~8.5bar (0.05~0.85MPa)	111
SAR 200	1/4		
SAR 300	3/8		
SAR 400	1/2, 3/4		
SAR 600	3/4, 1		

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## SAR (Large flow Pilot operated Regulator)

Model	Port size(PT)	Regulating range	Page
SAR 825	11/4, 11/2	0.5~8.5bar (0.05~0.85MPa)	119
SAR 925	2		



## SAR (Air Regulator with T type handle)

Model	Port size(PT)	Regulating range	Page
SAR 200T	1/4	0.5~8.5bar (0.05~0.85MPa)	122
SAR 300T	3/8		
SAR 400T	1/2, 3/4		
SAR 600T	3/4, 1		



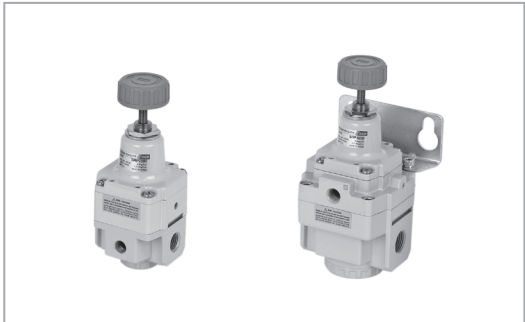
## SAR (Air Regulator for High Pressure)

Model	Port size(PT)	Regulating range	Page
SAR 200H	1/4	1~16bar (0.1~1.6MPa)	127
SAR 300H	3/8		
SAR 400H	1/2, 3/4		
SAR 600H	3/4, 1		



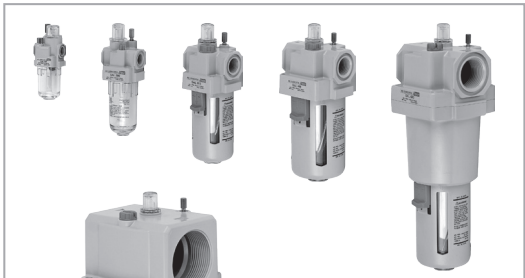
## SRP (Precision Regulator)

Model	Port size(PT)	Regulating range	Page
SRP 2000	1/4	0.2~8.0bar (0.02~0.8MPa)	131
		0.1~2.0bar (0.01~0.2MPa)	
		0.1~4.0bar (0.01~0.4MPa)	
SRP 3000	3/8, 1/2	0.2~8.0bar (0.02~0.8MPa)	
		0.1~2.0bar (0.01~0.2MPa)	
		0.1~4.0bar (0.01~0.4MPa)	



## SAL (Air Lubricator)

Model	Port size(PT)	Recommended lubricant	Page
SAL 100	M5, 1/8	Class 1 turbine oil (ISO VG32)	134
SAL 200	1/4		
SAL 300	3/8		
SAL 400	1/2, 3/4		
SAL 600	3/4, 1		



## SAL (Large flow Air Lubricator)

Model	Port size(PT)	Recommended lubricant	Page
SAL 800	11/4, 11/2	Class 1 turbine oil (ISO VG32)	141
SAL 900	2		



## SAD (AutoDrain Kit)

Model	Body size	Drain guide	Page
SAD 200	1/4	Φ4 one-touch fitting	143
SAD 300	3/8	Φ6 one-touch fitting	
SAD 400	1/2		



**SHVS (Pressure relief 3 port valve)**

Model	IN, OUT Port size(PT)	EXH Port size(PT)	Page
SHVS 200	1/4	1/8	146
SHVS 300	3/8	1/4	
SHVS 400	1/2	3/8	
SHVS 600	3/4, 1	1/2	



**SPS100 (Pressure Switch)**

Model	Port size(PT)	Set pressure range	Page
SPS100	1/8	1~4bar (0.1~0.4MPa)	148
		2~6bar (0.2~0.6MPa)	



**Gauge**

Model	Gauge Type	Pressure range	Page
G25-10	Standard round	0~10bar (0~1MPa)	150
G40-10			
G50-10			
Gp40-2	Precision round	0~2bar (0~2MPa)	
Gp40-4		0~4bar (0~4MPa)	
Gp40-8		0~8bar (0~8MPa)	
Gs28-10	Embedded square	0~10 bar	



**Bracket**

Description	Page
Bracket with Modular Spacer (B110T~B610T)	151
Modular Spacer(B110S~B610S)	
Bracket (B200~B600, B620)	
Bracket (B120~B420)	



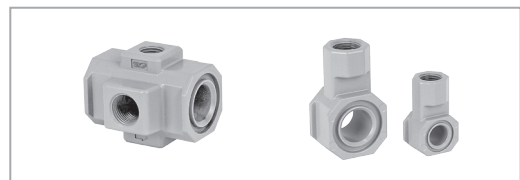
**SPS100M (Pressure Switch with spacer)**

Model	Set pressure range	Page
SPS100M	1~4bar(0.1~0.4MPa)	154
	2~6bar (0.2~0.6MPa)	



**Spacer**

Description	Page
Cross Spacer(B240C~B440C)	155
T-Spacer(B230T~B630T)	



**SACM (Check valve)**

Model	Port size(PT)	Max. operating pressure	Page
SACM 200	1/8, 1/4	9.9 bar (0.97 MPa)	157
SACM 300	1/8, 1/4		
SACM 400	1/4, 3/8		





# Directional Control Valve

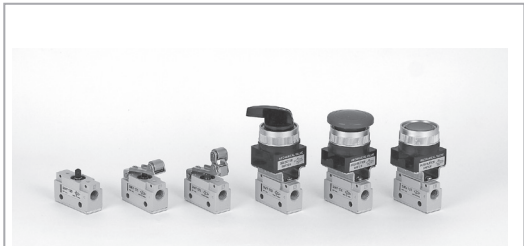
## SV (Solenoid valve)

Model	Port size(PT)	Eff.Sectional Area (mm2)	Page
SV 1□30	1/8	2position:12.6, 3position:9.0	166
SV 3□30	1/4	2position:19, 3position:11.5	170
SV 5□30	3/8	2position:36, 3position:30	175
SV 6□30	1/2	2position:65, 3position:50	180
SV 23□	1/4	19	184
Coil	-	-	187
Connector	-	-	188



## SMV (Mechanical valve)

Model	Port size(PT)	Type of actuator	Page
SMV 100	1/8	Standard, Roller lever, Push button, Selector	189
SMV 200	1/4		194



## SMVS (Spool type Mechanical valve)

Model	Port size(PT)	Type of actuator	Page
SMVS 230	1/4	Standard, Roller lever, Push button, Selector	199



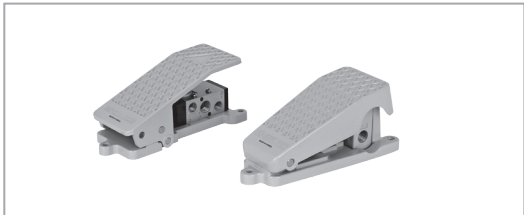
## SMVF (Pilot type Mechanical valve)

Model	Port size(PT)	Type of actuator	Page
SMVF 230	1/4	Standard, Roller lever, Push button, Selector	204
SMVF 250	1/4		209
SMVF 350	3/8		214



## SFVM (Foot valve)

Model	Port size(PT)	Eff.Sectional Area (mm2)	Page
SFVM 200	1/4	19	219
SFVM 250-02	1/4	19	
SFVM 250-03	3/8	36	



## SHV (Hand valve)

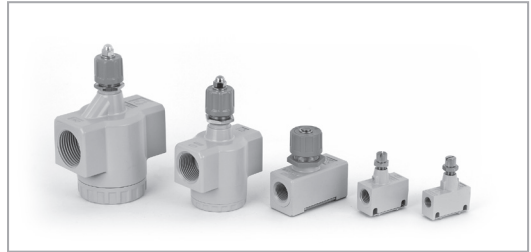
Model	Port size(PT)	Number of positions	Page
SHV 200	1/4	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>2 position</p> </div> <div style="text-align: center;"> <p>3 position</p> </div> </div>	221
SHV 300	3/8, 1/2		
SHV 400-04	1/2		
SHV 400-06	3/4		



## Other Air Equipment

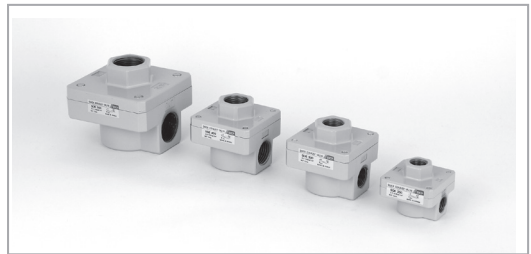
### SAS (Speed controller)

Model	Port size(PT)	Max. operating pressure	Page
SAS 2000	1/8, 1/4	0~10bar (0~1MPa)	228
SAS 4000	1/4, 3/8, 1/2		
SAS 5000	3/4		
SAS 6000	1		



### SQE (Quick exhaust valve)

Model	Port size(PT)	Max. operating pressure	Page
SQE 200	1/4	0~10bar (0~1MPa)	232
SQE 300	3/8		
SQE 400	1/2		
SQE 500	3/4		



### SJ (Floating Joint)

Model	Connecting method	Cylinder supply pressure	Page
SJ	Standard	10bar(1 MPa) or less	234
SJ F	Flange type		



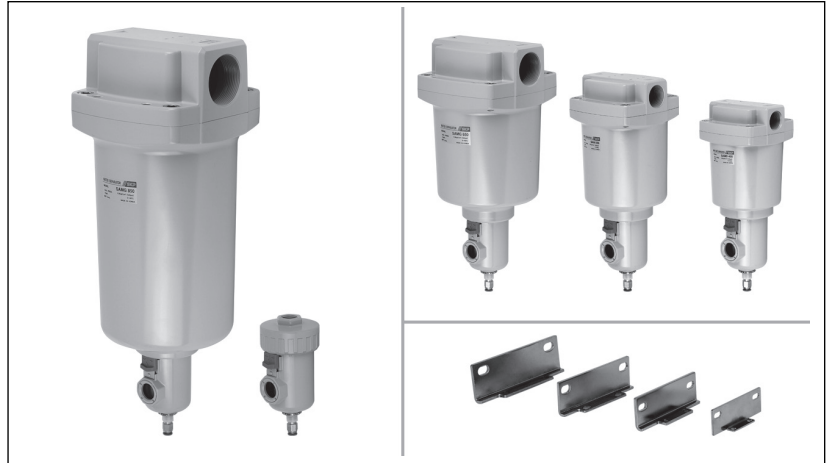
### SRJ (Rotary Joint)

Model	Port size(PT)	Fluid	Page
SRJ 2000	1/4	Air / Water	236
SRJ 3000	3/8		
SRJ 4000	1/2		
SRJ 5000	3/4		
SRJ 6000	1		



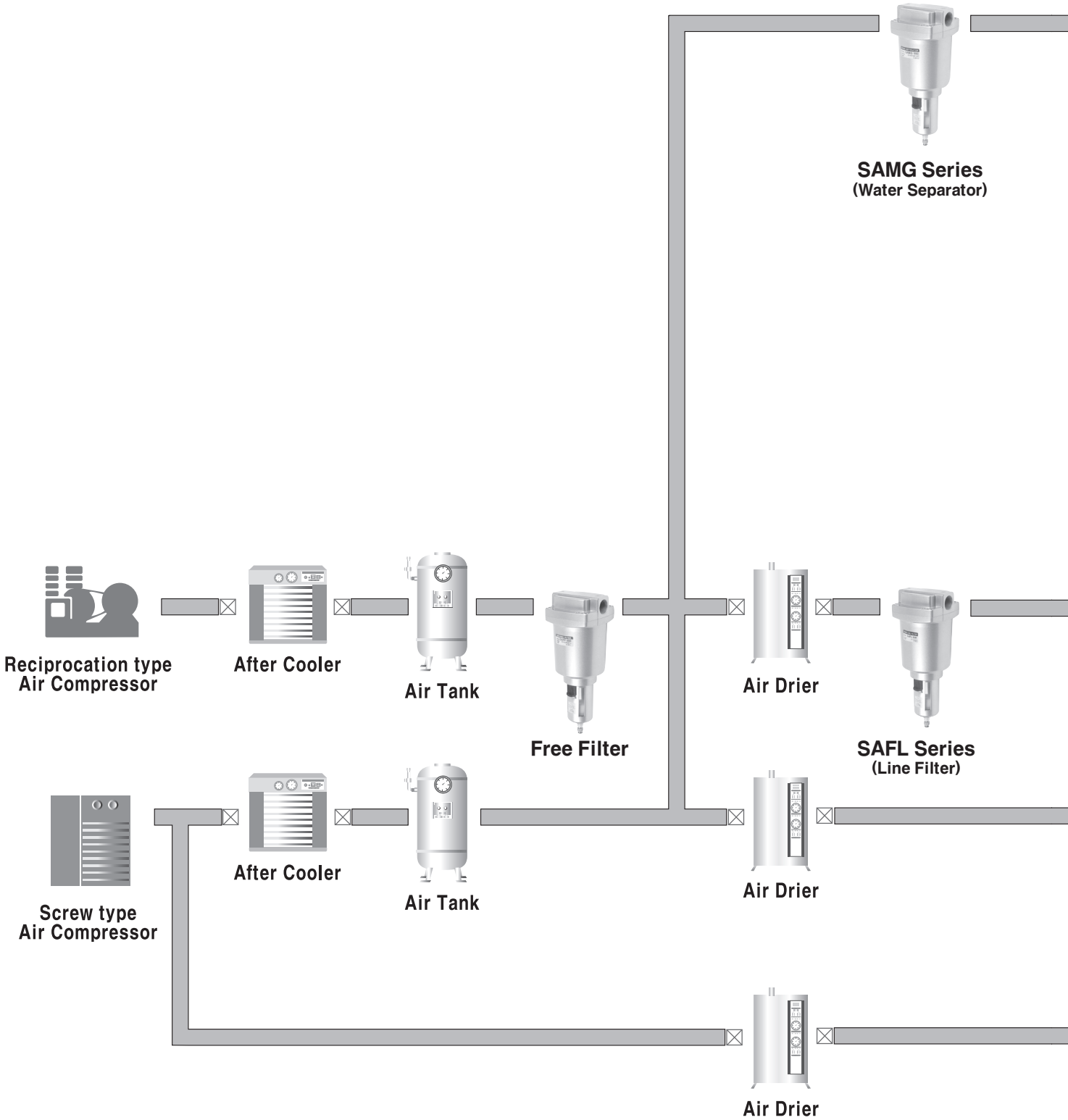



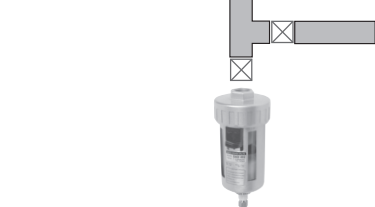
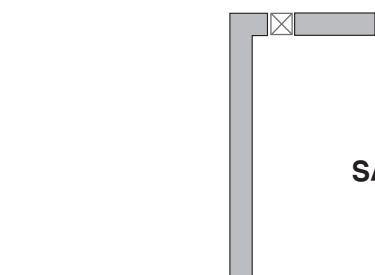
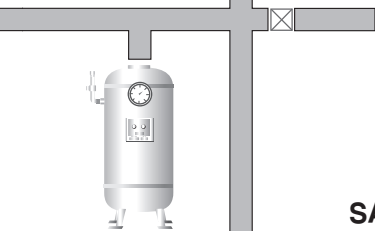
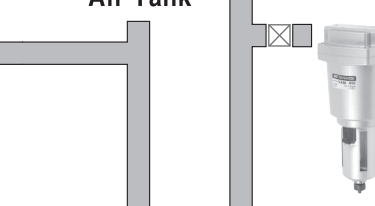
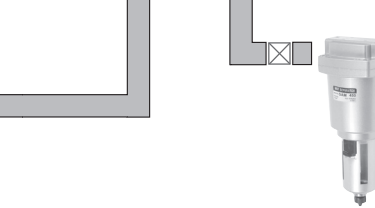
# Air Cleaning Equipment



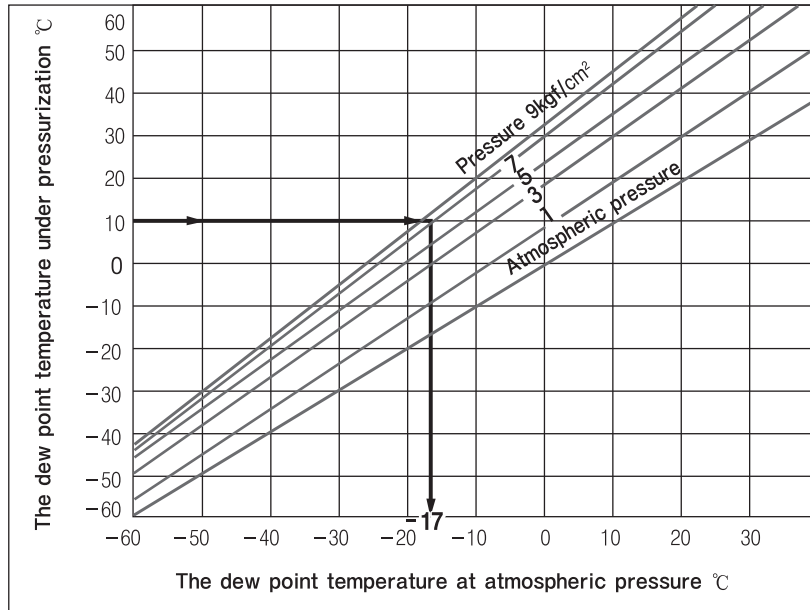
■ <b>SAMU</b> (Micro Separator Unit) .....	16
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# Selection Guide for Cleaning System

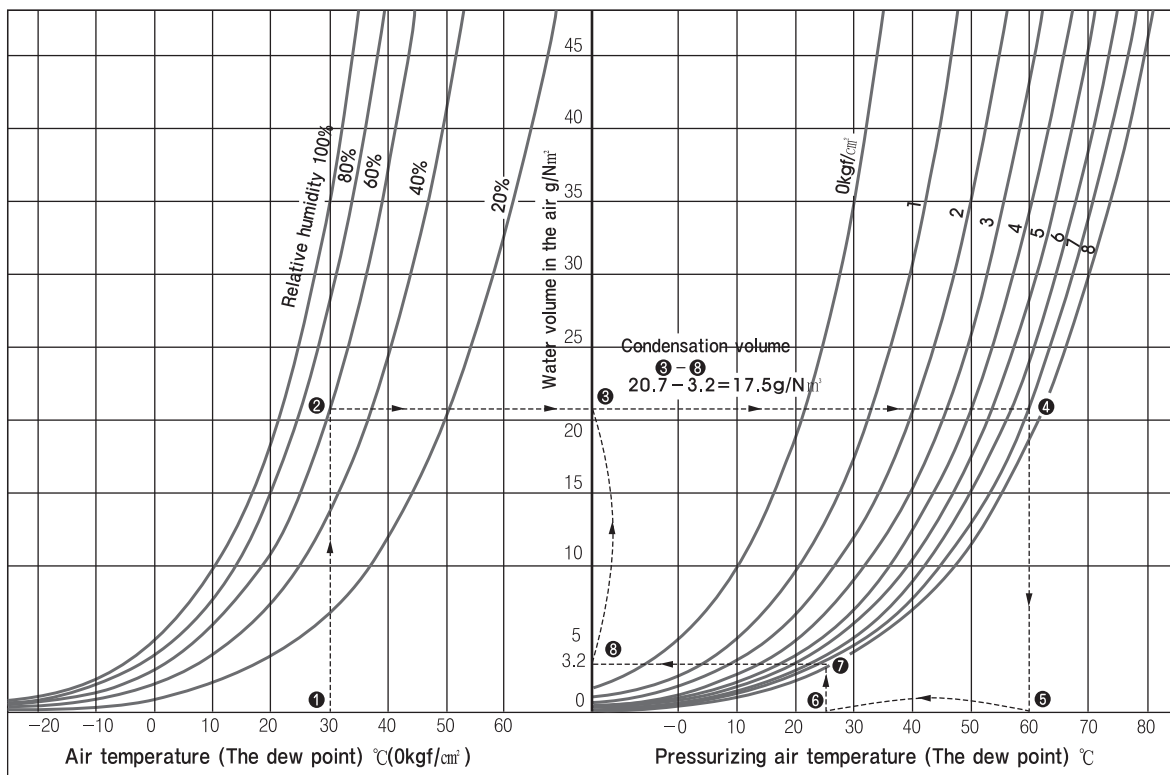


System	Quality of compressed air	Impurities in compressed air				Application	
		Moisture	Solid	Oil	Smell		
 <p><b>SAF Series</b></p>	<b>Air filter</b>	Including some moisture, oil and dust	Humidity 100%	5µm etc. 2, 10, 20, 40, 70, 100	5 mgf/Nm <sup>3</sup>	Oily	<ul style="list-style-type: none"> <li>• General industrial automatic equipments</li> <li>• Air vise, Chuck</li> <li>• Usual cleaning system ( Air gun etc.)</li> </ul>
 <p><b>SAD402 (AutoDrain valve)</b> <b>SAM Series</b></p>	<b>Mist separator</b>	Including some moisture generated by temperature drop. Excluding dust and oil	Humidity 100%	0.1 µm	1 mgf/Nm <sup>3</sup>	Oily	<ul style="list-style-type: none"> <li>• General industrial machinery (Metal seal of operating parts)</li> <li>• Industrial robots.</li> </ul>
 <p><b>SAF Series</b></p>	<b>Air filter</b>	Including some dust and oil. Excluding moisture.	Less than -17°C of the dew point at the atmospheric pressure	5µm etc. 2, 10, 20, 40, 70, 100	5 mgf/Nm <sup>3</sup> (ANR)	Oily	<ul style="list-style-type: none"> <li>• General industrial automatic equipments</li> <li>• Air vise, Chuck</li> <li>• Usual cleaning system ( Air gun etc.)</li> </ul>
 <p><b>SAM Series</b></p>	<b>Mist separator</b>	Excluding moisture, oil and dust	Less than -17°C of the dew point at the atmospheric pressure	0.1 µm	1 mgf/Nm <sup>3</sup> (ANR)	Oily	<ul style="list-style-type: none"> <li>• System process</li> <li>• Usual painting</li> <li>• Usual freezing and drying equipments</li> </ul>
 <p><b>Air Tank</b> <b>SAM &amp; SAMD Series</b></p>	<b>Mist separator</b> <b>Micro mist separator</b>	Complete excluding moisture, oil and dust	Less than -17°C of the dew point at the atmospheric pressure	0.01 µm	0.01 mgf/Nm <sup>3</sup> (ANR)	Oily	<ul style="list-style-type: none"> <li>• Air type instruments</li> <li>• Precision parts of drying and cleaning equipments</li> </ul>
 <p><b>SAM &amp; SAMH Series</b></p>	<b>Mist separator</b> <b>Free filter micro mist separator</b>	Sufficient excluding moisture, oil and dust	Less than -17°C of the dew point at the atmospheric pressure	0.01 µm	0.01 mgf/Nm <sup>3</sup> (ANR)	Oily	<ul style="list-style-type: none"> <li>• Electrostatic painting</li> <li>• High qualified painting</li> <li>• Air bearing</li> </ul>

## 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/Nm<sup>2</sup> of the moisture volume.(③)
- The dew point of air will be 60°C after condensation damp air up to 7kgf/cm<sup>2</sup>(①→②→③→④→⑤)
- The moisture volume will be 17.5g/Nm<sup>2</sup> after cooling the damp air up to 25°C.(⑥→⑦→⑧→③)
- Therefore in case of 3Nm<sup>2</sup>/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 - 04 DG - MeP - S**

① Micro Separator Unit

② Body Size •

150 - 1/8  
250 - 1/4  
350 - 1/2  
450 - 3/4  
550 - 1

③ Thread type •

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

④ 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					●

⑤ 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

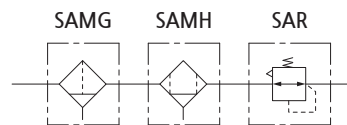
⑥ Case •

Nil - PC bowl  
MeP - Metal bowl with pipe type sight glass  
MeF - Metal bowl with flat 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

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

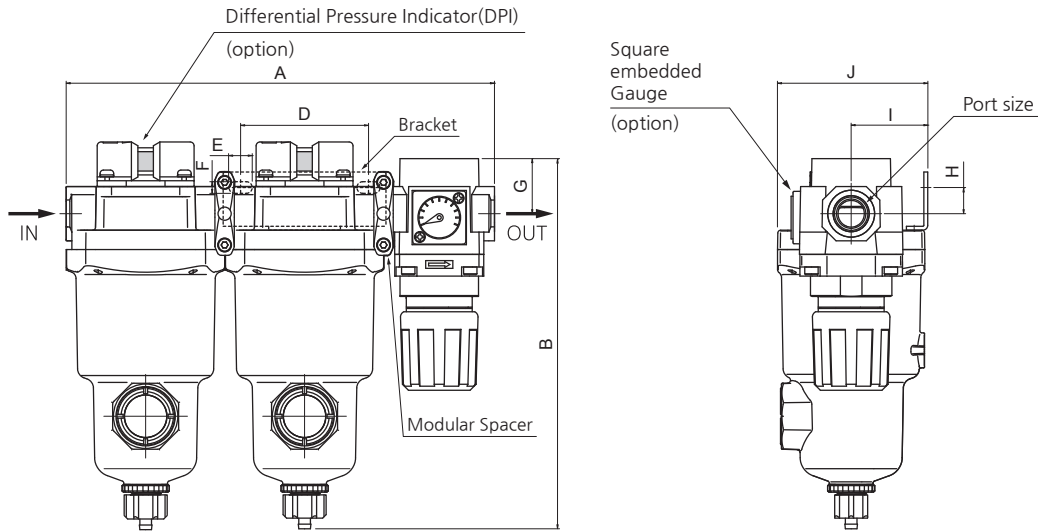
### Precautions

- 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.

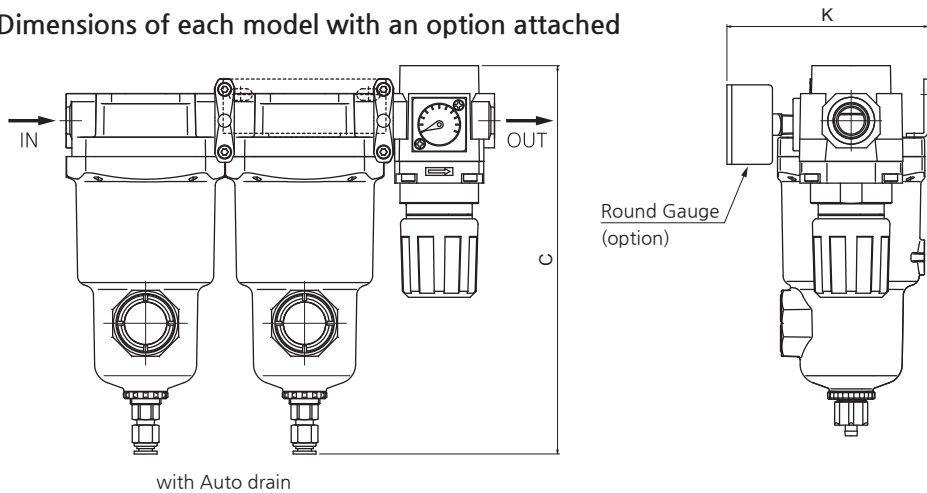
# Micro Separator Unit

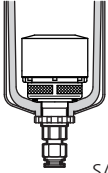


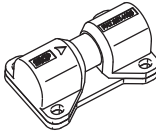
## DIMENSIONS (mm)

### 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	
Model	 SAD400	 G40, R1/8	 Gs28	

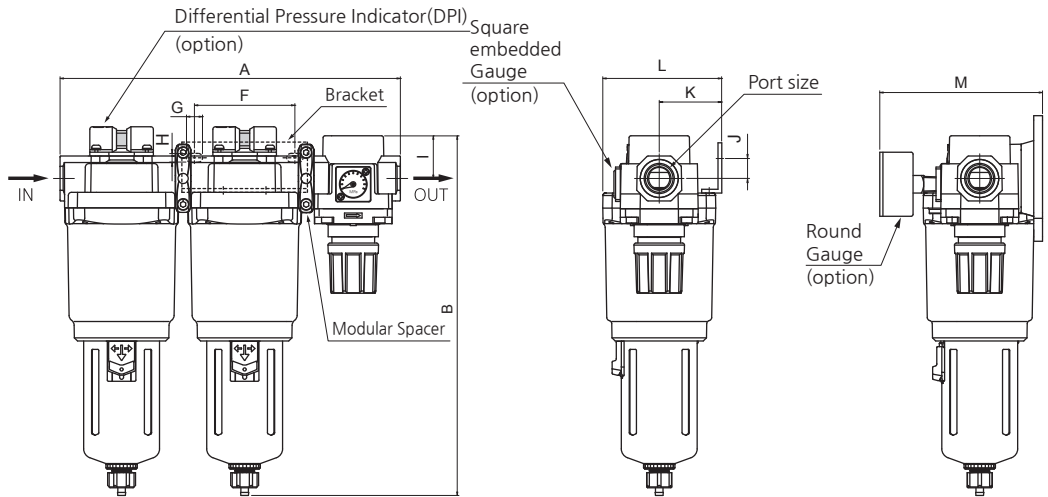
Model	Port size	A	B	C	D	E	F	G	H	I	J	K
SAMU150	1/4	177	178	185	56	9	5.5	28	14.7	35	66.5	95
SAMU250	3/8	221	191	198	66	12	6	28.4	13.5	39.5	77.5	103

- SAMU
- SAMG
- SAFL
- SAM
- SAMD
- SAMH
- SAD402
- BRACKET
- CAUTION

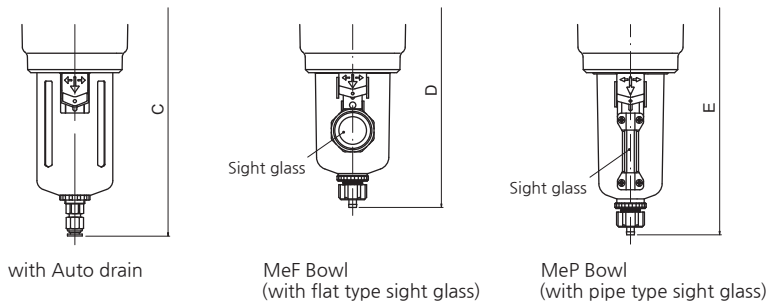
# Series SAMU

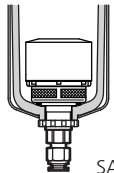


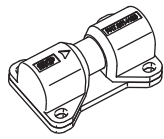
## DIMENSIONS (mm)

### SAMU 350~550



■ Dimensions of each model with an option attached

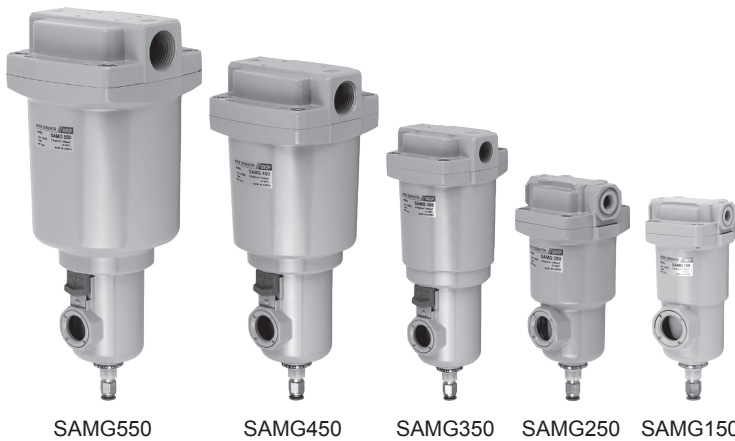


Option	D : Auto Drain	Gauge		S : Differential Pressure Indicator
		G : Round type	Gs : Square embedded type	
Model	 SAD400	 G50, R1/4	 Gs28	

Model	Port size	A	B	C	D	E	F	G	H	I	J	K	L	M
SAMU350	1/2	271	287	294	268	292	80	13	7	34	15.9	50	95	129
SAMU450	3/4	301	307	314	288	312	90	14	9	34.5	16.3	56.2	109.5	136
SAMU550	3/4, 1	351	351	358	332	352	100	17.6	9	42.7	20.8	64.5	125	148

# Water Separator (SAMG)

## SAMG150~850 Series



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

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

SAMU
SAMG
SAFL
SAM
SAMD
SAMH
SAD402
BRACKET
CAUTION

### 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

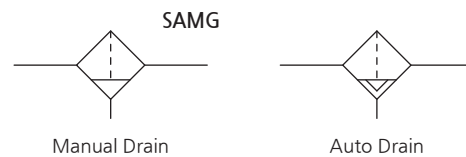
Symbol	Drain connector	Material
D	One-touch fitting(Φ6mm)	Acetal
Dn	Nipple(PT 1/8)	Brass

- ⑥ **Bowl**
  - Nil - PC bowl
  - MeP - Metal bowl with pipe type sight glass
  - MeF - Metal bowl with flat 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
Removal rate of water	99%
Life of element	When pressure drop reached at 1bar

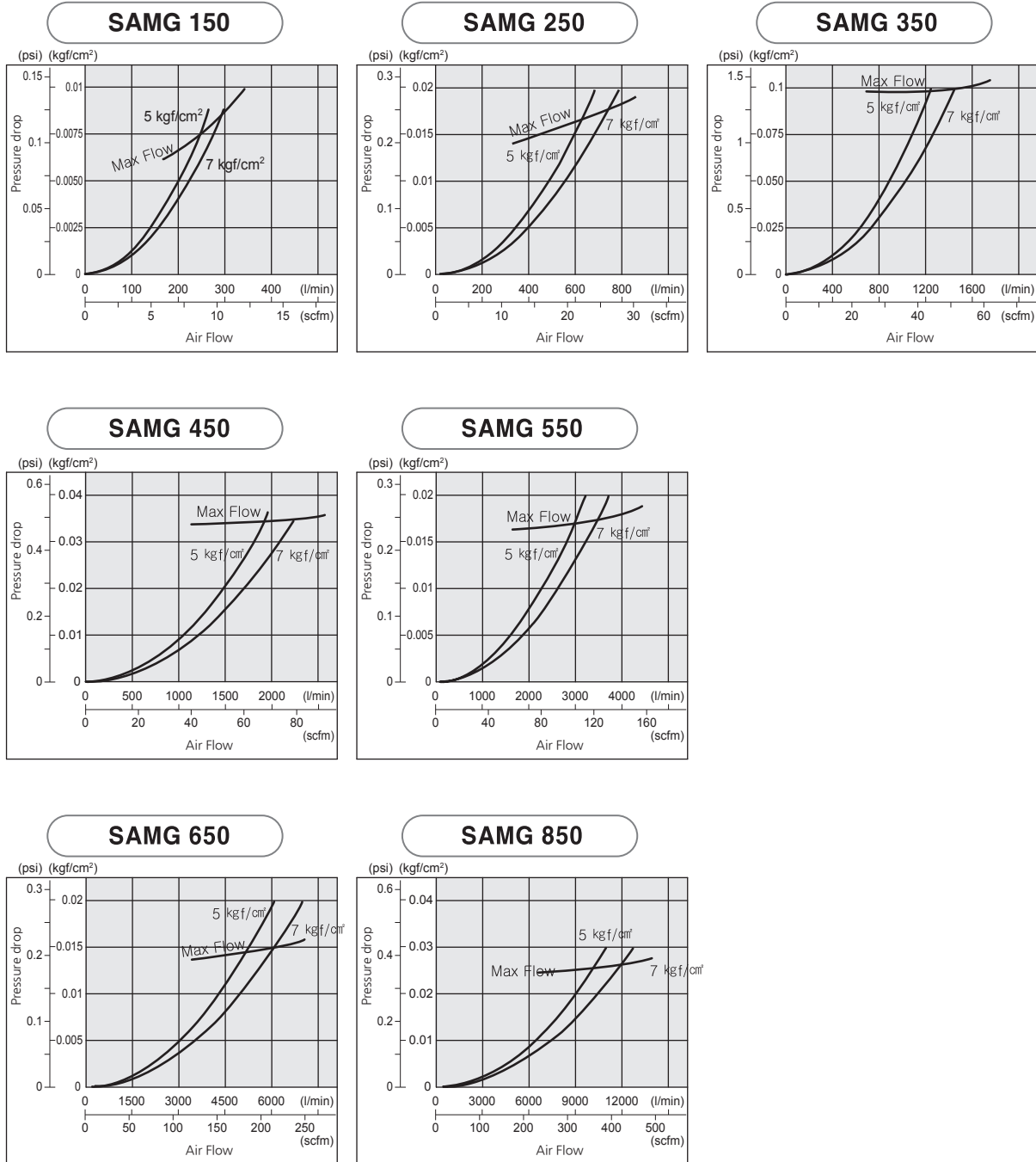
### Precautions

- 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.

# Series SAMG

## FLOW CHARACTERISTICS

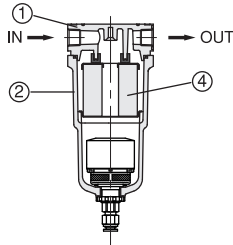
Note : If compressed air is above max. flow, water separator cannot operate well.



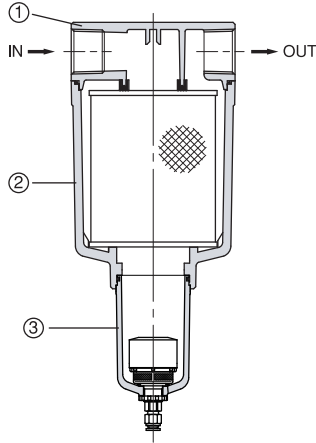
# Water Separator

## STRUCTURE / PARTS

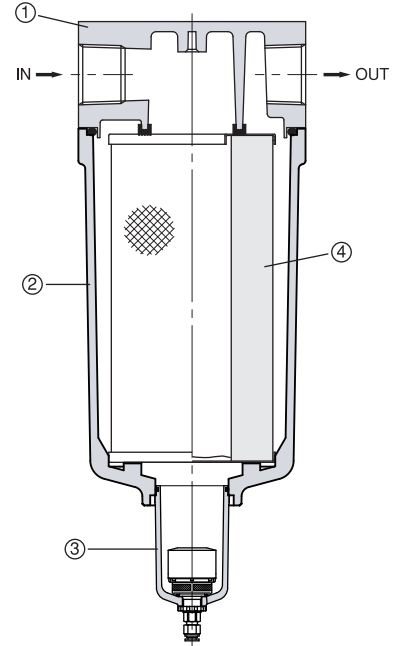
**SAMG 150~250**



**SAMG 350~650**



**SAMG 850**



- SAMU
- SAMG**
- SAFL
- SAM
- SAMD
- SAMH
- SAD402
- BRACKET
- CAUTION

### Component Parts

No.	PARTS	MATERIAL
①	Body	ALDC
②	Housing	ALDC
③	Bowl Ass'y	PC + Guard
		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

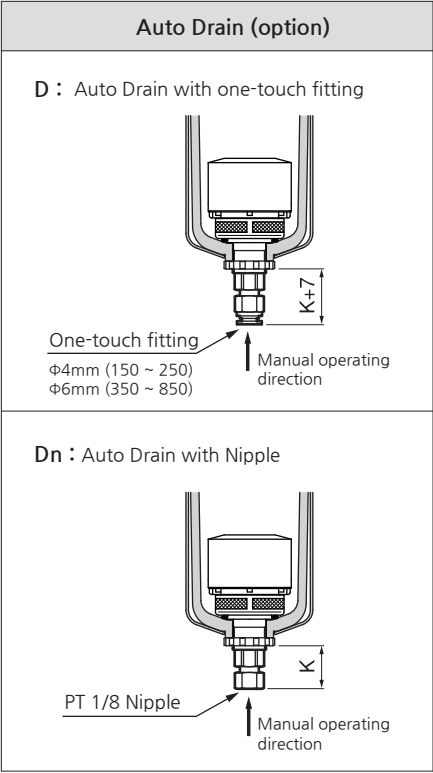
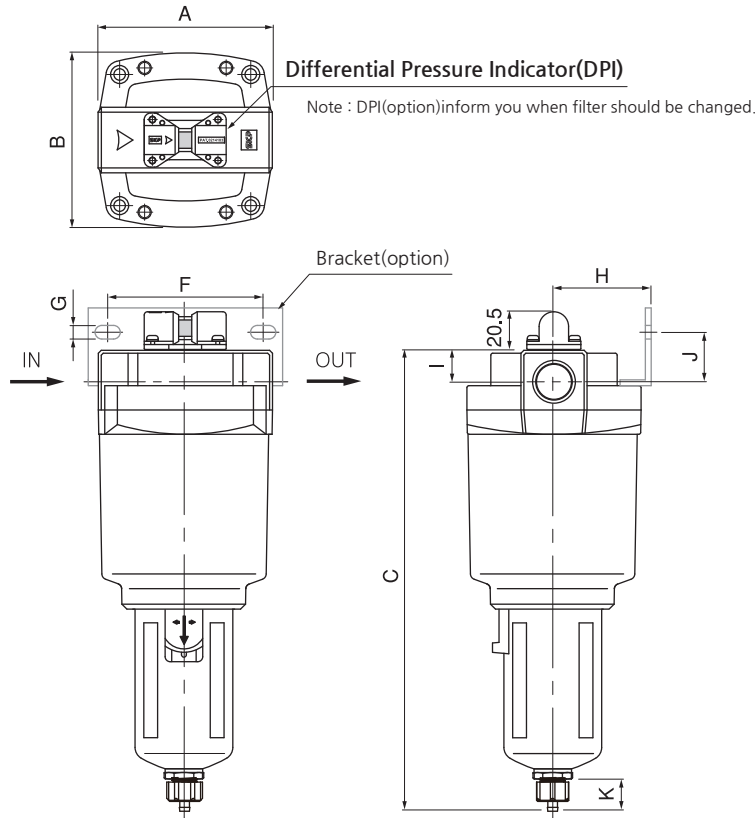
### Sectional drawing (SAMG Filter)

- 1) Porous Plastic Coalescing Stage**
  - Oleophilic Porous Plastic core.
  - In addition to removing particulates down to 40 $\mu$ m.
- 2) Water Catch Mesh Media**
  - Water aerosol catch coat mesh.
- 3) Water Catch Fiber**
  - Water aerosol catch Fiber.
- 4) HydroPhilic Laminated Glass Stage**
  - Water or Oil catch Fiber (13 $\mu$ m).
  - Remove oil and water aerosol from process air or gas.
- 5) Drain Layer**
  - Non-wetting fiber drain layer.
- 6) Porous Plastic Coalescing Stage**
  - In addition to removing particulates down to 40 $\mu$ m.
- 7) Coated Mesh**

# Series SAMG

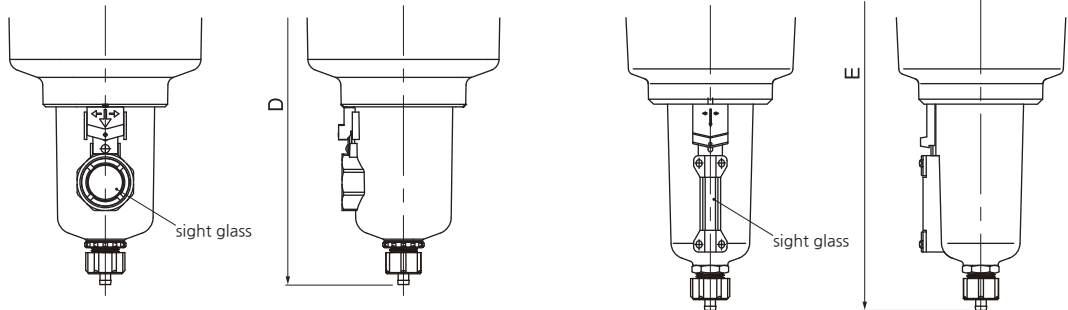
## DIMENSIONS (mm)

### SAMG 150~850



• MeF - Metal Bowl with flat type sight glass

• 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)			F	G	H	I	J
				C	D(MeF)	E(MeP)					
SAMG 150	1/8, 1/4	67	63	-	160	-	56	5.5	35	10.5	14.5
SAMG 250	1/4	76	76	-	177	-	66	6	40	13	20
SAMG 350	3/8, 1/2	90	90	250	217	252	80	7	50	16	22
SAMG 450	3/4	106	106	283	250	285	90	9	55	19	25
SAMG 550	3/4, 1	122	122	320	287	322	100	9	65	22	30
SAMG 650	1 1/2	160	160	378	342	382	150	13	93	32	27
SAMG 850	1 1/2, 2	180	180	507	474	509	150	13	100	42	30

# 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.

SAMU
SAMG
<b>SAFL</b>
SAM
SAMD
SAMH
SAD402
BRACKET
CAUTION

### 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 - PC bowl
  - MeP - Metal bowl with pipe type sight glass
  - MeF - Metal bowl with flat 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	1µm (Filtration efficiency: 99%)
Life of element	When pressure drop reached at 1bar

### Precautions

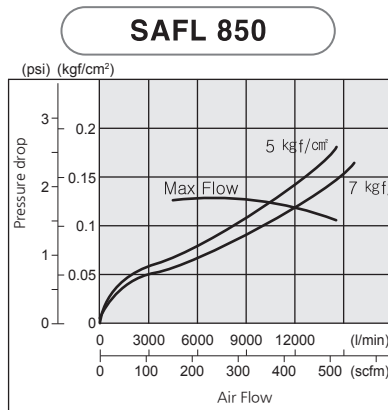
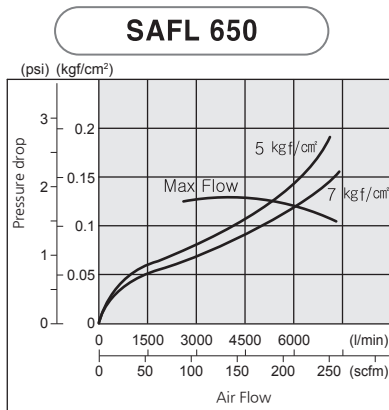
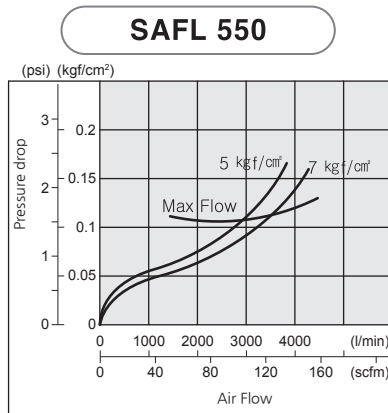
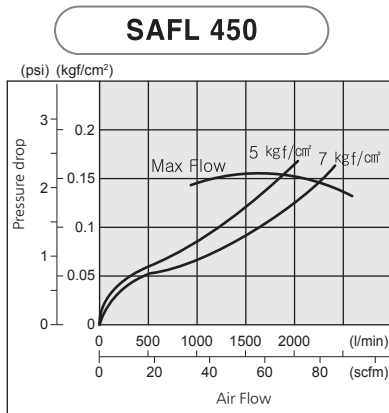
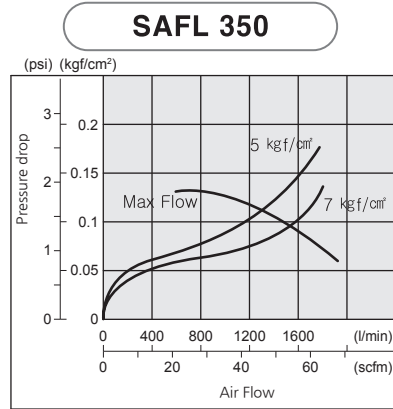
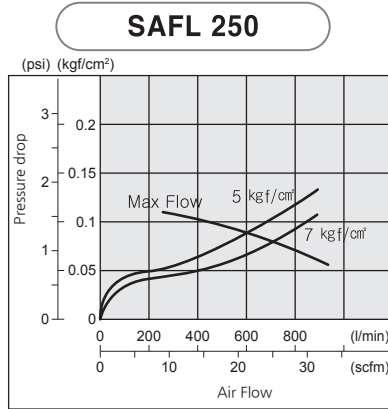
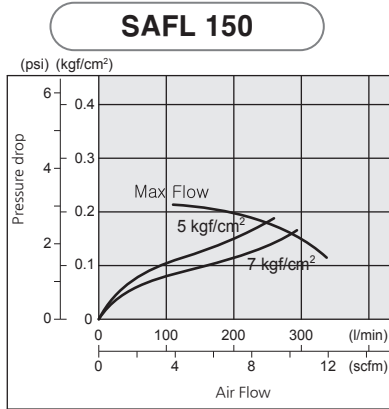
- Filter element should be changed after 2years of use or when pressure drop reached at 1bar(0.1MPa).
- When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- When auto drain is used it is recommended to use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



# Series SAFL

## FLOW CHARACTERISTICS Oil saturated state of element

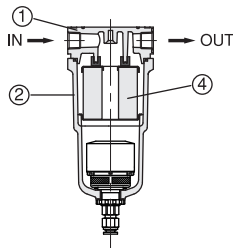
Note : If compressed air is above max. flow, main line filter cannot be operated well or element may be damaged.



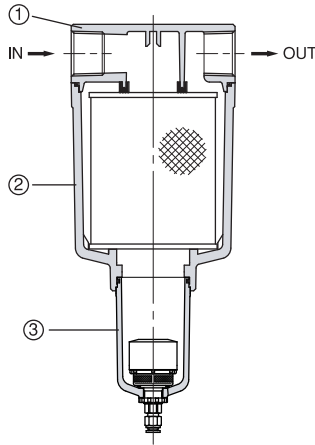
# Main Line Filter

## STRUCTURE / PARTS

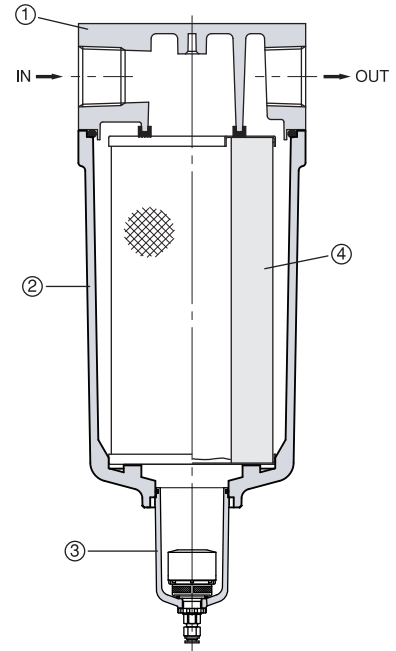
SAFL 150~250



SAFL 350~650



SAFL 850



### Component Parts

No.	PARTS	MATERIAL
①	Body	ALDC
②	Housing	ALDC
③	Bowl Ass'y	PC + Guard
		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)

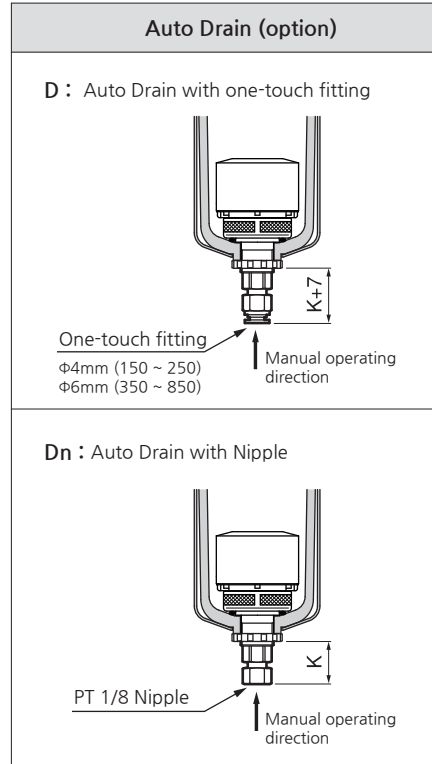
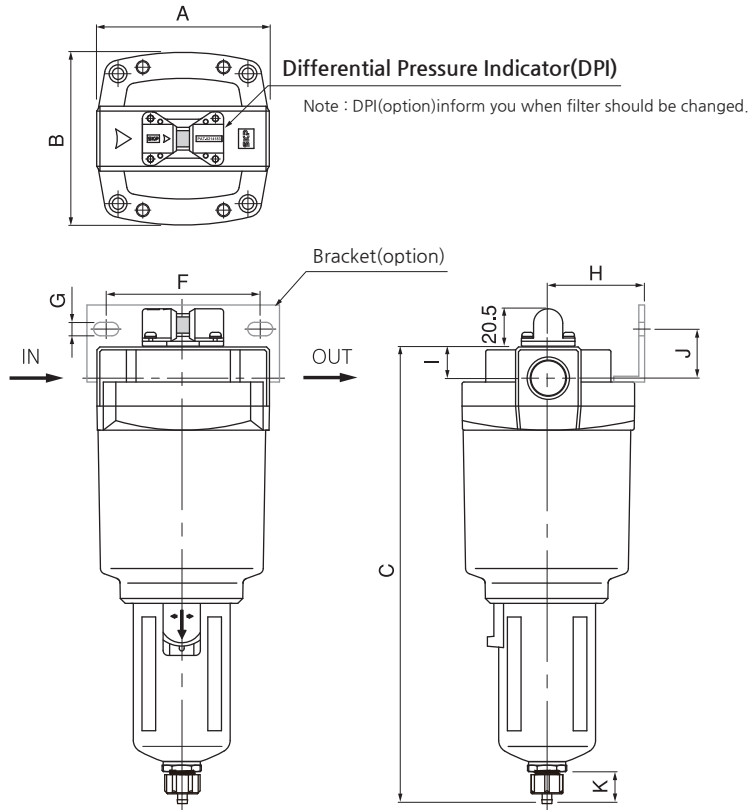
- 1) Porous Plastic Coalescing Stage**
  - Oleophilic Porous Plastic core.
  - In addition to removing particulates down to 40 $\mu$ m.
- 2) Remove Oil Media**
  - 0.3 $\mu$ m remove oil micro fiber media.
  - Coalescing element designed to remove oil and water aerosol from process air or gas.
- 3) Main Media**
  - Three element choices(0.01 $\mu$ m (AMD), 0.1 $\mu$ m (AM), 1 $\mu$ 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 $\mu$ m.
- 6) Coated Mesh**

- SAMU
- SAMG
- SAFL**
- SAM
- SAMD
- SAMH
- SAD402
- BRACKET
- CAUTION

# Series SAFL

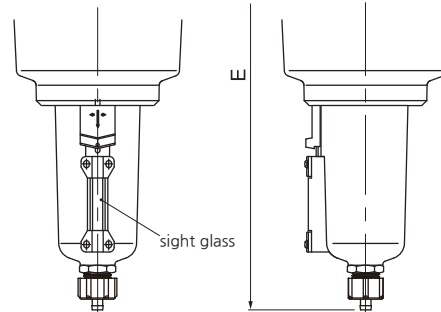
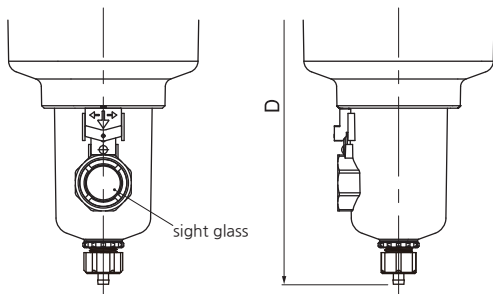
## DIMENSIONS (mm)

### SAFL 150~850



• MeF - Metal Bowl with flat type sight glass

• 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)			F	G	H	I	J
				C	D(MeF)	E(MeP)					
SAFL 150	1/8, 1/4	67	63	-	160	-	56	5.5	35	10.5	14.5
SAFL 250	1/4	76	76	-	177	-	66	6	40	13	20
SAFL 350	3/8, 1/2	90	90	250	217	252	80	7	50	16	22
SAFL 450	3/4	106	106	283	250	285	90	9	55	19	25
SAFL 550	3/4, 1	122	122	320	287	322	100	9	65	22	30
SAFL 650	1 1/2	160	160	378	342	382	150	13	93	32	27
SAFL 850	1 1/2, 2	180	180	507	474	509	150	13	100	42	30

# Mist Separator (SAM)

## SAM150~850 Series



SAM850



SAM550



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

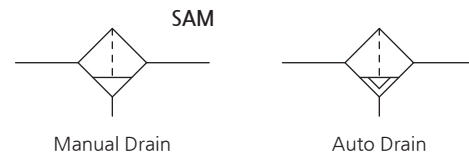
⑥ Bowl

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

⑦ Option

- Nil - None
- S - Differential Pressure Indicator

### Symbol



### Specification

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

### 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.

SAMU

SAMG

SAFL

SAM

SAMD

SAMH

SAD402

BRACKET

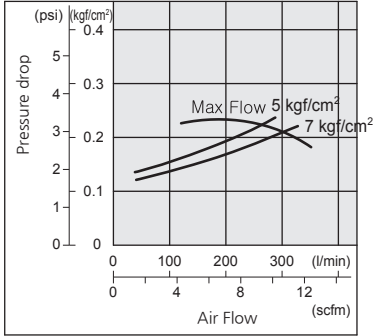
CAUTION

# Series SAM

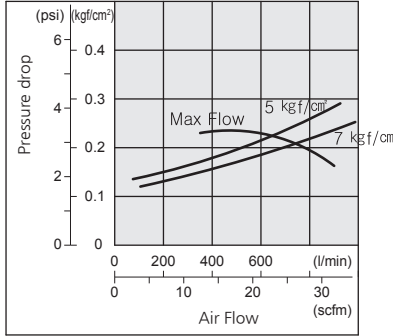
## FLOW CHARACTERISTICS Oil saturated state of element

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

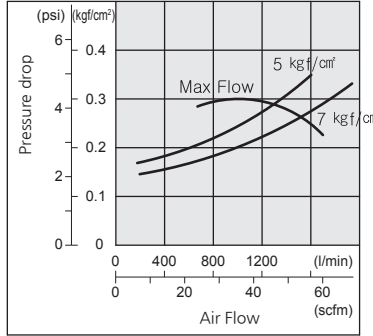
**SAM 150**



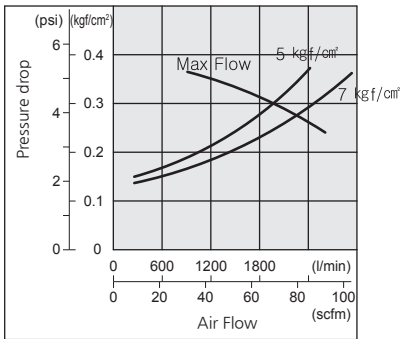
**SAM 250**



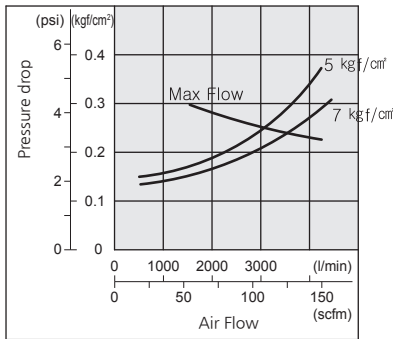
**SAM 350**



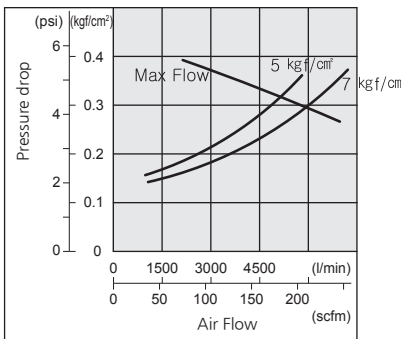
**SAM 450**



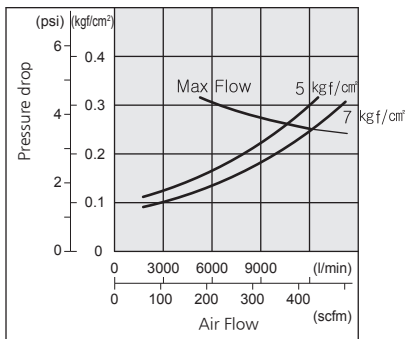
**SAM 550**



**SAM 650**

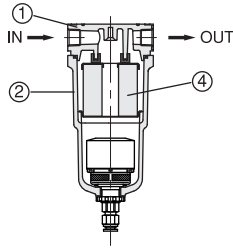


**SAM 850**

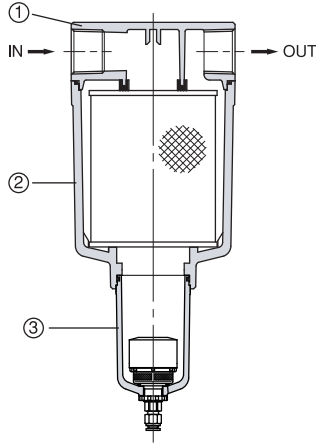


## STRUCTURE / PARTS

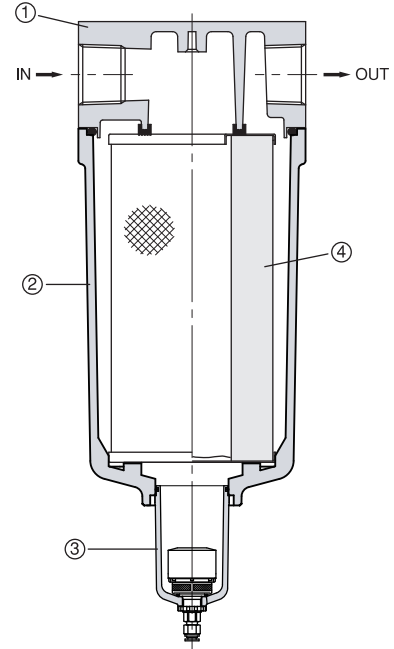
**SAM 150~250**



**SAM 350~650**



**SAM 850**



■ Component Parts

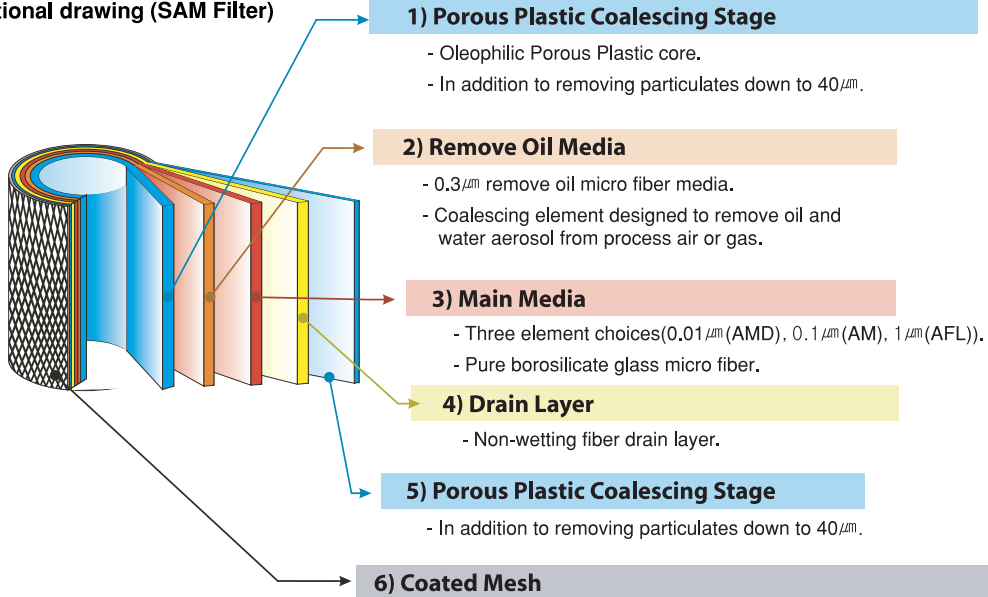
No.	PARTS	MATERIAL
①	Body	ALDC
②	Housing	ALDC
③	Bowl Ass'y	PC + Guard
		ALDC( MeP type)
		ALDC( MeF type)

■ 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)

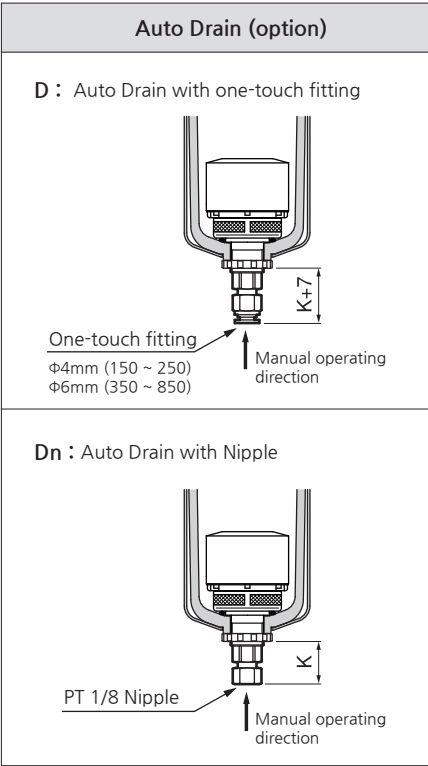
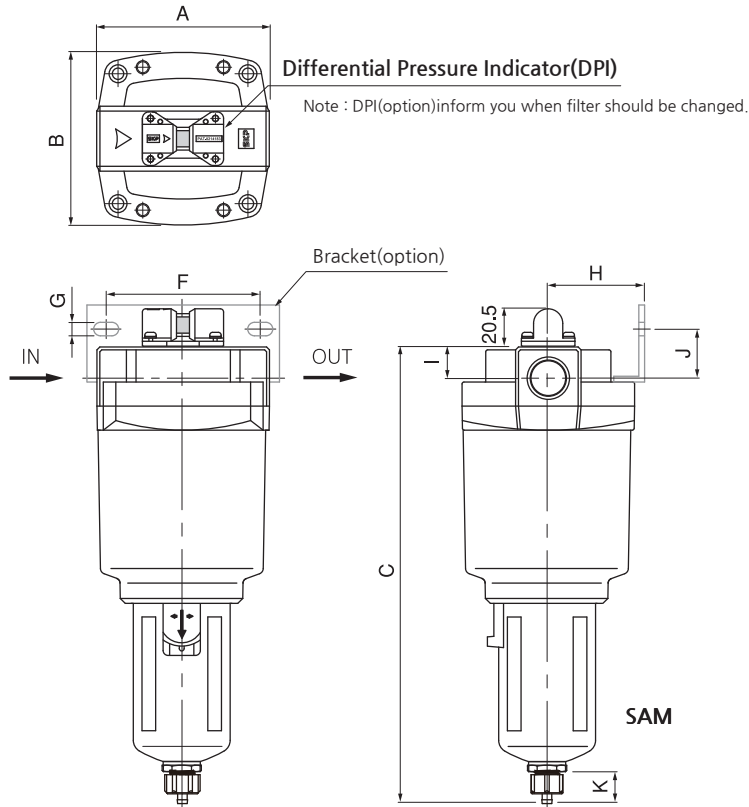


- SAMU
- SAMG
- SAFL
- SAM**
- SAMD
- SAMH
- SAD402
- BRACKET
- CAUTION

# Series SAM

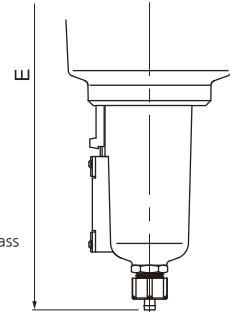
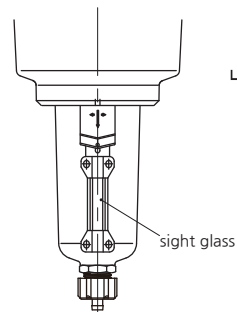
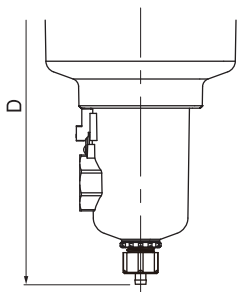
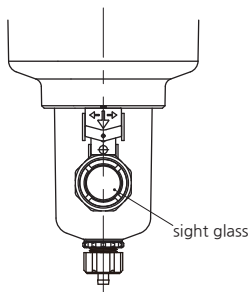
## DIMENSIONS (mm)

### SAM 150~850



• **MeF** - Metal Bowl with flat type sight glass

• **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)			F	G	H	I	J
				C	D(MeF)	E(MeP)					
SAM 150	1/8, 1/4	67	63	-	160	-	56	5.5	35	10.5	14.5
SAM 250	1/4	76	76	-	177	-	66	6	40	13	20
SAM 350	3/8, 1/2	90	90	250	217	252	80	7	50	16	22
SAM 450	3/4	106	106	283	250	285	90	9	55	19	25
SAM 550	3/4, 1	122	122	320	287	322	100	9	65	22	30
SAM 650	1 1/2	160	160	378	342	382	150	13	93	32	27
SAM 850	1 1/2, 2	180	180	507	474	509	150	13	100	42	30

# Micro Mist Separator (SAMD)

## SAMD150~850 Series



SAMD650



SAMD350



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

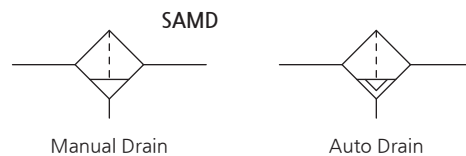
⑥ Bowl

- Nil - PC bowl
  - MeP - Metal bowl with pipe type sight glass
  - MeF - Metal bowl with flat 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	0.01µm (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.

SAMU

SAMG

SAFL

SAM

SAMD

SAMH

SAD402

BRACKET

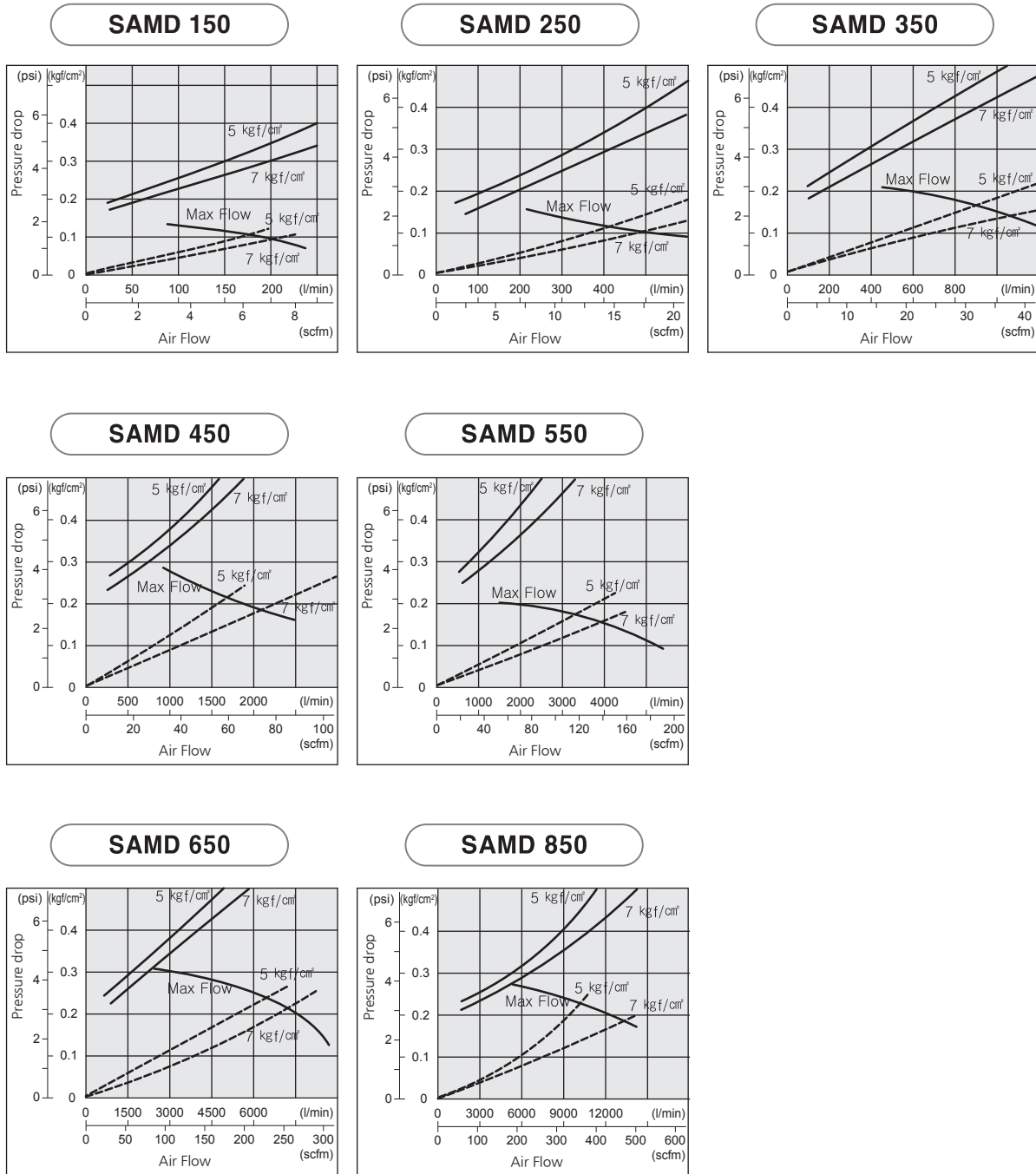
CAUTION



# Series SAMD

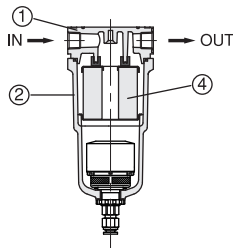
## FLOW CHARACTERISTICS ( — Element oil saturation    - - - - Initial condition )

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.

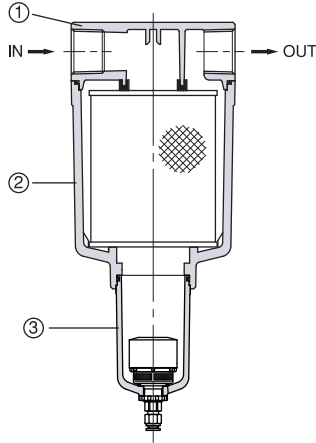


## STRUCTURE / PARTS

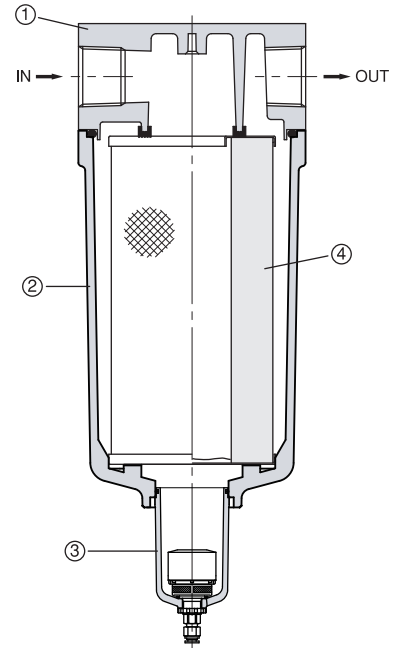
**SAMD 150~250**



**SAMD 350~650**



**SAMD 850**



- SAMU
- SAMG
- SAFL
- SAM
- SAMD**
- SAMH
- SAD402
- BRACKET
- CAUTION

■ **Component Parts**

No.	PARTS	MATERIAL
①	Body	ALDC
②	Housing	ALDC
③	Bowl Ass'y	PC + Guard
		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

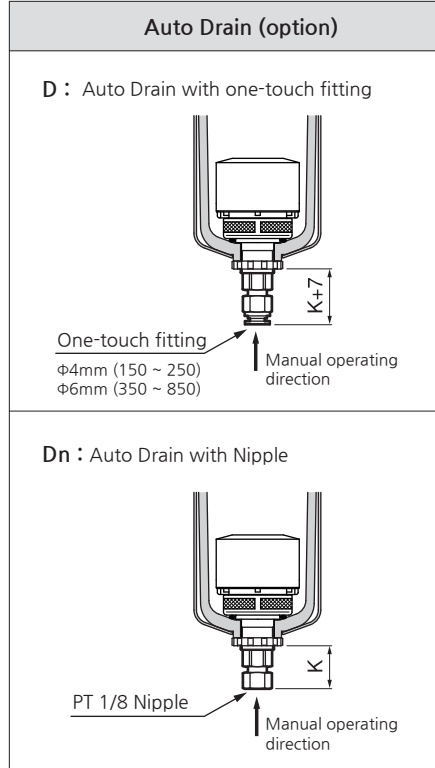
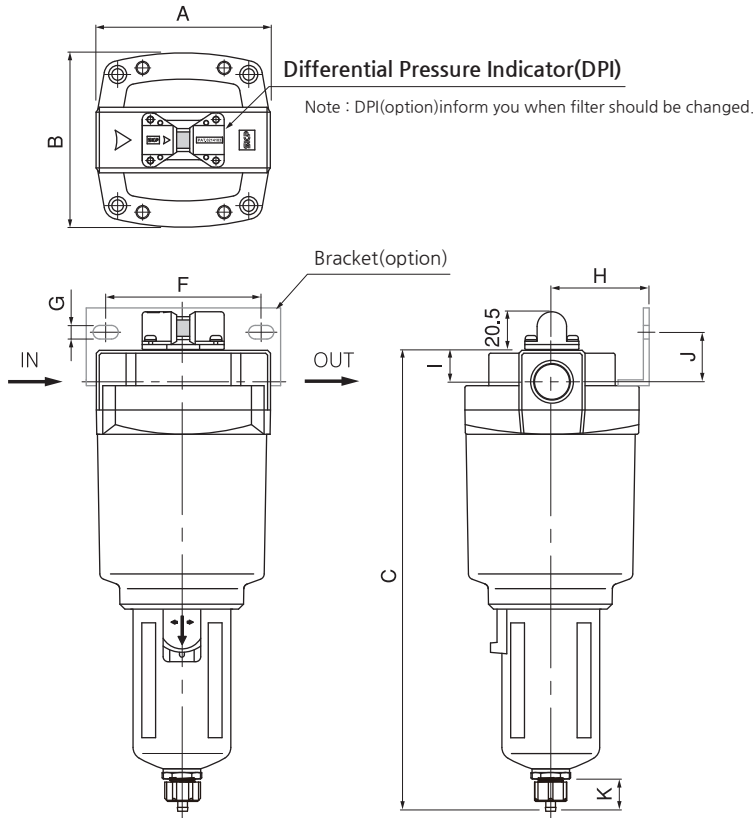
■ **Sectional drawing (SAMD Filter)**

- 1) Porous Plastic Coalescing Stage**
  - Oleophilic Porous Plastic core.
  - In addition to removing particulates down to 40 $\mu$ m.
- 2) Remove Oil Media**
  - 0.3 $\mu$ 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 $\mu$ m (AMD), 0.1 $\mu$ m (AM), 1 $\mu$ 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 $\mu$ m.
- 6) Coated Mesh**

# Series SAMD

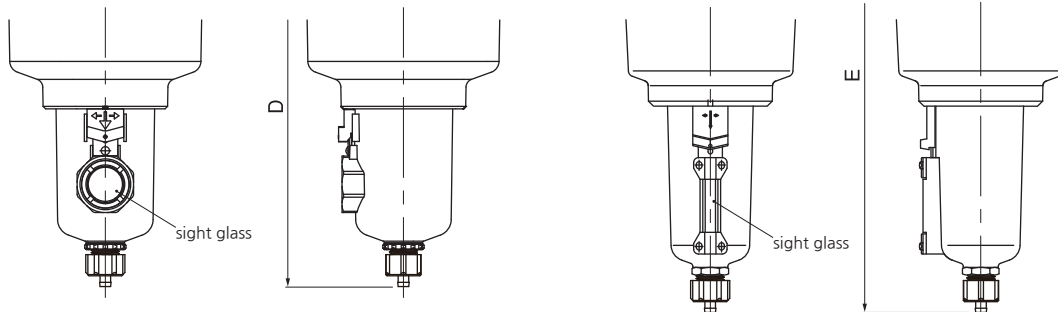
## DIMENSIONS (mm)

### SAMD 150~850



• MeF - Metal Bowl with flat type sight glass

• 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)			F	G	H	I	J
				C	D(MeF)	E(MeP)					
SAMD 150	1/8, 1/4	67	63	-	160	-	56	5.5	35	10.5	14.5
SAMD 250	1/4	76	76	-	177	-	66	6	40	13	20
SAMD 350	3/8, 1/2	90	90	250	217	252	80	7	50	16	22
SAMD 450	3/4	106	106	283	250	285	90	9	55	19	25
SAMD 550	3/4, 1	122	122	320	287	322	100	9	65	22	30
SAMD 650	1 1/2	160	160	378	342	382	150	13	93	32	27
SAMD 850	1 1/2, 2	180	180	507	474	509	150	13	100	42	30

# Micro Mist Separator with Prefilter (SAMH)

## SAMH150~850 Series



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

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

- SAMU
- SAMG
- SAFL
- SAM
- SAMD
- SAMH**
- SAD402
- BRACKET
- CAUTION

### 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

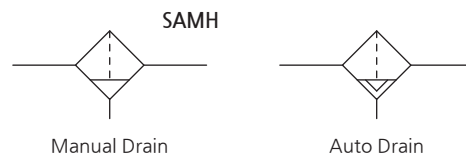
⑥ **Bowl**

- Nil - PC bowl
  - MeP - Metal bowl with pipe type sight glass
  - MeF - Metal bowl with flat 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
Filteration	0.1µm + 0.01µm
Life of element	When pressure drop reached at 1bar

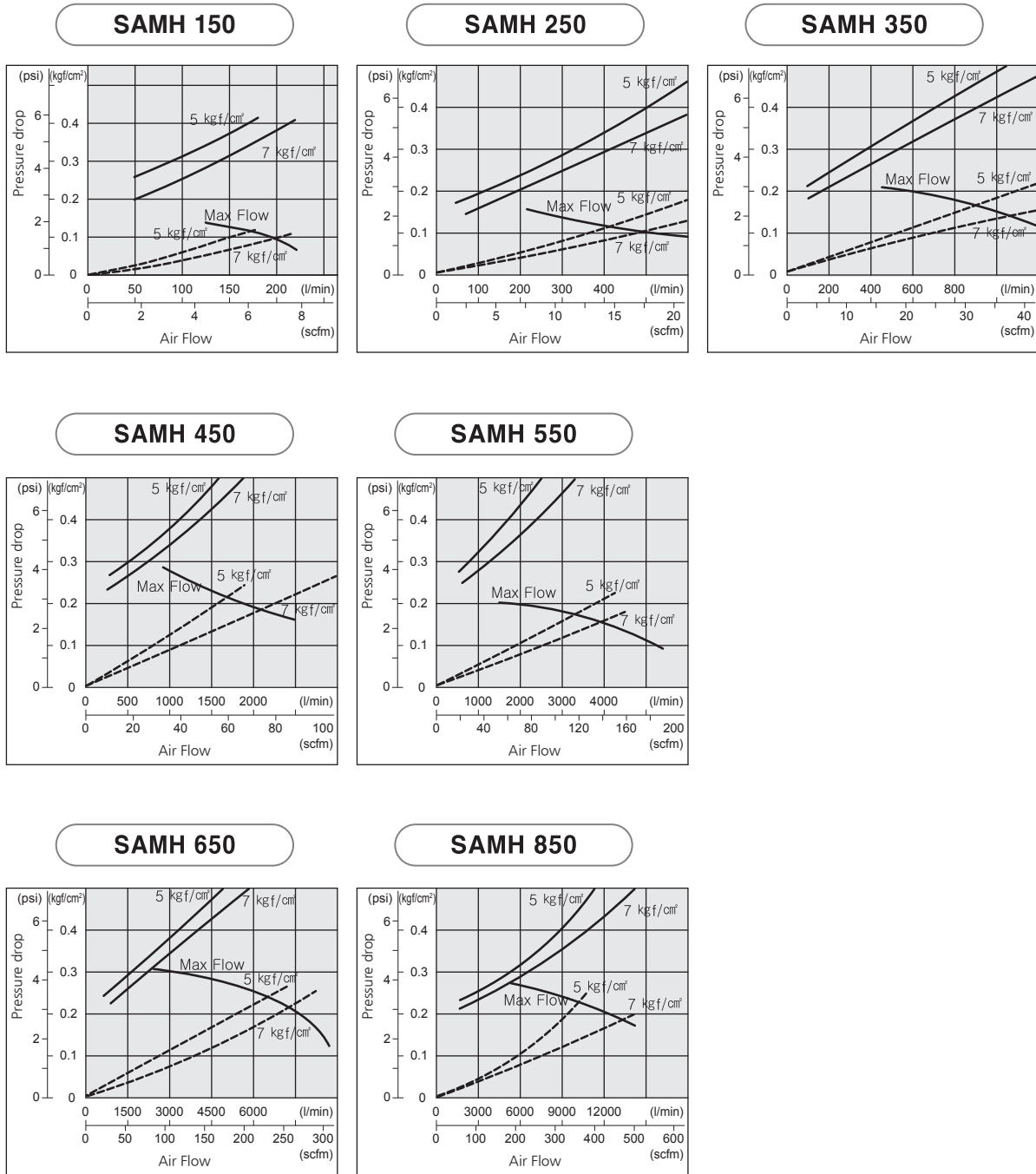
### Precautions

- 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)

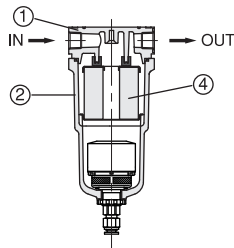
Note : Compressed air over max. flow line in the table below may not meet the specifications of the product. It may cause damage to the element.



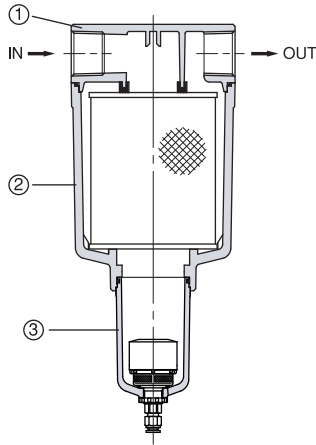
# Micro Mist Separator with Prefilter

## STRUCTURE / PARTS

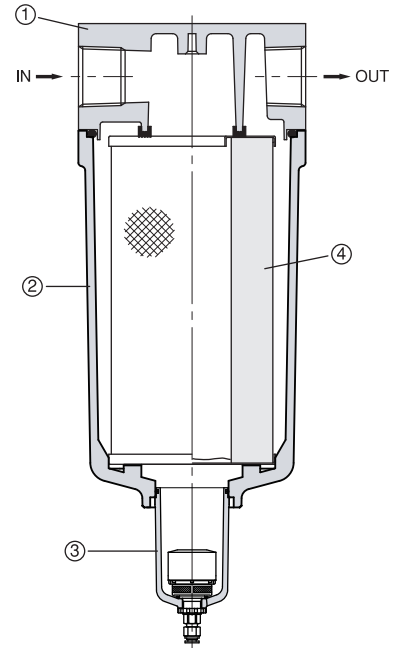
**SAMH 150~250**



**SAMH 350~650**



**SAMH 850**



- SAMU
- SAMG
- SAFL
- SAM
- SAMD
- SAMH**
- SAD402
- BRACKET
- CAUTION

### Component Parts

No.	PARTS	MATERIAL
①	Body	ALDC
②	Housing	ALDC
③	Bowl Ass'y	PC + Guard
		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

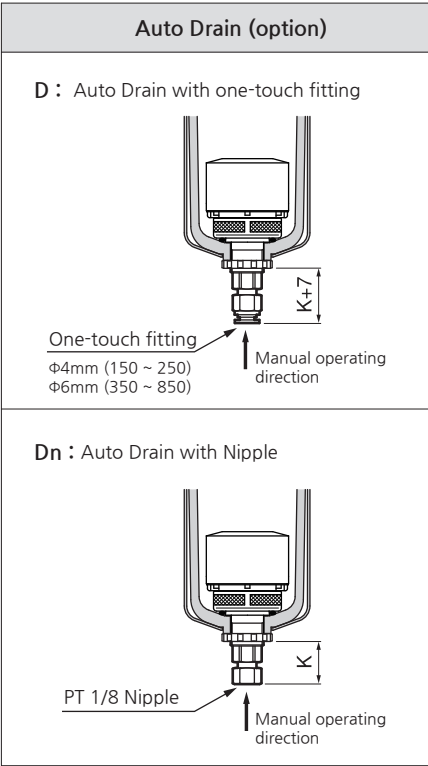
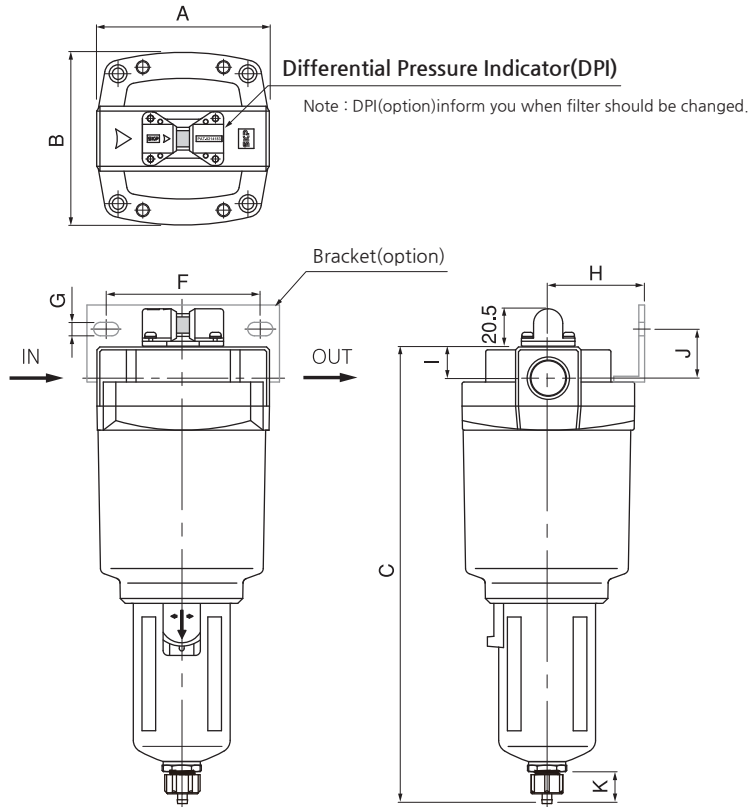
### Sectional drawing (SAMH Filter)

- 1) Porous Plastic Coalescing Stage**
  - Oleophilic Porous Plastic core.
  - In addition to removing particulates down to 40 $\mu$ m.
- 2) 0.1  $\mu$ m Main Media**
  - 0.1 $\mu$ m pure borosilicate glass micor fiber.
- 3) Remove Oil Media**
  - 0.3 $\mu$ 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  $\mu$ m Main Media**
  - 0.01 $\mu$ 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 $\mu$ m.
- 8) Coated Mesh**

# Series SAMH

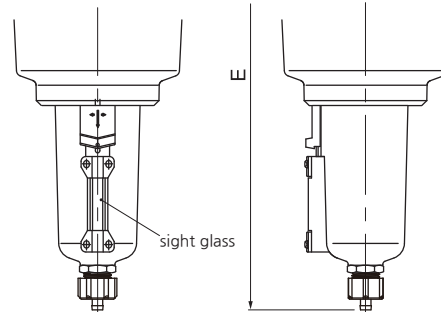
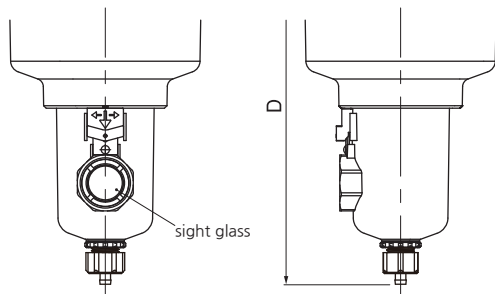
## DIMENSIONS (mm)

### SAMH 150~850



• MeF - Metal bowl with flat type sight glass

• MeP - Metal bowl with pipe type sight glass



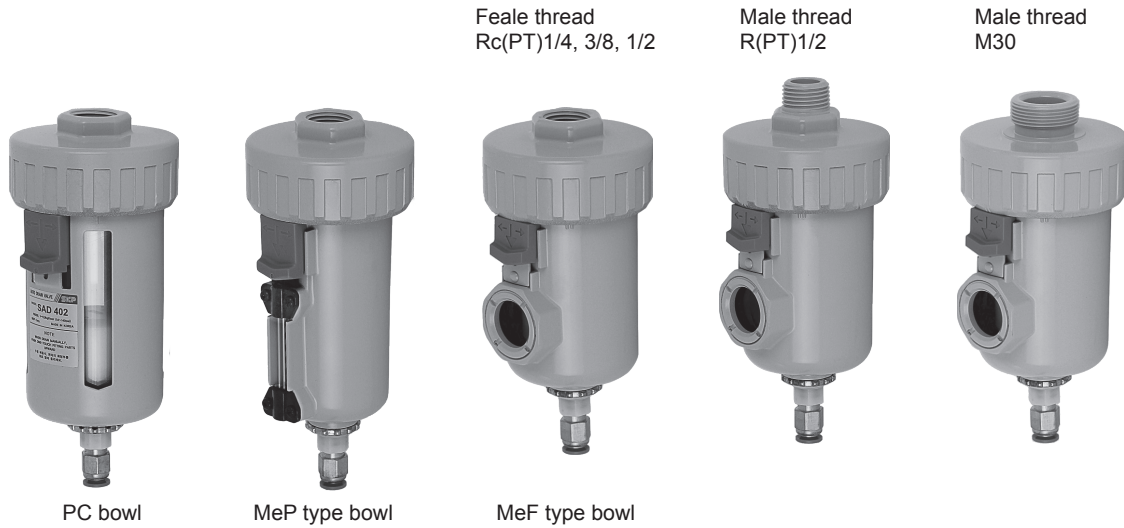
Note : 150 and 250 are the integral cover and bowl(MeF type)

Model	Port size	A	B	Height(manual drain)			F	G	H	I	J
				C	D(MeF)	E(MeP)					
SAMH 150	1/8, 1/4	67	63	-	160	-	56	5.5	35	10.5	14.5
SAMH 250	1/4	76	76	-	177	-	66	6	40	13	20
SAMH 350	3/8, 1/2	90	90	250	217	252	80	7	50	16	22
SAMH 450	3/4	106	106	283	250	285	90	9	55	19	25
SAMH 550	3/4, 1	122	122	320	287	322	100	9	65	22	30
SAMH 650	1 1/2	160	160	378	342	382	150	13	93	32	27
SAMH 850	1 1/2, 2	180	180	507	474	509	150	13	100	42	30

# 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.



SAMU

SAMG

SAFL

SAM

SAMD

SAMH

SAD402

BRACKET

CAUTION

### How to order

**SAD 402 - 04 D - MeP**

① Auto drain Valve

② Female thread type

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

③ Thread type

02 - 1/4  
03 - 3/8  
04 - 1/2  
R04 - 1/2 male thread  
M30 - M30 male thread

④ Drain connector

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

⑤ Bowl

Nil - PC bowl  
MeP - Metal bowl with pipe type sight glass  
MeF - Metal bowl with flat type sight glass

### Symbol



### Specification

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

### Precautions

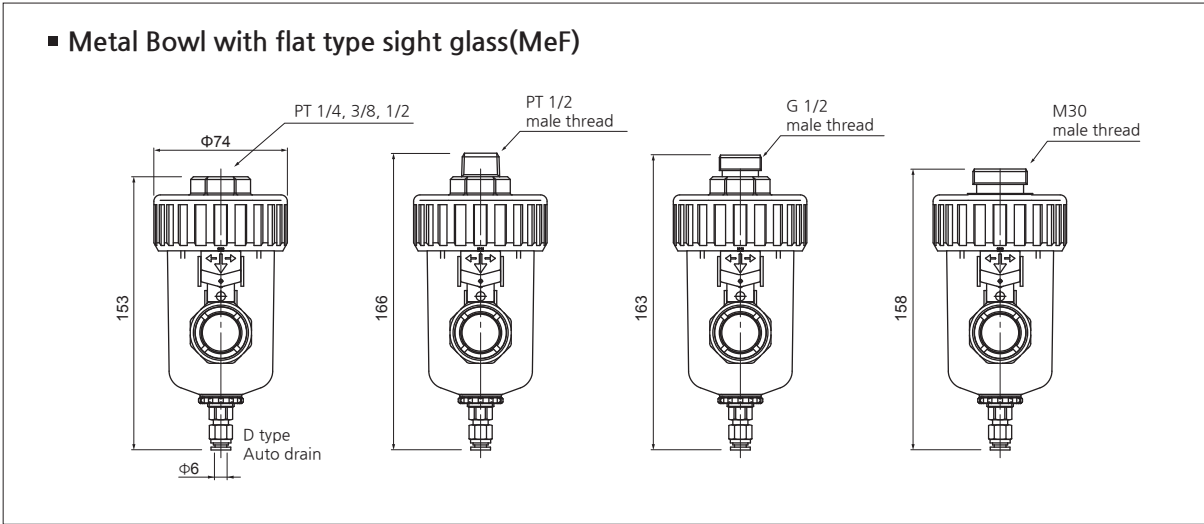
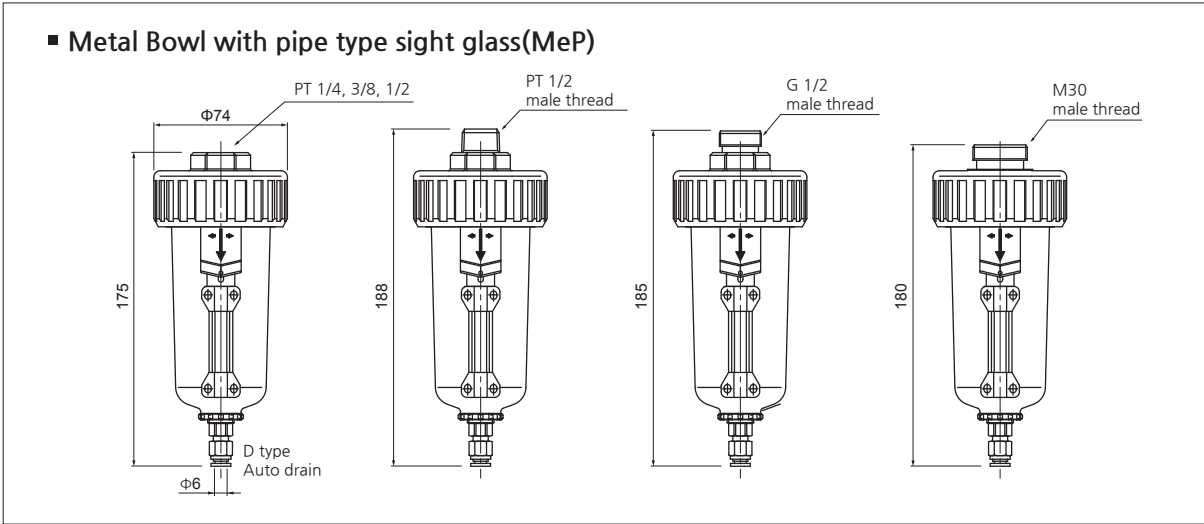
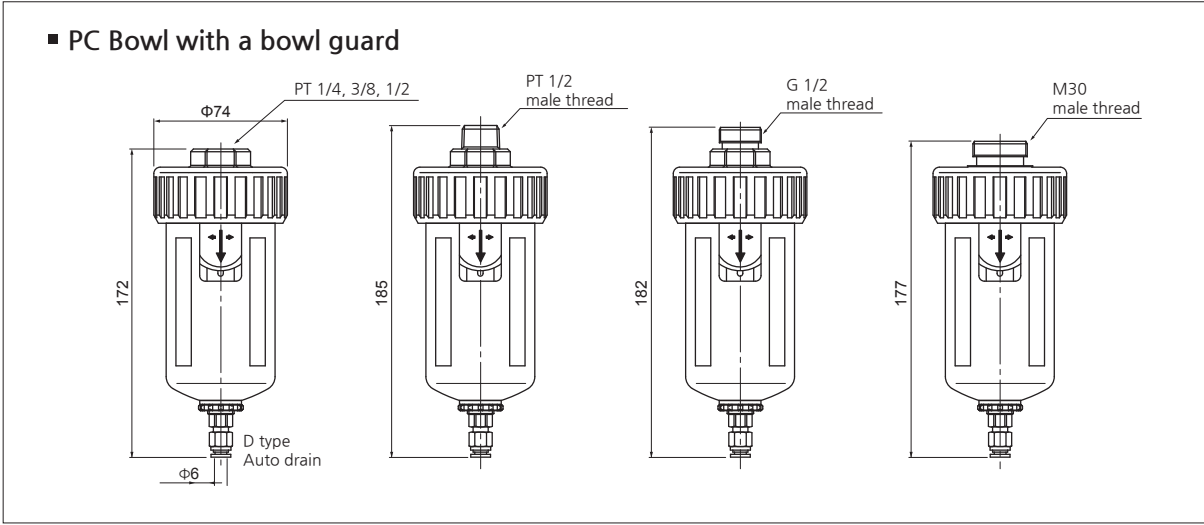
- ① Drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- ② The drainage hose installed should be straight.
- ③ When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.
- ④ When auto drain is used it is recommended to use at least 1.5bar pressure.
- ⑤ Please consult with SKP when using the product in applications other than compressed air.



# Series SAD402

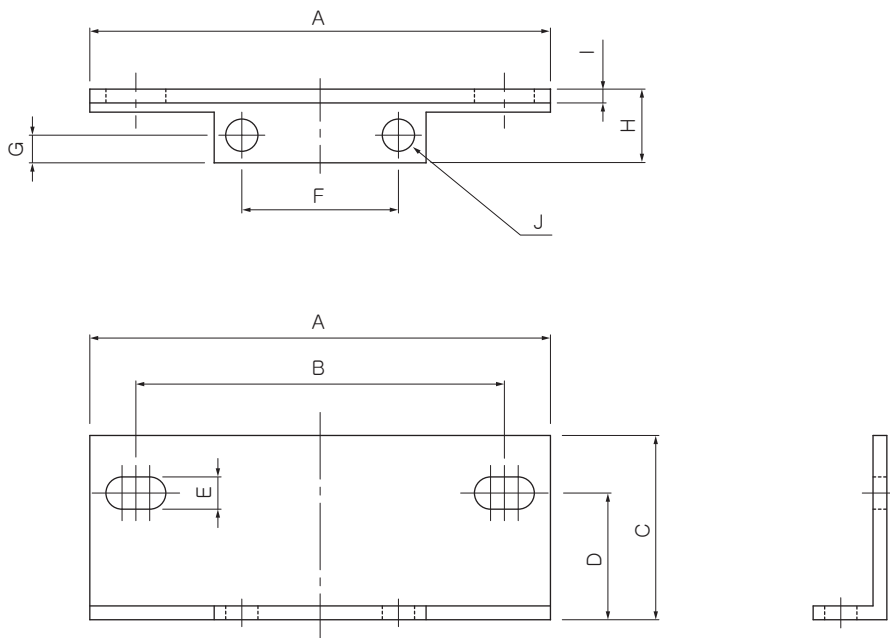
## DIMENSIONS (mm)

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



# 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)

- SAMU
- SAMG
- SAFL
- SAM
- SAMD
- SAMH
- SAD402
- BRACKET**
- CAUTION

# 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)<sup>1)</sup>, KS<sup>2)</sup> and other safety regulations.

<b>⚠ CAUTION</b>	indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
<b>⚠ WARNING</b>	indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
<b>⚠ DANGER</b>	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**

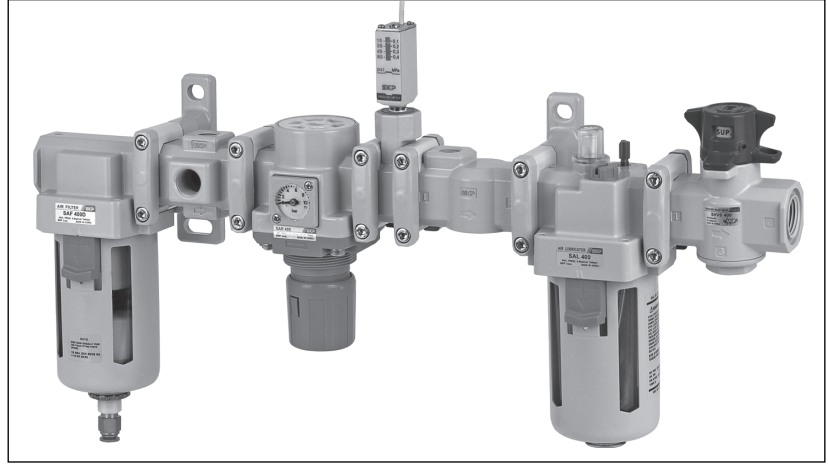
- If handled improperly, compressed air can be dangerous.  
Assembly, handling, repair and element replacement of pneumatic systems should be performed by a knowledgeable and experienced person.
- Do not remove components until safety is confirmed.
  - 1) Inspection and maintenance of machine and equipment 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 workpeace flown out cause injury.

### **⚠ CAUTION**

- Set the pressure of the compressed air to zero before an inspection.  
Before disassembling the equipment on the compressed air side for inspecting the auto drain or for replacing the filter element, confirm that the pressure is set to zero.
- Discharge the drainage on a regular basis.  
If drain remains accumulated in the equipment or in the piping, it could cause the equipment to operate improperly, or the drain could splash to the outlet side, leading to unforeseen accidents.  
Therefore, check the drainage volume and the operation of the auto drain on a daily basis.



# Air Line Equipment



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(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	-	●	-	-	-	

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

G - Gauge

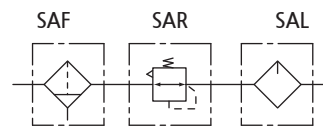
G	Round type gauge
Gs	Square embedded type

㉞ SAU100 is available only round type gauge.

⑦ Bowl

- Nil - PC bowl
- MeP - Metal bowl with pipe type sight glass

### Symbol



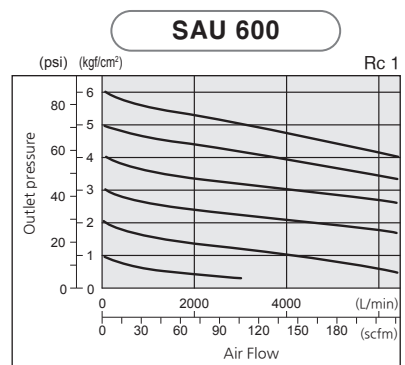
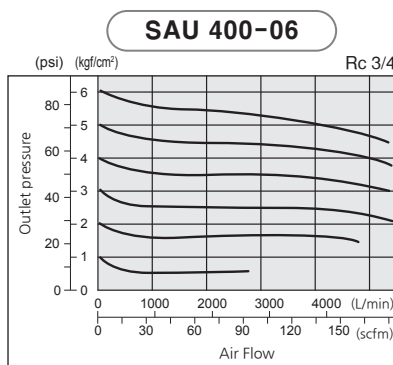
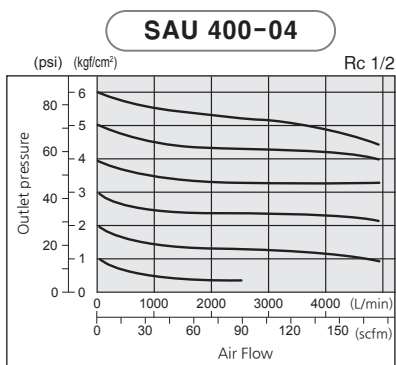
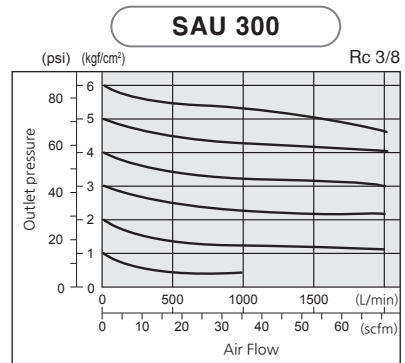
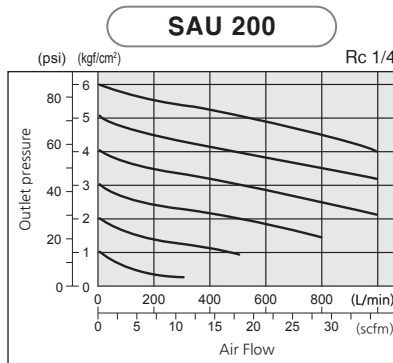
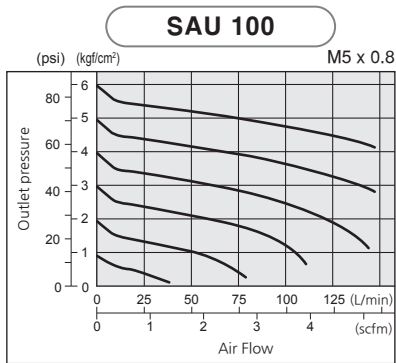
### Specification

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)
Construction(SAR)	Relief type

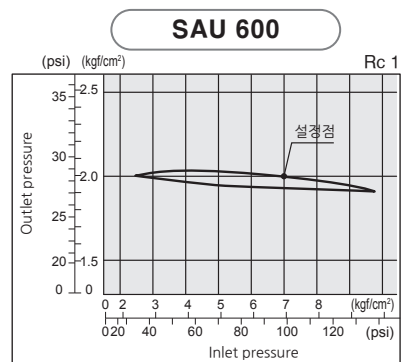
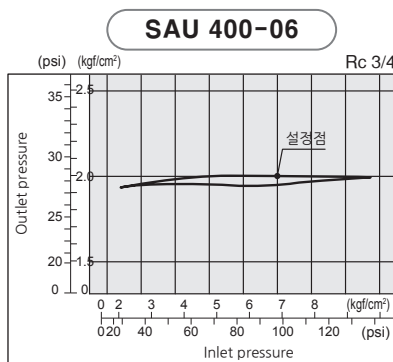
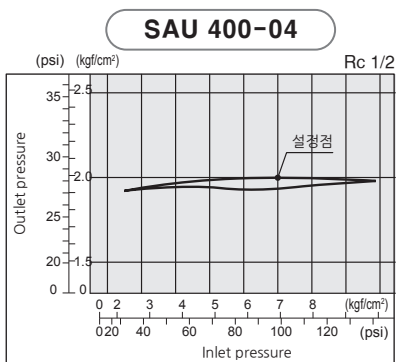
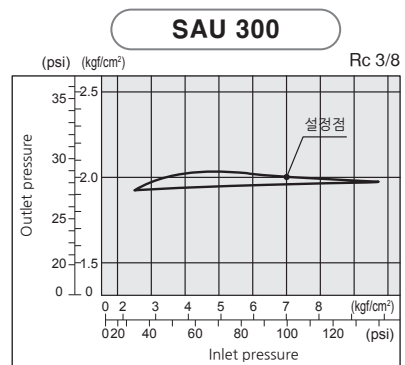
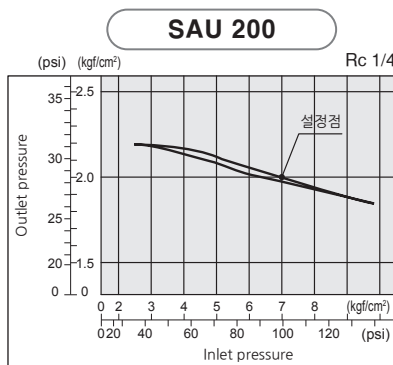
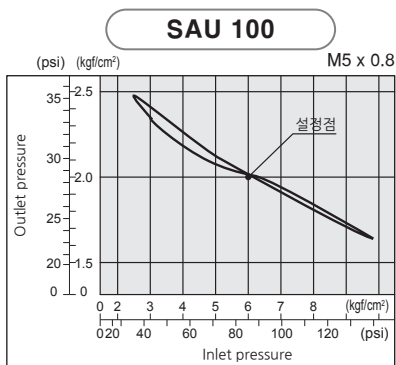
### Precautions

- 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.

## FLOW CHARACTERISTICS Inlet pressure 7kg/cm<sup>2</sup>



## PRESSURE CHARACTERISTICS Inlet pressure 7kg/cm<sup>2</sup>, Outlet pressure 2kg/cm<sup>2</sup>, Flow 20L/min(ANR)



- SAU
- SAU LARGE FLOW
- SAU HIGH PRESS.
- SAW
- SAWM SAWD
- SAF
- SAF LARGE FLOW
- SAFM SAFD
- SAR
- SAR LARGE FLOW
- SAR T-HANDLE
- SAR HIGH PRESS.
- SRP
- SAL
- SAL LARGE FLOW
- AUTO-DRAIN KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

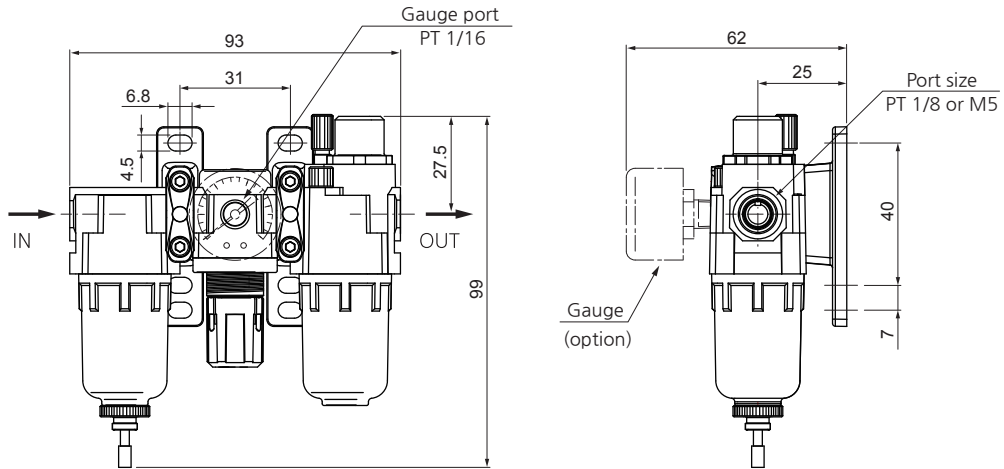


# Series SAU100~600

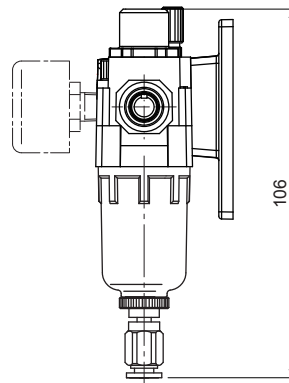
## DIMENSIONS (mm)

### SAU 100

- SAU100-□□□



- Dimensions of each model with an option attached



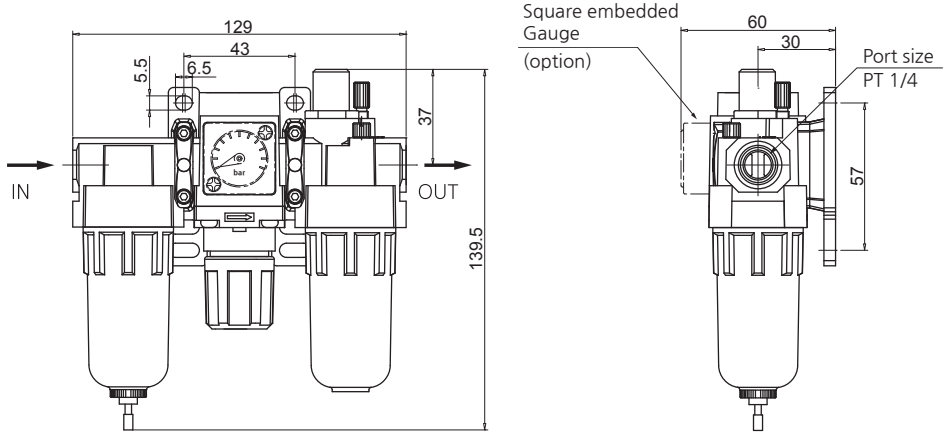
with Auto Drain  
(Differential pressure type)

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

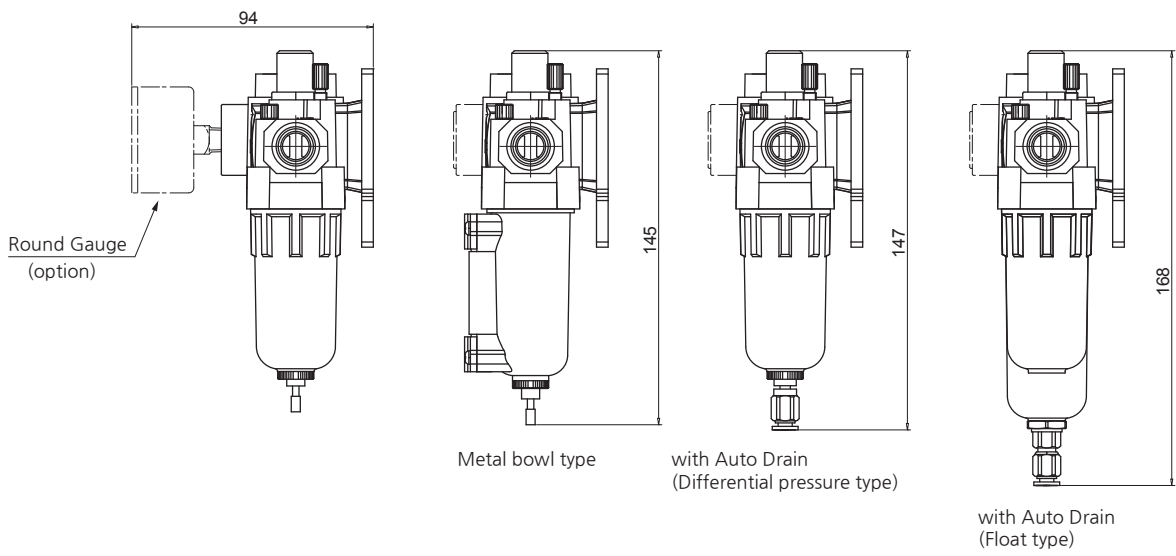
## DIMENSIONS (mm)

### 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

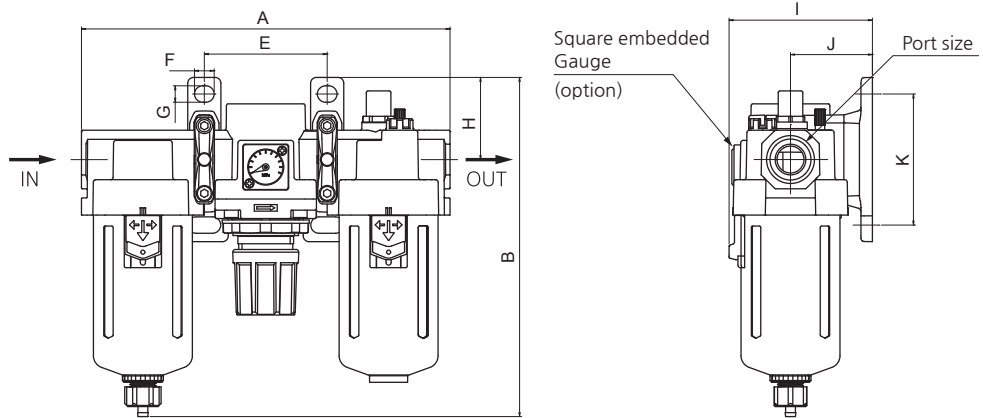
- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Series SAU100~600

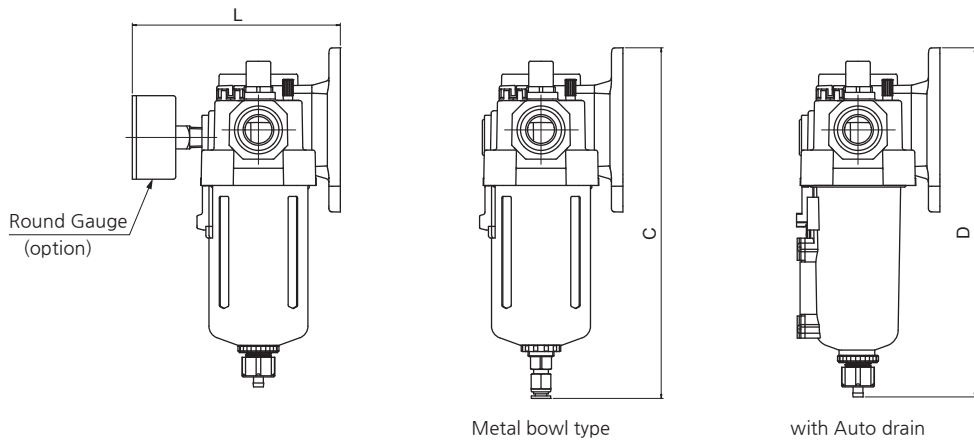
## DIMENSIONS (mm)

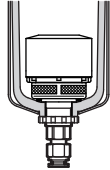


### SAU 300~400

- SAU300-□03□□-□
- SAU400-□04(06)□□-□



#### Dimensions of each model with an option attached



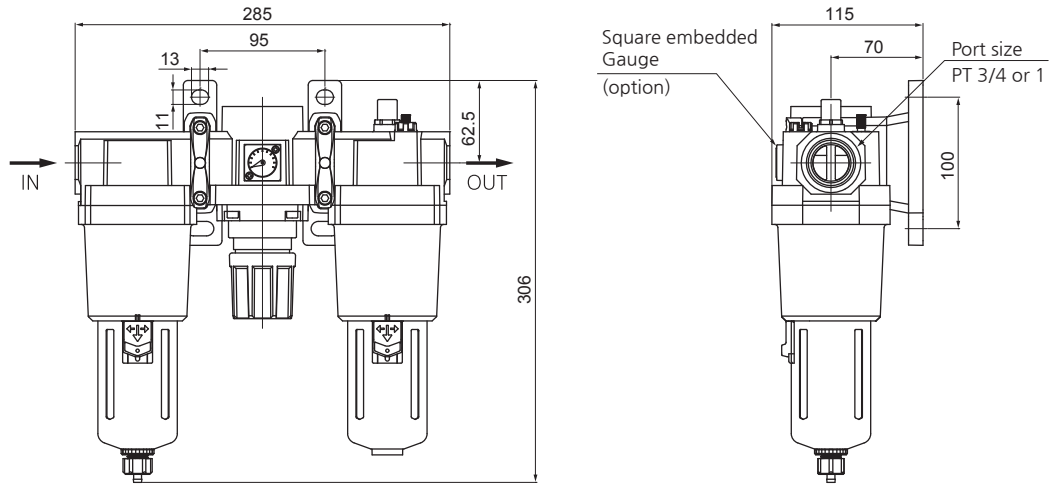
Option	D : Auto Drain	Gauge	
		G : Round type	Gs : Square embedded type
Model	 SAU300 : SAD300 SAU400 : SAD400	 SAU300 : G40, R1/8 SAU400 : G50, R1/4	 Gs28

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

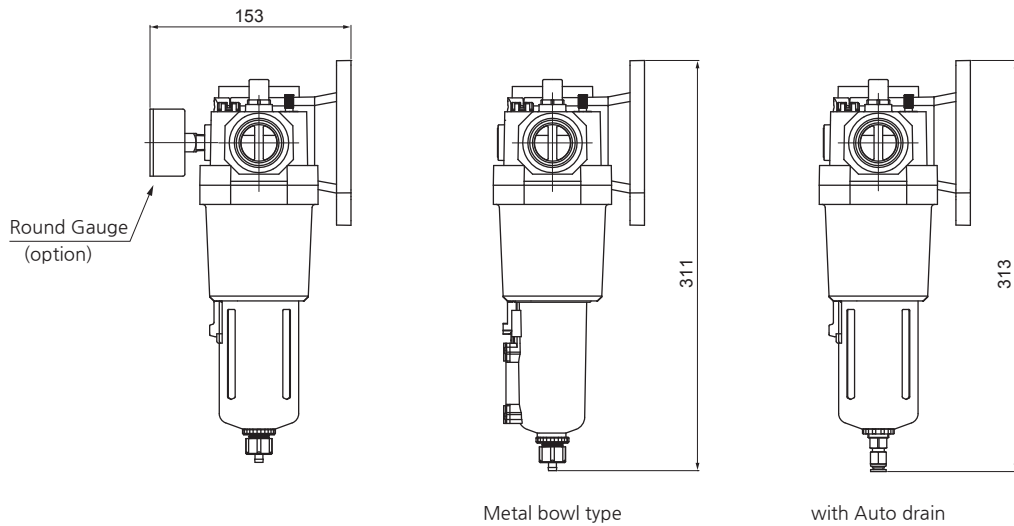
## DIMENSIONS (mm)

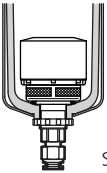


### SAU 600

- 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

- SAU
- SAU LARGE FLOW
- SAU HIGH PRESS.
- SAW
- SAWM SAWD
- SAF
- SAF LARGE FLOW
- SAFM SAFD
- SAR
- SAR LARGE FLOW
- SAR T-HANDLE
- SAR HIGH PRESS.
- SRP
- SAL
- SAL LARGE FLOW
- AUTO-DRAIN KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Air Unit (SAU110~610 Series)

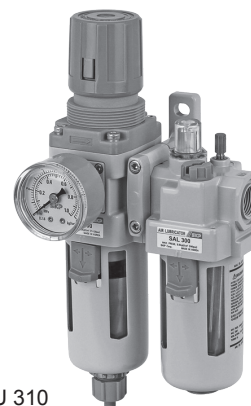
## Filter Regulator + Lubricator



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.

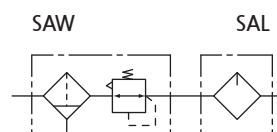
G - Gauge

G	Round type gauge
Gs	Square embedded type

Note) SAU110 is available only round type gauge.

- ⑦ Bowl
  - Nil - PC bowl
  - 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)
Construction(SAR)	Relief type

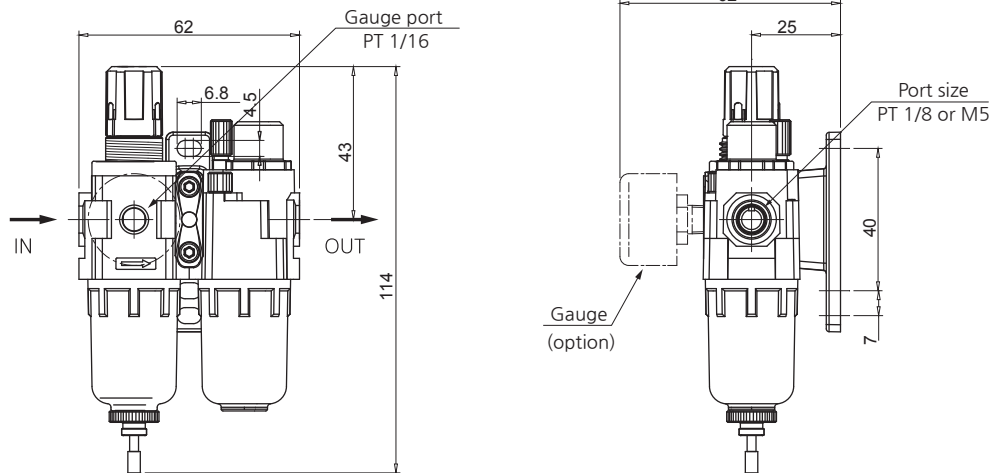
### Precautions

- 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.

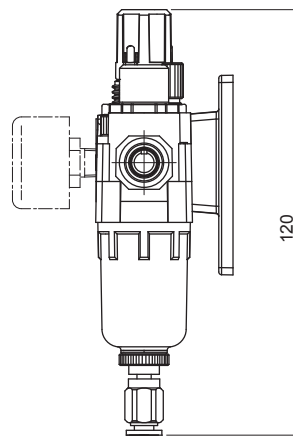
## DIMENSIONS (mm)

### 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	<p>φ4mm One-touch fitting</p>	<p>G25, R1/16</p>

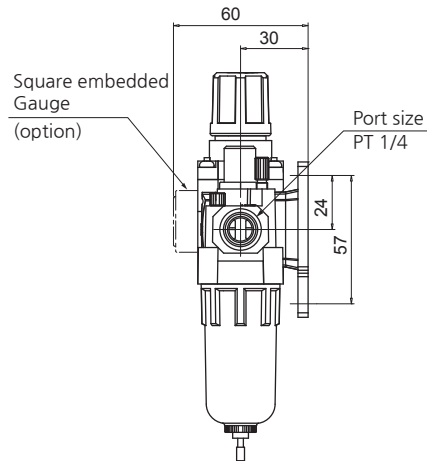
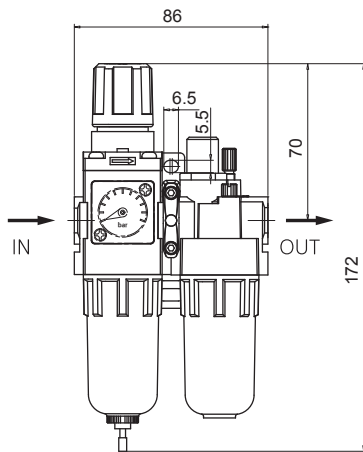
- SAU
- SAU LARGE FLOW
- SAU HIGH PRESS.
- SAW
- SAWM SAWD
- SAF
- SAF LARGE FLOW
- SAFM SAFD
- SAR
- SAR LARGE FLOW
- SAR T-HANDLE
- SAR HIGH PRESS.
- SRP
- SAL
- SAL LARGE FLOW
- AUTO-DRAIN KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Series SAU110~610

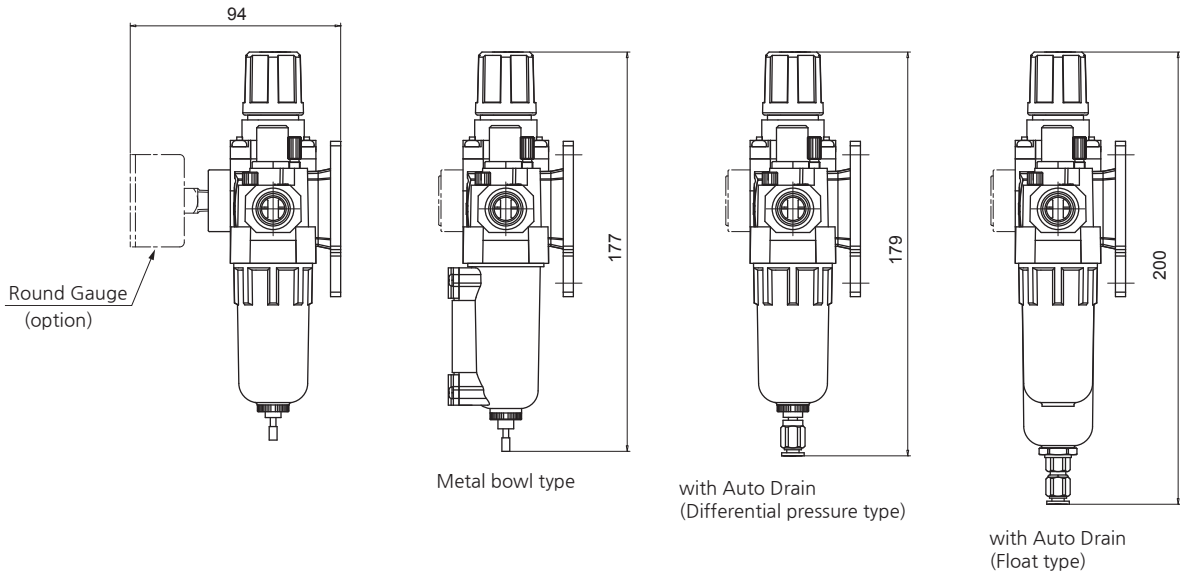
## DIMENSIONS (mm)

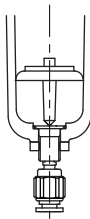
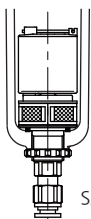


### SAU 210

■ SAU210-□02□□-□



■ Dimensions of each model with an option attached

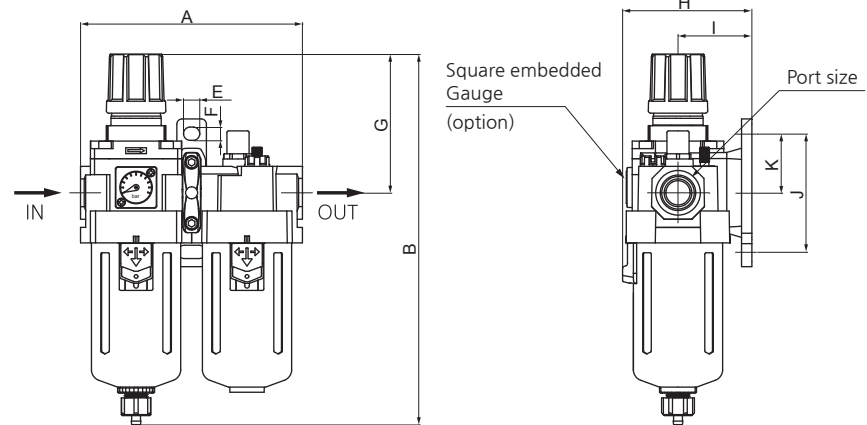


Option	Auto Drain		Gauge	
	D : Differential pressure type	Df : Float type	G : Round type	Gs : Square embedded type
Model		 SAD200	 G40, R1/8	 Gs28

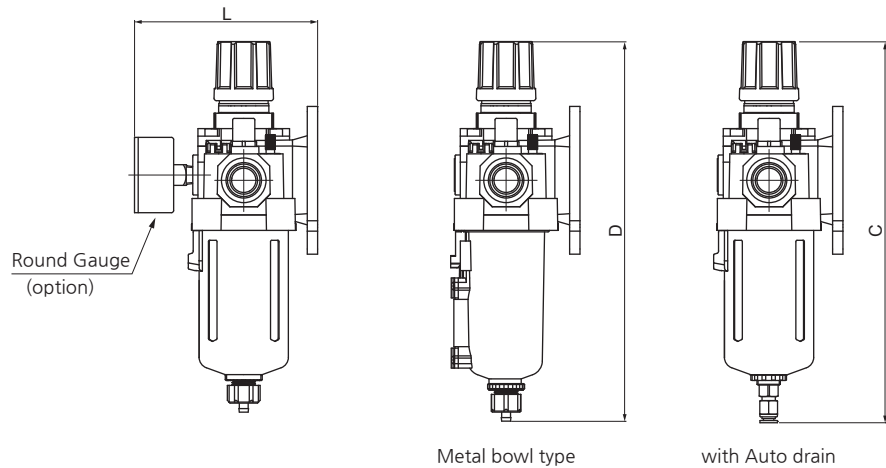
## DIMENSIONS (mm)

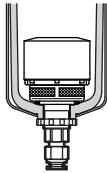


### SAU 310~410

- 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	 SAU310 : SAD300 SAU410 : 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	3/8	114	220	226	228	9	7	89	71.5	41	70	35	107
SAU410-04	1/2	150	251	258	256	11	9	94	87.5	50	80	40	127

- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

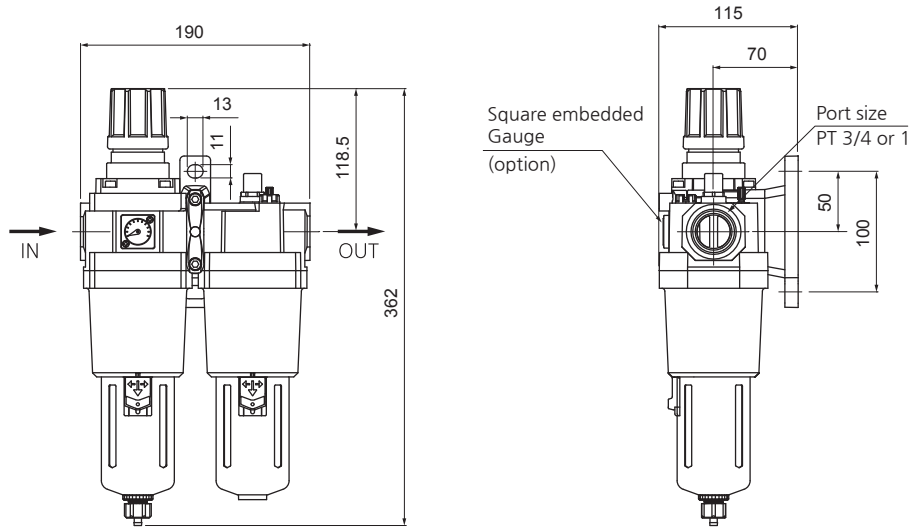


# Series SAU110~610

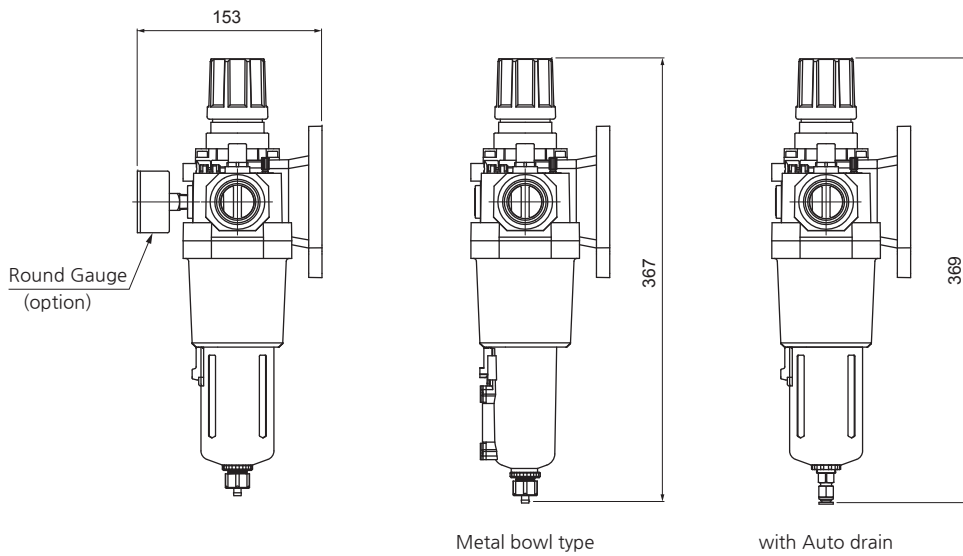
## DIMENSIONS (mm)

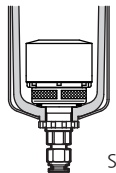


### SAU 610

- 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)

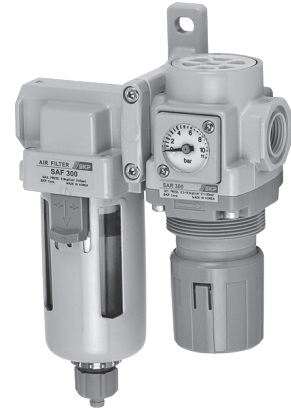
## Air Filter + Air Regulator



SAU 120



SAU 220



SAU 320

### How to order

**SAU 3 20 - 03 DG - MeP**

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

#### ⑤ Port Size

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	-	●	-	-	-

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

- G - Gauge

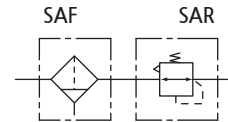
G	Round type gauge
Gs	Square embedded type

- ㉞ SAU110 is available only round type gauge.

#### ⑦ Bowl

- Nil - PC bowl
- 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)
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.

SAU

SAU  
LARGE FLOW

SAU  
HIGH PRESS.

SAW

SAWM  
SAWD

SAF

SAF  
LARGE FLOW

SAFM  
SAFD

SAR

SAR  
LARGE FLOW

SAR  
T-HANDLE

SAR  
HIGH PRESS.

SRP

SAL

SAL  
LARGE FLOW

AUTO-DRAIN  
KITS

SHVS

SPS100

ACCESSORY

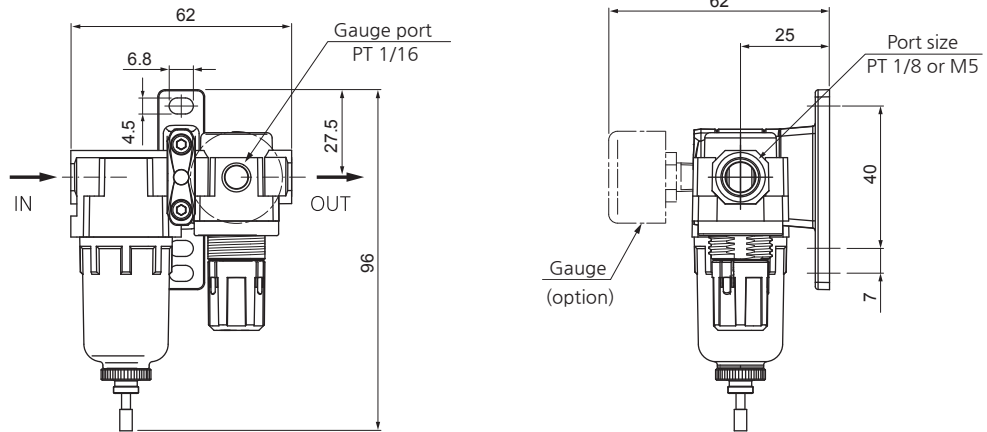
CAUTION

# Series SAU120~620

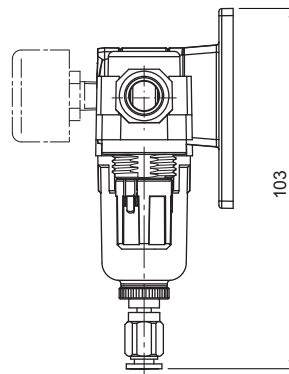
## DIMENSIONS (mm)

### SAU 120

- SAU120-□□□



- Dimensions of each model with an option attached



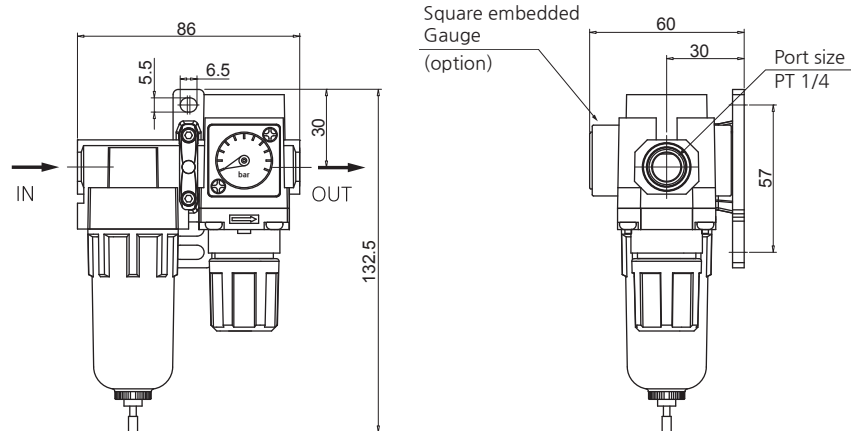
with Auto Drain  
(Differential pressure type)

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

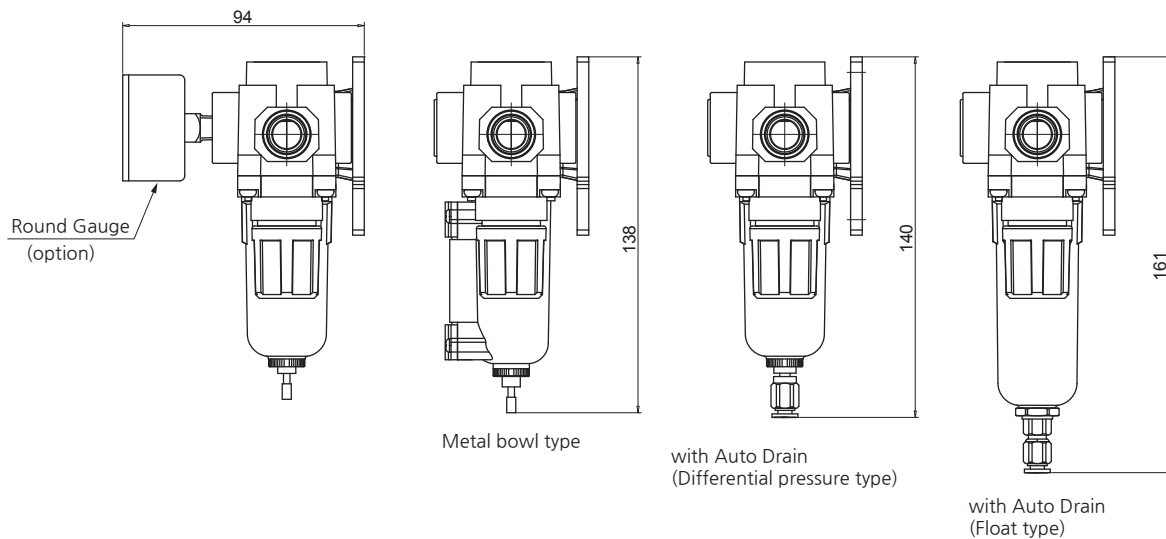
## DIMENSIONS (mm)

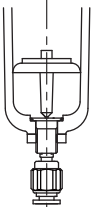
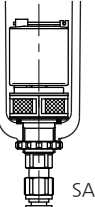


### SAU 220

■ 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

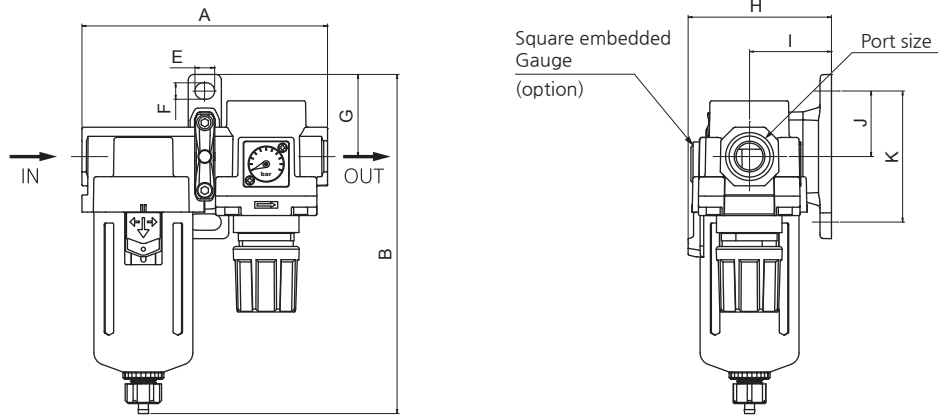
- SAU
- SAU LARGE FLOW
- SAU HIGH PRESS.
- SAW
- SAWM SAWD
- SAF
- SAF LARGE FLOW
- SAFM SAFD
- SAR
- SAR LARGE FLOW
- SAR T-HANDLE
- SAR HIGH PRESS.
- SRP
- SAL
- SAL LARGE FLOW
- AUTO-DRAIN KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Series SAU120~620

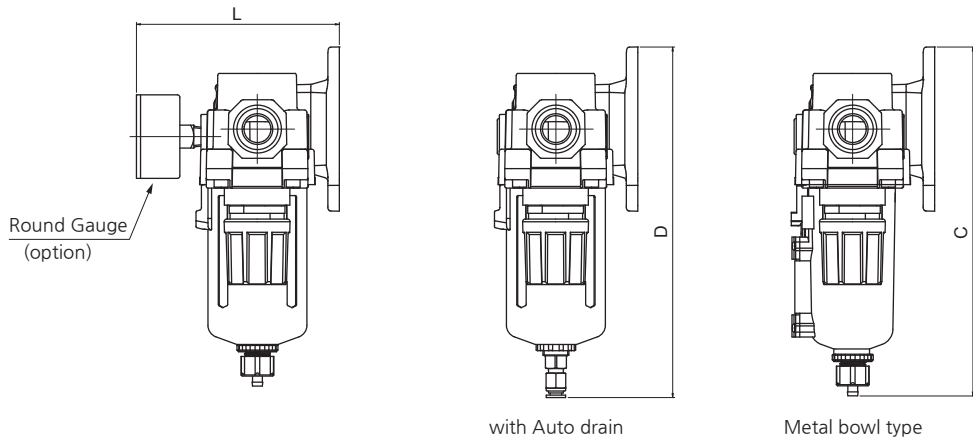
## DIMENSIONS (mm)

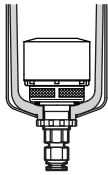


### SAU 320~420

- SAU320-□03□□-□
- SAU420-□04(06)□□-□



- Dimensions of each model with an option attached



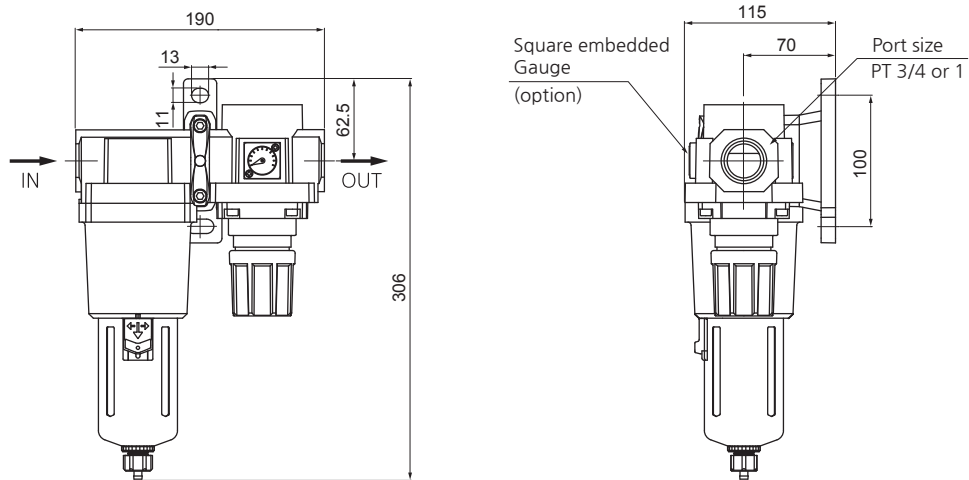
Option	D : Auto Drain	Gauge	
		G : Round type	Gs : Square embedded type
Model	 SAU320 : SAD300 SAU420 : SAD400	 SAU320 : G40, R1/8 SAU420 : G50, R1/4	 Gs28

Model	Port size	A	B	C	D	E	F	G	H	I	J	K	L
SAU320-03	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

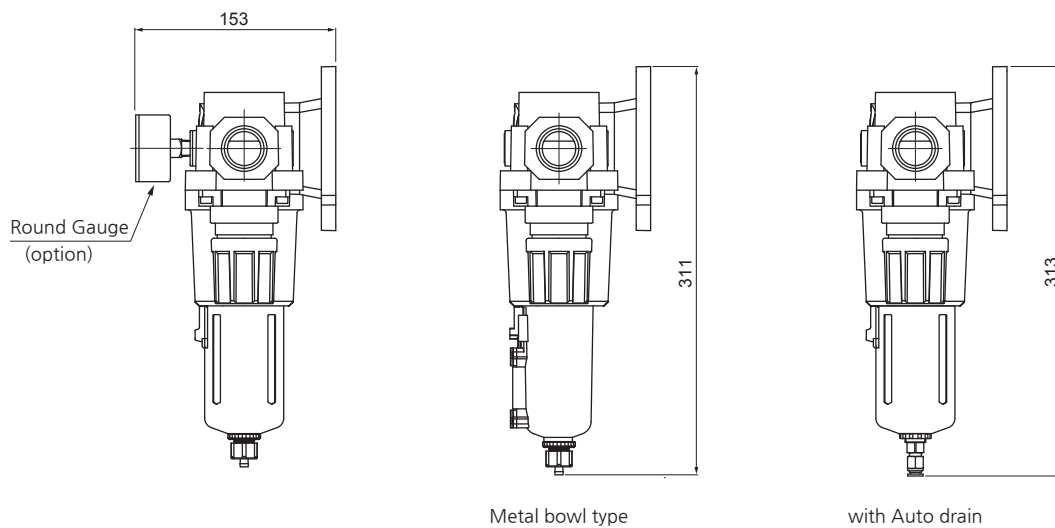
## DIMENSIONS (mm)

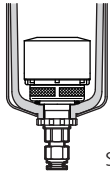


### SAU 620

- SAU620-□06(10)□□-□



- Dimensions of each model with an option attached

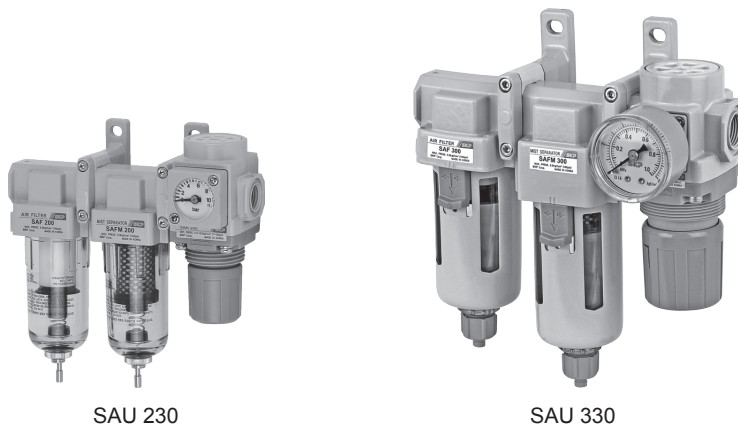


Option	D : Auto Drain	Gauge	
		G : Round type	Gs : Square embedded type
Model	 SAD400	 G50, R1/4	 Gs28

- SAU
- SAU LARGE FLOW
- SAU HIGH PRESS.
- SAW
- SAWM SAWD
- SAF
- SAF LARGE FLOW
- SAFM SAFD
- SAR
- SAR LARGE FLOW
- SAR T-HANDLE
- SAR HIGH PRESS.
- SRP
- SAL
- SAL LARGE FLOW
- AUTO-DRAIN KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Air Unit (SAU230~430 Series)

## Air Filter + Mist Separator + Air Regulator



### 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**

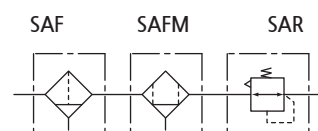
Symbol	Size	Body size		
		2	3	4
02	1/4	●		
03	3/8		●	
04	1/2			●
06	3/4			●
- Accessory(Optional)**  
Nil - None gauge / Manual Drain  
D - Auto Drain

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.
- Bowl**  
Nil - PC bowl  
MeP - Metal bowl with pipe type sight glass

G	Round type gauge
Gs	Square embedded type

### 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)
Construction(SAR)	Relief type

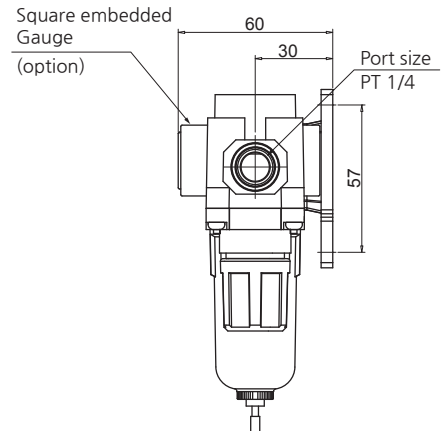
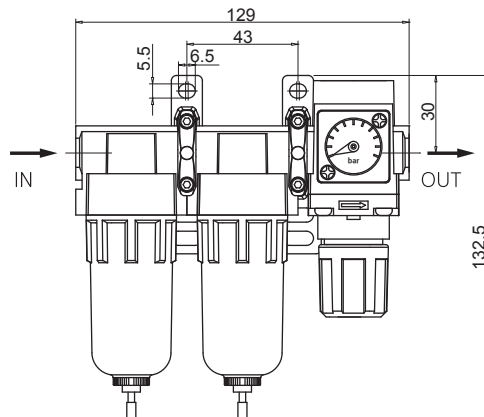
### Precautions

- 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.

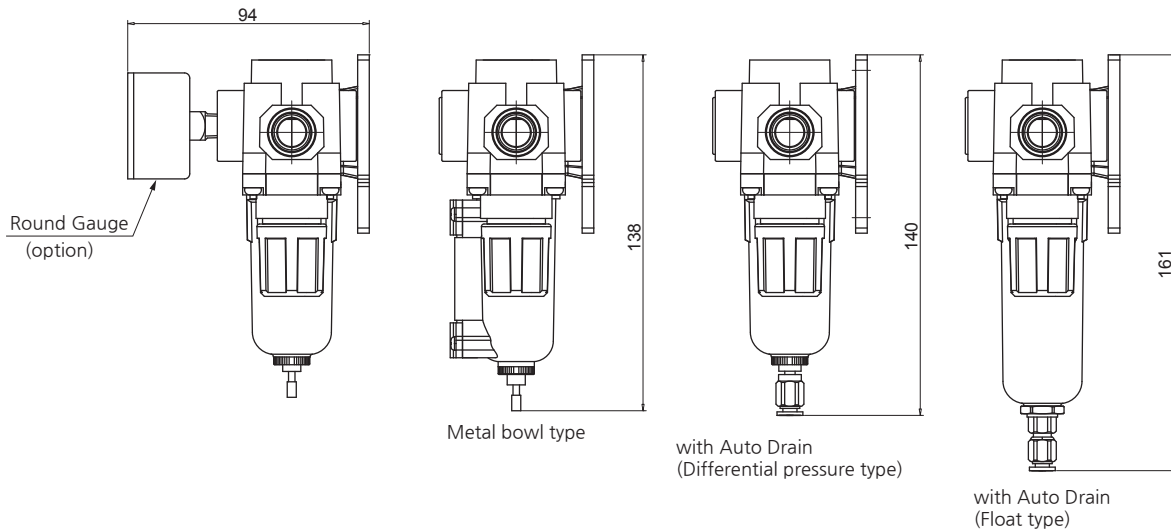
## DIMENSIONS (mm)

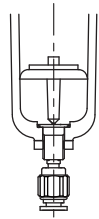
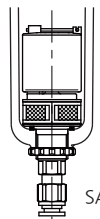


### SAU 230

■ 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

- SAU
- SAU LARGE FLOW
- SAU HIGH PRESS.
- SAW
- SAWM SAWD
- SAF
- SAF LARGE FLOW
- SAFM SAFD
- SAR
- SAR LARGE FLOW
- SAR T-HANDLE
- SAR HIGH PRESS.
- SRP
- SAL
- SAL LARGE FLOW
- AUTO-DRAIN KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

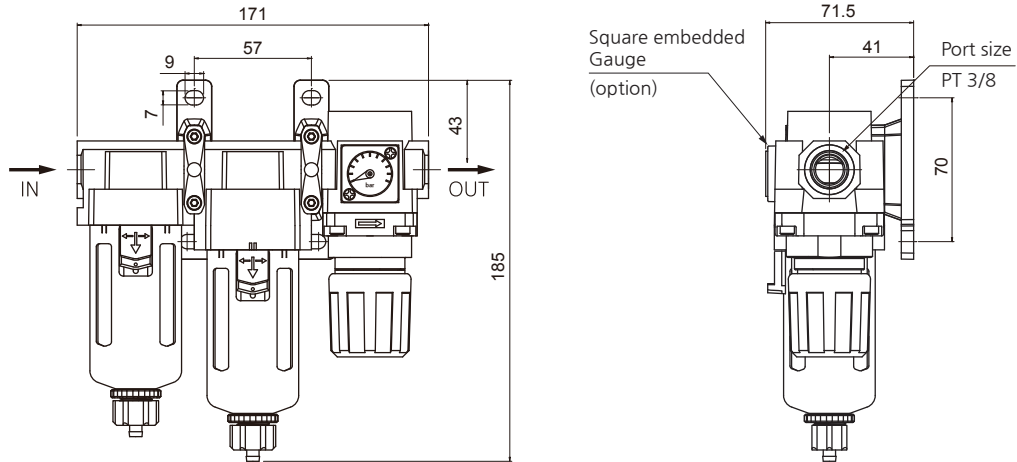


# Series SAU230~430

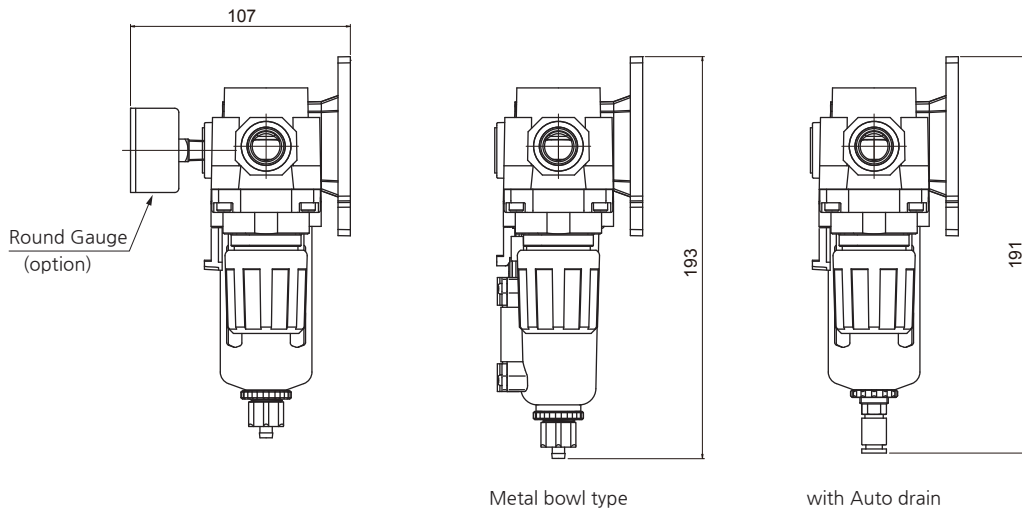
## DIMENSIONS (mm)

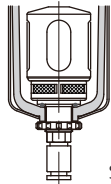


### SAU 330

- SAU330-□03□□-□



- Dimensions of each model with an option attached

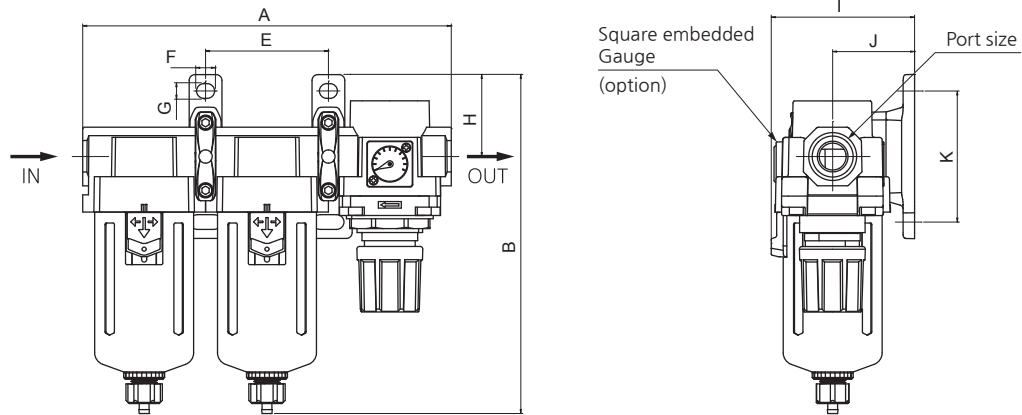


Option	D : Auto Drain	Gauge	
		G : Round type	Gs : Square embedded type
Model	 SAD300	 G40, R1/8	 Gs28

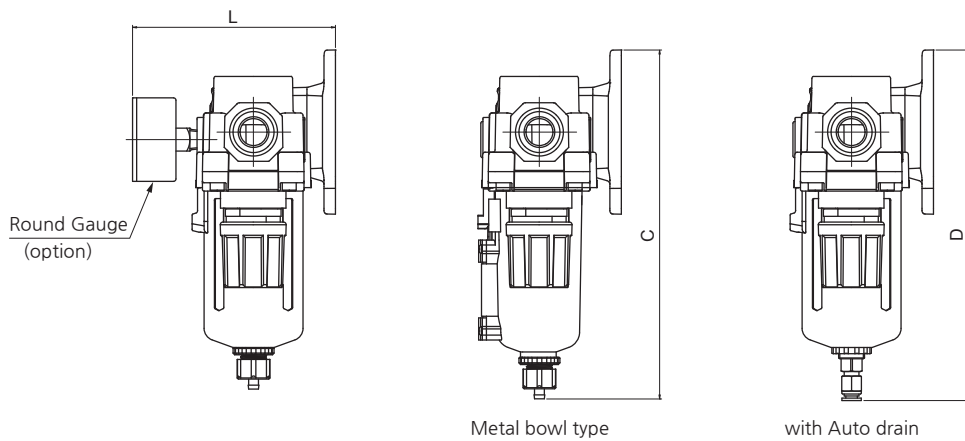
## DIMENSIONS (mm)

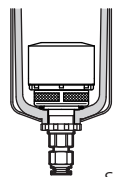


### SAU 430

- 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

- SAU
- SAU LARGE FLOW
- SAU HIGH PRESS.
- SAW
- SAWM SAWD
- SAF
- SAF LARGE FLOW
- SAFM SAFD
- SAR
- SAR LARGE FLOW
- SAR T-HANDLE
- SAR HIGH PRESS.
- SRP
- SAL
- SAL LARGE FLOW
- AUTO-DRAIN KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Air Unit (SAU240~440 Series)

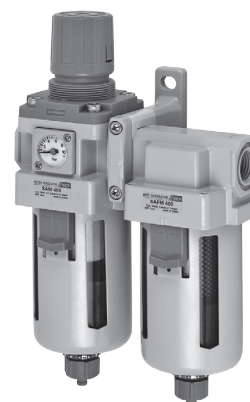
## Filter Regulator + Mist Separator



SAU 240



SAU 340



SAU 440

### How to order

**SAU 4 40 - 04 DG - MeP**

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

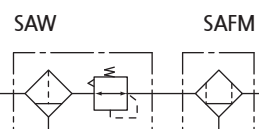
Symbol	Size	Body size		
		2	3	4
02	1/4	●		
03	3/8		●	
04	1/2			●
- Accessory(Optional)**  
Nil - None gauge / Manual Drain  
D - Auto Drain

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

※ 1. SAW, SAFM200 are differential pressure type.  
2. SAW, SAFM300~400 are float type.
- Bowl**  
Nil - PC bowl  
MeP - Metal bowl with pipe type sight glass

G	Round type gauge
Gs	Square embedded type

### 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

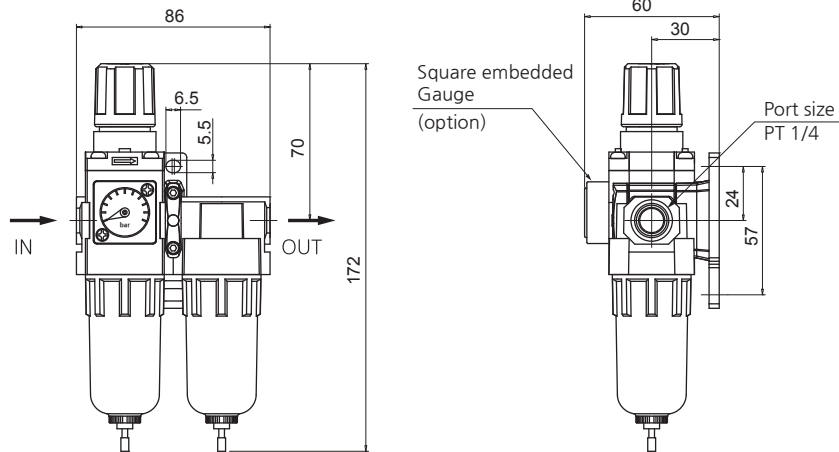
### Precautions

- 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.

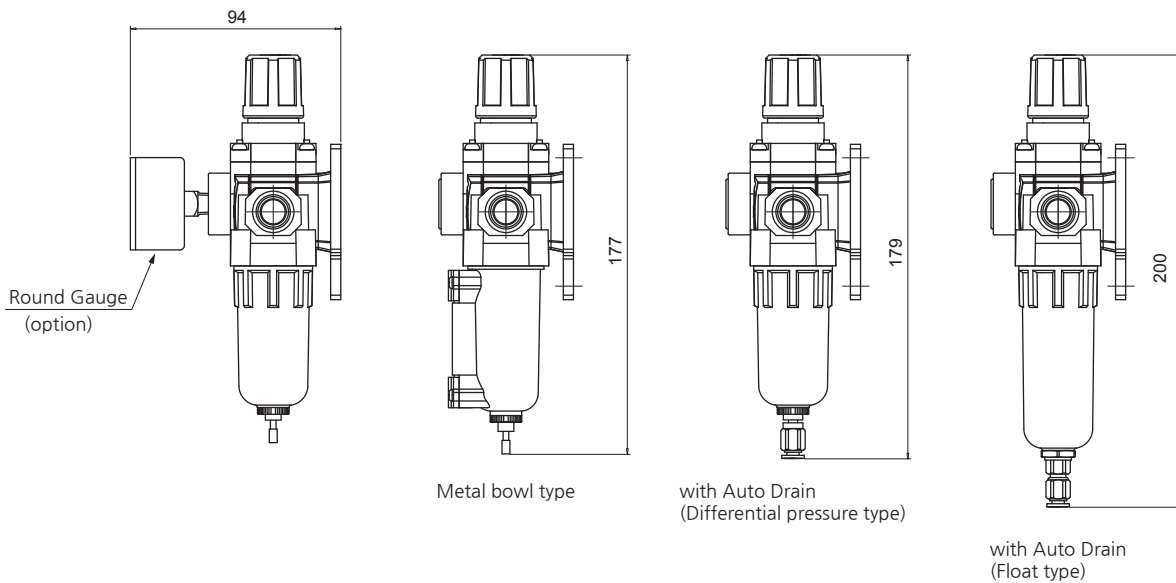
## DIMENSIONS (mm)

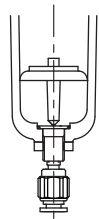
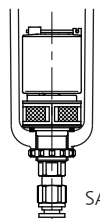


### SAU 240

■ 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

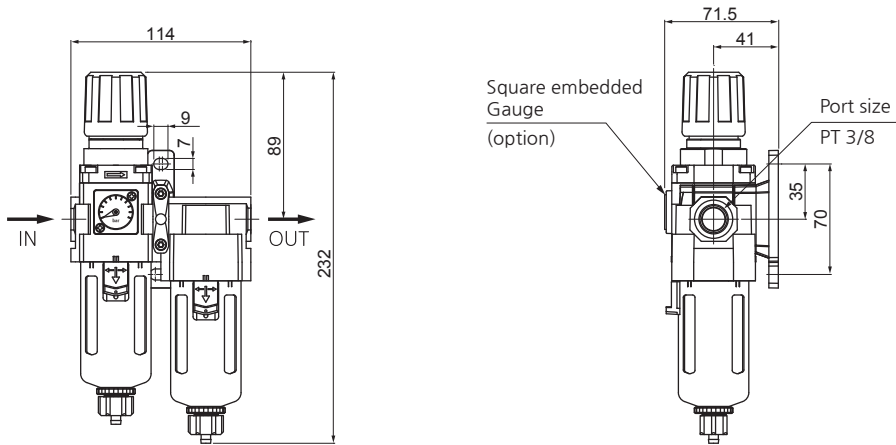
- SAU
- SAU LARGE FLOW
- SAU HIGH PRESS.
- SAW
- SAWM SAWD
- SAF
- SAF LARGE FLOW
- SAFM SAFD
- SAR
- SAR LARGE FLOW
- SAR T-HANDLE
- SAR HIGH PRESS.
- SRP
- SAL
- SAL LARGE FLOW
- AUTO-DRAIN KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Series SAU240~440

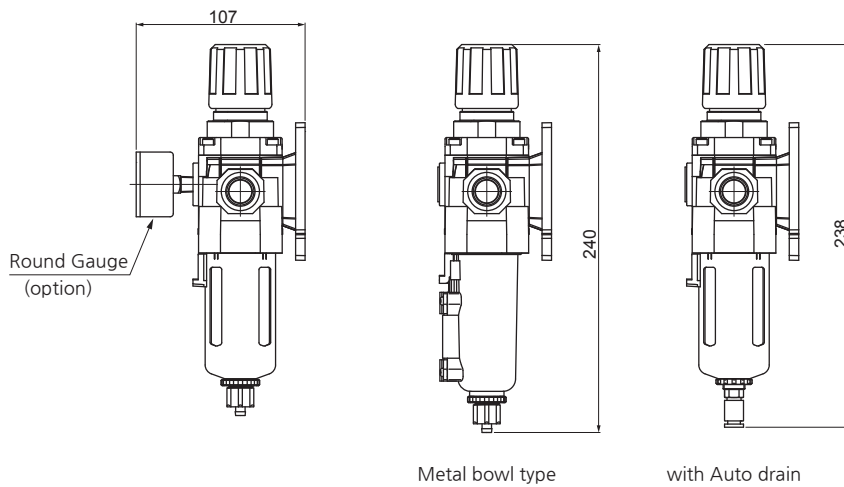
## DIMENSIONS (mm)




### SAU 340

- SAU340-□03□□-□



- Dimensions of each model with an option attached

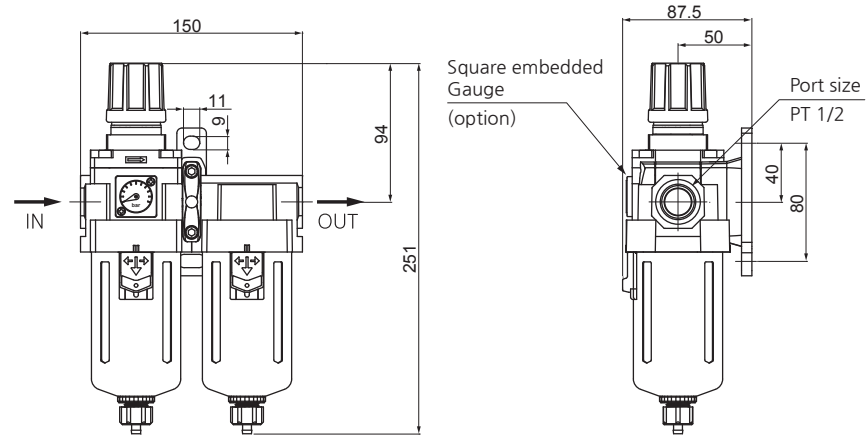


Option	D : Auto Drain	Gauge	
		G : Round type	Gs : Square embedded type
Model	 SAD300	 G40, R1/8	 Gs28

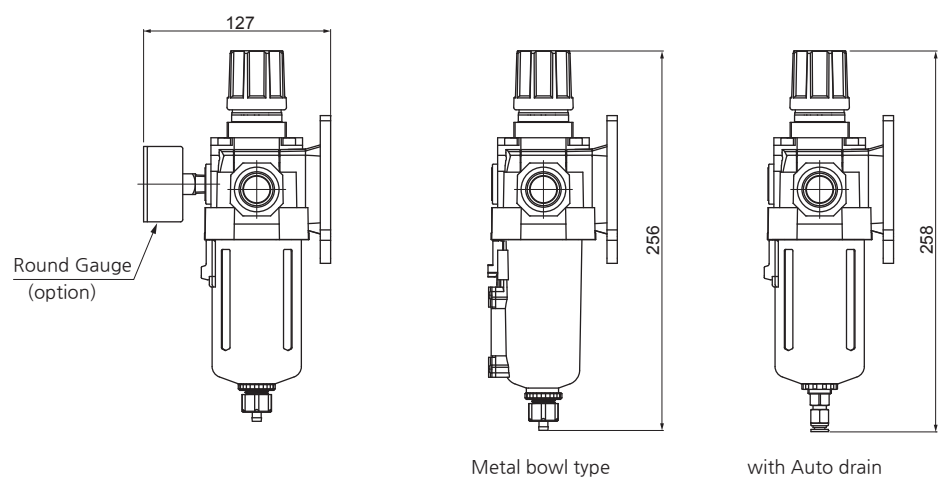
## DIMENSIONS (mm)

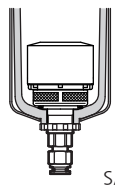


### SAU 440

- SAU440-□04□□-□



- 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

- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# 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**

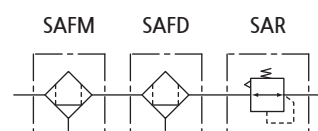
- Air Unit**
- Body Size**  
2 - 1/4  
3 - 3/8  
4 - 1/2
- Composition**  
50 — Mist Separator(SAFM)  
          — Micro Mist Separator(SAFD)  
          — Regulator(SAR)
- Thread type**  
Nil - Rc(PT)  
N - NPT  
G - G(PF)
- Port size**

Symbol	Size	Body size		
		2	3	4
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	●	-	-

㉞ 1. SAFM, SAFD200 are differential pressure type.  
2. SAFM, SAFD300~400 are float type.
- Bowl**  
Nil - PC bowl  
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°C (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)
Construction(SAR)	Relief type

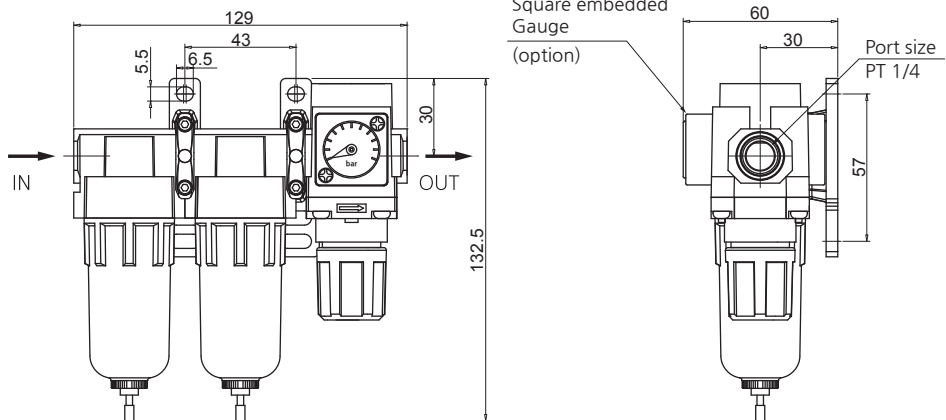
### Precautions

- 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.

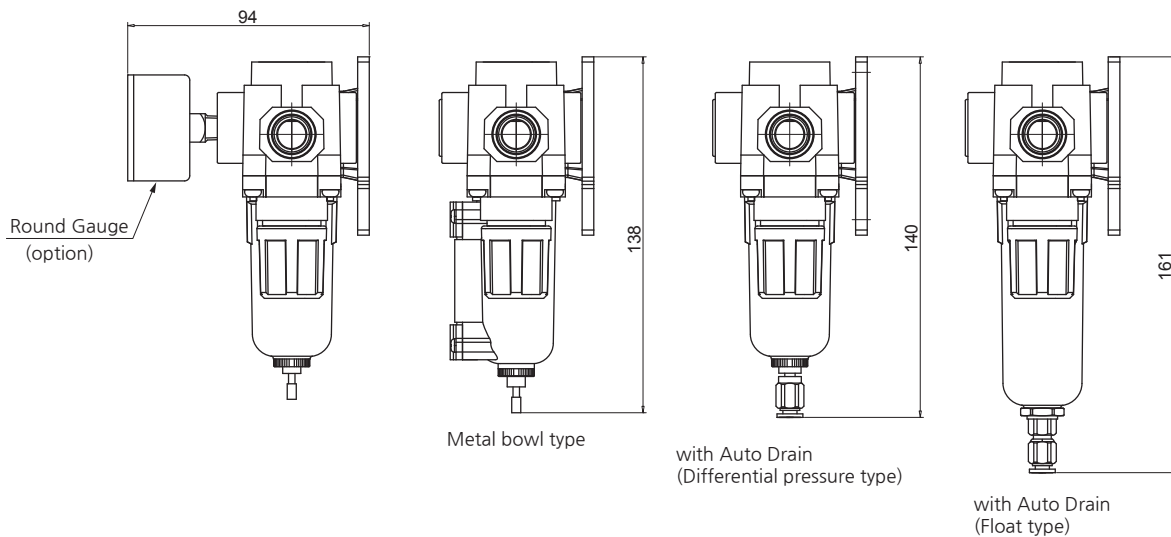
## DIMENSIONS (mm)

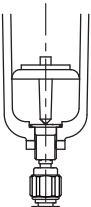
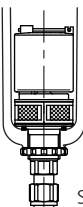


### SAU 250

- 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

- SAU
- SAU LARGE FLOW
- SAU HIGH PRESS.
- SAW
- SAWM SAWD
- SAF
- SAF LARGE FLOW
- SAFM SAFD
- SAR
- SAR LARGE FLOW
- SAR T-HANDLE
- SAR HIGH PRESS.
- SRP
- SAL
- SAL LARGE FLOW
- AUTO-DRAIN KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

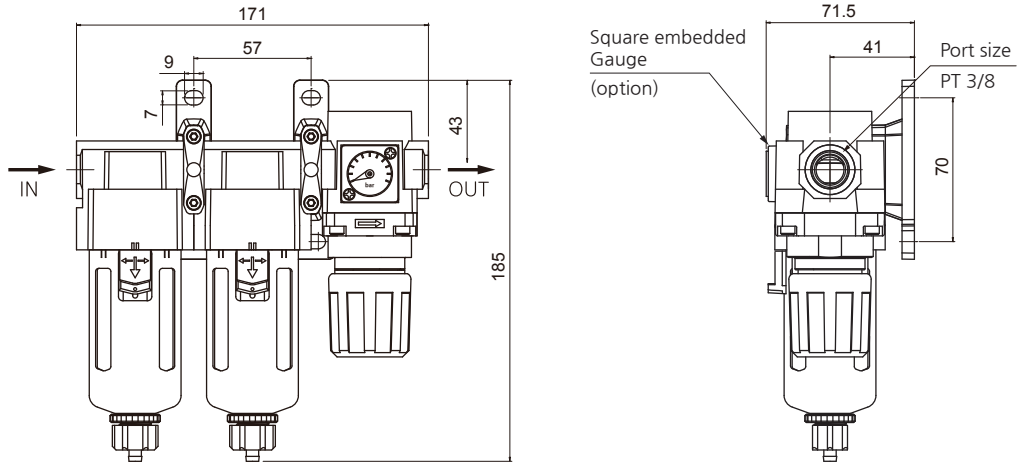


# Series SAU250~450

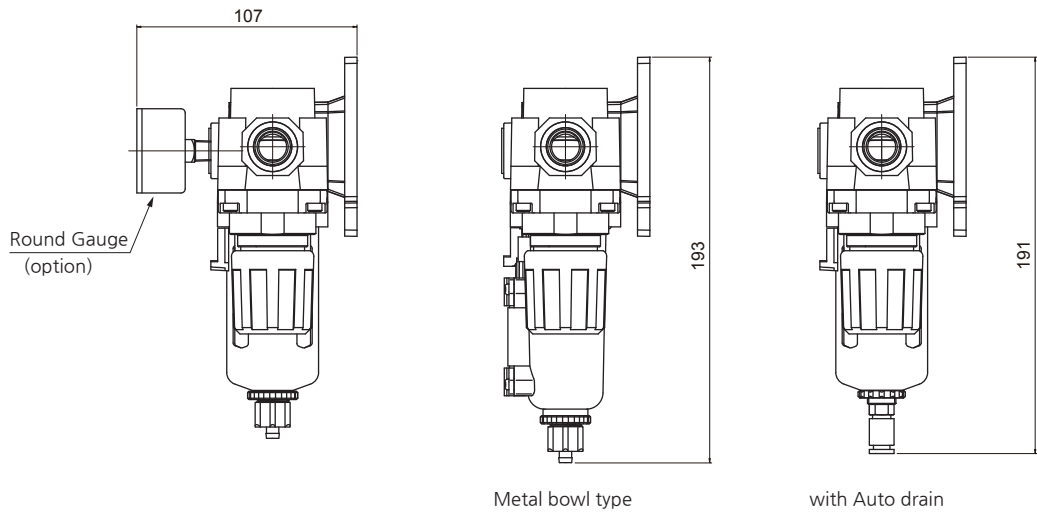
## DIMENSIONS (mm)

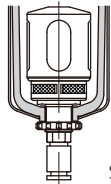


### SAU 350

- SAU350-□03□□-□



- Dimensions of each model with an option attached

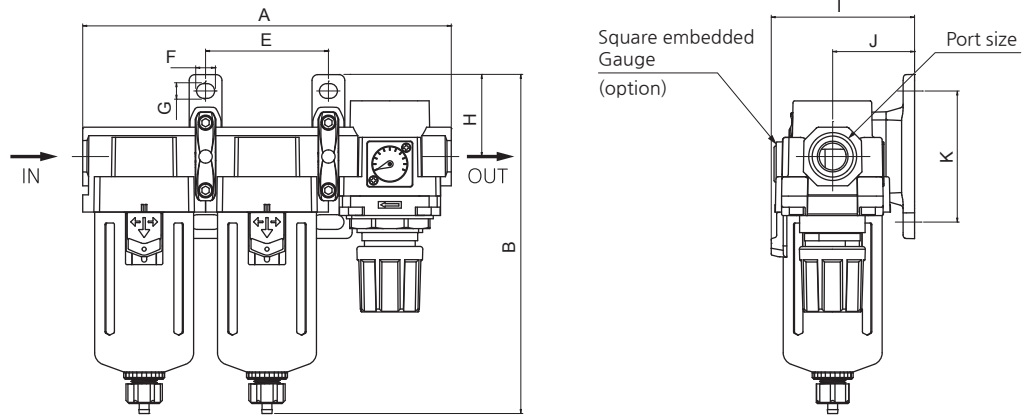


Option	D : Auto Drain	Gauge	
		G : Round type	Gs : Square embedded type
Model	 SAD300	 G40, R1/8	 Gs28

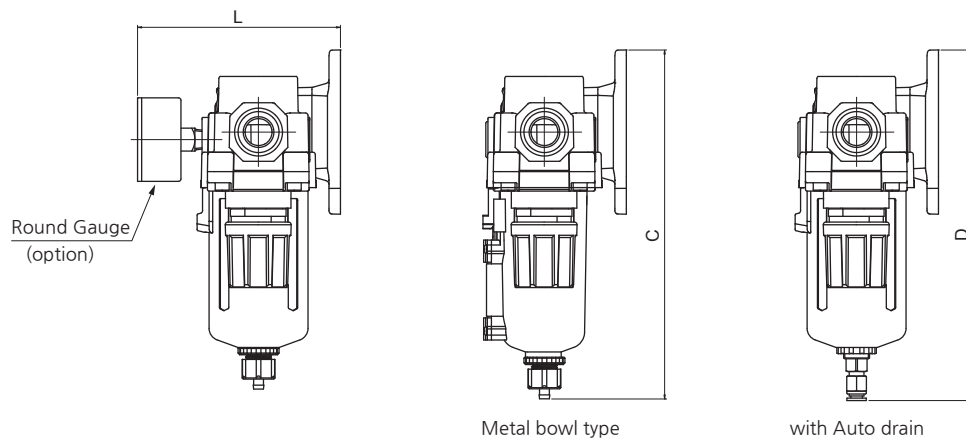
## DIMENSIONS (mm)

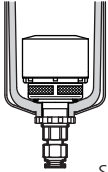


### SAU 450

- SAU450-□04□□-□
- SAU450-□06□□-□



- Dimensions of each model with an option attached



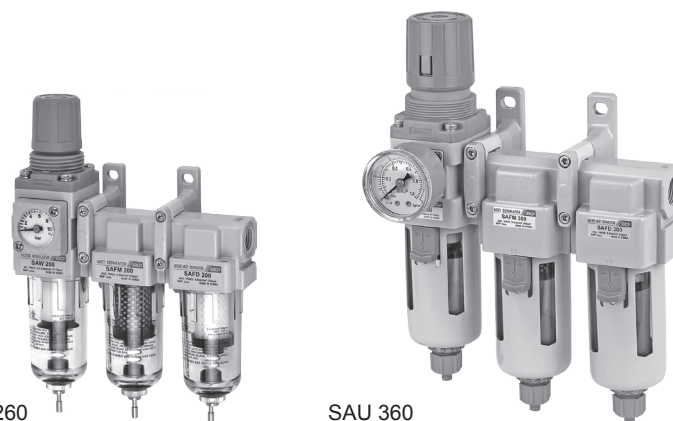
Option	D : Auto Drain	Gauge	
		G : Round type	Gs : Square embedded type
Model	 SAD400	 G50, R1/4	 Gs28

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

- SAU
- SAU LARGE FLOW
- SAU HIGH PRESS.
- SAW
- SAWM SAWD
- SAF
- SAF LARGE FLOW
- SAFM SAFD
- SAR
- SAR LARGE FLOW
- SAR T-HANDLE
- SAR HIGH PRESS.
- SRP
- SAL
- SAL LARGE FLOW
- AUTO-DRAIN KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# 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**

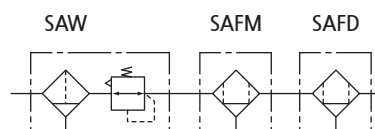
Symbol	Size	Body size		
		2	3	4
02	1/4	●		
03	3/8		●	
04	1/2			●
- Accessory(Optional)**  
Nil - None gauge / Manual Drain  
D - Auto Drain

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 - PC bowl  
MeP - Metal bowl with pipe type sight glass

G	Round type gauge
Gs	Square embedded type

### 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)
Construction(SAW)	Relief type

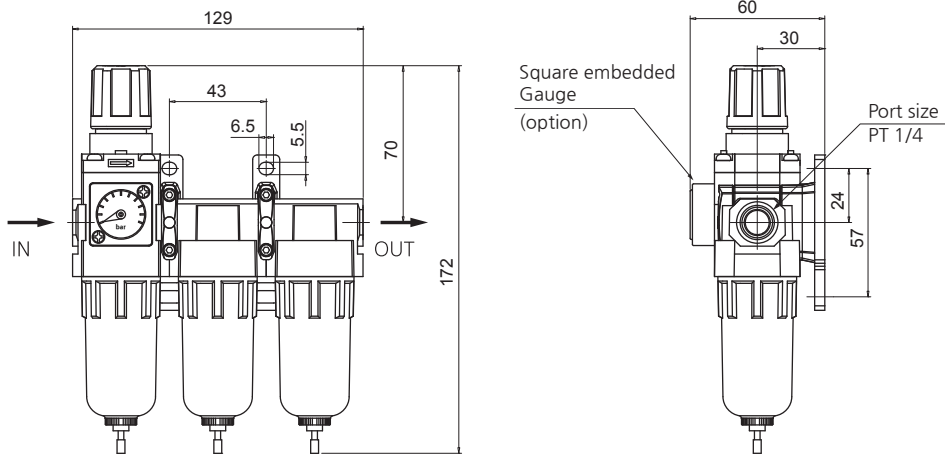
### Precautions

- 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.

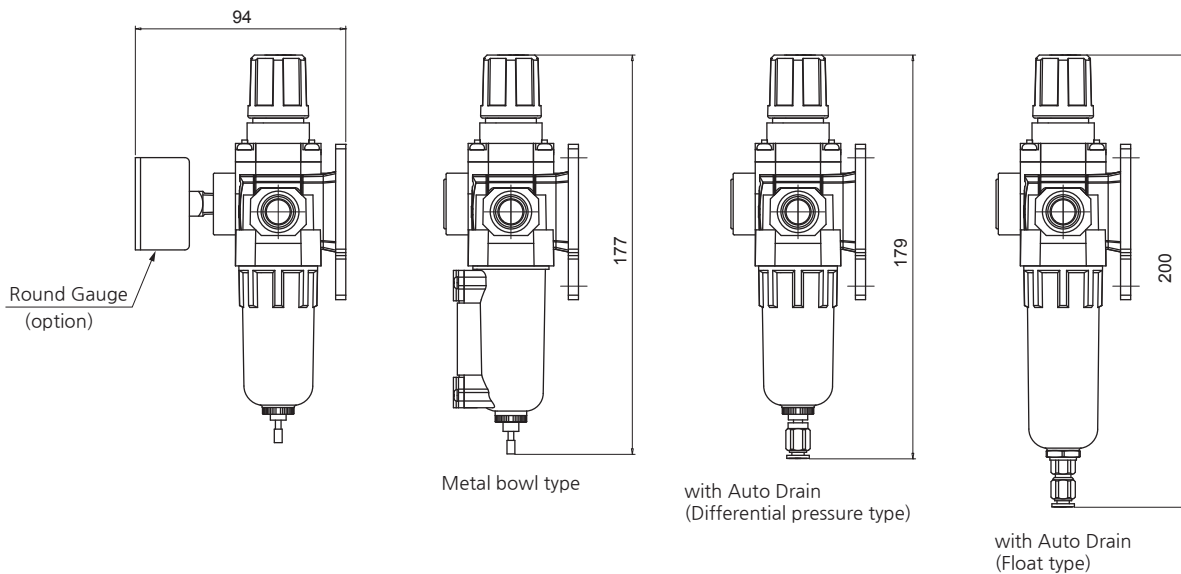
## DIMENSIONS (mm)

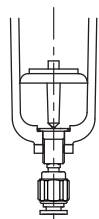
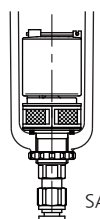


### SAU 260

- 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

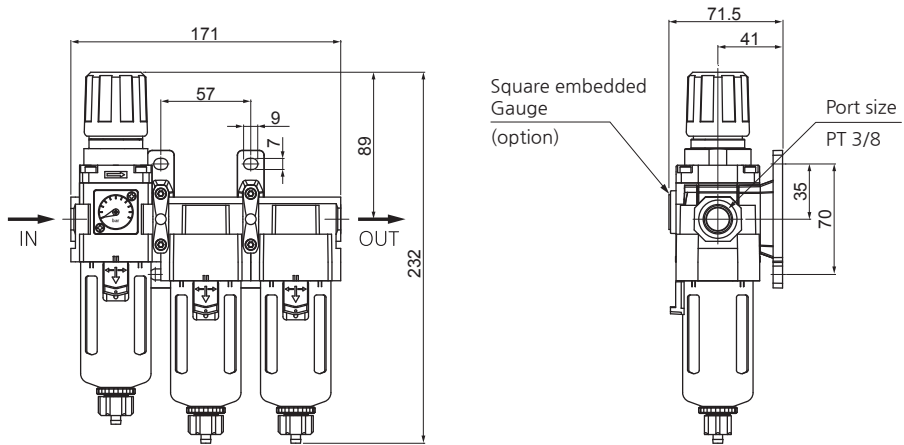
- SAU
- SAU LARGE FLOW
- SAU HIGH PRESS.
- SAW
- SAWM SAWD
- SAF
- SAF LARGE FLOW
- SAFM SAFD
- SAR
- SAR LARGE FLOW
- SAR T-HANDLE
- SAR HIGH PRESS.
- SRP
- SAL
- SAL LARGE FLOW
- AUTO-DRAIN KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Series SAU260~460

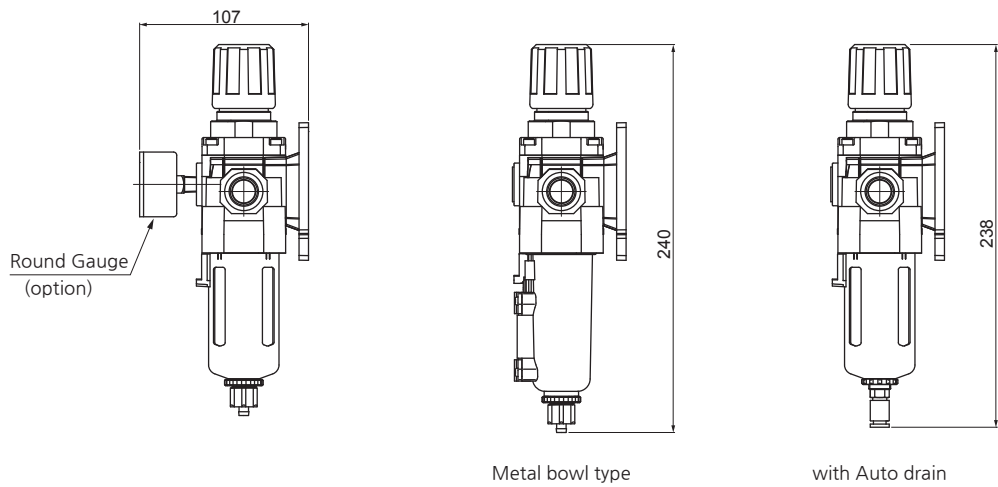
## DIMENSIONS (mm)

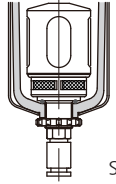


### SAU 360

- SAU360-□03□□-□



- Dimensions of each model with an option attached

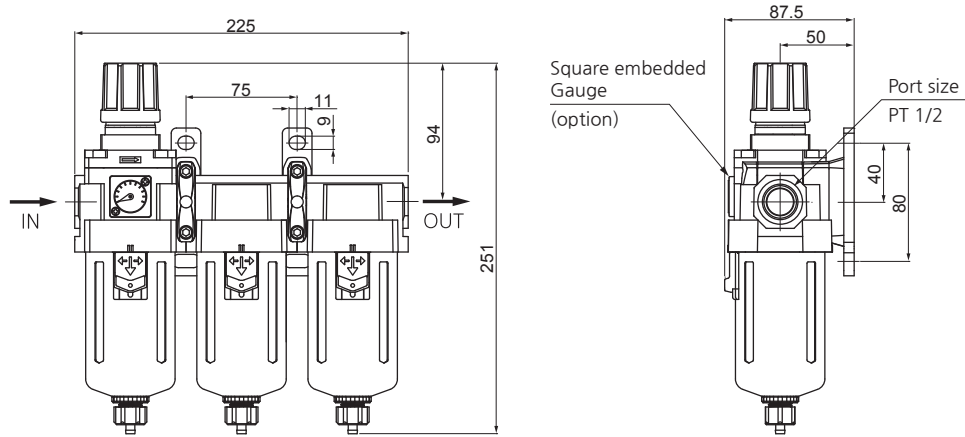


Option	D : Auto Drain	Gauge	
		G : Round type	Gs : Square embedded type
Model	 SAD300	 G40, R1/8	 Gs28

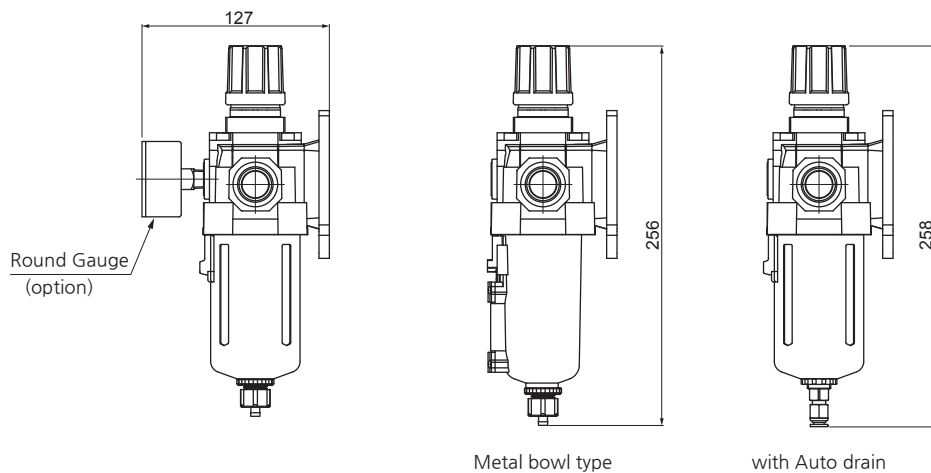
## DIMENSIONS (mm)

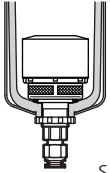


### SAU 460

- SAU460-□04□□-□



- 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

- SAU
- SAU LARGE FLOW
- SAU HIGH PRESS.
- SAW
- SAWM SAWD
- SAF
- SAF LARGE FLOW
- SAFM SAFD
- SAR
- SAR LARGE FLOW
- SAR T-HANDLE
- SAR HIGH PRESS.
- SRP
- SAL
- SAL LARGE FLOW
- AUTO-DRAIN KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Large Flow Air Unit (SAU)

SAU800~900 / SAU820~920 Series



SAU800



SAU820

## How to order

**SAU 8 00 - 14 DG - MeP**

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

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

- 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

- Bowl**  
Nil - PC Bowl  
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°C (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

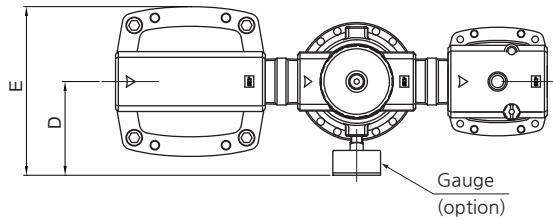
## Precautions

- 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.

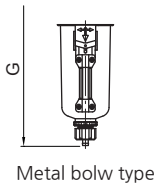
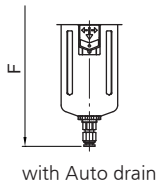
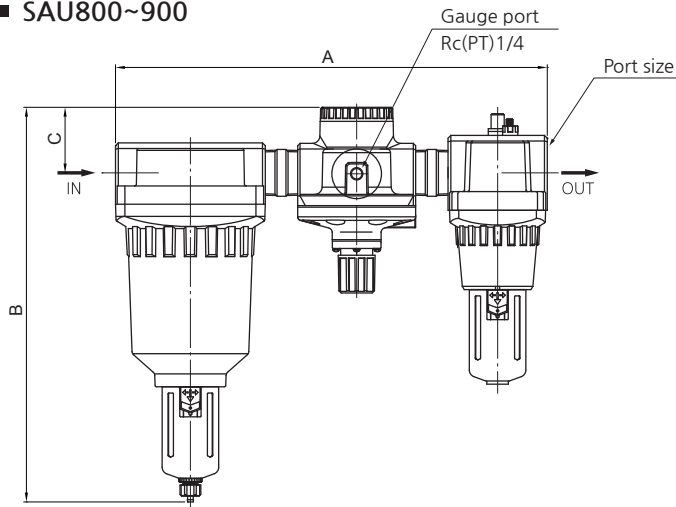
# Large Flow Air Unit

## DIMENSIONS (mm)

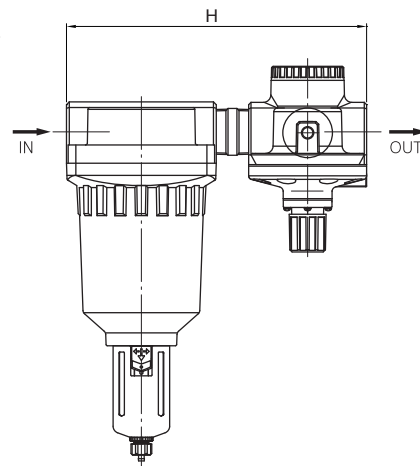
### SAU 800~920



#### SAU800~900



#### SAU820~920



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

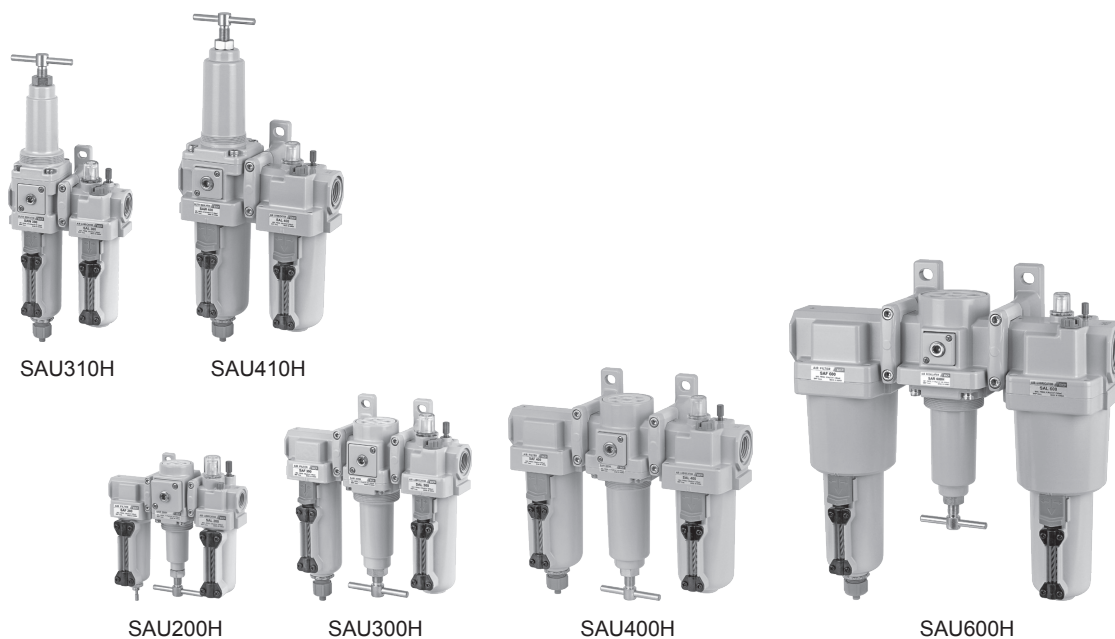
Model	Port size	A	B	C	D	E	F	G	H
SAU800 / SAU820	1 1/4, 1 1/2	462	422	70	100	180	429	427	321
SAU900 / SAU920	2	515	465	80.5	118	208	472	470	375

- SAU
- SAU**  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION



# Air Unit for High Pressure (SAU)

SAU200H~600H / SAU210H~610H Series



## How to order

**SAU 4 00 H - 04 G**

① Air Unit

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

③ Composition  
 00 — Filter(SAF)  
       Regulator(SAR)  
       Lubricator(SAL)  
 10 — Filter Regulator(SAW)  
       Lubricator(SAL)

④ for High pressure

⑤ Thread type  
 Nil - Rc(PT)  
 N - NPT  
 G - G(PF)

⑥ Port Size

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

Note) SAU410H is available 1/2" port size.

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)
Recommended oil(SAL)	Turbin oil (ISO VG32)
Bowl material(SAF, SAL, SAW)	ALDC
Construction(SAR, SAW)	Relief type

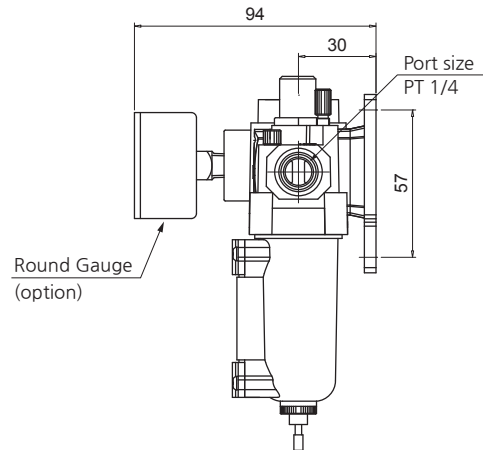
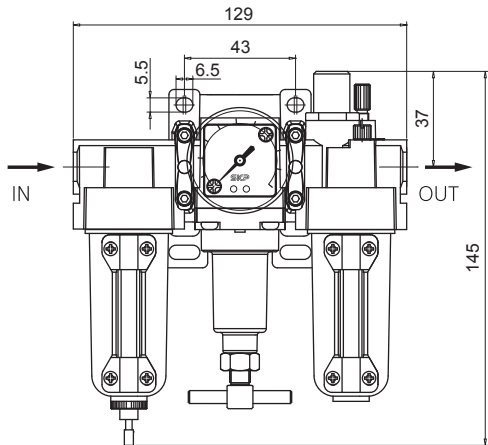
## Precautions

- Do not operate at pressures or temperatures, etc., beyond the range of specifications, as this can cause damage or malfunction. (Refer to the specifications.)
- Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- 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.
- 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.
- Avoid riser piping and branch lines on the outlet side to prevent inferior lubrication.

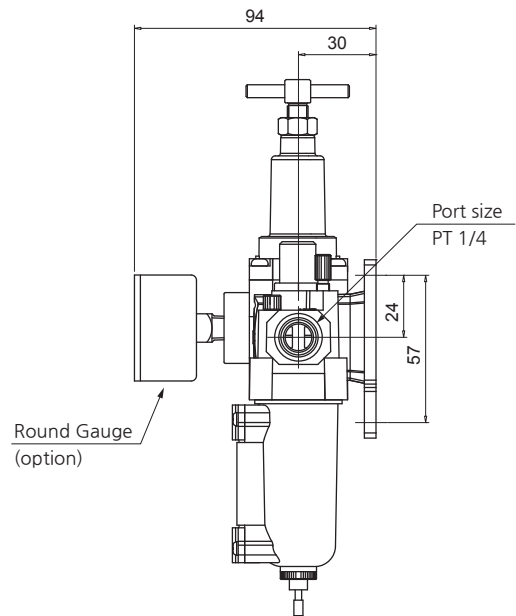
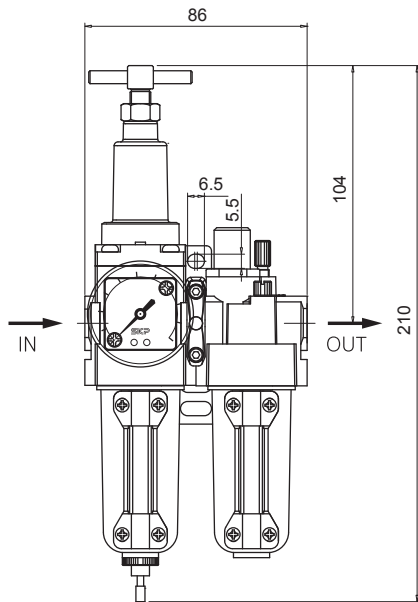
# Air Unit for High Pressure

## DIMENSIONS (mm)

### SAU 200H



### SAU 210H

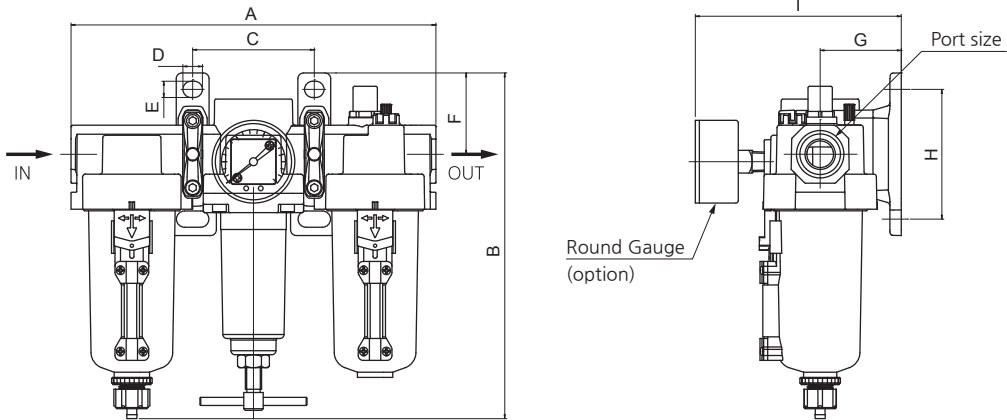


- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

Series SAU200H~600H  
Series SAU210H~610H

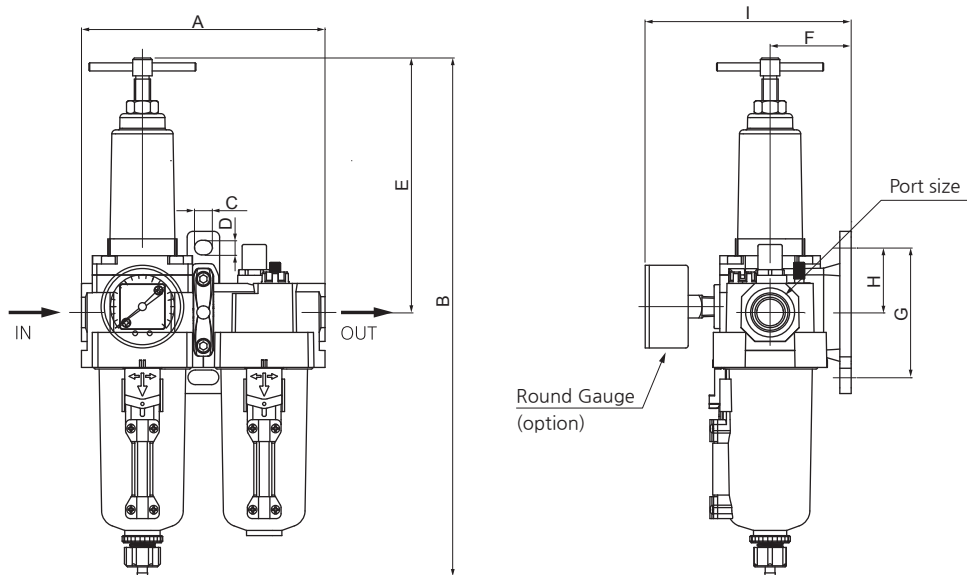
DIMENSIONS (mm)

SAU 300H~400H



Model	Port size	A	B	C	D	E	F	G	H	I
SAU300H-03	3/8	171	190	57	9	7	43	41	70	107
SAU400H-04	1/2	225	213	75	11	9	50	50	80	127
SAU400H-06	3/4	225	217	75	11	9	50	50	80	127

SAU 310H~410H

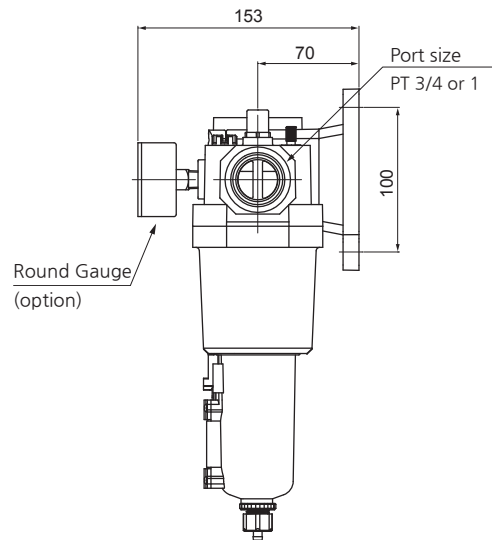
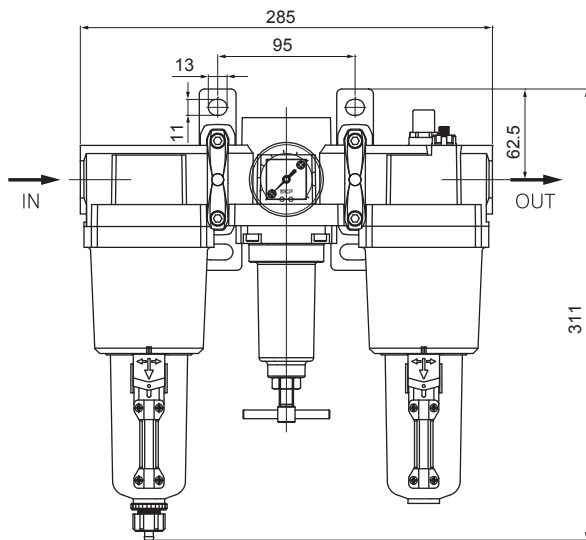


Model	Port size	A	B	C	D	E	F	G	H	I
SAU310H-03	3/8	114	284	9	7	136	41	70	35	107
SAU410H-04	1/2	150	314	11	9	155	50	80	40	127

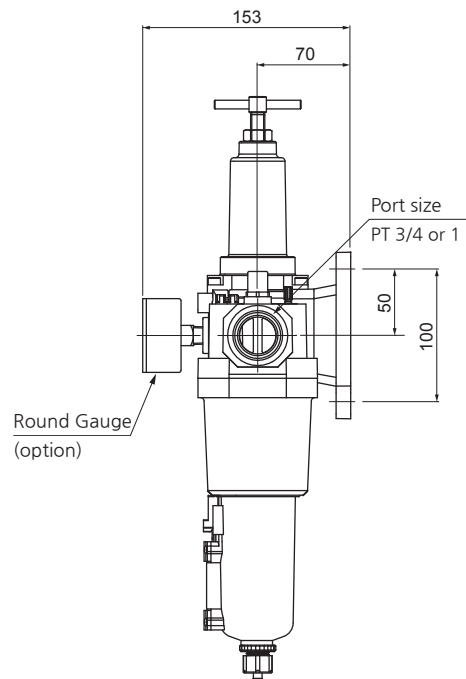
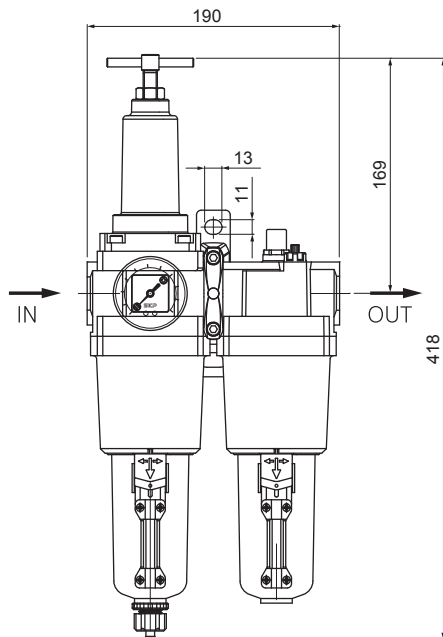
# Air Unit for High Pressure

## DIMENSIONS (mm)

### SAU 600H



### SAU 610H

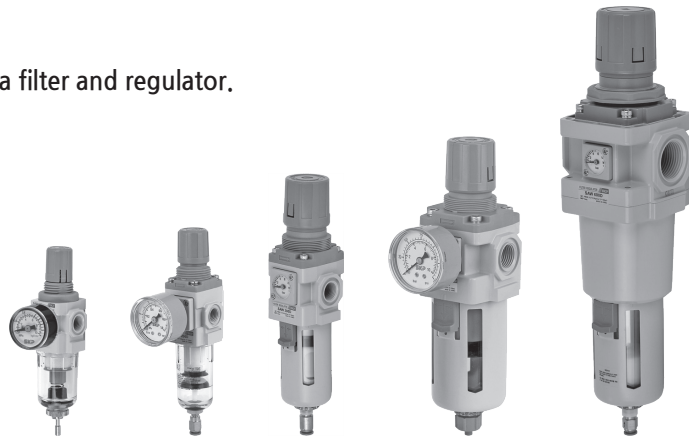


- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# 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

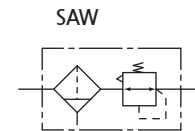
G	Round type gauge
Gs	Square embedded type

Note) SAW100 is available only round type gauge.

⑦ Bowl

- Nil - PC bowl
- MeP - Metal bowl with pipe type sight glass

### Symbol



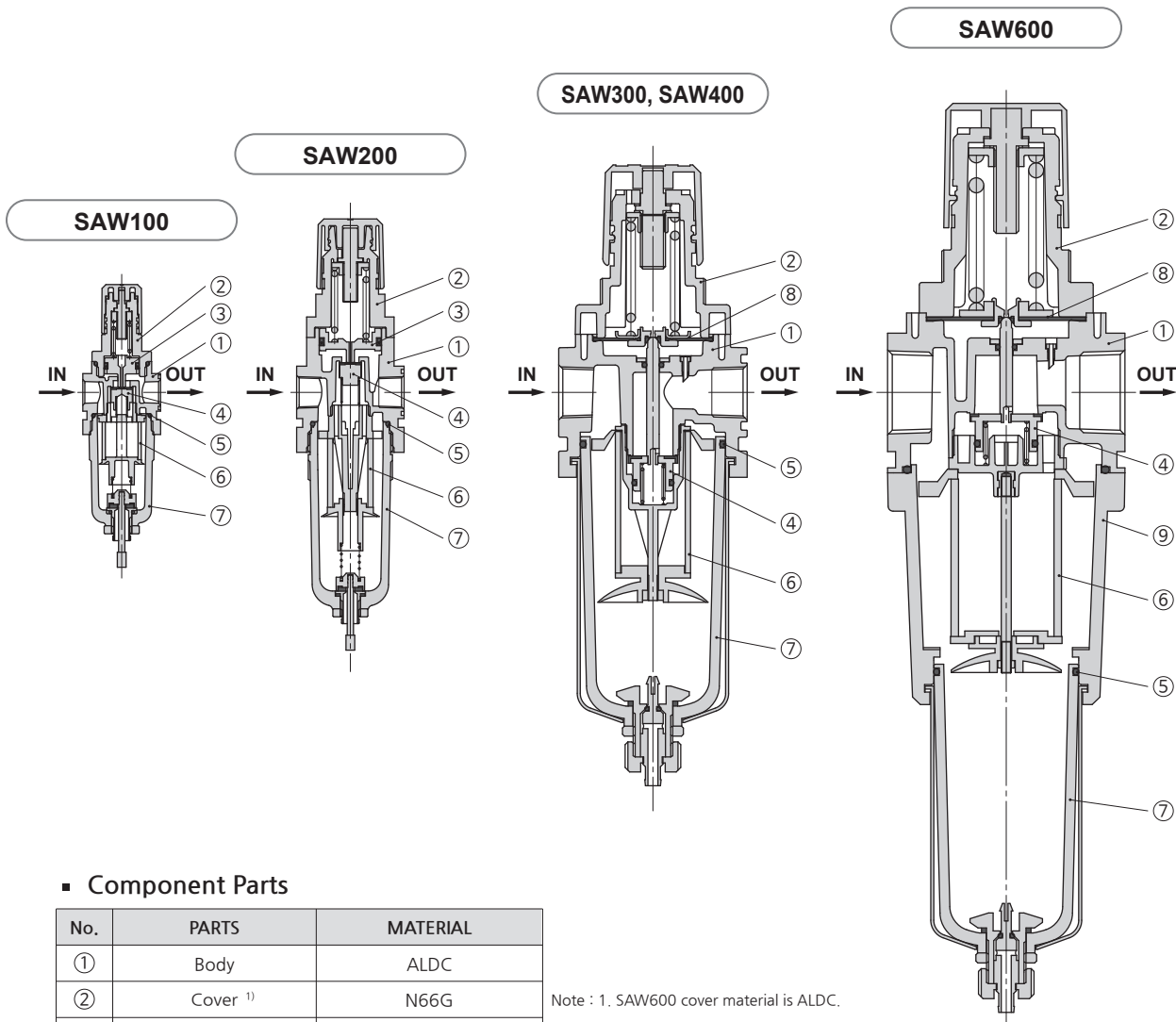
### Specification

Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	-5~60°C (No freezing)
Regulating range	0.5~8.5bar (0.05~0.85MPa)
Filtration	10µm (option: 2, 5, 20, 40)
Bowl material	Poly-carbonate (option: ALDC)
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.
- ⑤ When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- ⑥ When auto drain is inoperable, drain manually by pushing the one-touch fitting upward.

## STRUCTURE / PARTS



### Component Parts

No.	PARTS	MATERIAL
①	Body	ALDC
②	Cover <sup>1)</sup>	N66G
③	Piston <sup>2)</sup>	N66G
④	Check valve Ass'y	Brass, NBR
⑦	Bowl Ass'y <sup>3)</sup>	PC
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

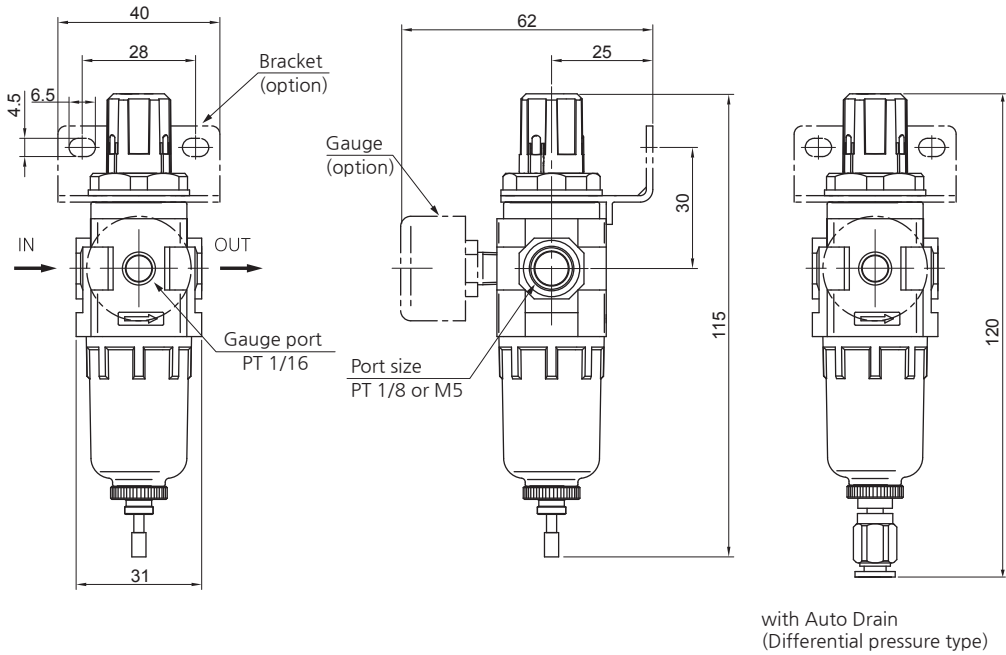
- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW**
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

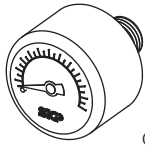
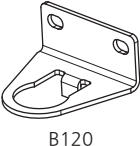
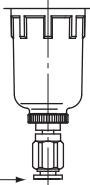
# Series SAW100~600

## DIMENSIONS (mm)

### SAW 100

- SAW100-□01(M5)□□



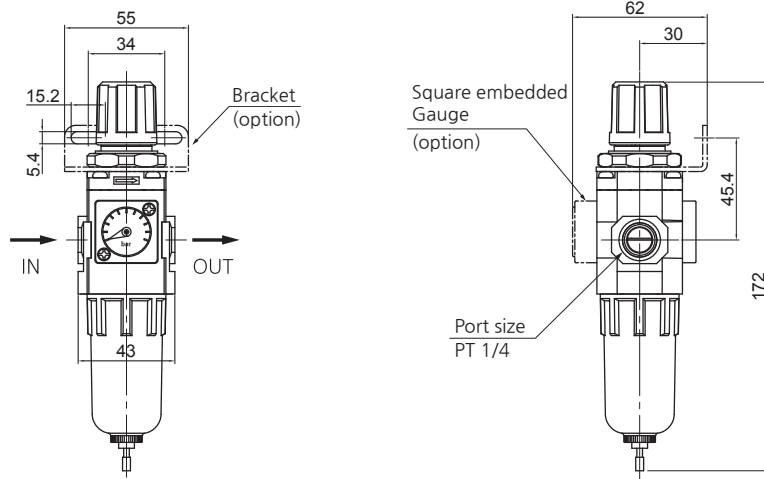
Option	G : Gauge	B : Bracket	D : Auto Drain (Differential pressure type)
Model	 G25, R1/16	 B120	 φ4mm One-touch fitting

# Filter Regulator

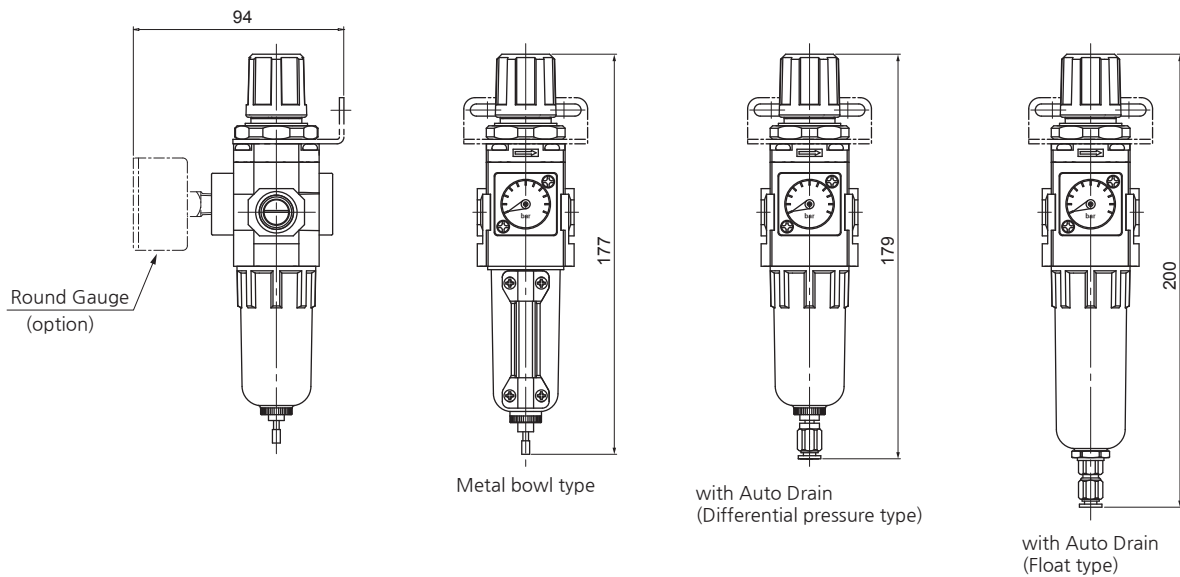
## DIMENSIONS (mm)

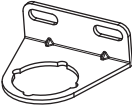


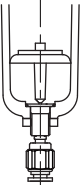
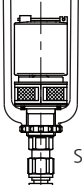
### SAW 200

- 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

- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW**
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

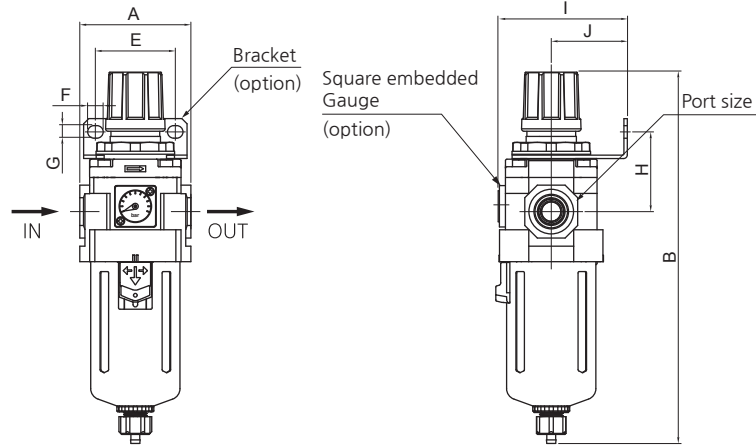


# Series SAW100~600

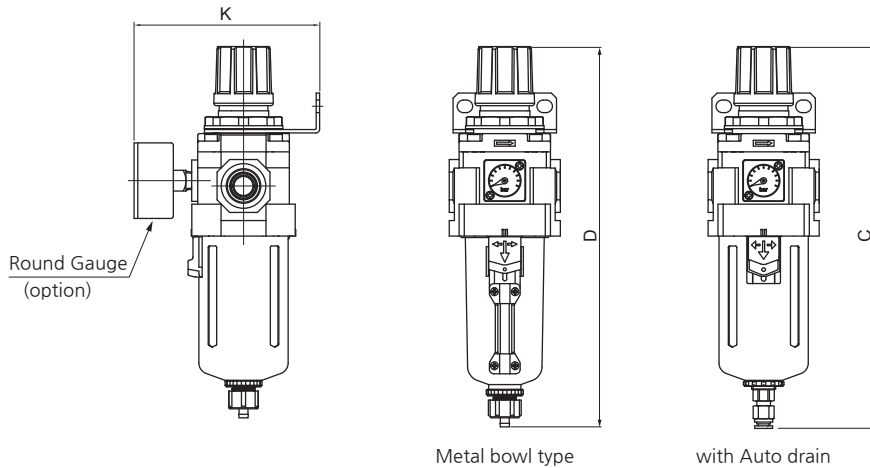
## DIMENSIONS (mm)

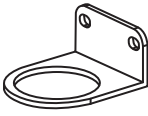



### SAW 300~400

- SAW300-□03□□□-□
- SAW400-□04□□□-□



#### Dimensions of each model with an option attached



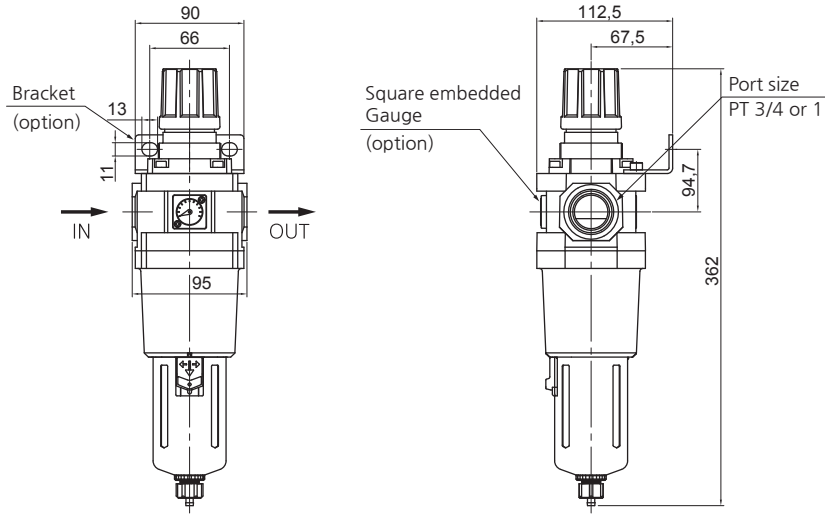
Option	B : Bracket	D : Auto Drain	Gauge	
			G : Round type	Gs : Square embedded type
Model	 SAW300 : B320 SAW400 : B420	 SAW300 : SAD300 SAW400 : SAD400	 SAW300 : G40, R1/8 SAW400 : G50, R1/4	 Gs28

Model	Port size	A	B	C	D	E	F	G	H	I	J	K
SAW300-03	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

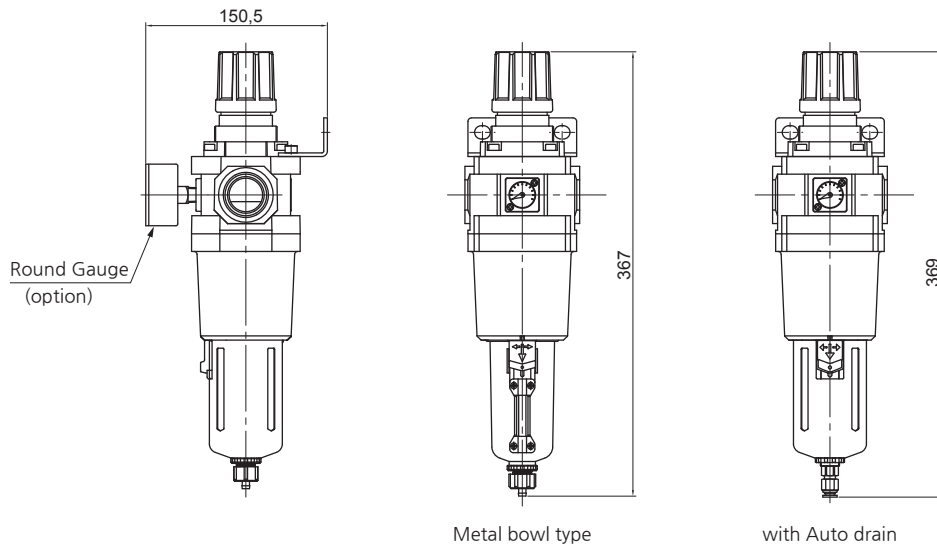
## DIMENSIONS (mm)

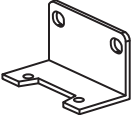
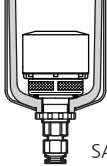


### SAW 600

- SAW600-□06(10)□□□-□



- Dimensions of each model with an option attached



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

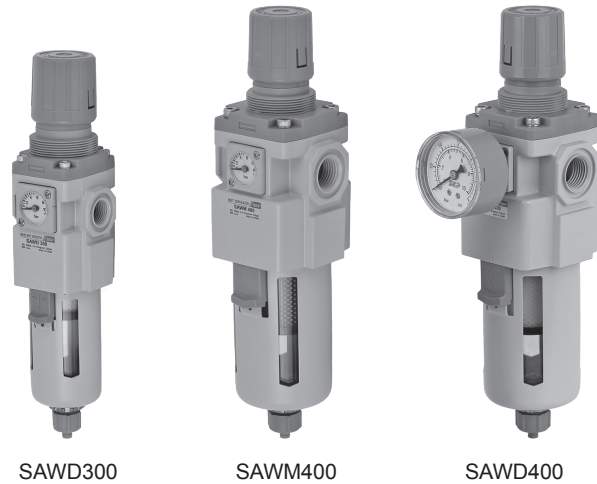
- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW**
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# 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**

Symbol	Size	Body size		
		2	3	4
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	●	-	-

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

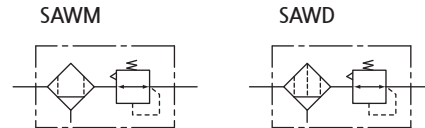
- G - Gauge

G	Round type gauge
Gs	Square embedded type

⑤ **Bowl**

- Nil - PC bowl
- MeP - Metal bowl with pipe type sight glass

### Symbol



### Specification

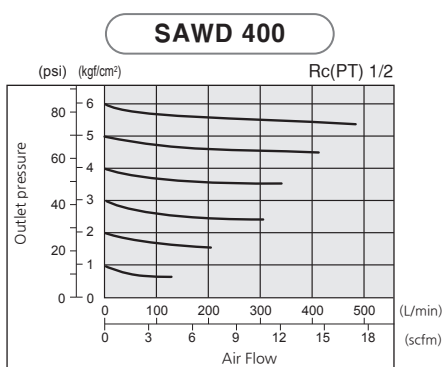
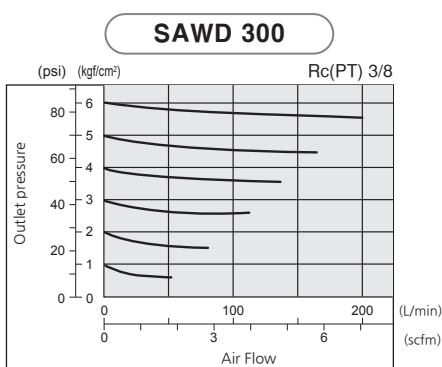
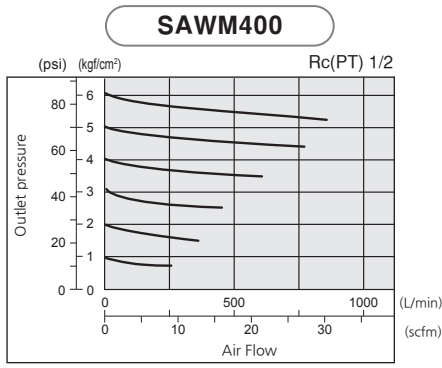
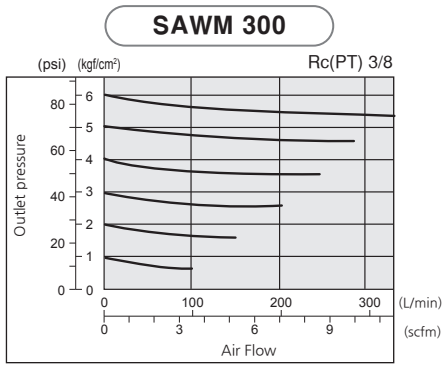
Fluid	Compressed Air	
Max. operating pressure	10bar (1.0MPa)	
Max. supply pressure	15bar (1.5MPa)	
Ambient and Media temp.	-5~60℃ (No freezing)	
Regulating range	0.5~8.5bar (0.05~0.85MPa)	
Filtration	SAWM	0.1μm
	SAWD	0.01μm
Bowl material	Poly-carbonate (option: ALDC)	
Construction	Relief type	

### Precautions

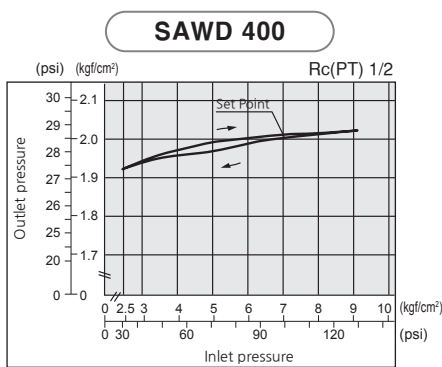
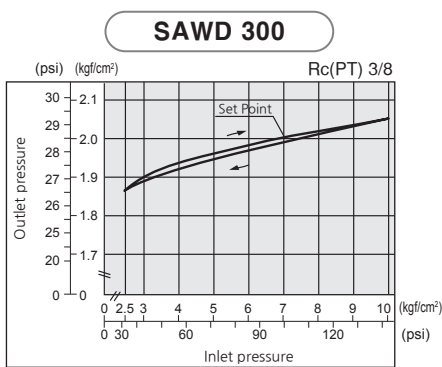
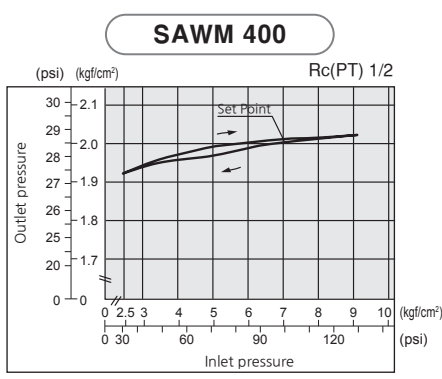
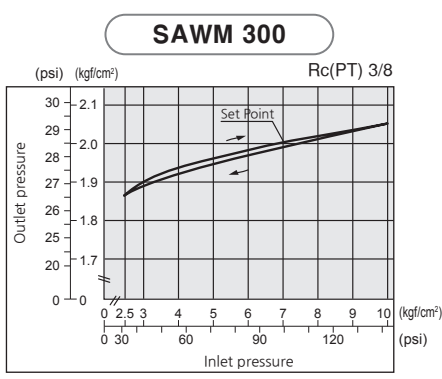
- ① Set the outlet pressure range for the regulator in a range that is 85% or less of the inlet pressure. If set above 85%, the inlet pressure will be easily effected by fluctuations in the flow rate and inlet pressure, and will become unstable.
- ② To set the pressure using the knob, turn the knob in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

## FLOW CHARACTERISTICS Inlet pressure 7kg/cm<sup>2</sup>



## PRESSURE CHARACTERISTICS Inlet pressure 7kg/cm<sup>2</sup>, Outlet pressure 2kg/cm<sup>2</sup>, Flow 20L/min(ANR)



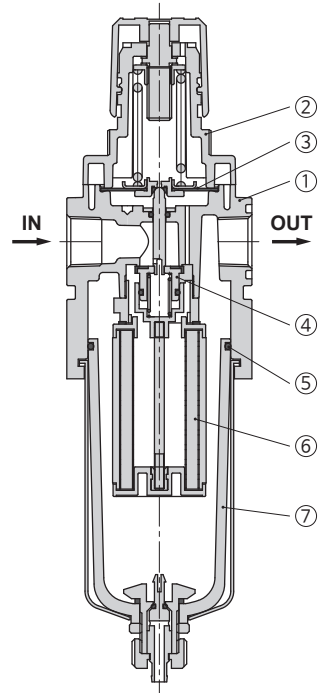
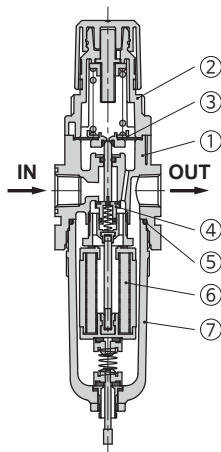
- SAU
- SAU LARGE FLOW
- SAU HIGH PRESS.
- SAW
- SAWM**
- SAWD**
- SAF
- SAF LARGE FLOW
- SAFM
- SAFD
- SAR
- SAR LARGE FLOW
- SAR T-HANDLE
- SAR HIGH PRESS.
- SRP
- SAL
- SAL LARGE FLOW
- AUTO-DRAIN KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

**Series SAWM200~400**  
**Series SAWD200~400**

**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 <sup>1)</sup>	PC

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

■ **Replacement Parts**

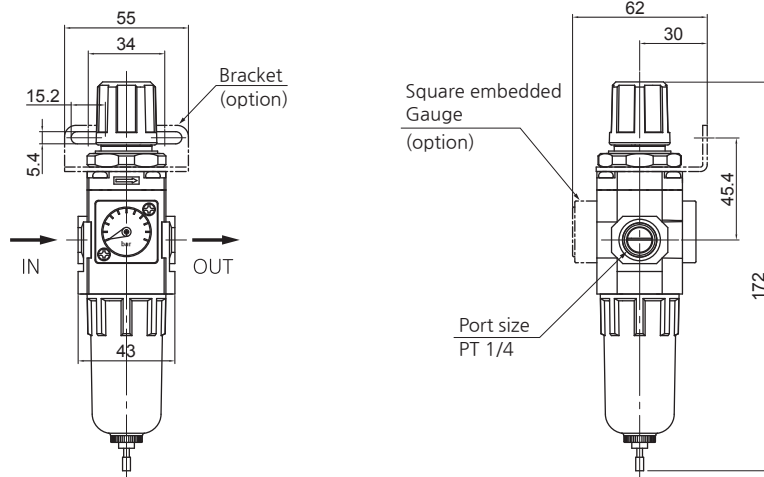
No.	PARTS	MATERIAL	Part no.					
			SAWM200	SAWD200	SAWM300	SAWD300	SAWM400	SAWD400
⑤	O-ring	NBR	U024		38x2		U137	
⑥	Filter	-	WM200-EL	WD200-EL	WM300-EL	WD300-EL	WM400-EL	WD400-EL

# Mist Separator Regulator Micro Mist Separator Regulaor

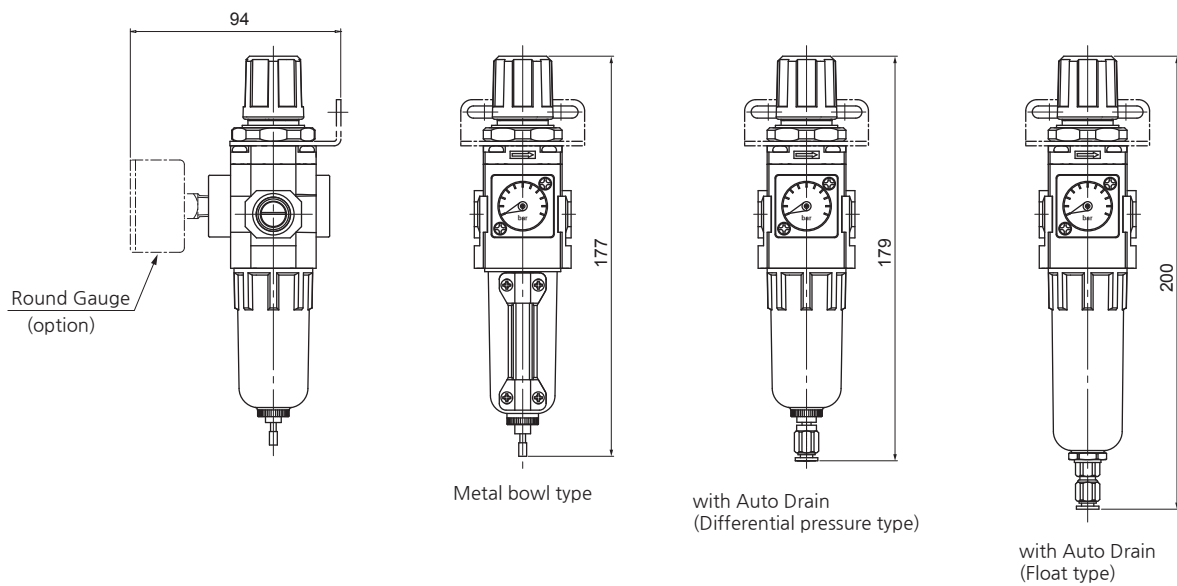
## DIMENSIONS (mm)

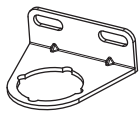


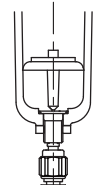
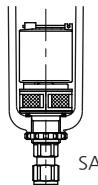
### SAWM(SAWD) 200

- SAWM(SAWD)200-□□□□□□-□



- 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

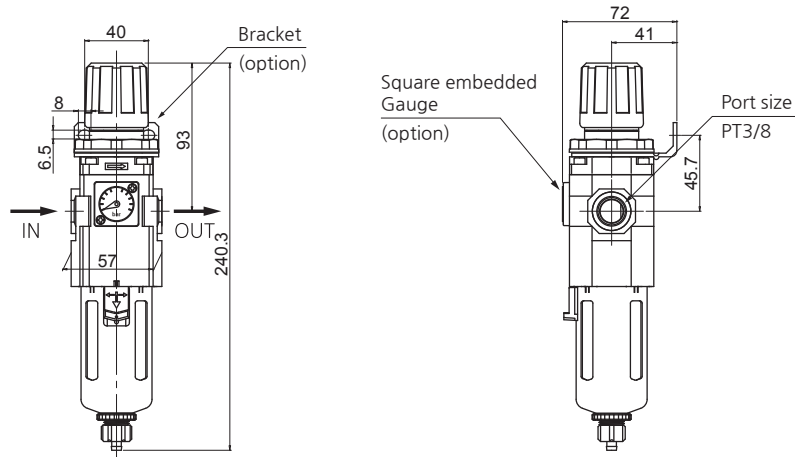
- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD**
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

Series SAWM200~400  
Series SAWD200~400

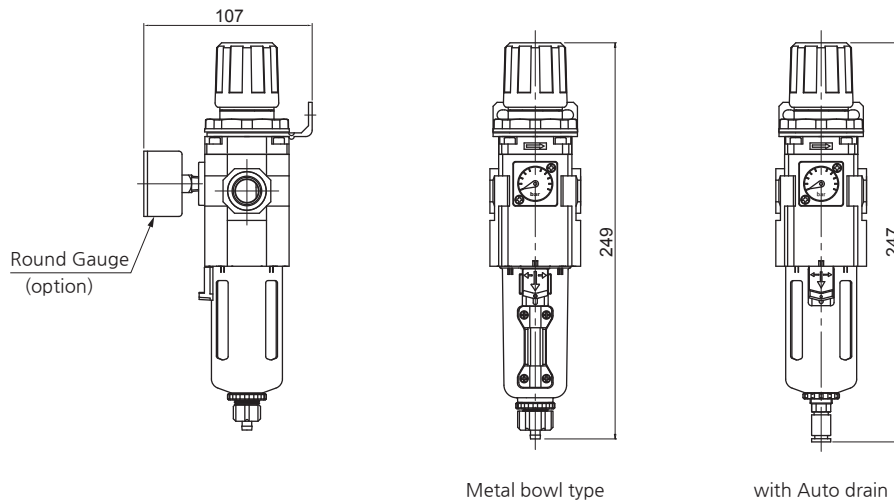
DIMENSIONS (mm)

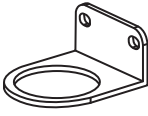
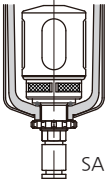


SAWM(SAWD) 300

- SAWM(SAWD)300-□03□□□-□



- Dimensions of each model with an option attached



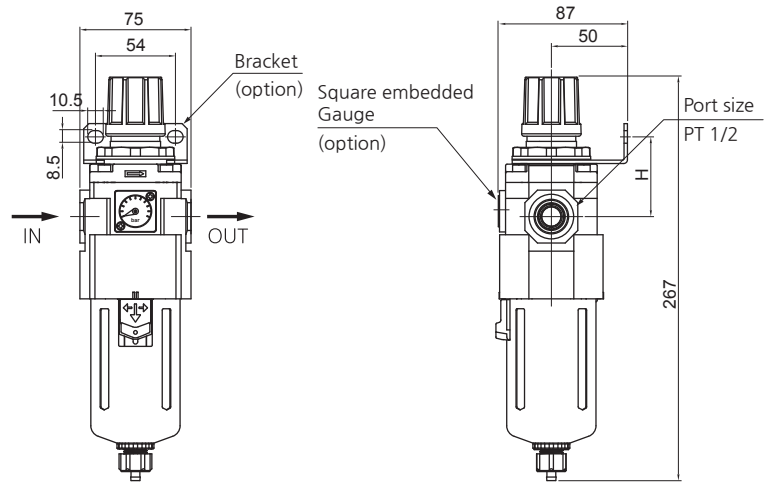
Option	B : Bracket	D : Auto Drain	Gauge	
			G : Round type	Gs : Square embedded type
Model	 B320	 SAD300	 G40, R1/8	 Gs28

# Mist Separator Regulator Micro Mist Separator Regulaor

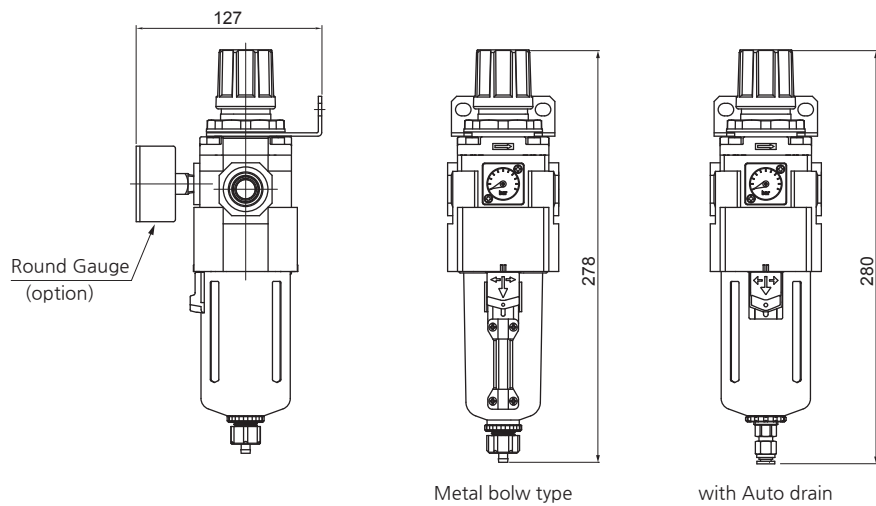
## DIMENSIONS (mm)

### SAWM(SAWD) 400

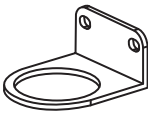
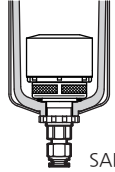


- SAWM(SAWD)400-□04□□□-□



- Dimensions of each model with an option attached



- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD**
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

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

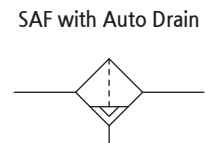
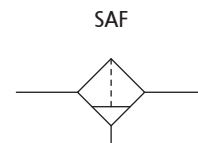
Symbol	Description	Body				
		1	2	3	4	6
D	One-touch fitting type	●	●	●	●	●
Dn	Nipple(PT1/8) type	-	-	●	●	●
Df	SAF200 Float type	-	●	-	-	-

⑥ Bowl

- Nil - PC bowl
- MeP - Metal bowl with pipe type sight glass

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

### 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 material	Poly-carbonate (option: ALDC)

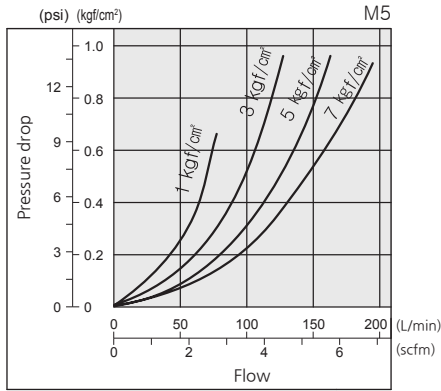
### Precautions

- ① Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- ② Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- ③ When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- 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.

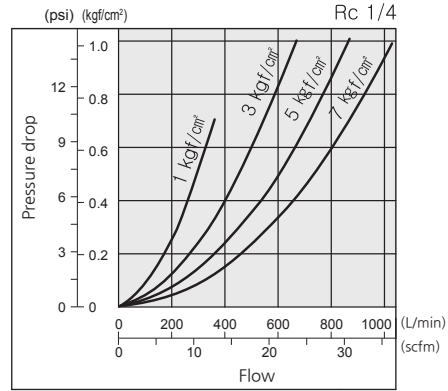
## FLOW CHARACTERISTICS

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

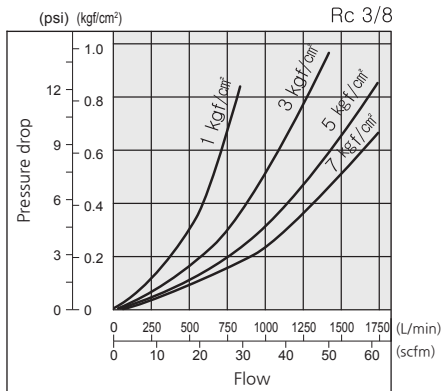
### SAF 100



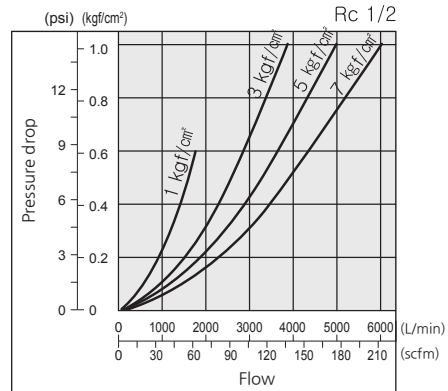
### SAF 200



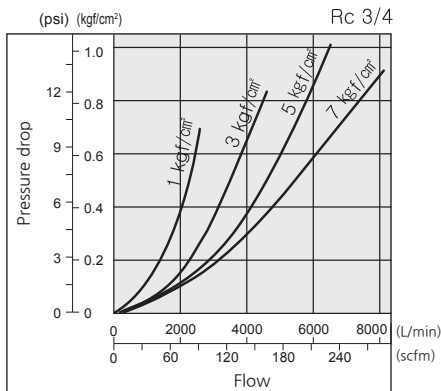
### SAF 300



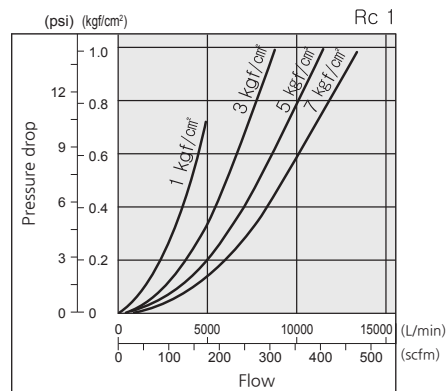
### SAF 400-04



### SAF 400-06



### SAF 600



SAU

SAU  
LARGE FLOW

SAU  
HIGH PRESS.

SAW

SAWM  
SAWD

SAF

SAF  
LARGE FLOW

SAFM  
SAFD

SAR

SAR  
LARGE FLOW

SAR  
T-HANDLE

SAR  
HIGH PRESS.

SRP

SAL

SAL  
LARGE FLOW

AUTO-DRAIN  
KITS

SHVS

SPS100

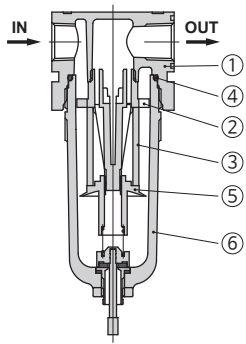
ACCESSORY

CAUTION

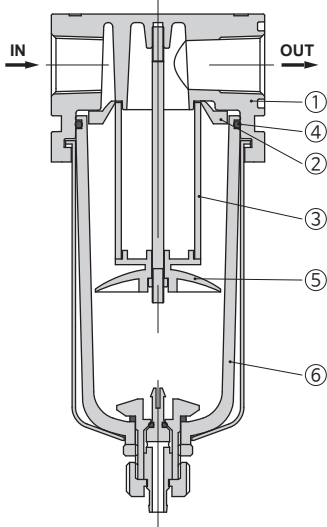
# Series SAF100~600

## STRUCTURE / PARTS

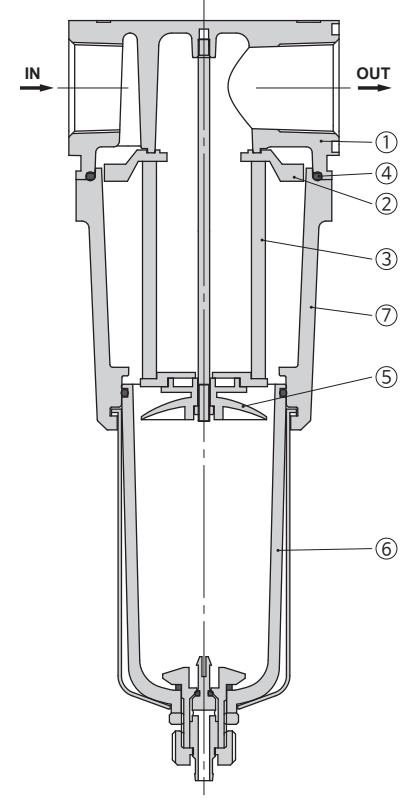
SAF100, SAF200



SAF300, SAF400



SAF600



### Component Parts

No.	PARTS	MATERIAL
①	Body	ALDC
②	Impeller	ABS
⑤	Baffle	ABS
⑥	Bowl Ass'y <sup>1)</sup>	PC
⑦	Housing	ALDC

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

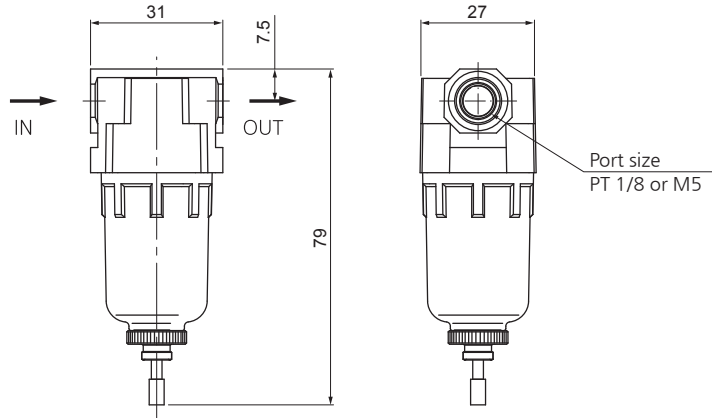
### Replacement Parts

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

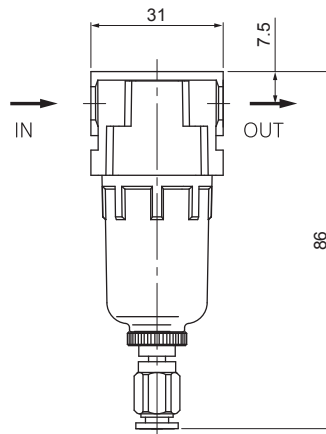
## DIMENSIONS (mm)

### 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	<p>Φ4mm one-touch fitting</p>

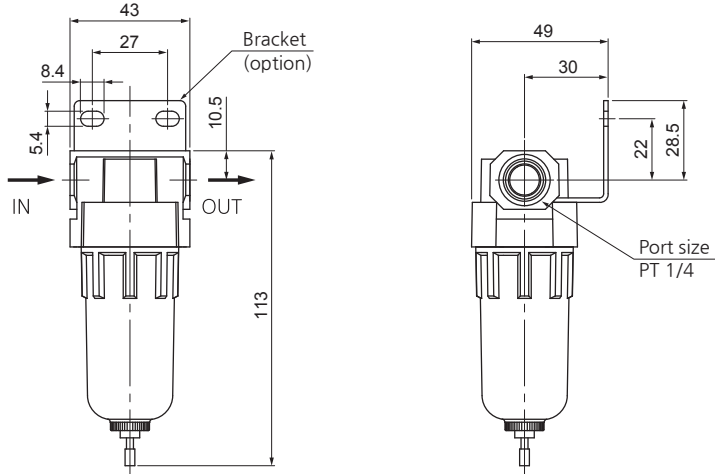
- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF**
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Series SAF100~600

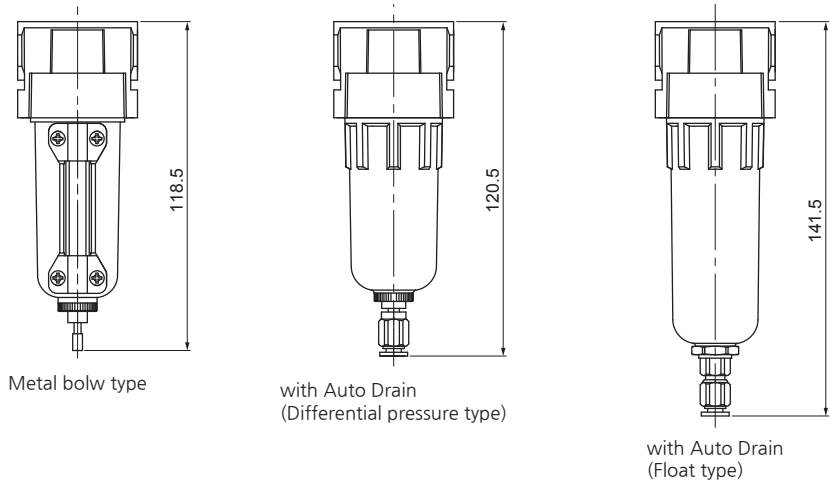
## DIMENSIONS (mm)

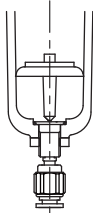
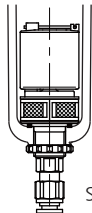
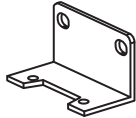
### SAF 200

- SAF200-□02□□



- Dimensions of each model with an option attached

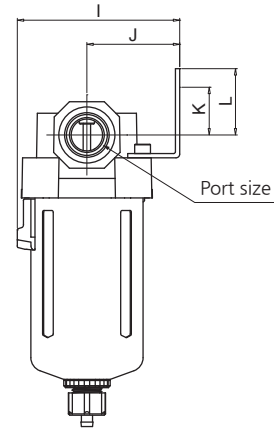
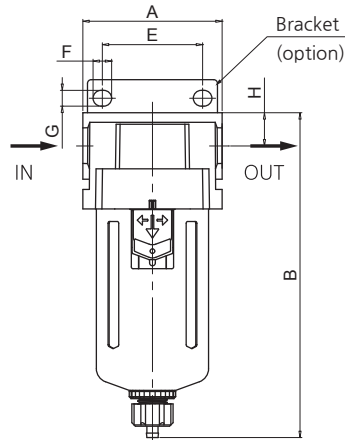


Option	Auto Drain		B : Bracket
	D : Differential pressure type	Df : Float type	
Model		 SAD200	 B200

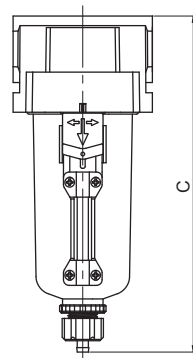
## DIMENSIONS (mm)

### SAF 300~400

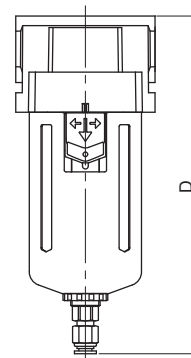
- SAF300-□03□□
- SAF400-□04(06)□□



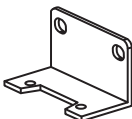
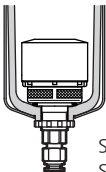
- Dimensions of each model with an option attached



Metal bowl type



with Auto drain

Option	B : Bracket	D : Auto Drain
Model	 <p>SAF300 : B300 SAF400 : B400</p>	 <p>SAF300 : SAD300 SAF400 : SAD400</p>

Model	Port size	A	B	C	D	E	F	G	H	I	J	K	L
SAF300-03	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

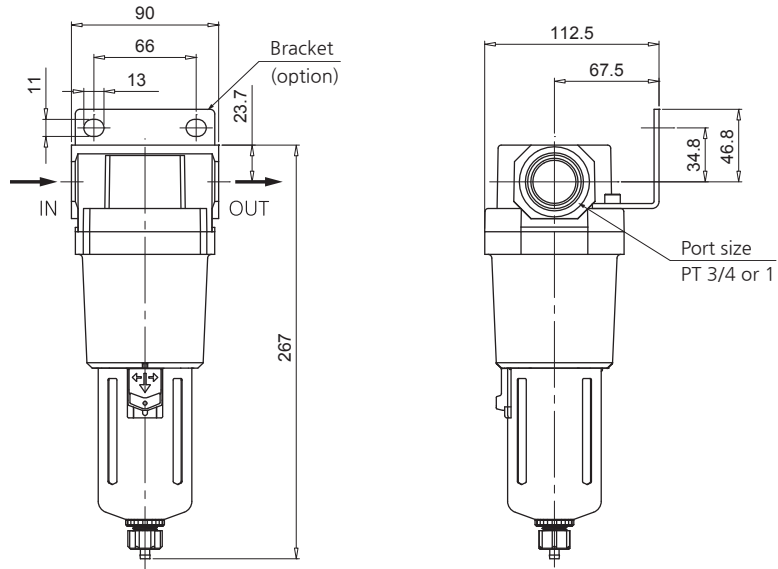
- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Series SAF100~600

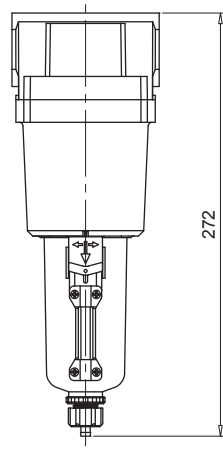
## DIMENSIONS (mm)

### SAF 600

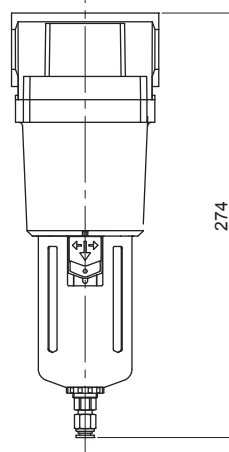
- SAF600-□06□□
- SAF600-□10□□



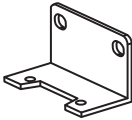
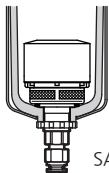
- Dimensions of each model with an option attached



Metal bowl type



with Auto drain

Option	B : Bracket	D : Auto Drain
Model	 B600	 SAD400

# Large Flow Air Filter (SAF)

## SAF800~900 Series



- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW**

### How to order

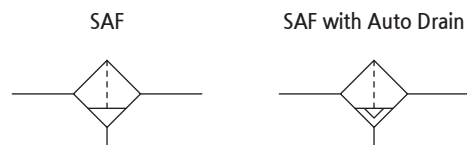
**SAF 8 00 - 14 BD - MeP**

- 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)**

Symbol	Drain type	Drain connector
D	Float	One-touch fitting(Φ6mm)
Dn	Float	Nipple(PT 1/8)
- ⑥ **Bowl**  
Nil - PC bowl  
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°C (No freezing)	
Filtration	5µm (option: 40)	
Bowl material	Poly-carbonate (option: ALDC)	

### Precautions

- ① Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- ② Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- ③ When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- 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.

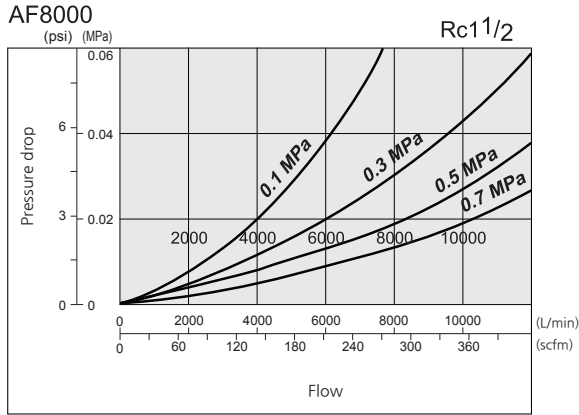
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION



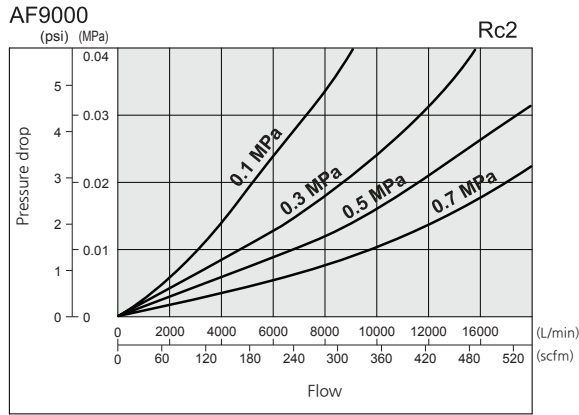
# Series SAF800~900

## FLOW CHARACTERISTICS

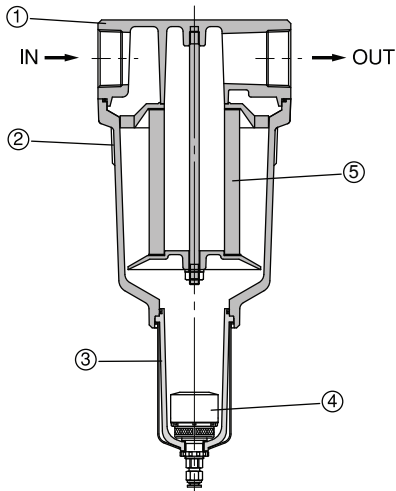
### SAF 8000



### SAF 9000



## STRUCTURE / PARTS



### Component Parts

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

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

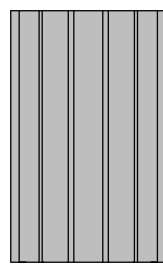
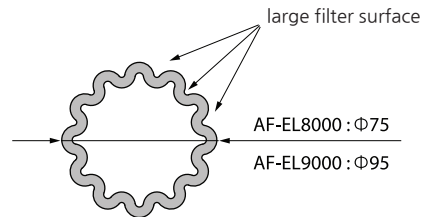
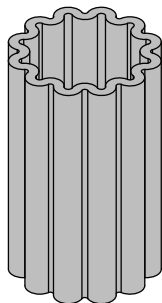
### Replacement Parts

(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

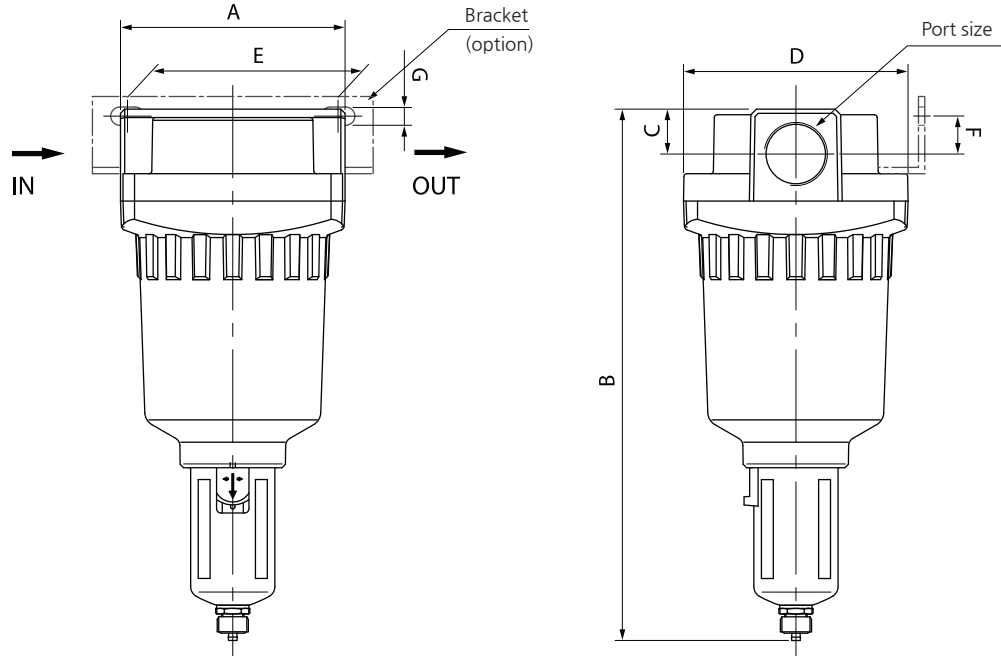


AF-EL8000 : 120 mm  
AF-EL9000 : 180 mm



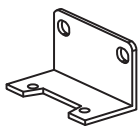
# Large Flow Air Filter

## DIMENSIONS (mm)

### SAF800~900



Model	Port size	A	B	C	D	E	F	G
SAF800	1 1/4, 1 1/2	160	380	32	160	150	27	13
SAF900	2	180	456	42	180	150	30	13

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

Bowl	PC Bowl			Metal Bowl	
	With D	With Dn	Manual Drain	With D	With Dn
SAF800	386	378	384	390	382
SAF900	462	454	460	466	458

SAU

SAU  
LARGE FLOWSAU  
HIGH PRESS.

SAW

SAWM  
SAWD

SAF

SAF  
LARGE FLOWSAFM  
SAFD

SAR

SAR  
LARGE FLOWSAR  
T-HANDLESAR  
HIGH PRESS.

SRP

SAL

SAL  
LARGE FLOWAUTO-DRAIN  
KITS

SHVS

SPS100

ACCESSORY

CAUTION

# Mist Separator (SAFM)

## Micro Mist Separator (SAFD)

SAFM200~400 Series  
SAFD200~400 Series

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



SAFM200



SAFD200

### 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**

Symbol	Size	Body size		
		2	3	4
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	●	-	-

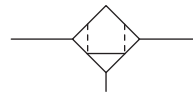
주) 1. SAFM, SAFD200 are differential pressure type.  
2. SAFM, SAFD300~400 are float type.

⑤ **Bowl**

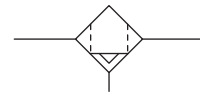
- Nil - PC bowl
- MeP - Metal bowl with pipe type sight glass

### Symbol

SAFM  
SAFD



오토드레인부착 SAFM  
오토드레인부착 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	0.1μm
	SAFD	0.01μm
Construction	Poly-carbonate (option: ALDC)	

### Precautions

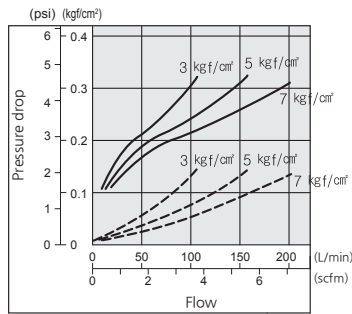
- ① Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- ② Components with a bowl must be installed vertically with the bowl downward so that faulty drain discharge and dripping can be verified.
- ③ When auto drain is used, drain piping should be both 4mm or greater in diameter and less than 1m in length. Avoid installing drain piping upwards.
- 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.

# Mist Separator Micro Mist Separator

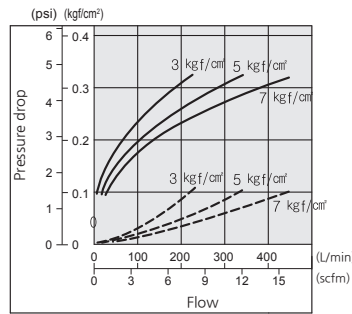
## FLOW CHARACTERISTICS

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

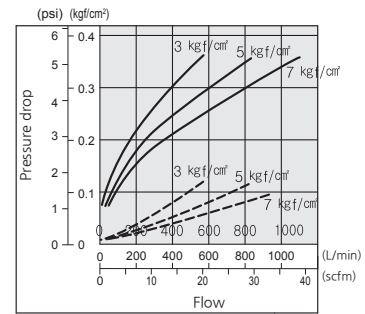
### SAFM 200



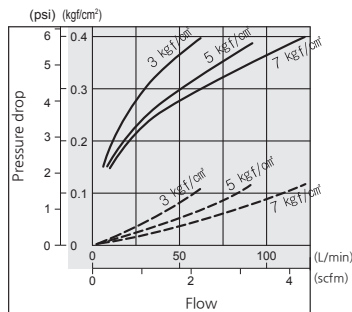
### SAFM 300



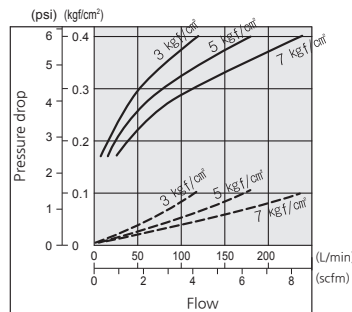
### SAFM 400



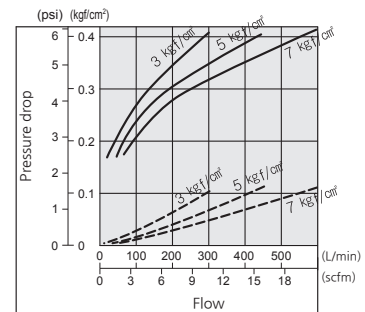
### SAFD 200



### SAFD 300

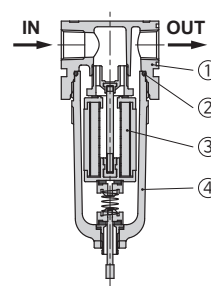


### SAFD 400

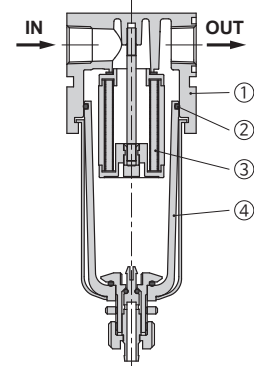


## STRUCTURE / PARTS

### SAFM 200 SAFD 200



### SAFM 300 to 400 SAFD 300 to 400



### Component Parts

No.	PARTS	MATERIAL
①	Body	ALDC
④	Bowl Ass'y <sup>1)</sup>	PC

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

SAU

SAU  
LARGE FLOW

SAU  
HIGH PRESS.

SAW

SAWM  
SAWD

SAF

SAF  
LARGE FLOW

SAFM  
SAFD

SAR

SAR  
LARGE FLOW

SAR  
T-HANDLE

SAR  
HIGH PRESS.

SRP

SAL

SAL  
LARGE FLOW

AUTO-DRAIN  
KITS

SHVS

SPS100

ACCESSORY

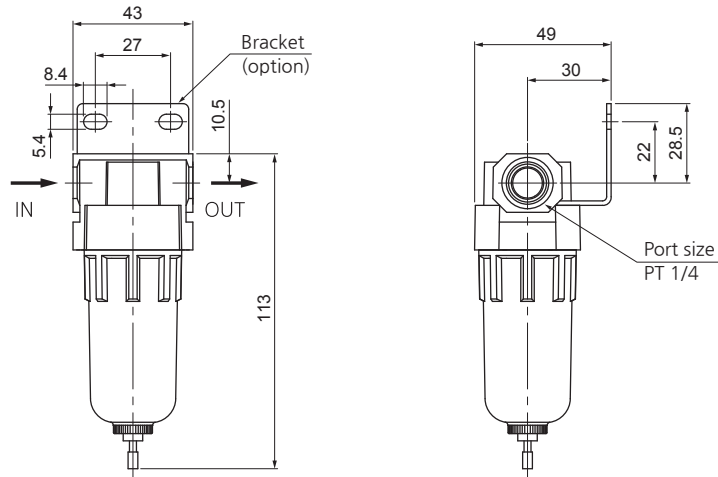
CAUTION

Series SAFM200~400  
Series SAFD200~400

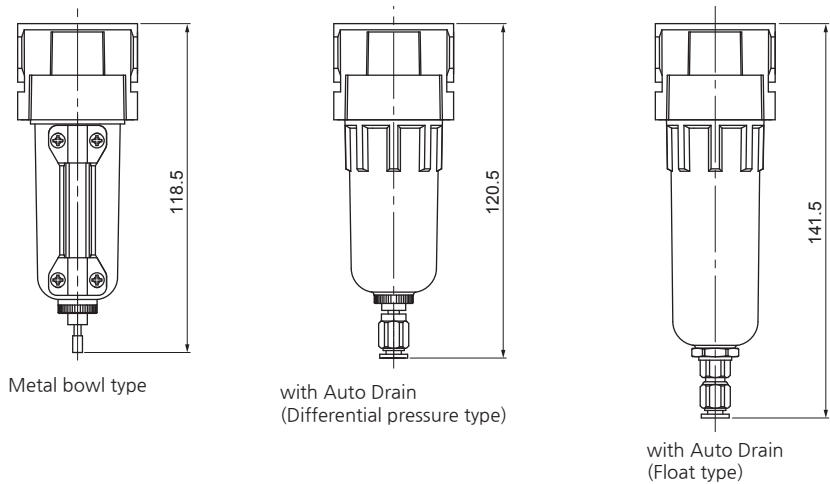
DIMENSIONS (mm)

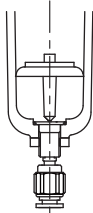
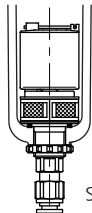
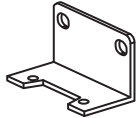
SAFM(SAFD) 200

SAFM(SAFD) 200-□02□□



Dimensions of each model with an option attached



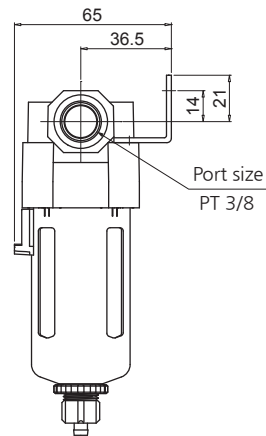
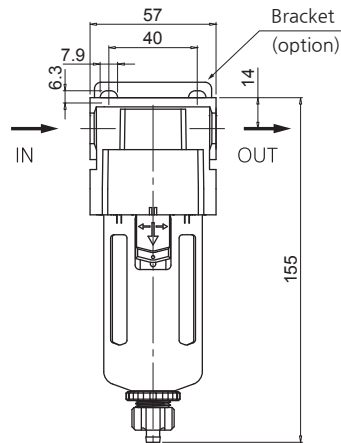
Option	Auto Drain		B : Bracket
	D : Differential pressure type	Df : Float type	
Model		 SAD200	 B200

# Mist Separator Micro Mist Separator

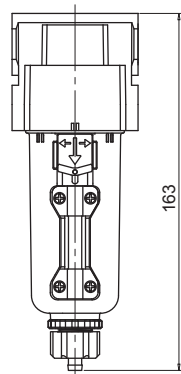
## DIMENSIONS (mm)

### SAFM(SAFD) 300

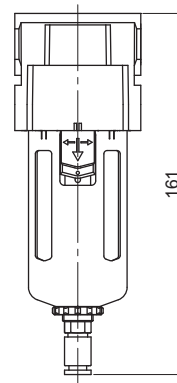
- SAFM(SAFD)300-□03□□



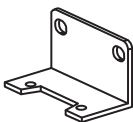
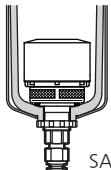
- Dimensions of each model with an option attached



Metal bowl type



with Auto drain

Option	B : Bracket	D : Auto Drain
Model	 <p>B300</p>	 <p>SAD300</p>

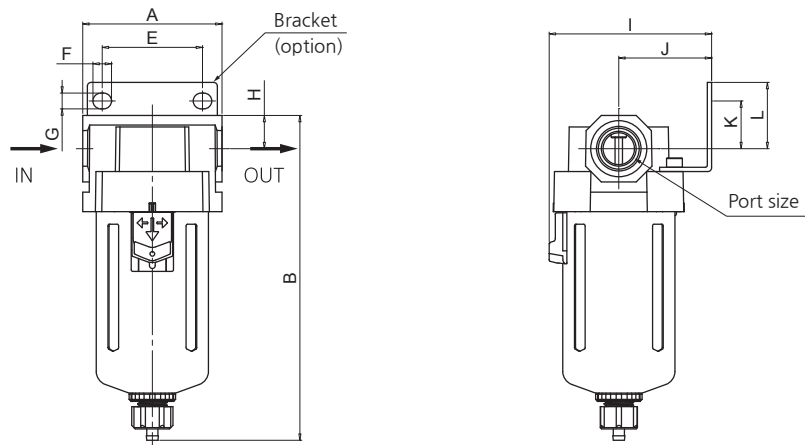
- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD**
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

Series SAFM200~400  
Series SAFD200~400

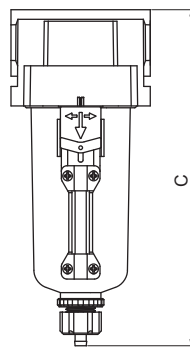
DIMENSIONS (mm)

SAFM(SAFD) 400

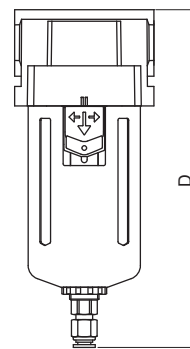
- SAFM(SAFD)400-□04□□
- SAFM(SAFD)400-□06□□



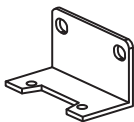
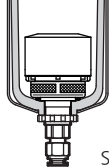
- Dimensions of each model with an option attached



Metal bowl type



with Auto drain

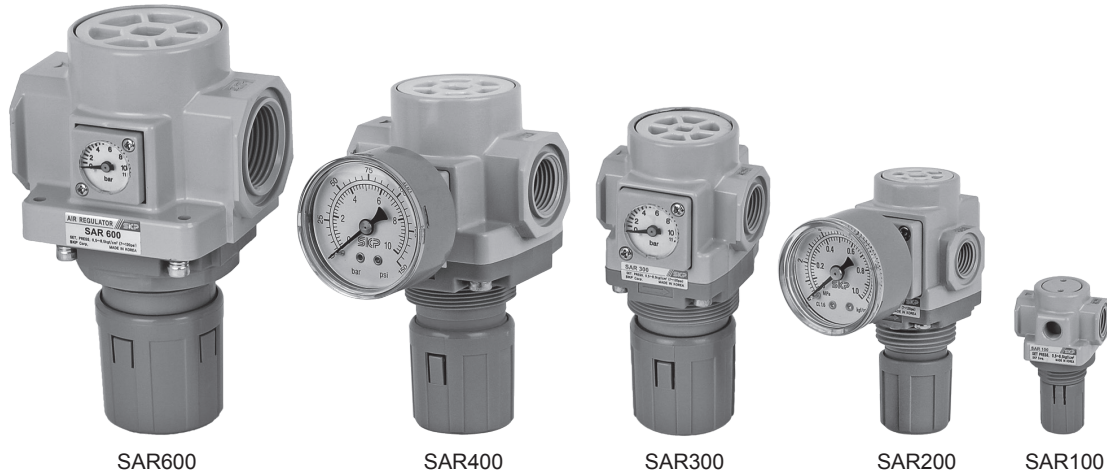
Option	B : Bracket	D : Auto Drain
Model	 B400	 SAD400

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

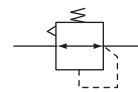
Note) SAR100 is available only round type gauge.

K - With backflow function

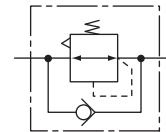
Note) SAR100 can not attach a backflow function.

### 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.

SAU

SAU  
LARGE FLOW

SAU  
HIGH PRESS.

SAW

SAWM  
SAWD

SAF

SAF  
LARGE FLOW

SAFM  
SAFD

SAR

SAR  
LARGE FLOW

SAR  
T-HANDLE

SAR  
HIGH PRESS.

SRP

SAL

SAL  
LARGE FLOW

AUTO-DRAIN  
KITS

SHVS

SPS100

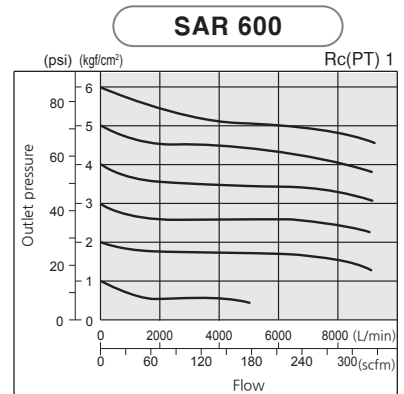
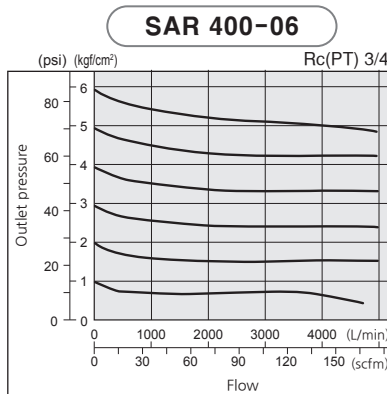
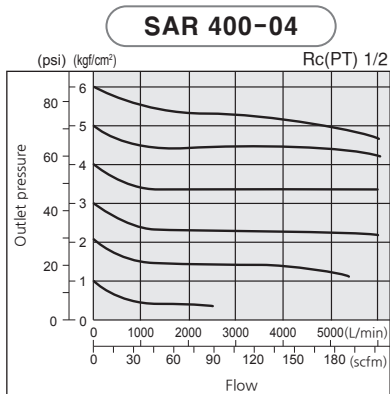
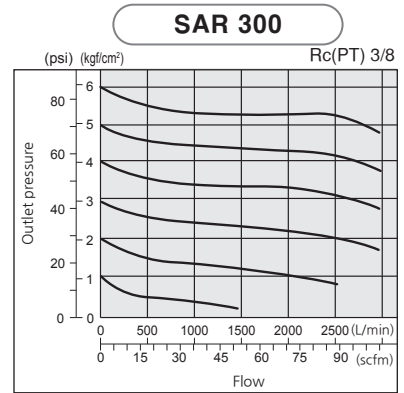
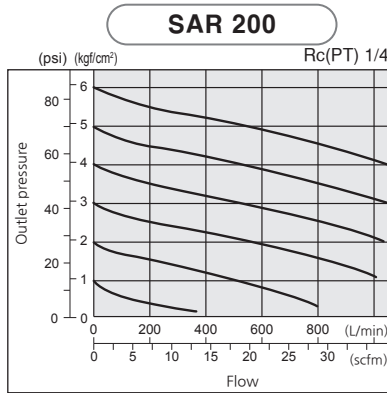
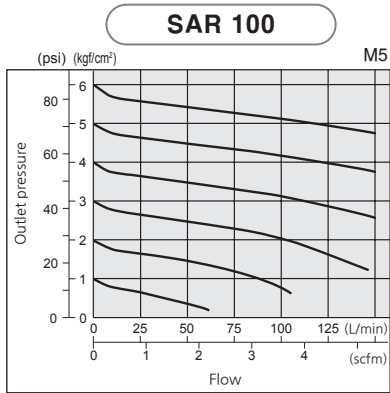
ACCESSORY

CAUTION

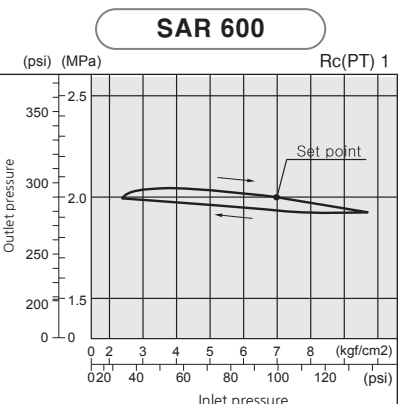
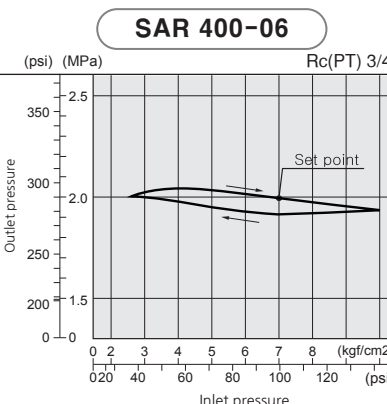
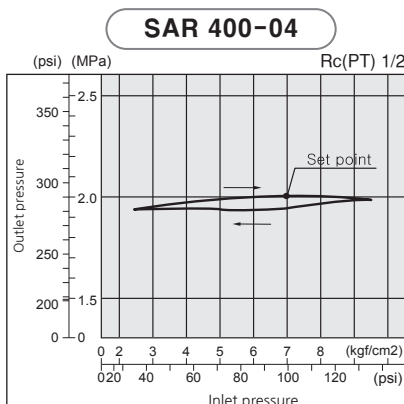
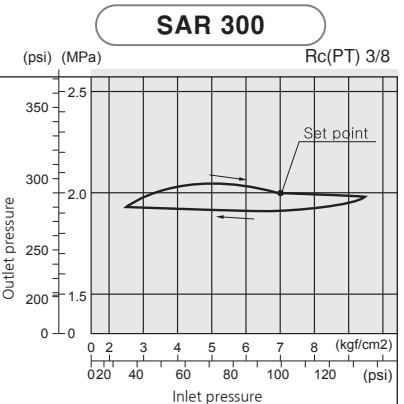
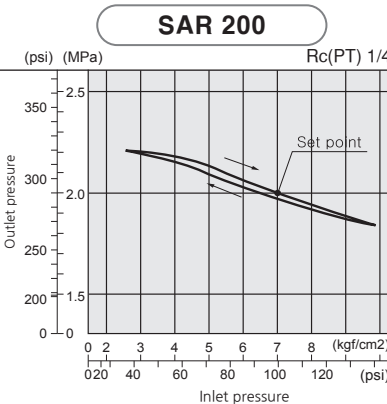
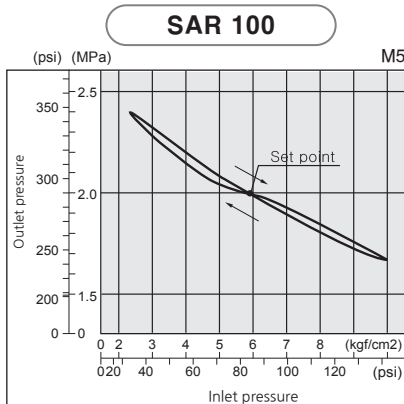


# Series SAR100~600

## FLOW CHARACTERISTICS Inlet pressure 7kg/cm<sup>2</sup>

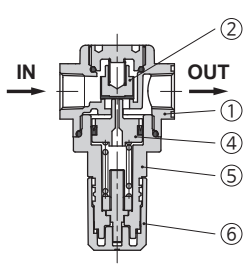


## PRESSURE CHARACTERISTICS Inlet pressure 7kg/cm<sup>2</sup>, Outlet pressure 2kg/cm<sup>2</sup>, Flow 20L/min(ANR)

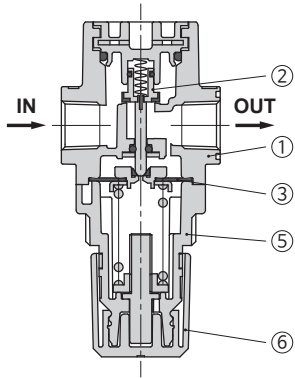


## STRUCTURE / PARTS

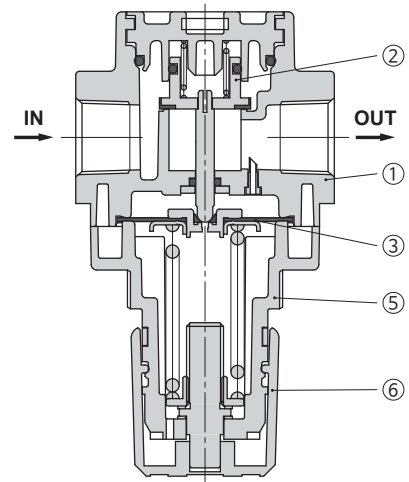
**SAR100**



**SAR200**



**SAR300 to 600**



■ **Component Parts**

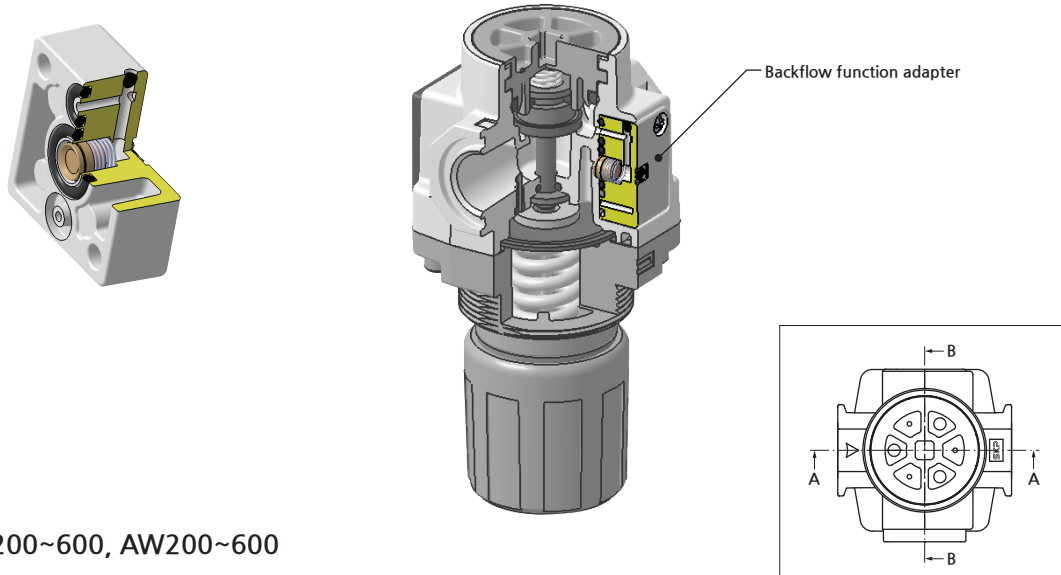
No.	PARTS	MATERIAL
①	Body	ALDC
②	Check valve Ass'y	Brass, NBR
③	Diaphragm Ass'y	NBR
④	Piston <sup>1)</sup>	N66G
⑤	Cover <sup>2)</sup>	N66G
⑥	Handle	ABS

Note : 1. The SAR100 is a piston type. Assembly of a piston and a seal.  
 2. SAR600 cover material is ALDC

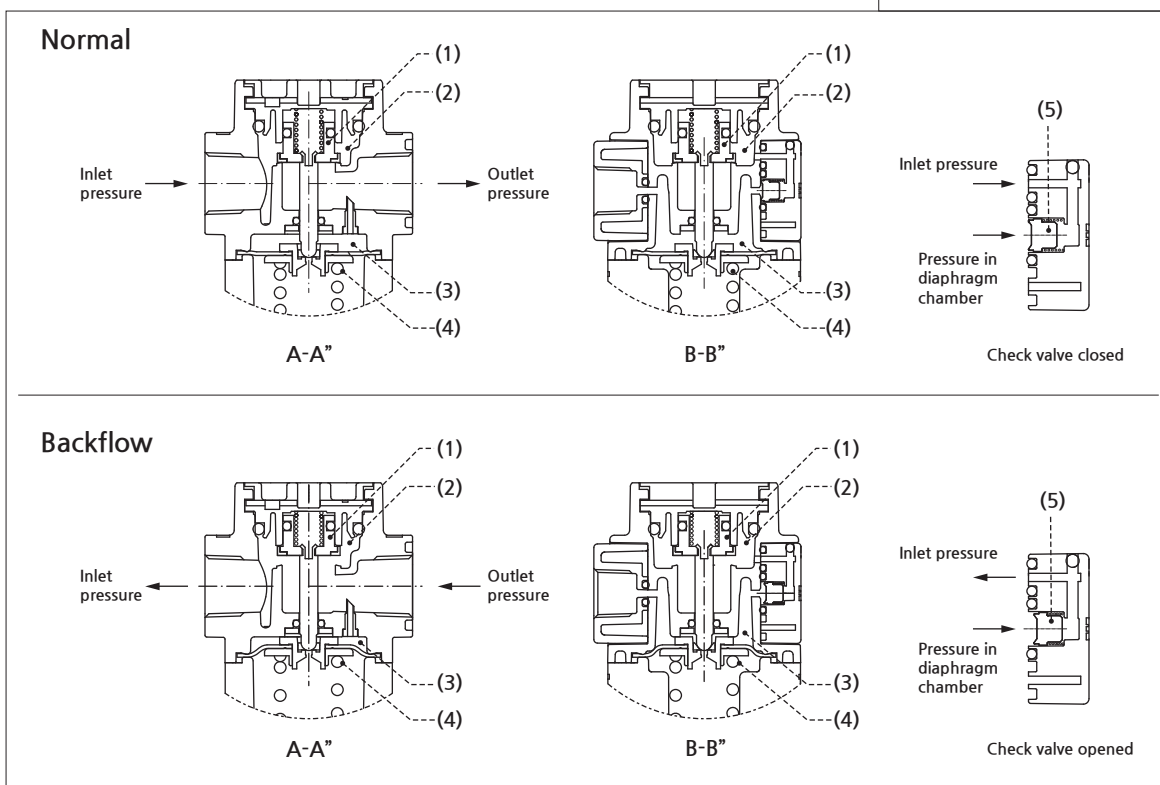
- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR**
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Series SAR100~600

- Backflow function adapter
- Regulator with Backflow function adapter installed.



- AR200~600, AW200~600

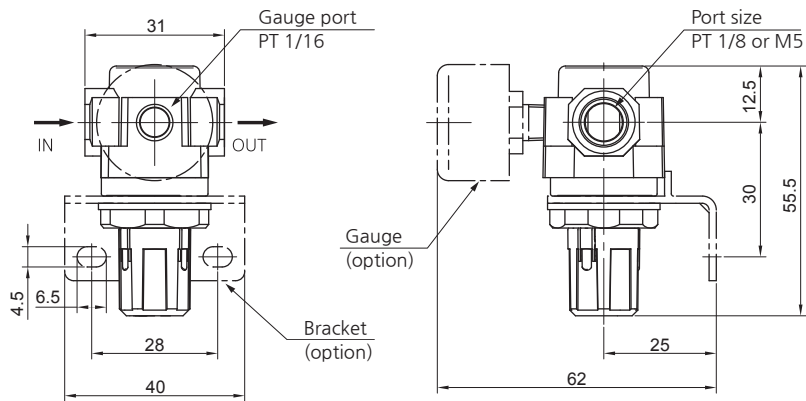


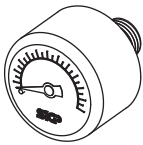
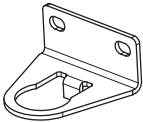
work	Description for the operation state by the backflow function adapter
normal	Because the inlet pressure(1) is higher than the regulating pressure, Check valve(5) closes and operates as a normal regulator.
backflow	When the inlet pressure(1) is shut off and released, the pressure in the diaphragm 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 Gauge	B : Bracket
Model	 <p>Model : G25 R 1/16</p>	 <p>B120</p>

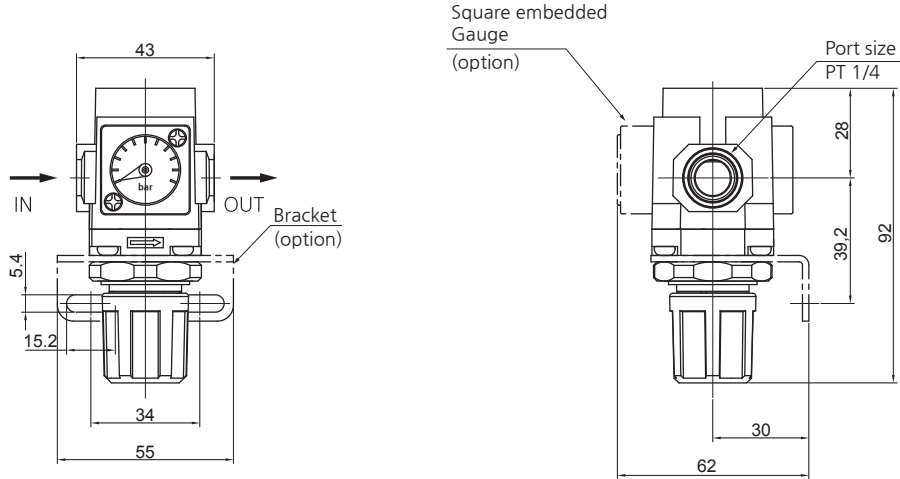
- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR**
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Series SAR100~600

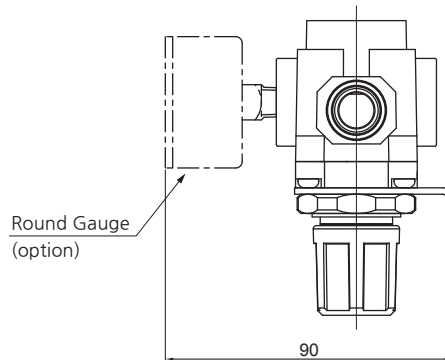
## DIMENSIONS (mm)




### SAR 200

■ SAR200-□02□□



■ Dimensions of each model with an option attached

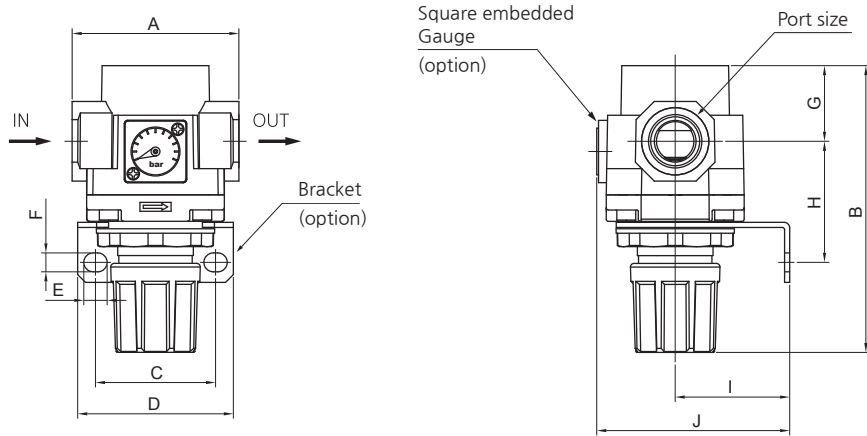


Option	Gs : Square embedded Gauge	G : Round type Gauge	B : Bracket
Model	 Gs28	 G40, R1/8	 B220

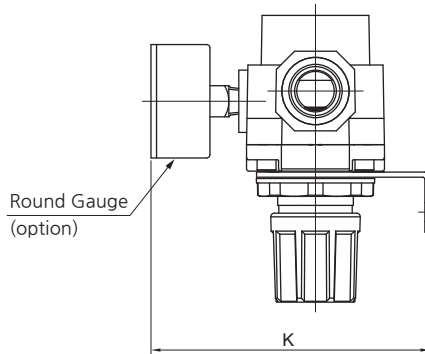
## DIMENSIONS (mm)




### 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	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

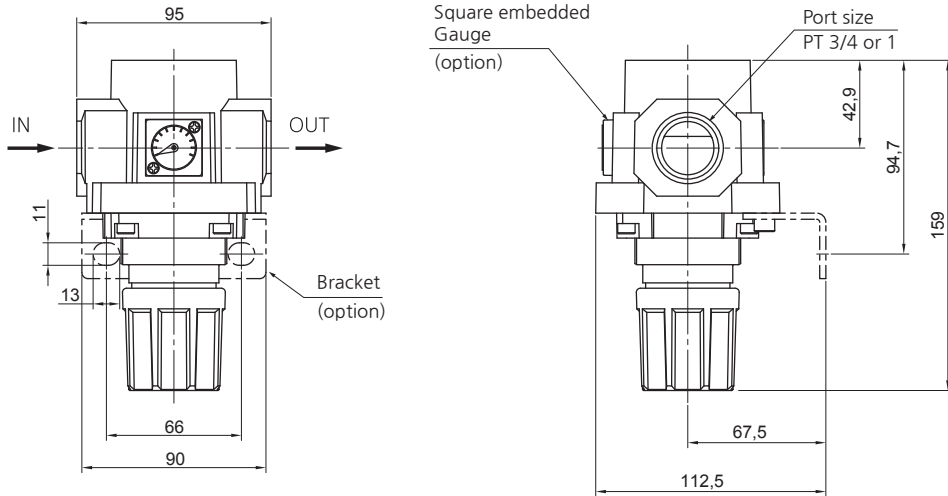
- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR**
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Series SAR100~600

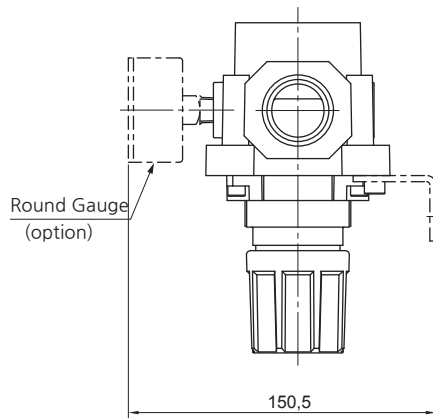
## DIMENSIONS (mm)



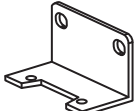
### SAR 600

- 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

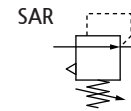
### How to order

**SAR 8 25 - 14 G**

- Air Regulator**
- Body Size**  
8 - 1 1/4, 1 1/2  
9 - 2
- Pilot type**
- Thread type**  
Nil - Rc(PT)  
N - NPT  
G - G(PF)
- Port Size**

Symbol	Size	Body size	
		8	9
12	1 1/4	●	
14	1 1/2	●	
20	2		●
- 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°C (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

SAU

SAU  
LARGE FLOW

SAU  
HIGH PRESS.

SAW

SAWM  
SAWD

SAF

SAF  
LARGE FLOW

SAFM  
SAFD

SAR

SAR  
LARGE FLOW

SAR  
T-HANDLE

SAR  
HIGH PRESS.

SRP

SAL

SAR  
LARGE FLOW

AUTO-DRAIN  
KITS

SHVS

SPS100

ACCESSORY

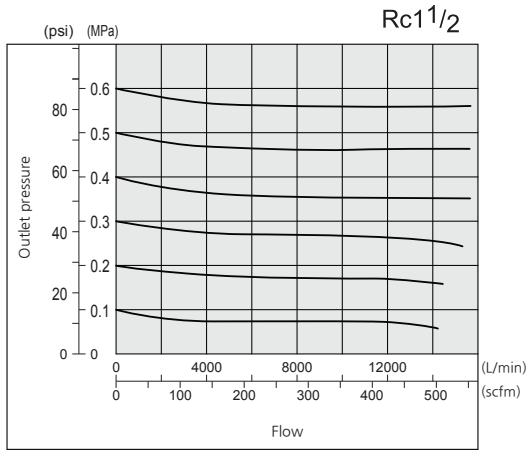
CAUTION



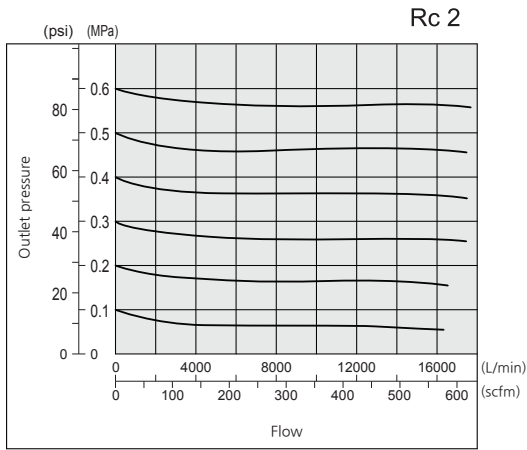
# Series SAR825~925

## FLOW CHARACTERISTICS Inlet pressure 7kg/cm<sup>2</sup>

**SAR 825**

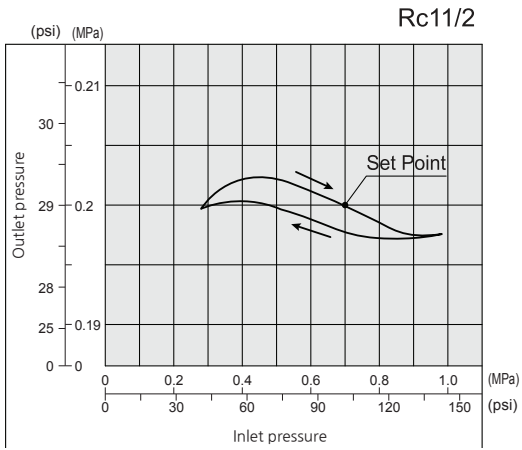


**SAR 925**

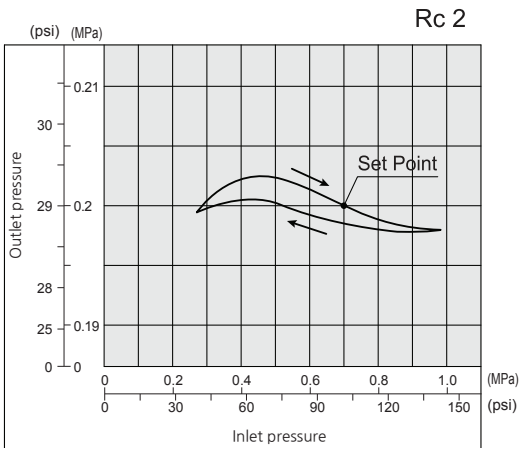


## PRESSURE CHARACTERISTICS Inlet pressure 7kg/cm<sup>2</sup>, Outlet pressure 2kg/cm<sup>2</sup>, Flow 20L/min(ANR)

**SAR 825**

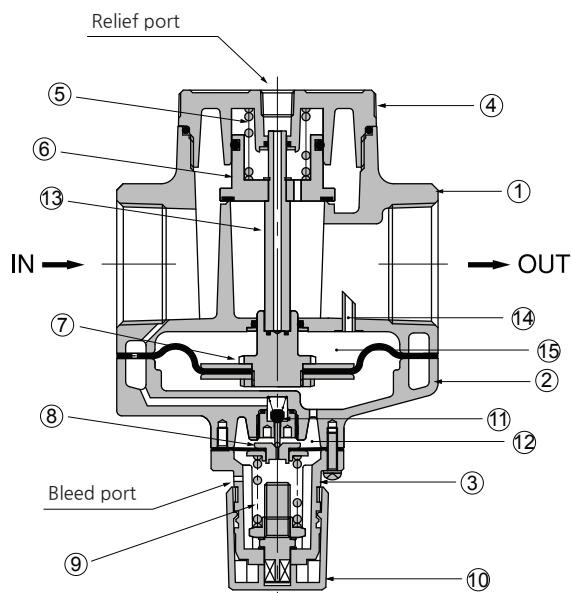


**SAR 925**



# Large Flow Pilot Operated Regulator

## STRUCTURE / PARTS



### Component Parts

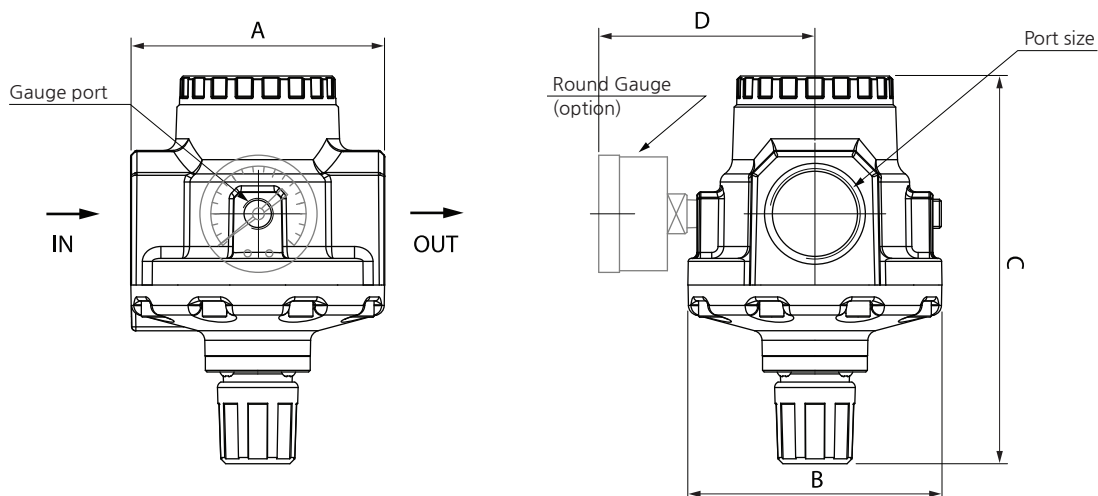
No.	PARTS	MATERIAL
①	Body	ALDC
②	Cover	ALDC
③	ADJ Cover	ALDC
④	Valve guide	ALDC

### 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 diaphragm⑧, 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 rod③, and pushes check valve③ 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	98
SAR925	2	1/4	160	160	226	118

SAU

SAU  
LARGE FLOWSAU  
HIGH PRESS.

SAW

SAWM  
SAWD

SAF

SAF  
LARGE FLOWSAFM  
SAFD

SAR

SAR  
LARGE FLOWSAR  
T-HANDLESAR  
HIGH PRESS.

SRP

SAL

SAL  
LARGE FLOWAUTO-DRAIN  
KITS

SHVS

SPS100

ACCESSORY

CAUTION

# 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**

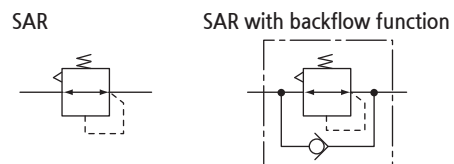
- Air Regulator**
- Body Size**
  - 2 - 1/4
  - 3 - 3/8
  - 4 - 1/2, 3/4
  - 6 - 1
- Handle type**
  - T - T type handle
- Thread type**
  - Nil - Rc(PT)
  - N - NPT
  - G - G(PF)
- Port Size**

Symbol	Size	Body size			
		2	3	4	6
02	1/4	●			
03	3/8		●		
04	1/2			●	
06	3/4			●	●
10	1				●
- Accessory(Optional)**
  - Nil - None Bracket / None Gauge
  - B - Bracket
  - G - Gauge

G	Round type
Gs	Square embedded type

  - K - With backflow function

### Symbol



### Specification

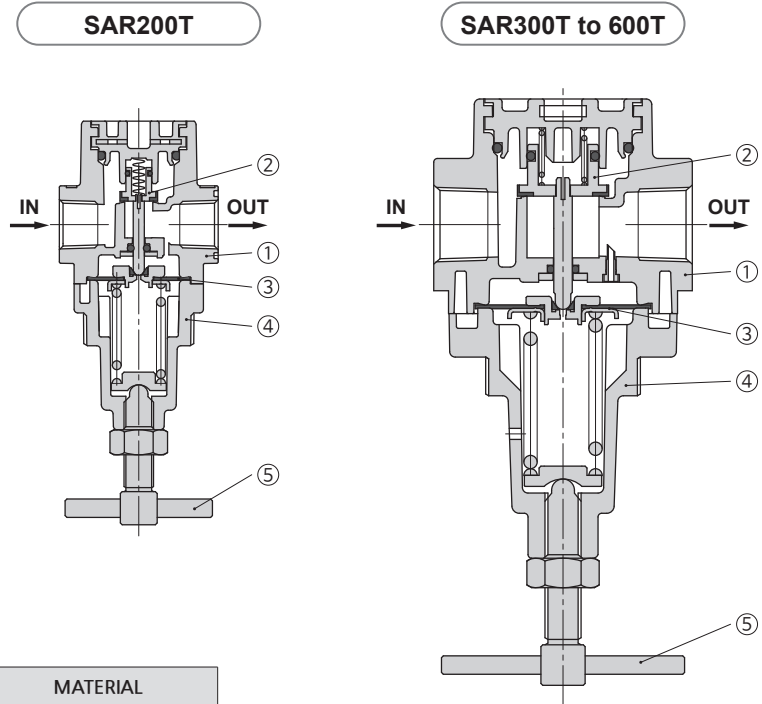
Fluid	Compressed Air			
Max. operating pressure	10bar (1.0MPa)			
Max. supply pressure	15bar (1.5MPa)			
Ambient and Media temp.	-5~60°C (No freezing)			
Regulating range	0.5~8.5bar (0.05~0.85MPa)			
Gauge port	SAR200T	SAR300T	SAR400T	SAR600T
		1/8		1/4
Construction	Relief type			

### Precautions

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

# Air Regulator with T-type Handle

## STRUCTURE / PARTS



### 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

SAU

SAU  
LARGE FLOW

SAU  
HIGH PRESS.

SAW

SAWM  
SAWD

SAF

SAF  
LARGE FLOW

SAFM  
SAFD

SAR

SAR  
LARGE FLOW

**SAR  
T-HANDLE**

SAR  
HIGH PRESS.

SRP

SAL

SAL  
LARGE FLOW

AUTO-DRAIN  
KITS

SHVS

SPS100

ACCESSORY

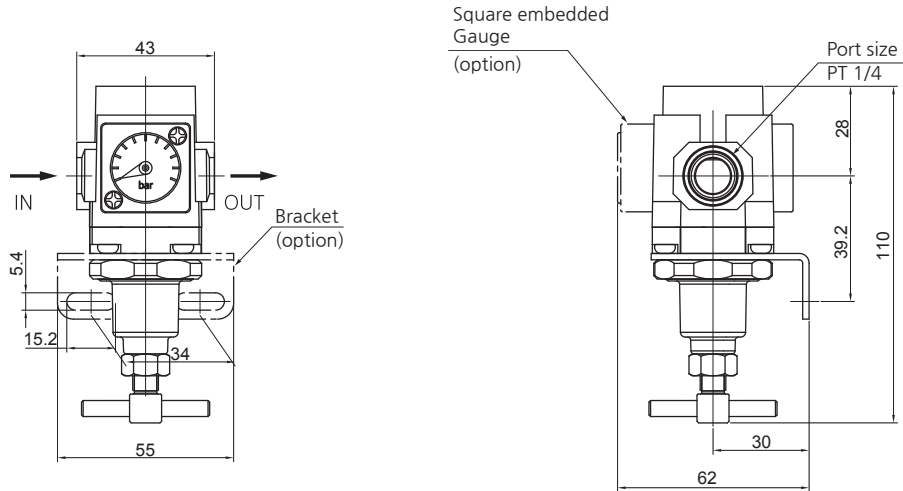
CAUTION

# Series SAR100T~600T

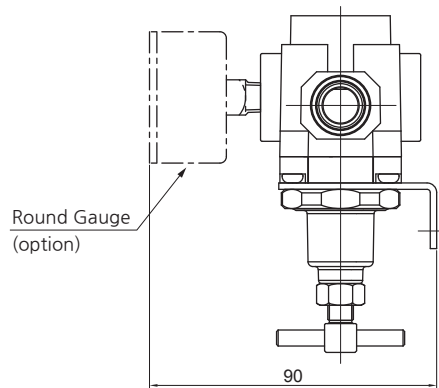
## DIMENSIONS (mm)



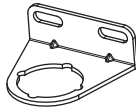
### SAR 200T

- SAR200T-□02□□



- Dimensions of each model with an option attached



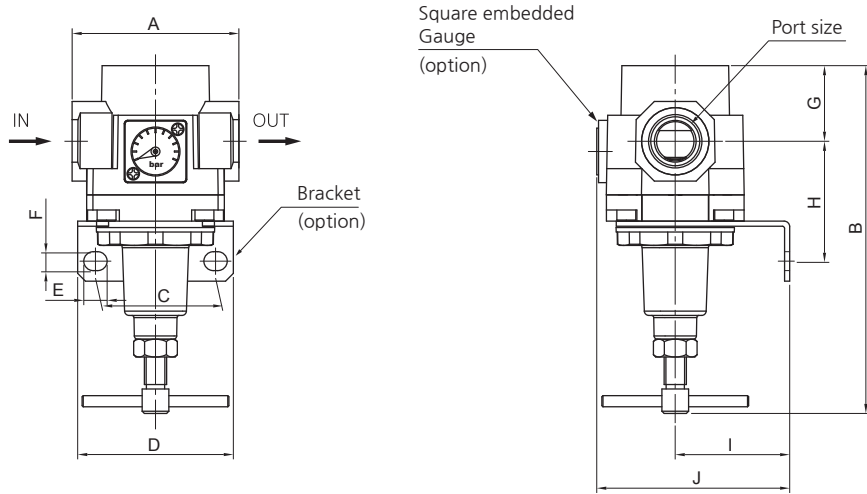
Option	Gs : Square embedded Gauge	G : Round type Gauge	B : Bracket
Model	 Gs28	 G40, R1/8	 B220

# Air Regulator with T -type Handle

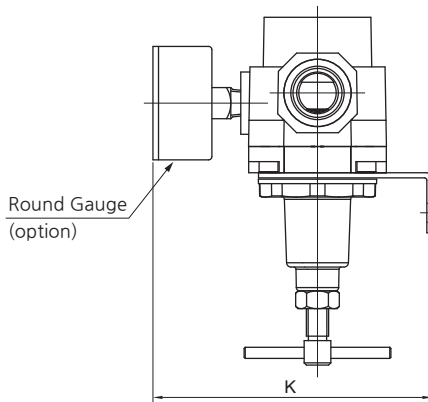
## DIMENSIONS (mm)




### 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	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

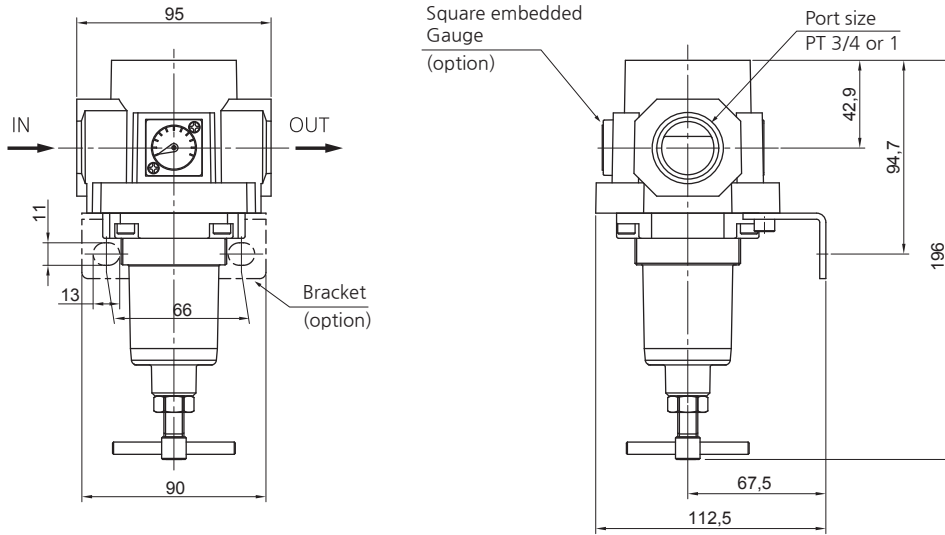
- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE**
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Series SAR100T~600T

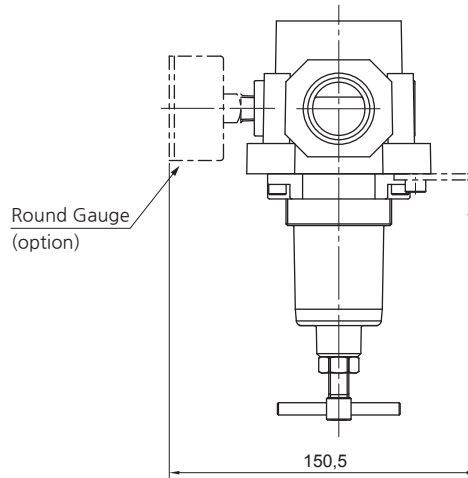
## DIMENSIONS (mm)



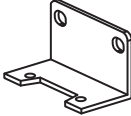
### SAR 600T

- 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 BGK**

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)

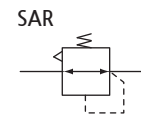
⑤ Port Size

Symbol	Size	Body size			
		2	3	4	6
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°C (No freezing)		
Regulating range	1~17bar (0.1~1.7MPa)		
Gauge port	SAR200H	SAR300H	SAR400H
	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.

SAU

SAU  
LARGE FLOW

SAU  
HIGH PRESS.

SAW

SAWM  
SAWD

SAF

SAF  
LARGE FLOW

SAFM  
SAFD

SAR

SAR  
LARGE FLOW

SAR  
T-HANDLE

SAR  
HIGH PRESS.

SRP

SAL

SAL  
LARGE FLOW

AUTO-DRAIN  
KITS

SHVS

SPS100

ACCESSORY

CAUTION

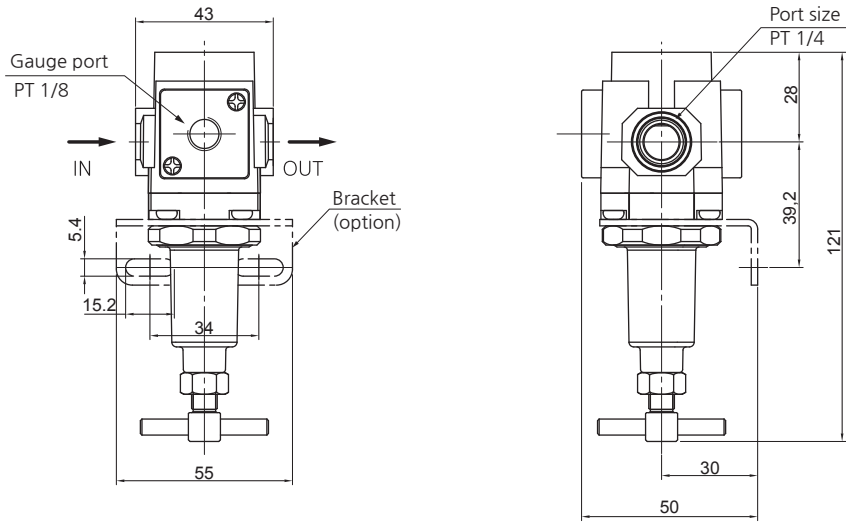


# Series SAR200H~600H

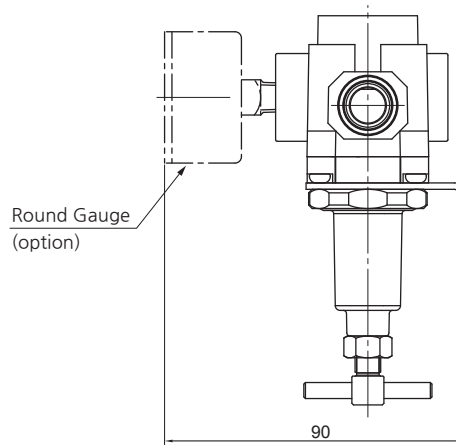
## DIMENSIONS (mm)


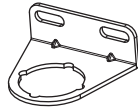
### SAR 200H

- SAR200H-□02□□



- Dimensions of each model with an option attached



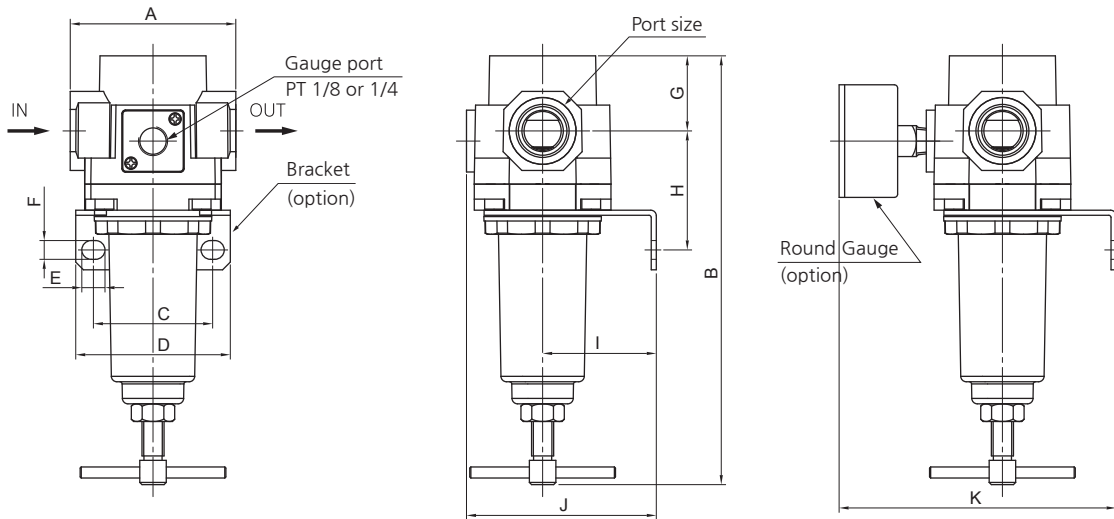
Option	G : Round type Gague	B : Bracket
Model	 Gh40, R1/8	 B220



# 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	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

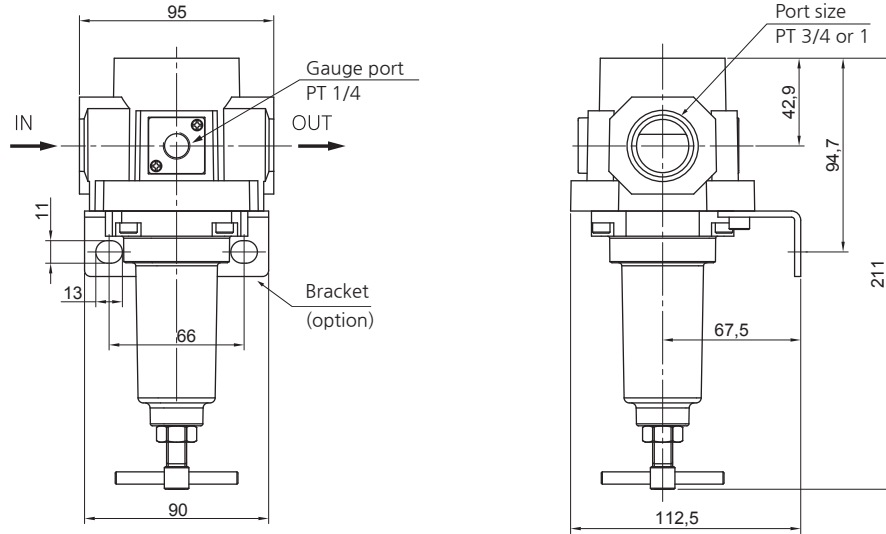
- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.**
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Series SAR200H~600H

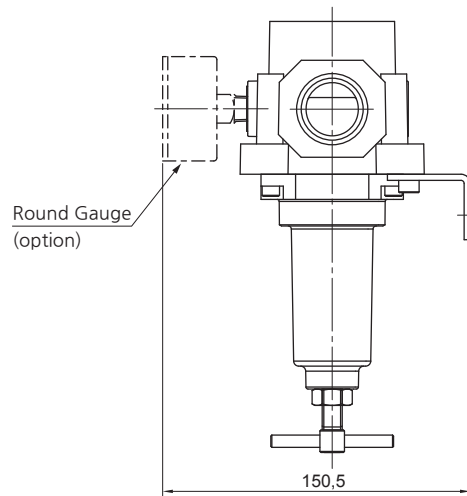
## DIMENSIONS (mm)


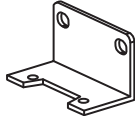
### SAR 600H

- 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

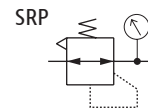
### How to order

**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 <sup>1)</sup> pressure	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 <sup>2)</sup> (At supply pressure of 10bar)	SRP2000	5 L/min
	SRP3000	11 L/min
Ambient and fluid temperature	-5~60°C (No freezing)	
Gauge port	1/8	
Port size	SRP2000	1/4
	SRP3000	3/8, 1/2

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

SAU

SAU  
LARGE FLOW

SAU  
HIGH PRESS.

SAW

SAWM  
SAWD

SAF

SAF  
LARGE FLOW

SAFM  
SAFD

SAR

SAR  
LARGE FLOW

SAR  
T-HANDLE

SAR  
HIGH PRESS.

SRP

SAL

SAL  
LARGE FLOW

AUTO-DRAIN  
KITS

SHVS

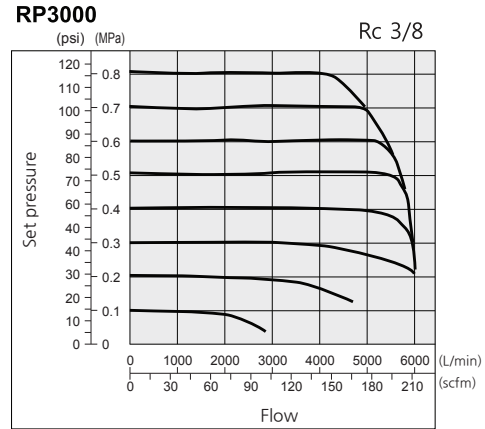
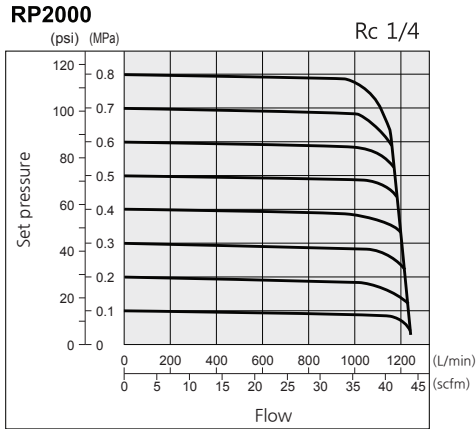
SPS100

ACCESSORY

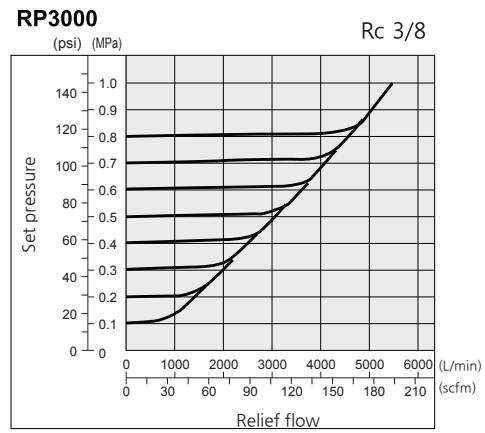
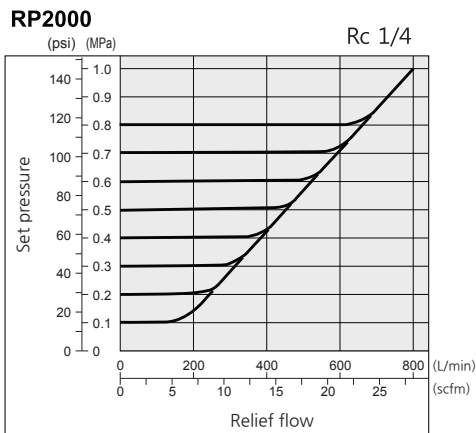
CAUTION

# Series SRP2000~3000

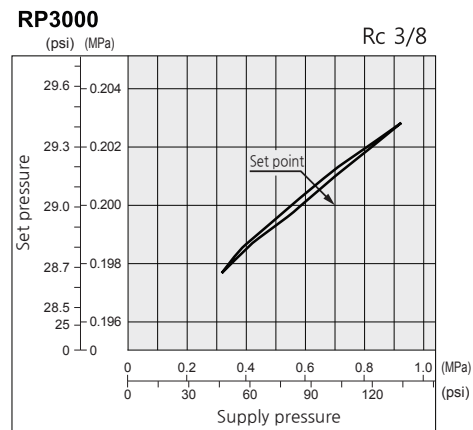
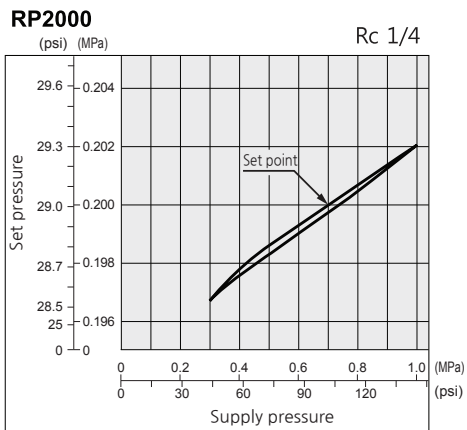
## FLOW CHARACTERISTICS Supply pressure : 1MPa



## RELIEF CHARACTERISTICS Back pressure : 1MPa



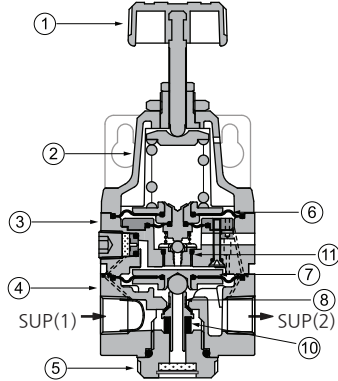
## PRESSURE CHARACTERISTICS Supply pressure: 0.7 MPa, Set pressure: 0.2 MPa, Flow rate: 0 L/min (ANR)



# Precision Regulator

## STRUCTURE / PARTS

**SRP2000**



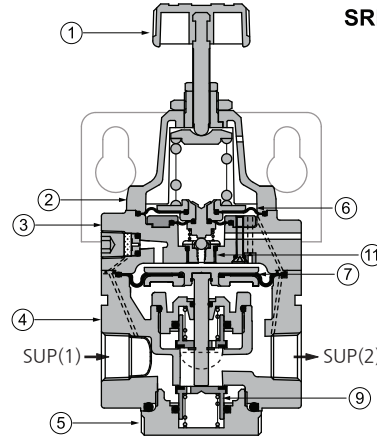
### Working principle (For SRP2000)

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**



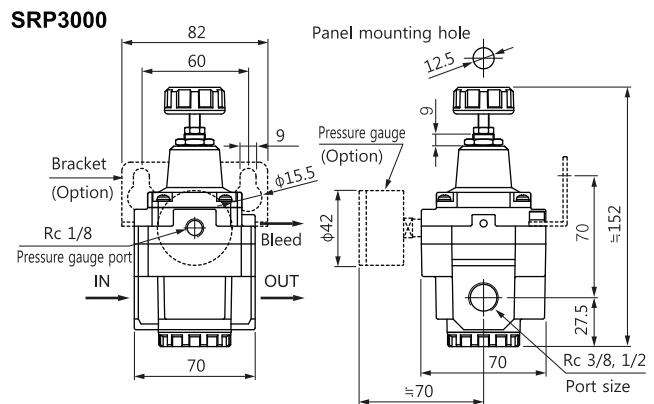
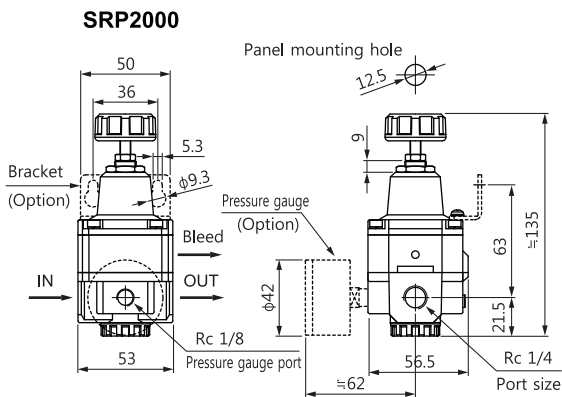
### Repacement Parts

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

### Component Parts

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

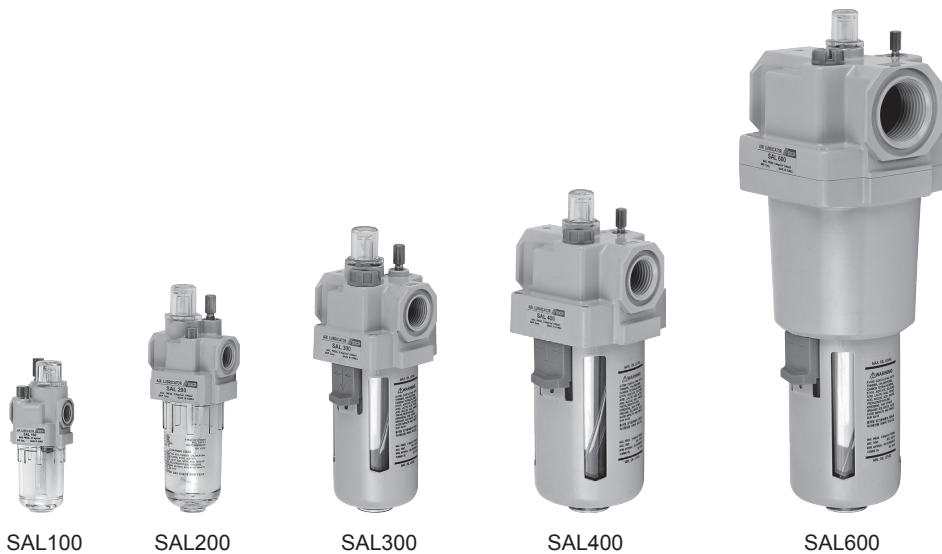
## DIMENSIONS (mm)



- SAU
- SAU LARGE FLOW
- SAU HIGH PRESS.
- SAW
- SAWM SAWD
- SAF
- SAF LARGE FLOW
- SAFM SAFD
- SAR
- SAR LARGE FLOW
- SAR T-HANDLE
- SAR HIGH PRESS.
- SRP
- SAL
- SAL LARGE FLOW
- AUTO-DRAIN KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Air Lubricator (SAL)

## SAL100~600 Series



### 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 - PC bowl
  - MeP - Metal bowl with pipe type sight glass

### Symbol



### Specification

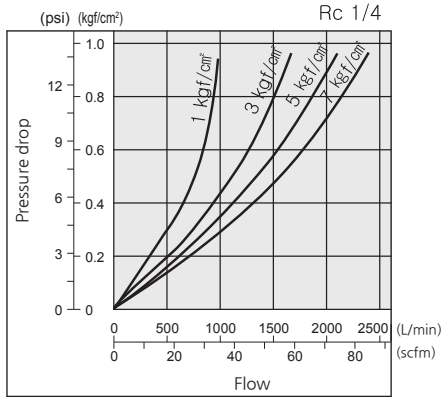
Fluid	Compressed Air
Max. operating pressure	10bar (1.0MPa)
Max. supply pressure	15bar (1.5MPa)
Ambient and Media temp.	-5~60°C (No freezing)
Recommended oil	Turbin oil (ISO VG32)
Bowl material	Poly-carbonate (option: ALDC)

### Precautions

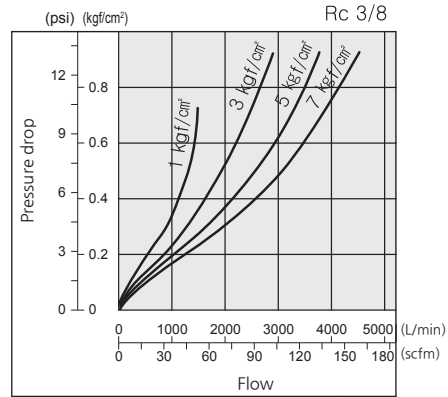
- ① Do not use Poly-carbonate bowls in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.
- ② Do not introduce air from the outlet side as this can damage the damper.
- ③ Use a check valve (SACM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

## FLOW CHARACTERISTICS

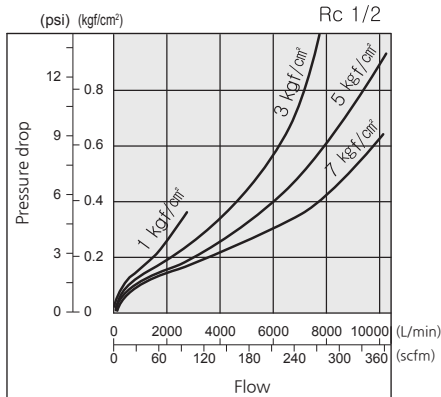
**SAL 200**



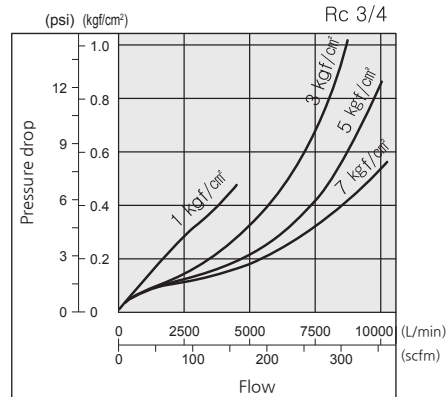
**SAL 300**



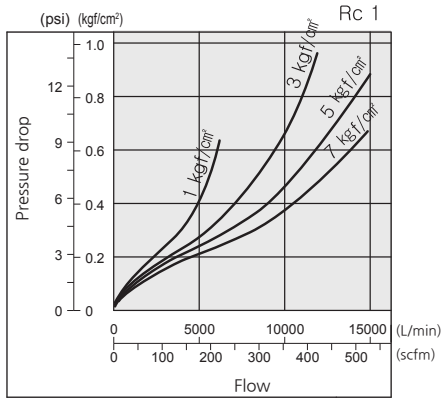
**SAL 400-04**



**SAL 400-06**



**SAL 600**



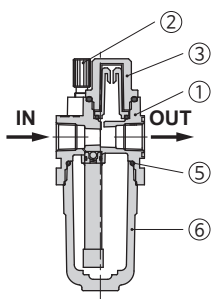
- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL**
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION



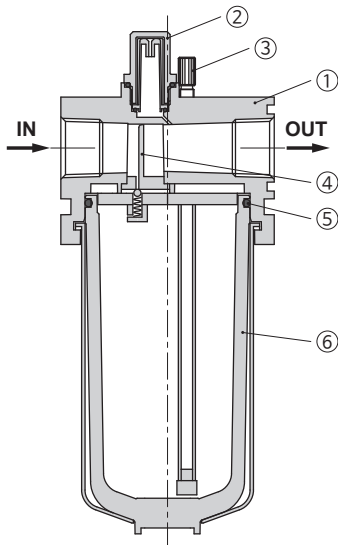
# Series SAL100~600

## STRUCTURE / PARTS

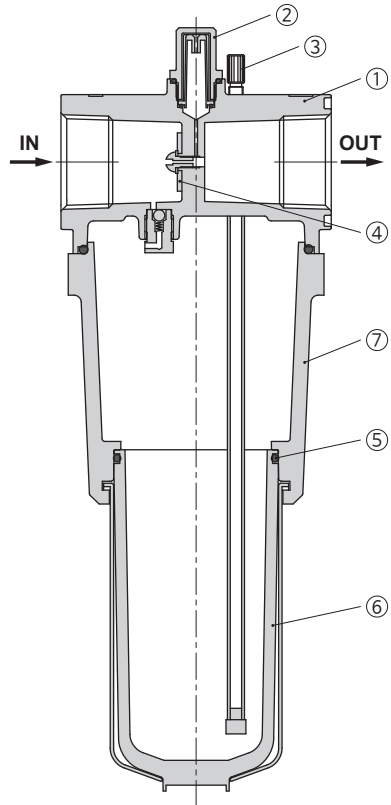
SAL100



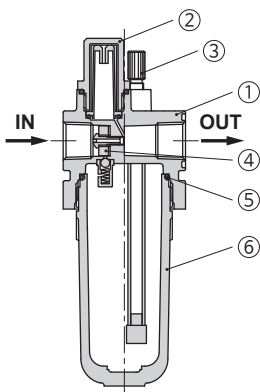
SAL300, SAL400



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 <sup>1)</sup>	PC
⑦	Housing	ALDC

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

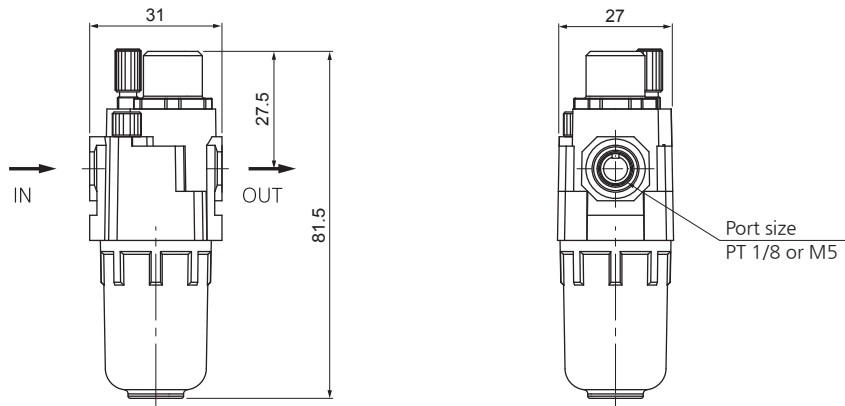
### Replacement Parts

No.	PARTS	MATERIAL	Part no.				
			SAF100	SAF200	SAF300	SAF400	SAF600
⑤	O-ring	NBR	S22	U024	38x2	U137	U137

## DIMENSIONS (mm)

### SAL 100

- SAL100-□01(M5)



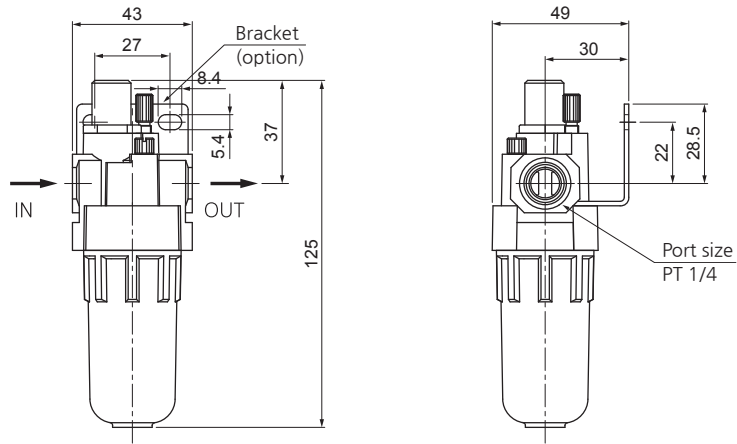
SAU
SAU LARGE FLOW
SAU HIGH PRESS.
SAW
SAWM SAWD
SAF
SAF LARGE FLOW
SAFM SAFD
SAR
SAR LARGE FLOW
SAR T-HANDLE
SAR HIGH PRESS.
SRP
<b>SAL</b>
SAL LARGE FLOW
AUTO-DRAIN KITS
SHVS
SPS100
ACCESSORY
CAUTION

# Series SAL100~600

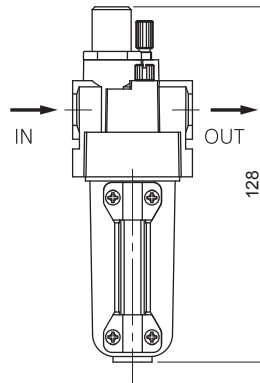
## DIMENSIONS (mm)

### SAL 200

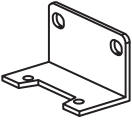
- SAL200-□02□



- Dimensions of each model with an option attached



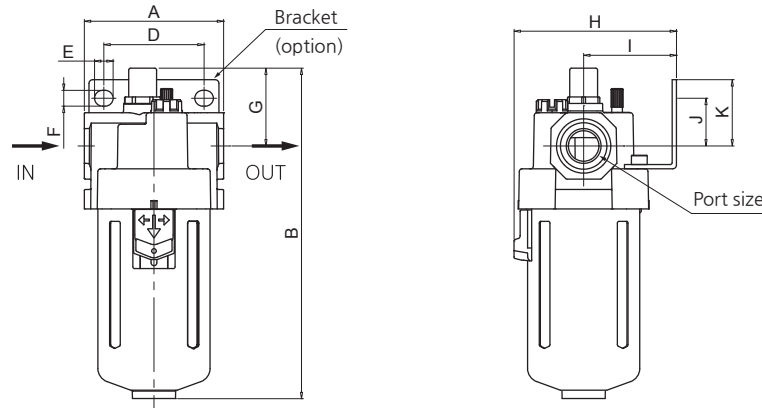
Metal bowl type

Option	B : Bracket
Model	 <p>B200</p>

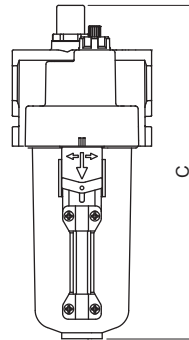
## DIMENSIONS (mm)

### SAL 300~400

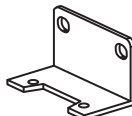
- SAL300-□03□□
- SAL400-□04(06)□□



- 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	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

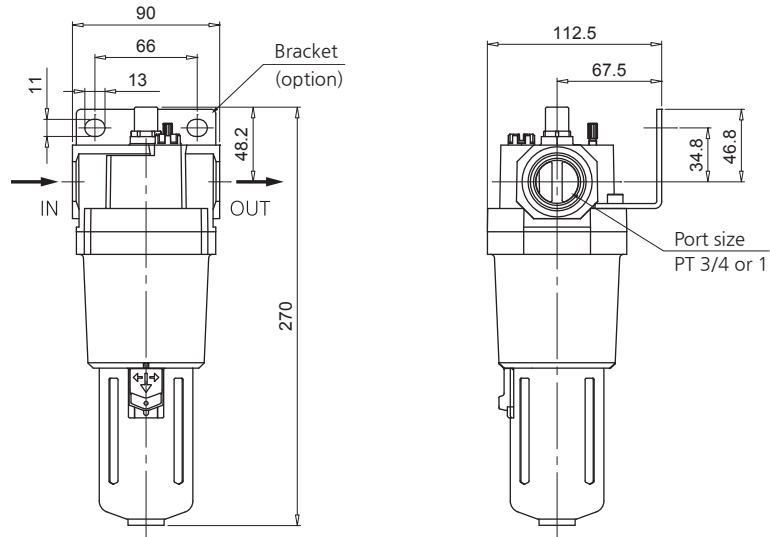
- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL**
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Series SAL100~600

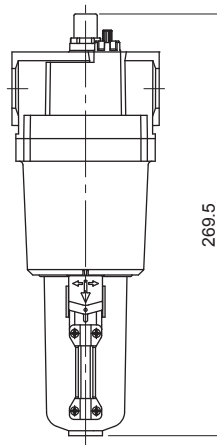
## DIMENSIONS (mm)

### SAL 600

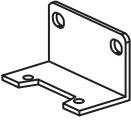
- SAL600-□06□□
- SAL600-□10□□



- 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

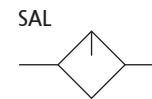
⑥ **Bowl**

Nil - PC Bowl  
MeP - Metal bowl with pipe type sight glass

### 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.
- 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.

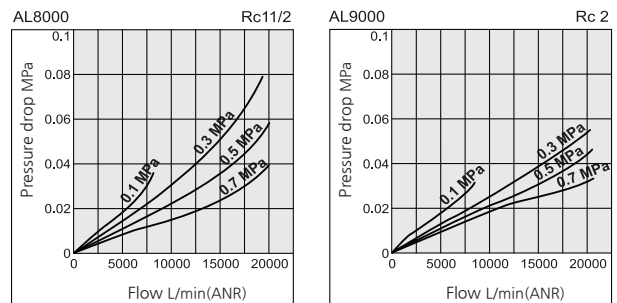
### Symbol



### 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



SAU

SAU  
LARGE FLOW

SAU  
HIGH PRESS.

SAW

SAWM  
SAWD

SAF

SAF  
LARGE FLOW

SAFM  
SAFD

SAR

SAR  
LARGE FLOW

SAR  
T-HANDLE

SAR  
HIGH PRESS.

SRP

SAL

SAL  
LARGE FLOW

AUTO-DRAIN  
KITS

SHVS

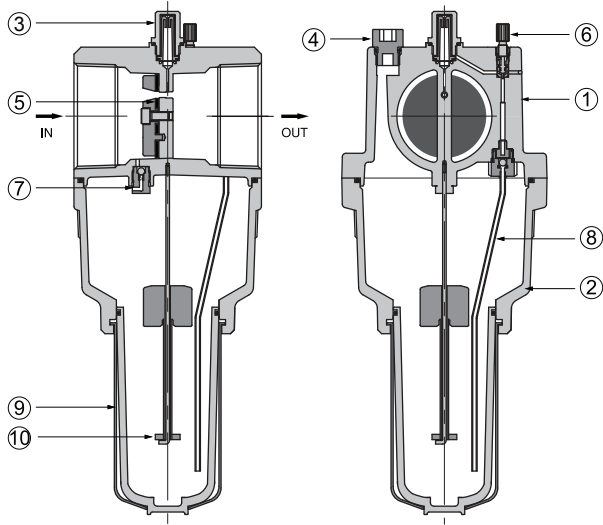
SPS100

ACCESSORY

CAUTION

# Series SAL800~900

## STRUCTURE / PARTS



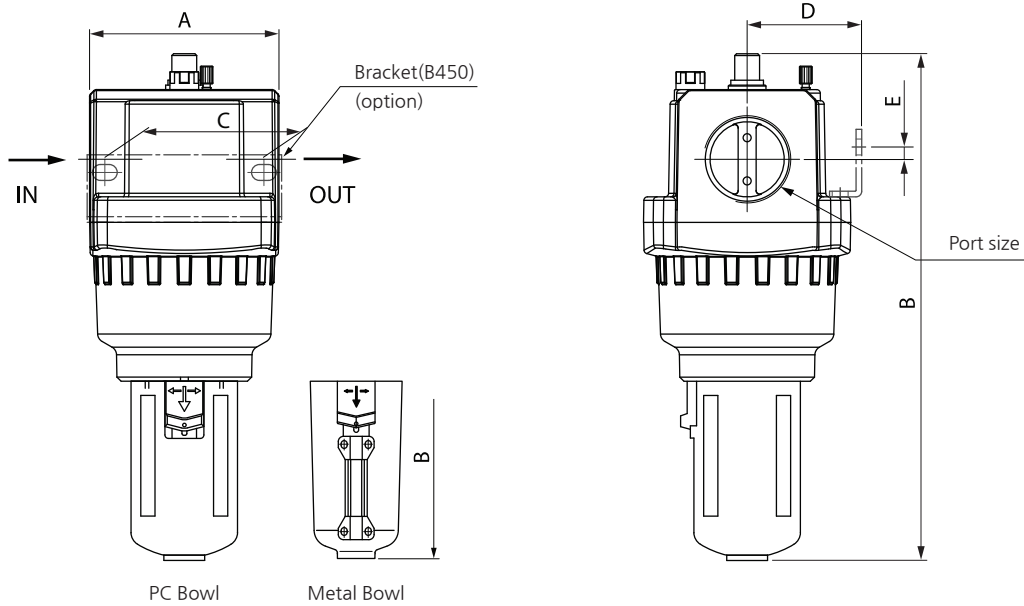
### Component Parts

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.



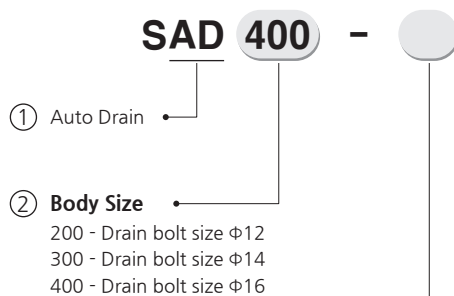
SAD200

SAD300

SAD400

SAD400-N

### How to order

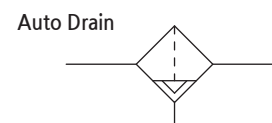


Body size	Drain guide
200	$\Phi 4$
300	$\Phi 6$
400	$\Phi 6$

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

SAU

SAU  
LARGE FLOW

SAU  
HIGH PRESS.

SAW

SAWM  
SAWD

SAF

SAF  
LARGE FLOW

SAFM  
SAFD

SAR

SAR  
LARGE FLOW

SAR  
T-HANDLE

SAR  
HIGH PRESS.

SRP

SAL

SAL  
LARGE FLOW

AUTO-DRAIN  
KITS

SHVS

SPS100

ACCESSORY

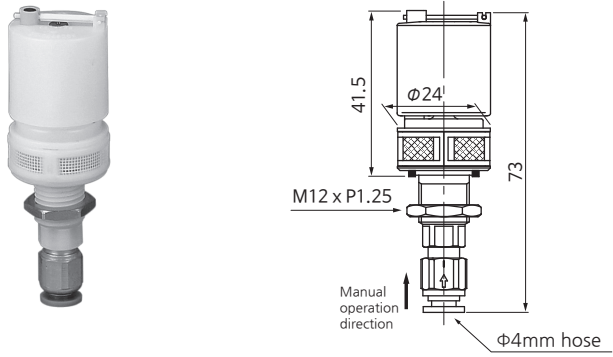
CAUTION



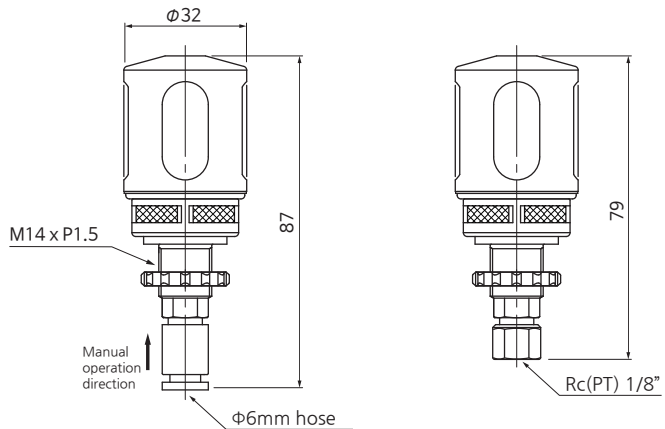
# Series SAD200~400

## DIMENSIONS (mm)

### SAD 200



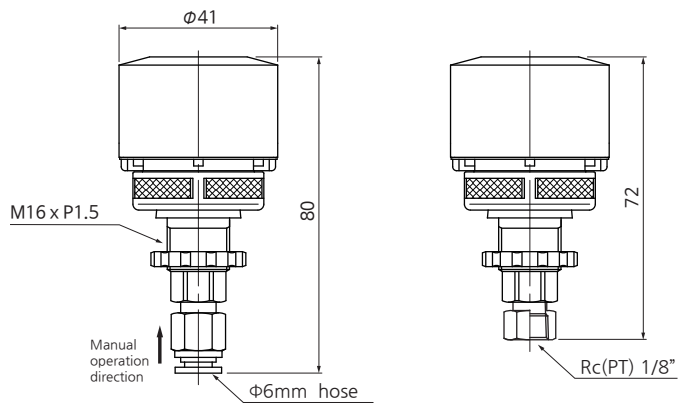
### SAD 300



SAD300

SAD300-N

### SAD 400

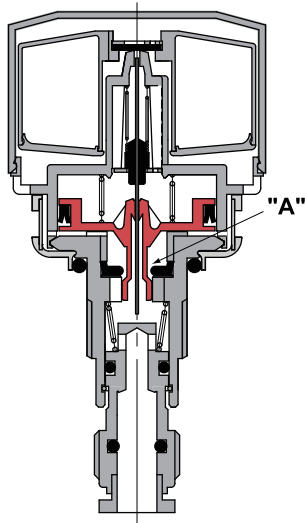


SAD400

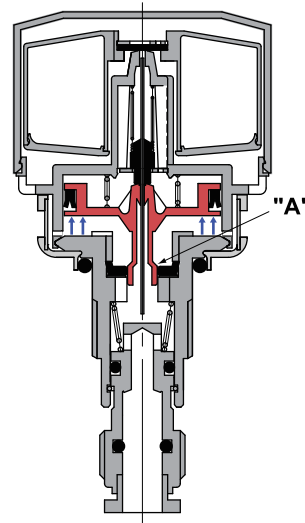
SAD400-N

## Working principle

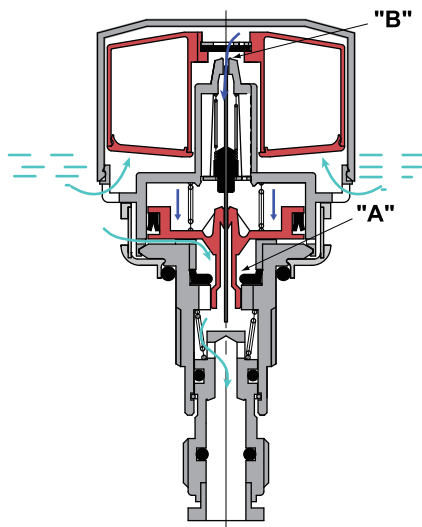
- ① **When unpressurized up to ~0.5 bar**  
Spring pushes down the piston and opens "A" to drain air in the bowl.



- ② **When pressure is above 0.5 bar in the bowl**  
Pressure surpasses the force of spring and closes "A" to seal the bowl.

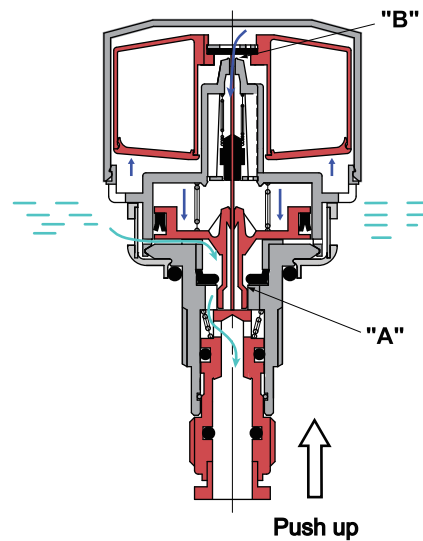


- ③ **When there is accumulation in the bowl**  
Collected liquid lifts the float to open valve "B" allowing pressurized air to enter and push the piston down to open "A" to drain.



### # 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.



- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Pressure Relief 3port Valve (SHVS)

## SHVS200~600 Series

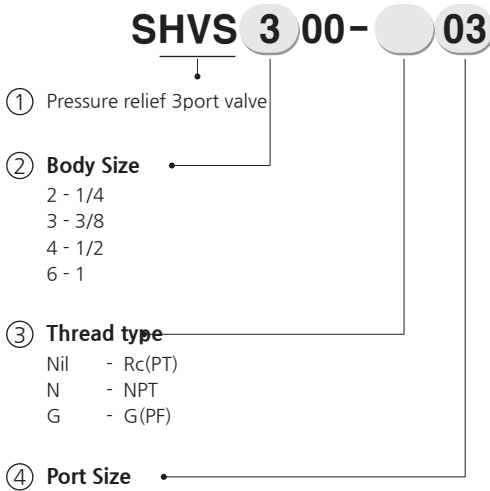
- SHVS can prevent accidents caused by inadvertent air supply problems.



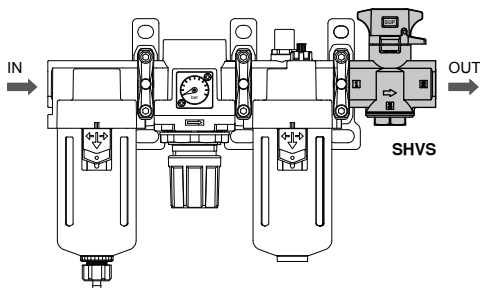
SHVS400

SHVS300

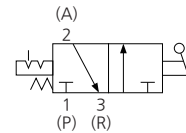
### How to order



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.

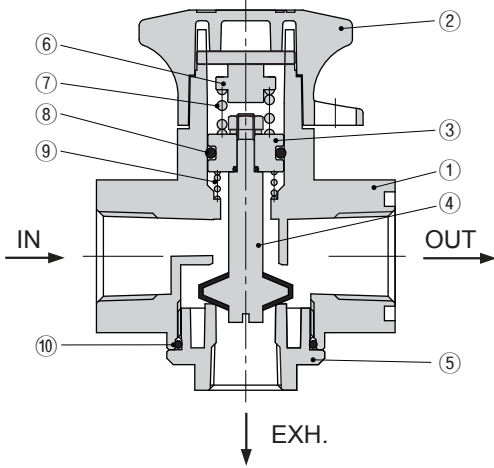
\* A spacer or spacer with bracket is required if the valve is combined with modular F.R.L. Please order it separately.

Pressure relief 3port valve	Spacer part no.	Spacer with bracket part no.	Applicable air preparation equipment
SHVS200	B210S	B210T	AU200
SHVS300	B310S	B310T	AU300
SHVS400	B410S	B410T	AU400-04
SHVS600	B610S	B610T	AU600

# Pressure Relief 3port Valve

## STRUCTURE / PARTS

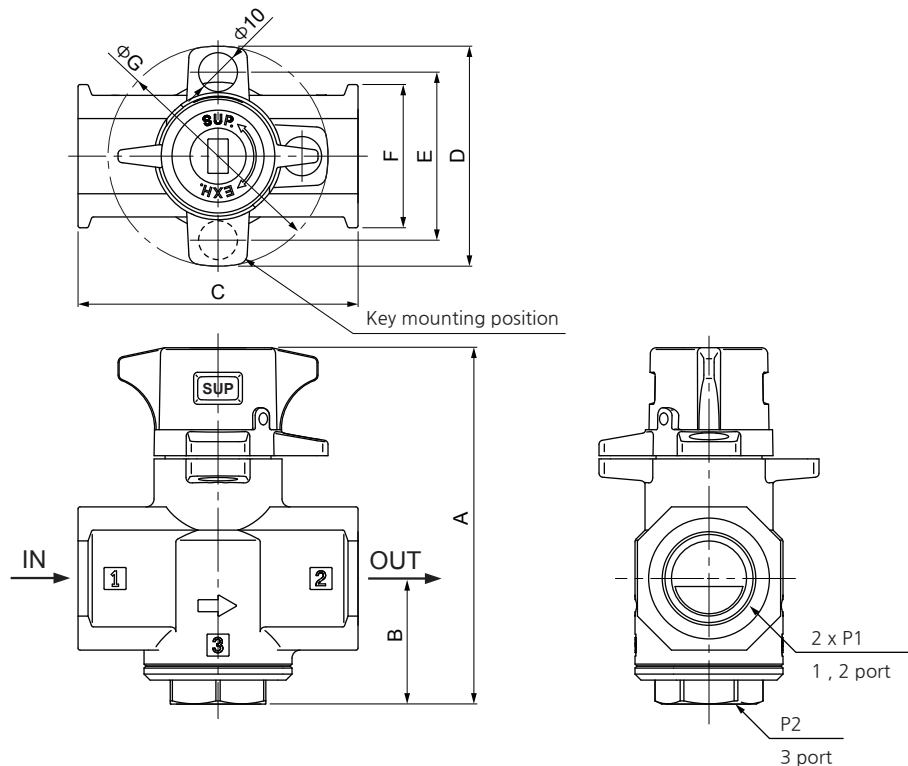
### SHVS 200~600



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

SAU

SAU  
LARGE FLOWSAU  
HIGH PRESS.

SAW

SAWM  
SAWD

SAF

SAF  
LARGE FLOWSAFM  
SAFD

SAR

SAR  
LARGE FLOWSAR  
T-HANDLESAR  
HIGH PRESS.

SRP

SAL

SAL  
LARGE FLOWAUTO-DRAIN  
KITS

SHVS

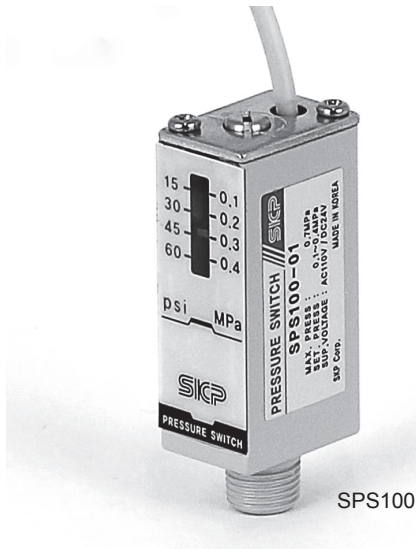
SPS100

ACCESSORY

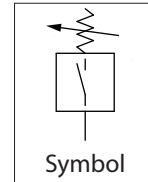
CAUTION

# Pressure Switch (SPS)

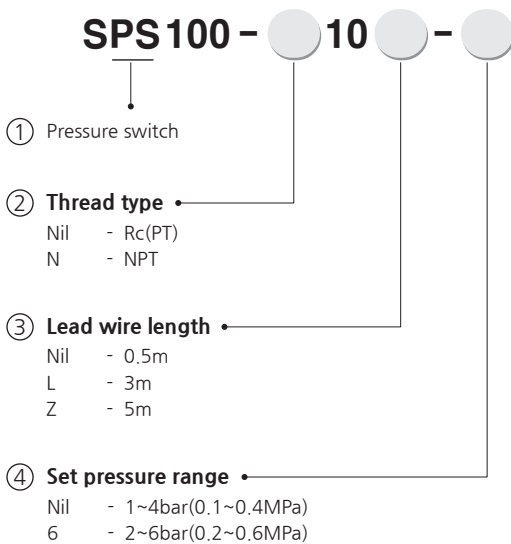
## SPS 100 Series



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



### 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

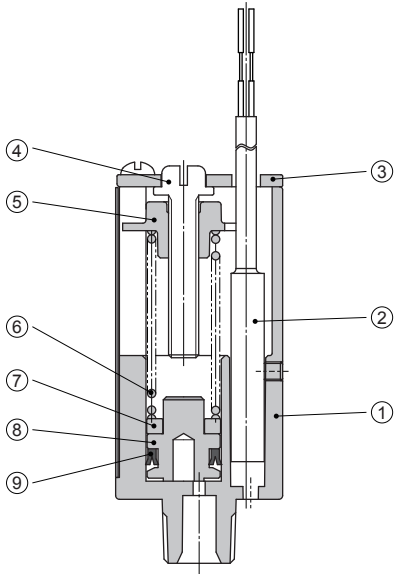
### Cautions

- 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.

# Pressure Switch

## STRUCTURE / PARTS

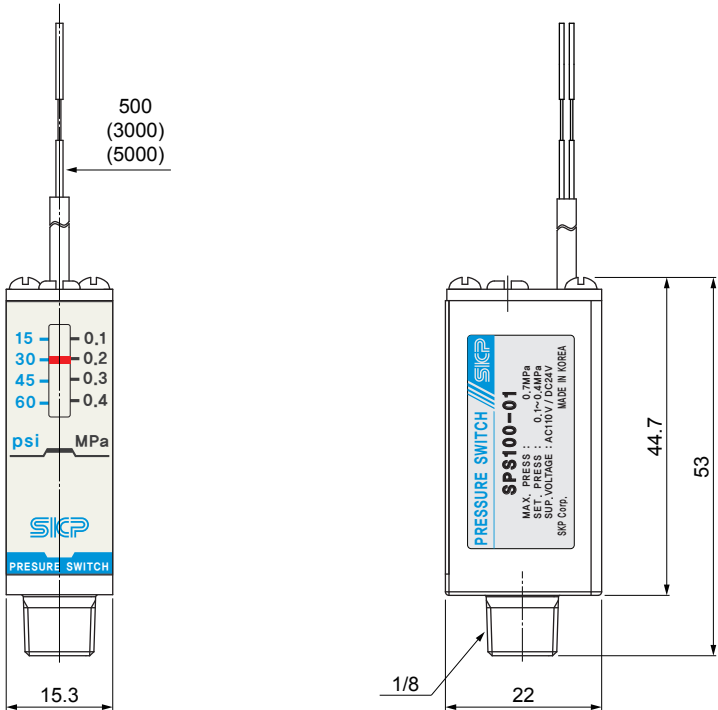
### SPS 100



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



SAU

SAU  
LARGE FLOW

SAU  
HIGH PRESS.

SAW

SAWM  
SAWD

SAF

SAF  
LARGE FLOW

SAFM  
SAFD

SAR

SAR  
LARGE FLOW

SAR  
T-HANDLE

SAR  
HIGH PRESS.

SRP

SAL

SAL  
LARGE FLOW

AUTO-DRAIN  
KITS

SHVS

**SPS100**

ACCESSORY

CAUTION

# Accessory

## Gauge Series



G50



G40



G25

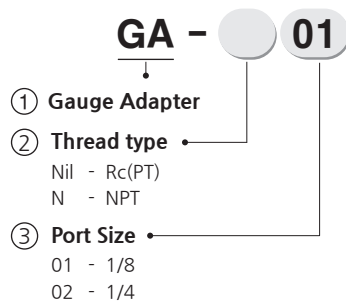
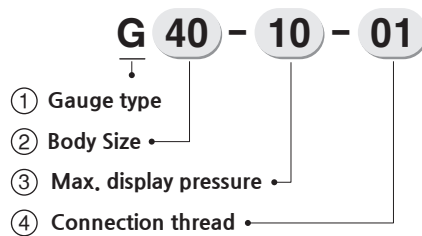


Gs28



GA-01

### How to order

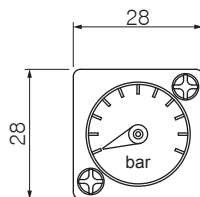


Model		Pressure <sup>(1)</sup> range	Unit	Connection thread
Standard	G25-10-R1	0~10 (0~1)	Both bar and MPa	R 1/16
	G40-10-01			R 1/8
	G50-10-02			R 1/4
High pressure	Gh40-20-01	0~20 (0~2)	Both bar and MPa	R 1/8
	Gh50-20-02			R 1/4
Precision	Gp40-2-01	0~2 (0~0.2)	Both bar and MPa	R 1/8
	Gp40-4-01	0~4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

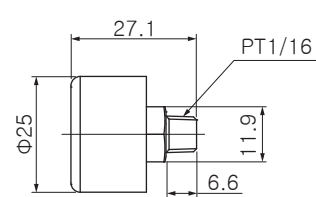
Note : 1. Do not apply pressure more than the maximum display pressure.  
This will cause a malfunction.

### Dimension(mm)

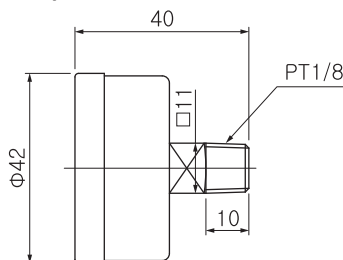
Gs28



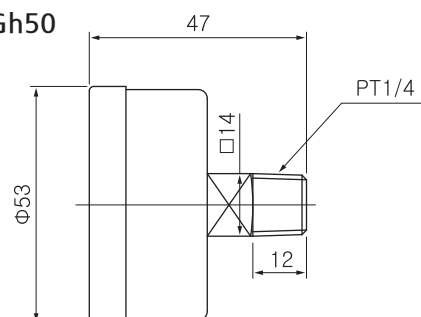
G25



G40, Gh40, Gp40



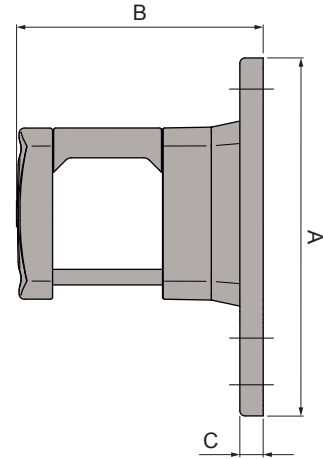
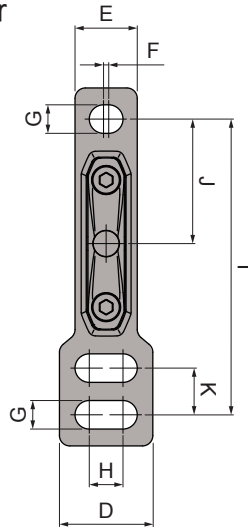
G50, Gh50



# Accessory

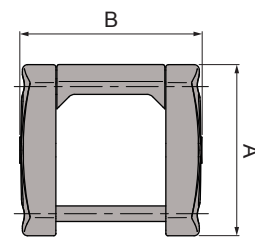
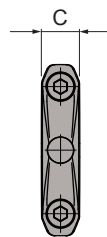
## Bracket for Air Unit(B110T~B610T / B110S~B610S)

### ■ Bracket with Modular Spacer



Model	A	B	C	D	E	F	G	H	I	J	K	Applicable model
B110T	56	39	4	13	13	2.3	4.4	7	47	20	7	SAU100, 110, 120
B210T	69	48	4.5	18	12	1	5.5	12	57	12.25	9	SAU200, 210~260
B310T	87	63	6	23	17	2	7	14	70	35	-	SAU300, 310~360
B410T-04	100	77	7	29	20	2	9	10	80	40	-	SAU400-04, 410-04~460~04
B410T-06	100	80	7	29	20	2	9	10	80	40	-	SAU400-06, 420-06, 430-06
B610T	125	105	11	33	25	2	11	10	100	50	-	SAU600, 610, 620

### ■ Modular Spacer



Model	A	B	C	Applicable model
B110S	27	27	8	SAU100, 110, 120
B210S	33	35	7.5	SAU200, 210~260, SAMU150
B310S	43	44	10	SAU300, 310~360, SAMU250
B410S-04	54	53	13	SAU400-04, 410-04~460~04, SAMU350
B410S-06	59	53	13	SAU400-06, 420-06, 430-06, SAMU450
B610S	69	65	15	SAU600, 610, 620, SAMU550

- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

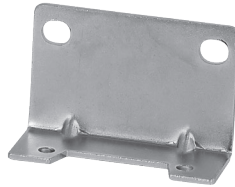


# Accessory

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



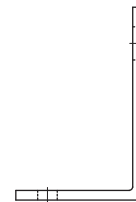
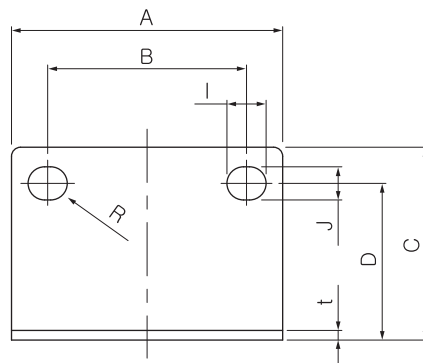
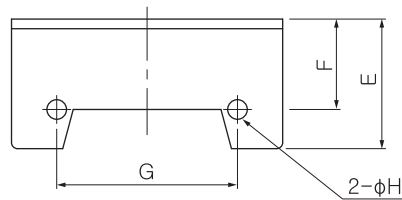
B600



B400



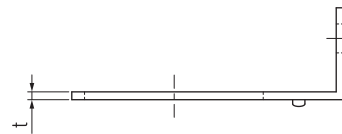
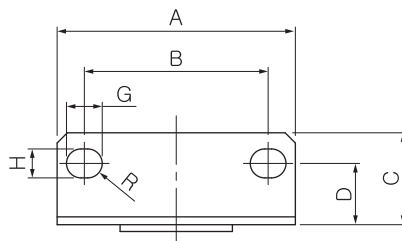
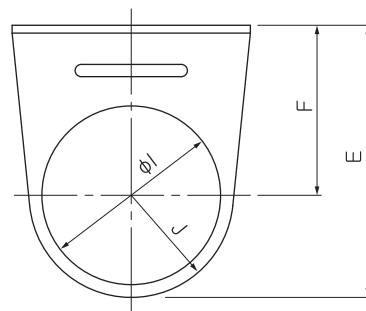
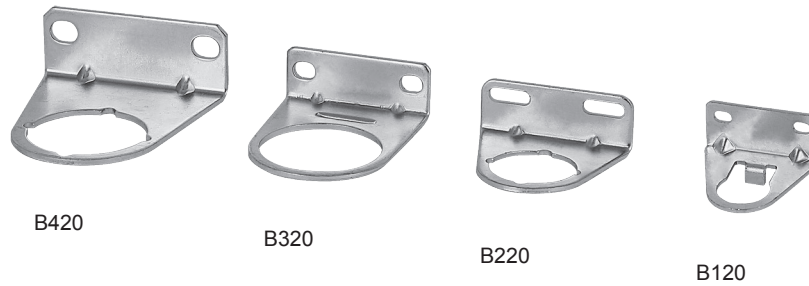
B300



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)



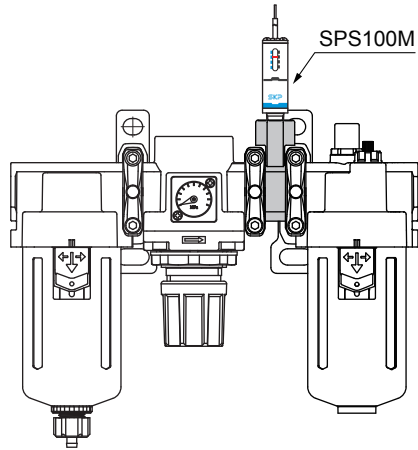
Model	A	B	C	D	E	F	G	H	I	J	R	t	Applicable model
B120	40	28	18.8	13.5	37.5	25	6.5	4.5	18.1	12.5	2.25	1.6	SAR100, SAW100
B220	55	34	21	15	49.5	30	15	5.4	29.8	19.3	5	2	SAR200, SAW200, SAWM200, SAWD200
B320	53	40	22	13.5	67	41	8	6.5	42.5	25	3.25	2.3	SAR300, SAW300, SAWM300, SAWD300
B420	70	54	28	19	80	52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

- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# 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

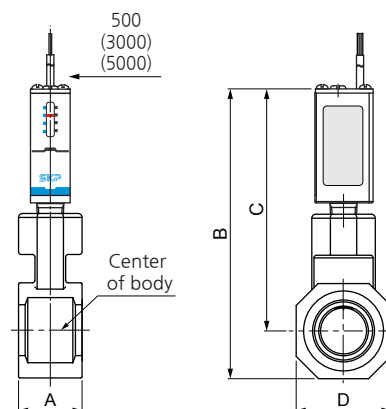
**SPS100M -** ● - ● - ●

- 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°C (No freezing)	
Set pressure range	Nil	1~4bar (0.1~0.4MPa)
	6	2~6bar (0.2~0.6MPa)

### Dimension(mm)

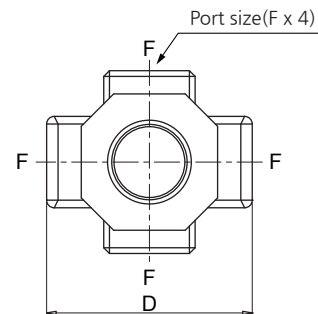
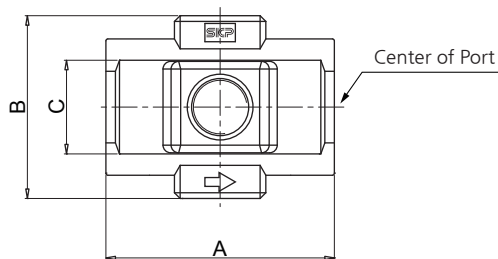
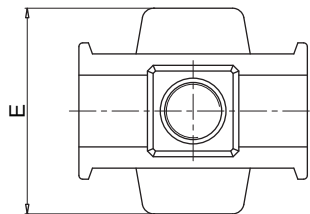
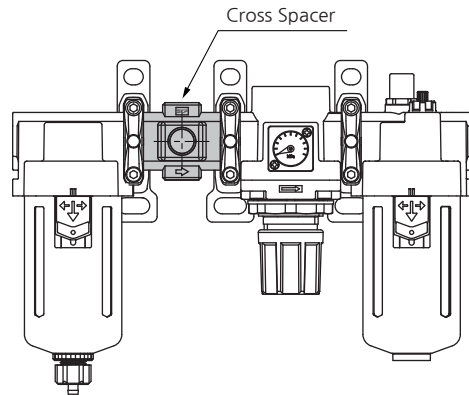


Model	A	B	C	D	Applicable model
PS100M-20	18	89.5	79	25	SAU200, SAU210~260
PS100M-30	19	100	86	30	SAU300, SAU310~360
PS100M-40	24	109	91.1	35.8	SAU400-04, SAU410~460
PS100M-50	24	113	93.2	43.6	SAU400-06, SAU420-06
PS100M-60	28	128	104.3	52.4	SAU600, SAU610~620

# 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						

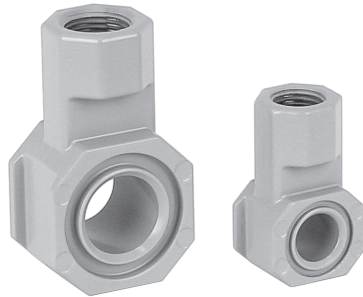
Note : □ in model numbers indicates a pipe thread type.  
No indication is necessary for Rc; however, indicate N for NPT, and G for G.

- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Accessory

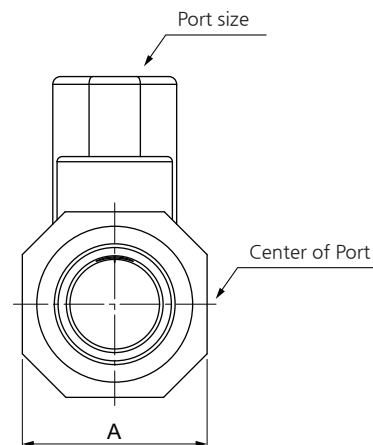
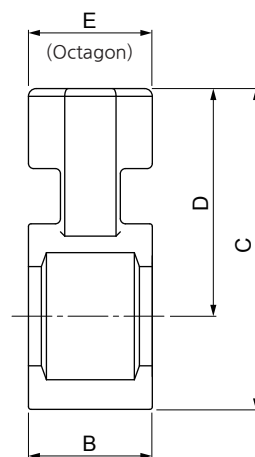
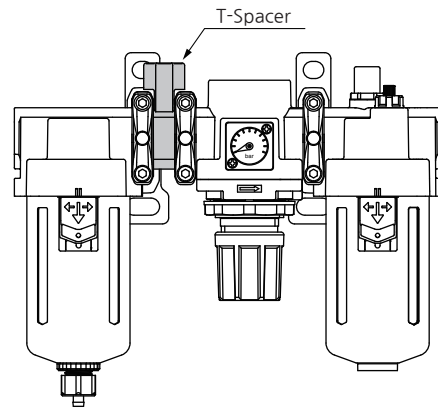
## T Spacer(B230T~B630T)

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



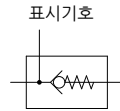
Unit (mm)

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						

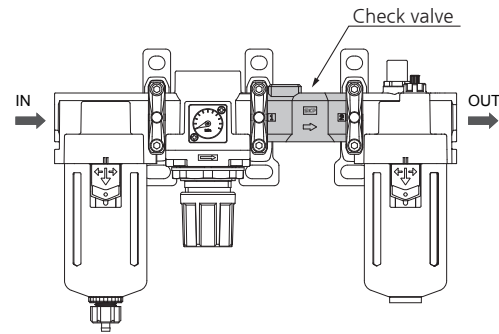
Note : □ in model numbers indicates a pipe thread type.  
No indication is necessary for Rc; however, indicate N for NPT, and G for G.

# Accessory

## Check Valve(SACM200~400)



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

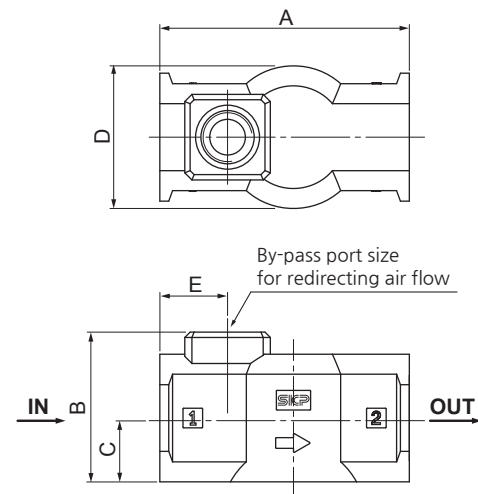
- SACM 4 00- 02**
- ① Check valve
  - ② Body size
    - 2 - 1/4
    - 3 - 3/8
    - 4 - 1/2
  - ③ Thread type
    - Nil - Rc(PT)
    - N - NPT
    - G - G(PF)
  - ④ By-pass port size

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)

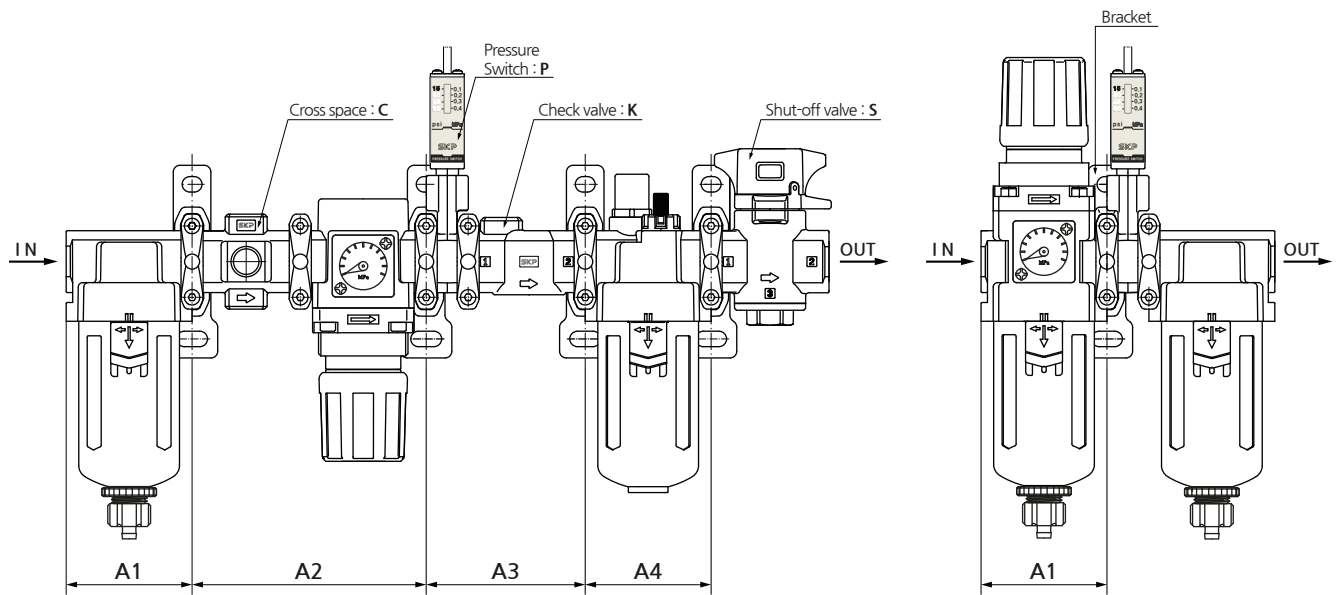
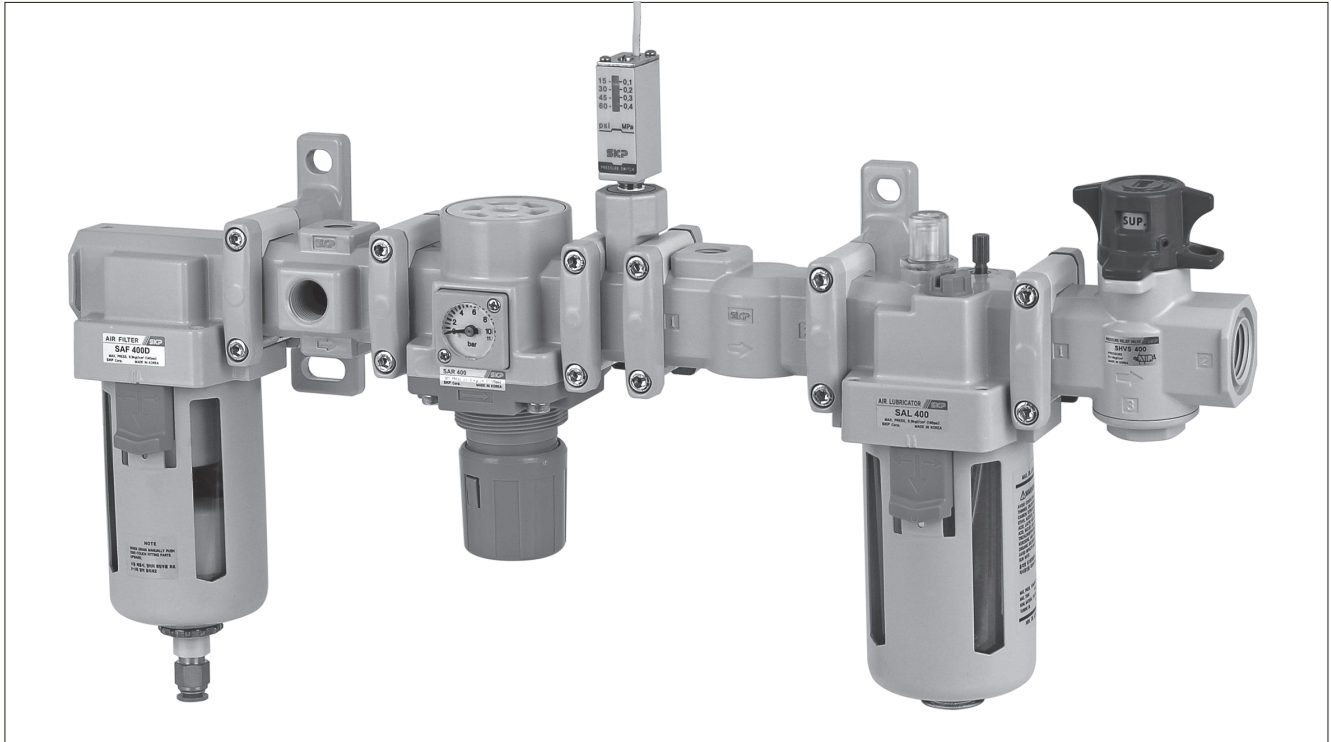


Model	By-pass port size	A	B	C	D	E	Applicable model
SACM200	1/8, 1/4	40	28	10.5	27	13.5	SAU200, SAU210~260
SACM300	1/8, 1/4	53	35.5	15	30	15	SAU300, SAU310~360 SAU400, SAU410~460
SACM400	1/4, 3/8	70	42	17.9	40	19	SAU600, SAU610~620

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

- SAU
- SAU LARGE FLOW
- SAU HIGH PRESS.
- SAW
- SAWM SAWD
- SAF
- SAF LARGE FLOW
- SAFM SAFD
- SAR
- SAR LARGE FLOW
- SAR T-HANDLE
- SAR HIGH PRESS.
- SRP
- SAL
- SAL LARGE FLOW
- AUTO-DRAIN KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION

# Mounting Position for Spacer with Bracket



# Mounting Position for Spacer with Bracket

Attachment		K			P		C		S			KP			CK			KS				CKP		
Model		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	95	—	—	—	—	—	—	—	—	—	—	—	—	—

Attachment		KPS				KCS				KPCS				PC		PS			PCS			CS		
Model		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	83	43	61	43	83	61	43
SAU300		57	57	72	57	57	106	53	57	57	106	72	57	57	106	57	57	76	57	106	76	57	106	57
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		K			P		S		KP		KS			KPS		PS	
Model		A1	A2	A3	A1	A2	A1	A2	A1	A2	A3	A1	A2	A3	A1	A2	
SAU210		43	40	43	43	43	43	58	43	40	43	43	58	43	43	61	
SAU310		57	53	57	57	57	57	72	57	53	57	57	72	57	57	76	
SAU410-04		75	70	75	75	75	75	94	75	70	75	75	94	75	75	99	
SAU610		—	—	95	95	95	—	—	—	—	—	—	—	—	95	122	

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

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

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

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

Attachment		P		S		PS	
Model		A1	A2	A3	A1	A2	A2
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.

SAU

SAU  
LARGE FLOWSAU  
HIGH PRESS.

SAW

SAWM  
SAWD

SAF

SAF  
LARGE FLOWSAFM  
SAFD

SAR

SAR  
LARGE FLOWSAR  
T-HANDLESAR  
HIGH PRESS.

SRP

SAL

SAL  
LARGE FLOWAUTO-DRAIN  
KITS

SHVS

SPS100

ACCESSORY

CAUTION

# 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)<sup>1)</sup>, KS<sup>2)</sup> and other safety regulations.

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

- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAWM  
SAWD
- SAF
- SAF  
LARGE FLOW
- SAFM  
SAFD
- SAR
- SAR  
LARGE FLOW
- SAR  
T-HANDLE
- SAR  
HIGH PRESS.
- SRP
- SAL
- SAL  
LARGE FLOW
- AUTO-DRAIN  
KITS
- SHVS
- SPS100
- ACCESSORY
- CAUTION**

## Mounting

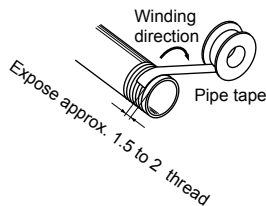
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### ⚠ WARNING

- 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

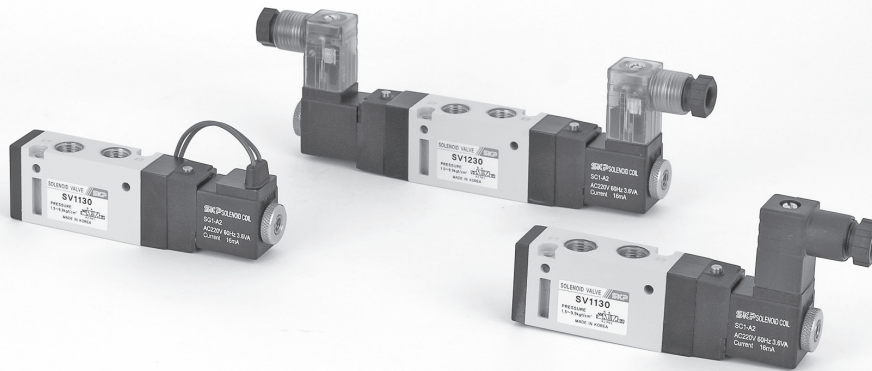


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# 5port Pilot Operated Solenoid Valve (SV)

## SV1000 Series (Rc(PT) 1/8)

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



### How to order

SV11 30-110V-CL-P-01

- 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)
  - 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**
  - 01 - Rc(PT) 1/8

### Symbol

2 Position Single



3 Position Closed Center



2 Position Double



3 Position Exhaust Center



3 Position Pressure Center

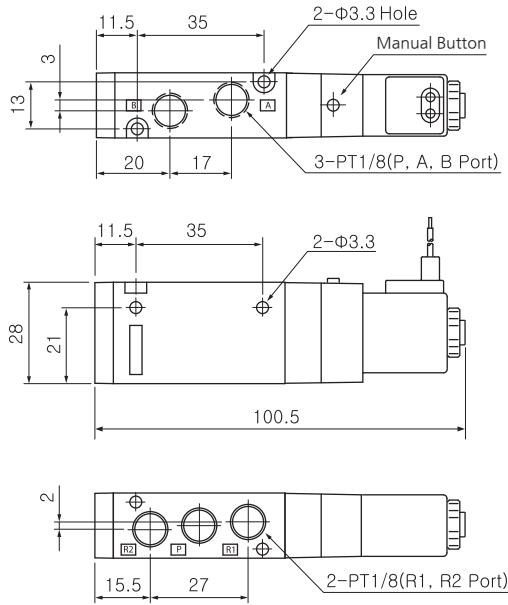


### Specification

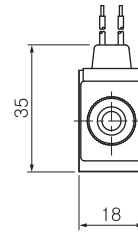
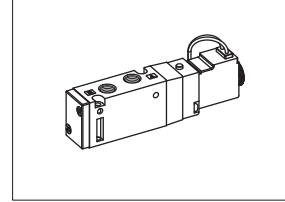
Function	5port 2position	5port 3position
Fluid	Compressed air	
Ambient and Media temp.	5~60°C	
Max. operating pressure	1.5~10bar	2~10bar
Eff. Sectional Area(5bar)	12.6mm <sup>2</sup>	9.0mm <sup>2</sup>
Response time(5bar)	25ms or less	35ms or less
Max. operating frequency	5c/sec	3c/sec
Lubrication	Not 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)

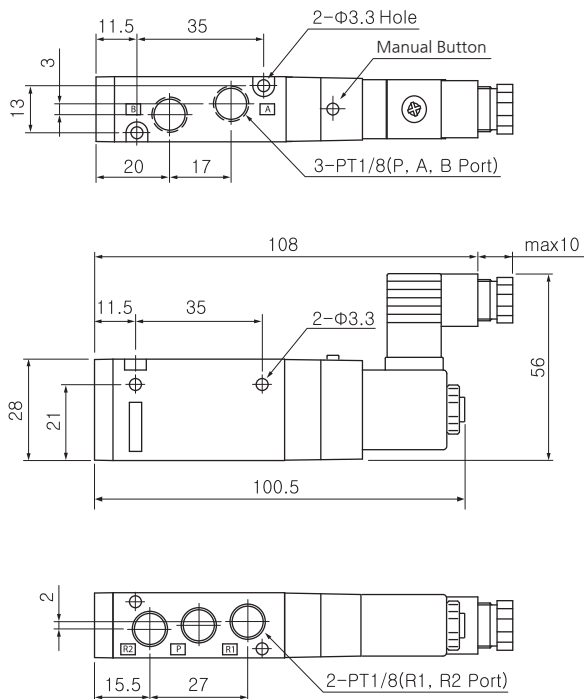
2position / 5port single(Grommet type)



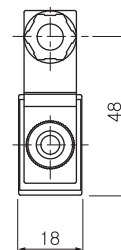
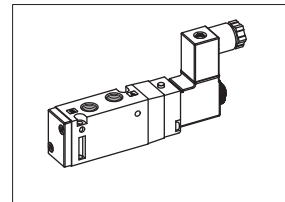
SV1130-□□□V-G-□□□□



2position / 5port single(Connector type)



SV1130-□□□V-C-□□□□



SV1000

SV3000

SV5000

SV6000

SV231  
~232

COIL  
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231  
~232

SMVF250

SMVF350

SFVM

SHV

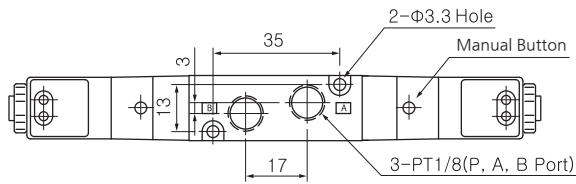
CAUTION



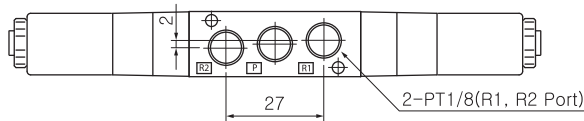
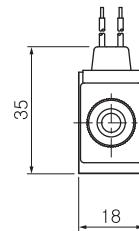
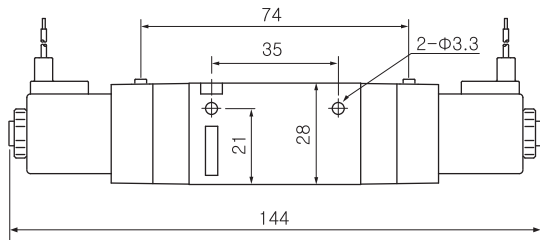
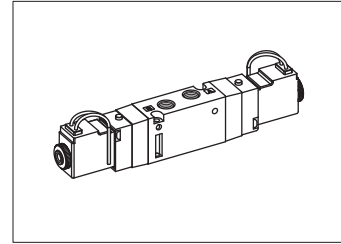
# Series SV1000

## DIMENSIONS (mm)

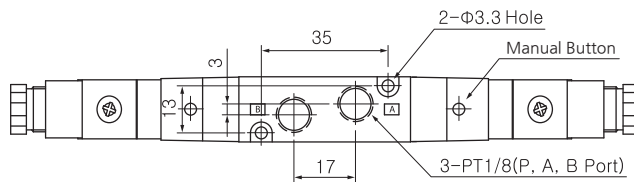
2position / 5port double(Grommet type)



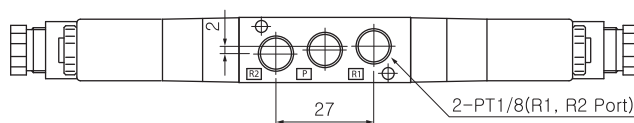
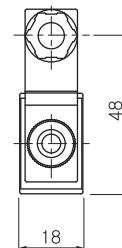
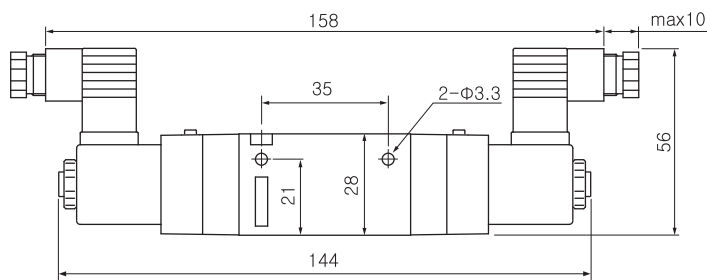
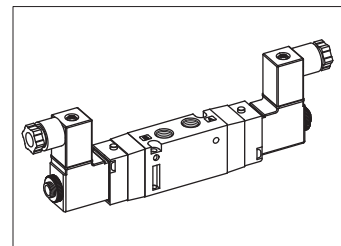
SV1230-□□□V-G-...



2position / 5port double(Connector type)

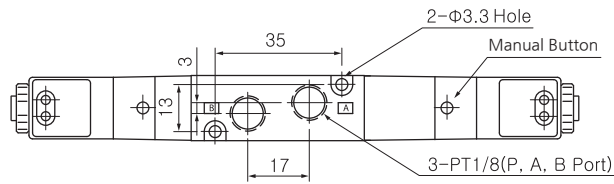


SV1230-□□□V-C-□-...

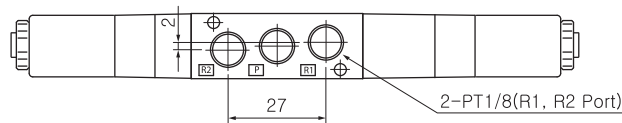
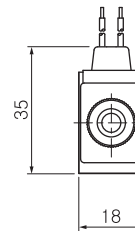
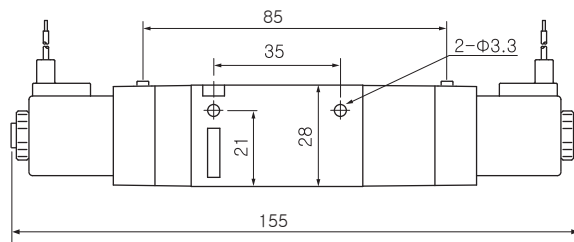
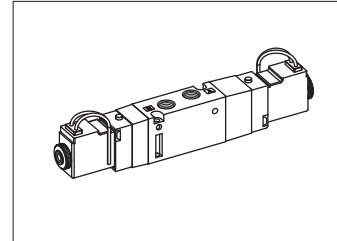


## DIMENSIONS (mm)

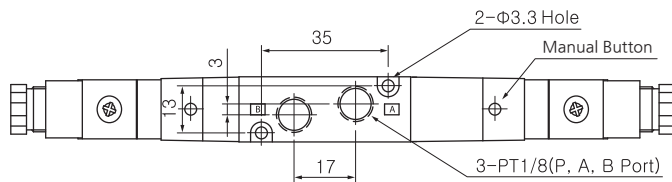
3position / 5port double (Grommet type)



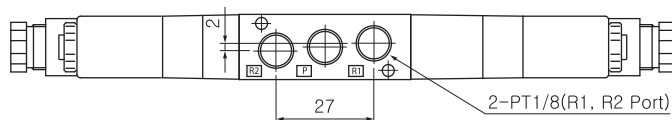
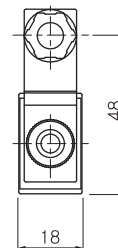
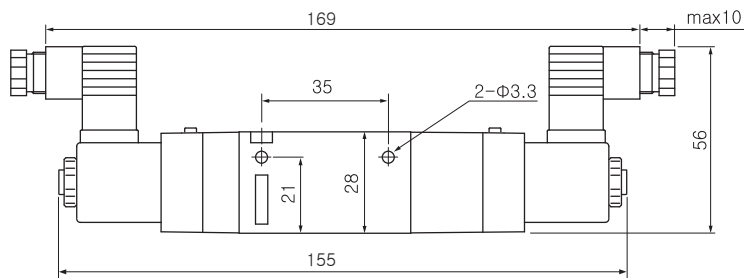
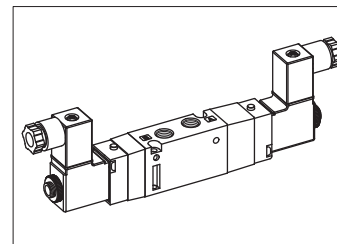
SV1330-□□□V-G-...



3position / 5port double (Connector type)



SV1330-□□□V-C□-...



SV1000

SV3000

SV5000

SV6000

SV231  
~232

COIL  
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231  
~232

SMVF250

SMVF350

SFVM

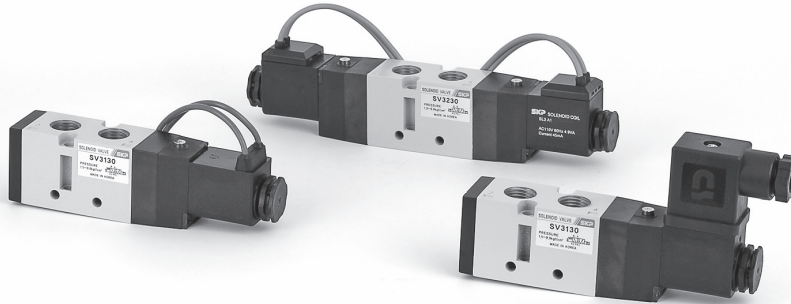
SHV

CAUTION

# 5port Pilot Operated Solenoid Valve (SV)

## SV3000 Series (Rc(PT) 1/4)

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



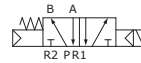
### How to order

**SV3 1 30- 220V - GL - P - 02**

- 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)
  - GL - Flying Leads with LED lamp(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**
  - 02 - Rc(PT) 1/4(P, A, B), 1/8(R1, R2)

### Symbol

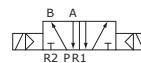
2 Position Single



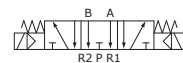
3 Position Closed Center



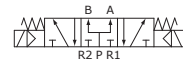
2 Position Double



3 Position Exhaust Center



3 Position Pressure Center



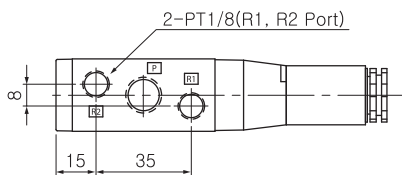
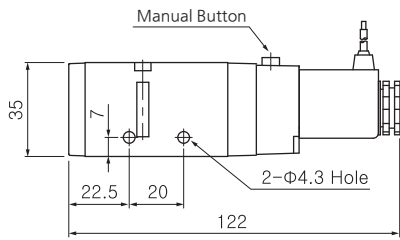
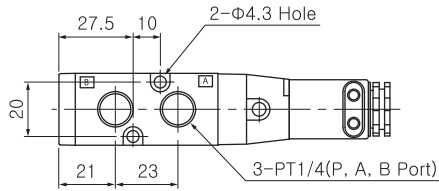
### Specification

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)	19mm <sup>2</sup>	11.5mm <sup>2</sup>
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	

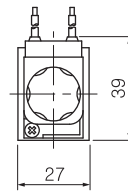
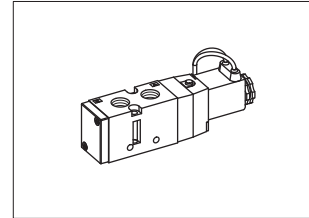
# Solenoid Valve

## DIMENSIONS (mm)

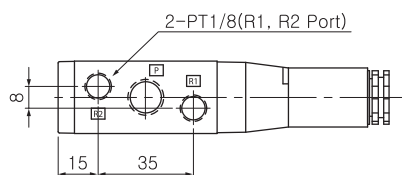
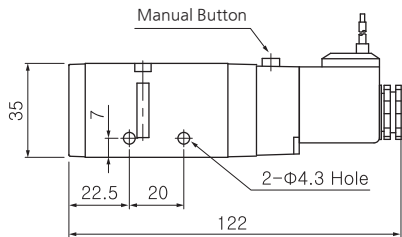
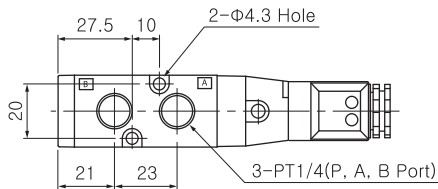
### 2position / 5port single(Grommet type)



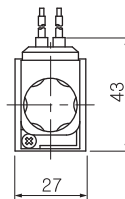
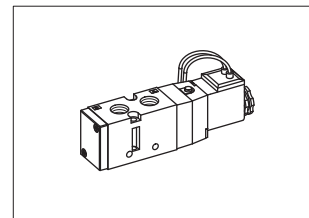
### SV3130-□□□V-G-...



### 2position / 5port single(Lamp type)



### SV3130-□□□V-GL-...



SV1000

SV3000

SV5000

SV6000

SV231  
~232

COIL  
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231  
~232

SMVF250

SMVF350

SFVM

SHV

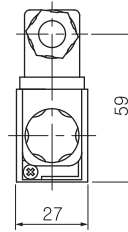
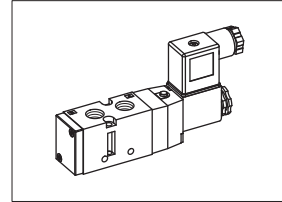
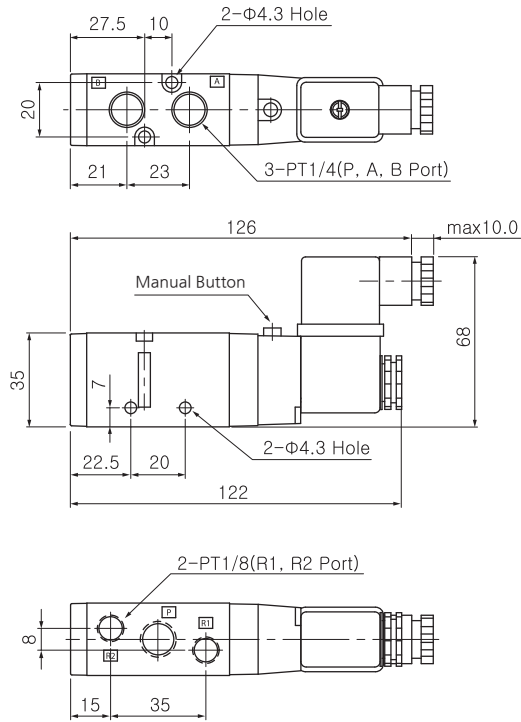
CAUTION

# Series SV3000

## DIMENSIONS (mm)

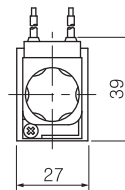
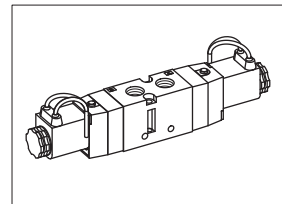
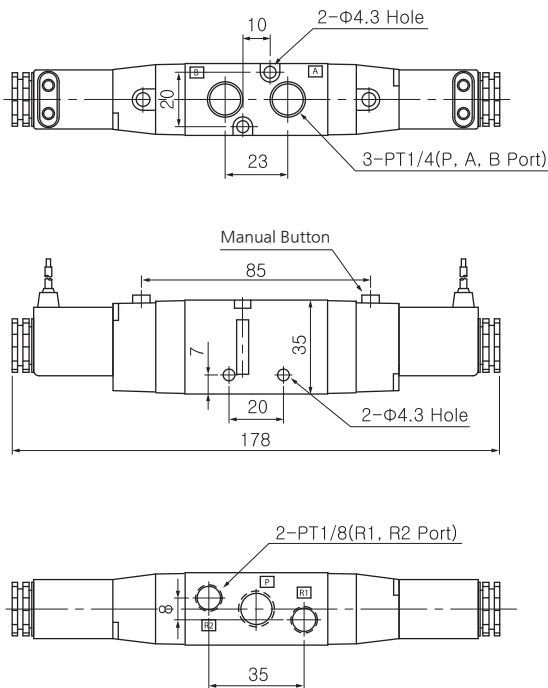
### 2position / 5port single(Connector type)

SV3130-□□□V-C□-...



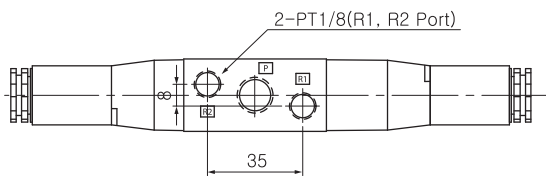
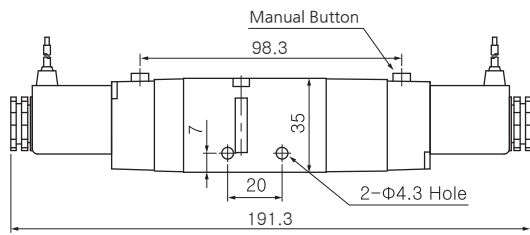
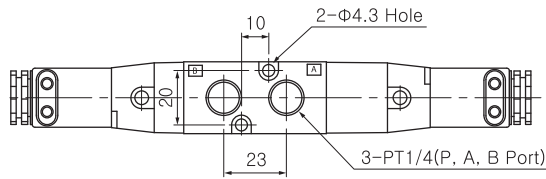
### 2position / 5port double(Grommet type)

SV3230-□□□V-G-...

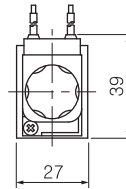
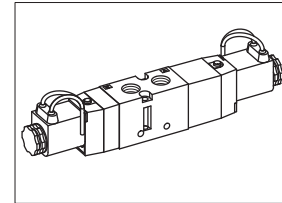


## DIMENSIONS (mm)

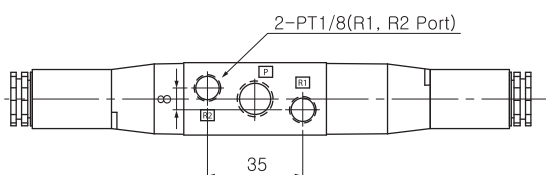
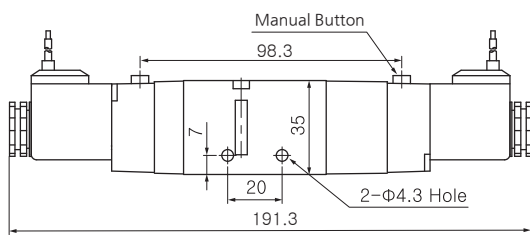
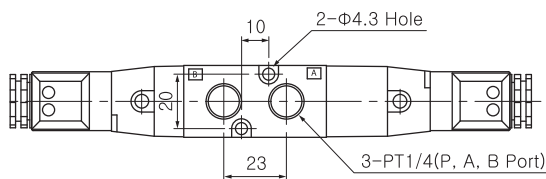
### 3position / 5port double(Grommet type)



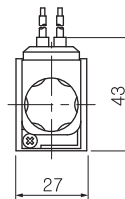
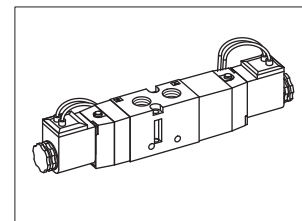
SV3330-□□□V-G-...



### 3position / 5port double(Lamp type)



SV3330-□□□V-GL-...



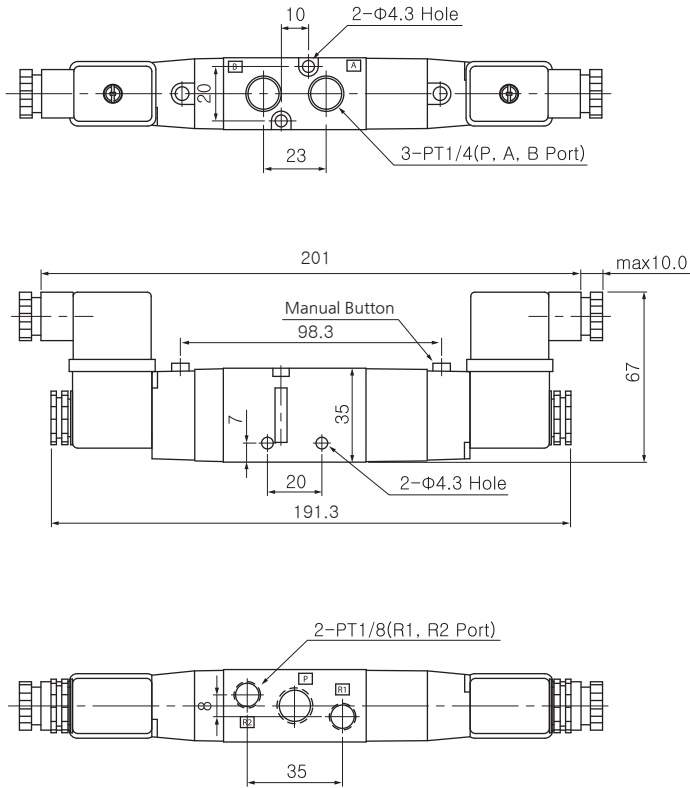
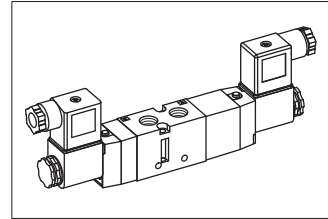
SV1000
SV3000
SV5000
SV6000
SV231 ~232
COIL CONNECTOR
SMV100
SMV200
SMVS200
SMVF231 ~232
SMVF250
SMVF350
SFVM
SHV
CAUTION

# Series SV3000

## DIMENSIONS (mm)

3position / 5port double(Connector type)

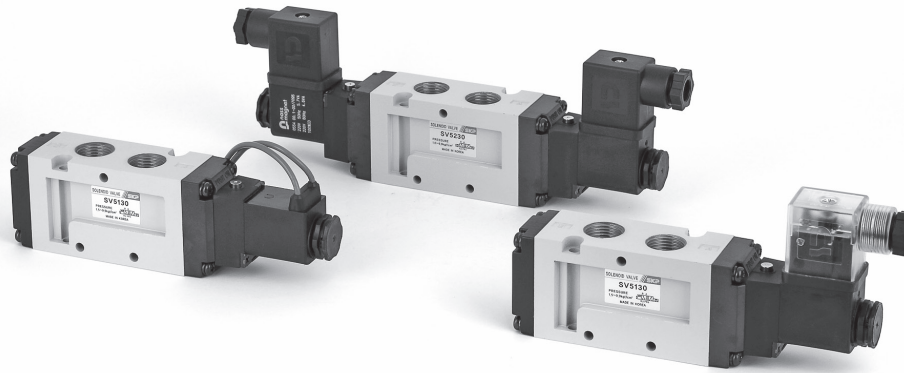
SV3330-□□□V-C□-...



# 5port Pilot Operated Solenoid Valve (SV)

## SV5000 Series (Rc(PT) 3/8)

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



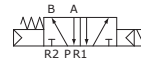
### How to order

**SV5 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

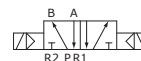
2 Position Single



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)	36mm <sup>2</sup>	30mm <sup>2</sup>
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	

SV1000

SV3000

SV5000

SV6000

SV231  
~232

COIL  
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231  
~232

SMVF250

SMVF350

SFVM

SHV

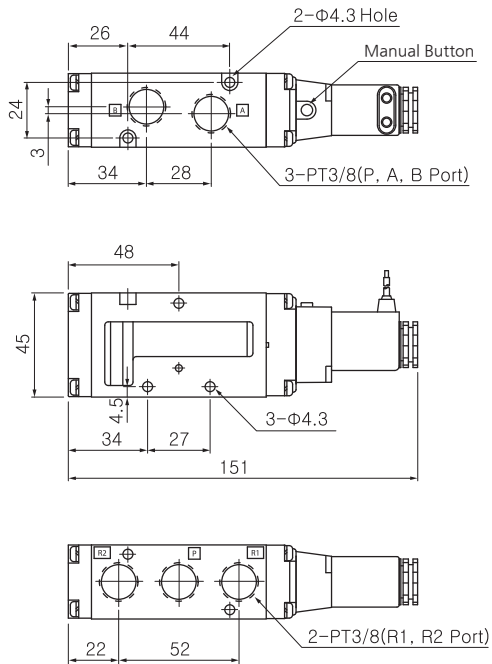
CAUTION



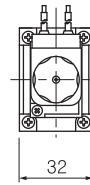
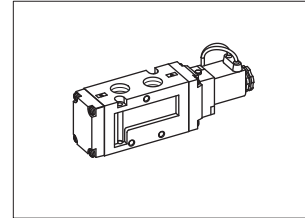
# Series SV5000

## DIMENSIONS (mm)

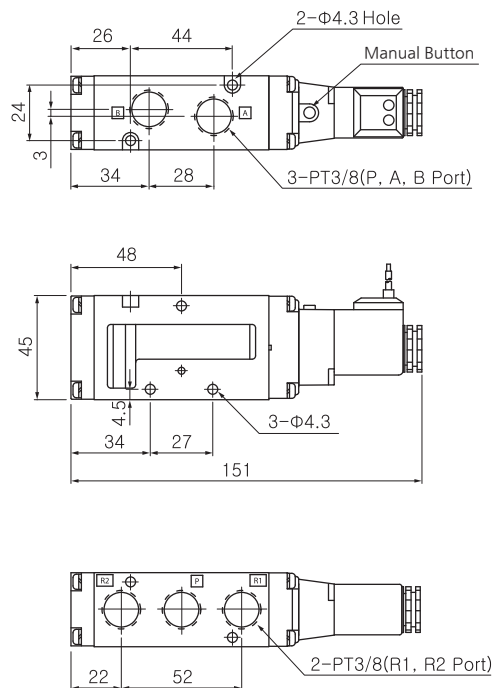
### 2position / 5port single(Grommet type)



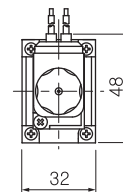
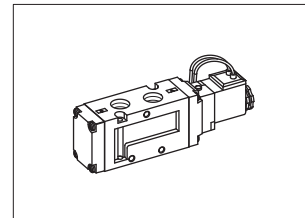
SV5130-□□□V-G-...



### 2position / 5port single(Lamp type)

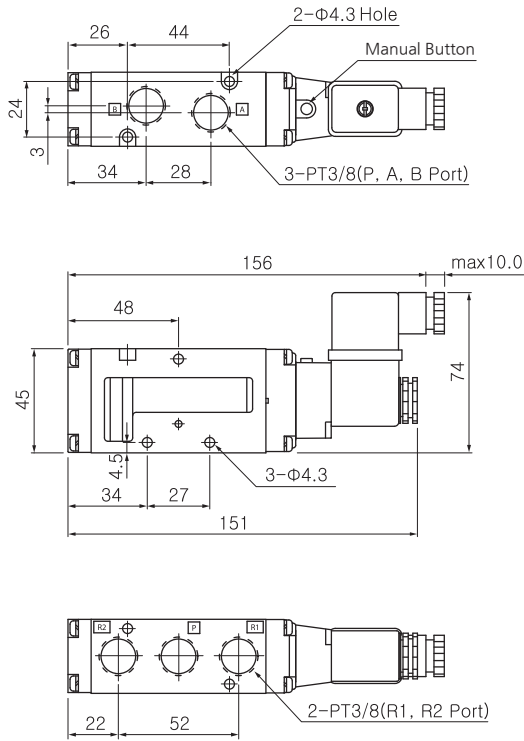


SV5130-□□□V-GL-...

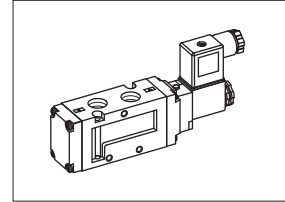


## DIMENSIONS (mm)

### 2position / 5port single(Connector type)

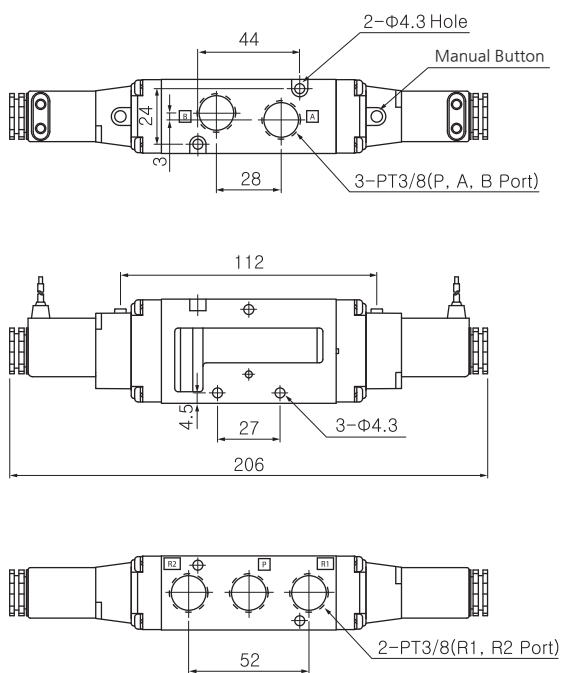


### SV5130-□□□V-C□-...

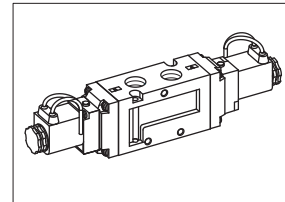


SV1000
SV3000
<b>SV5000</b>
SV6000
SV231 ~232
COIL CONNECTOR
SMV100
SMV200
SMVS200
SMVF231 ~232
SMVF250
SMVF350
SFVM
SHV
CAUTION

### 2position / 5port double(Grommet type)



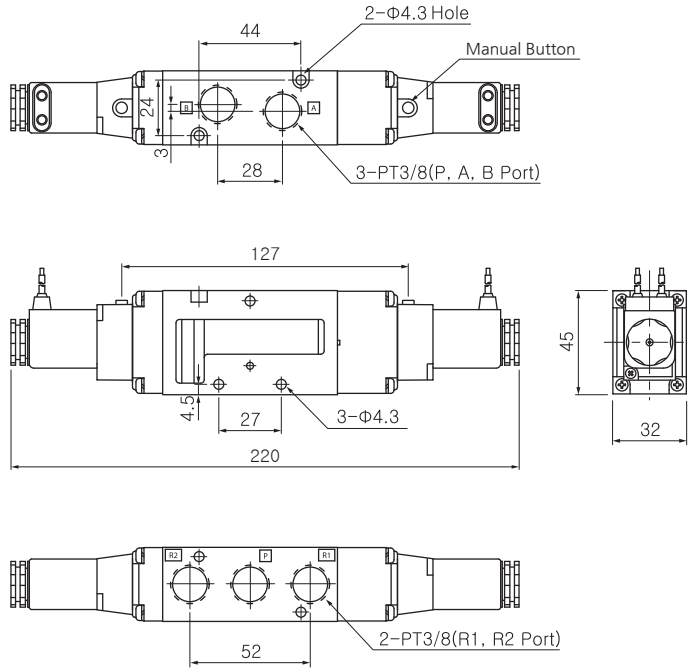
### SV5230-□□□V-G-...



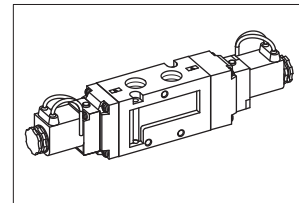
# Series SV5000

## DIMENSIONS (mm)

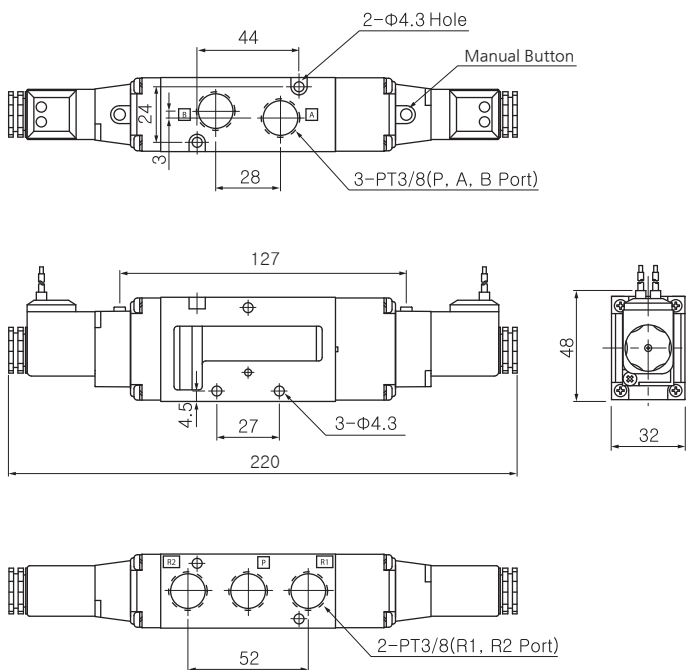
### 3position / 5port double(Grommet type)



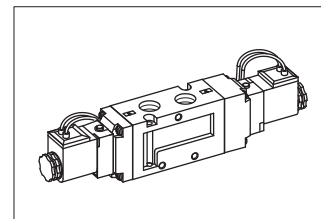
SV5330-□□□V-G-...



### 3position / 5port double(Lamp type)



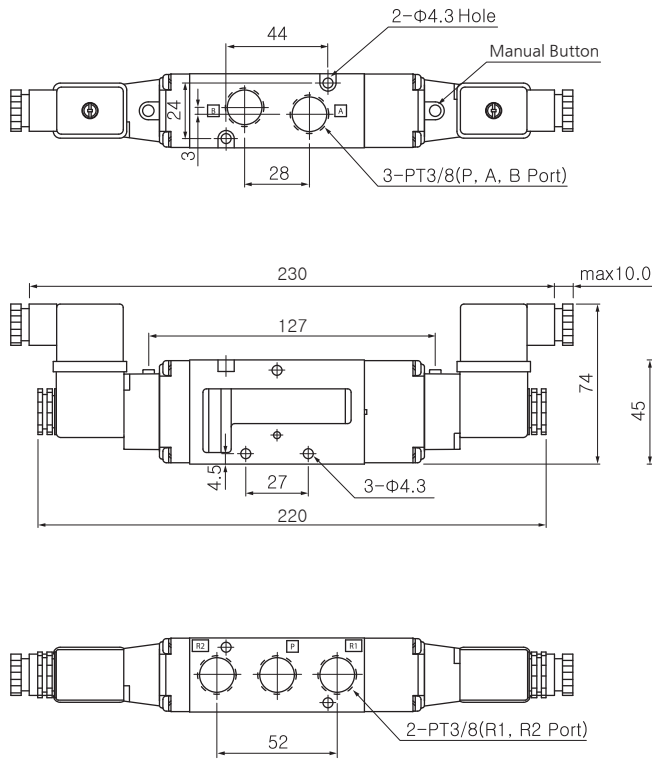
SV5330-□□□V-GL-...



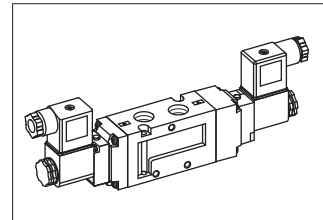
# Solenoid Valve

## DIMENSIONS (mm)

3position / 5port double(Connector type)



SV5330-□□□V-C□-...



SV1000
SV3000
<b>SV5000</b>
SV6000
SV231 ~232
COIL CONNECTOR
SMV100
SMV200
SMVS200
SMVF231 ~232
SMVF250
SMVF350
SFVM
SHV
CAUTION

# 5port Pilot Operated Solenoid Valve (SV)

## SV6000 Series (Rc(PT) 1/2)

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

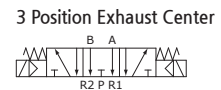
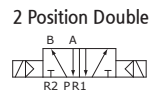
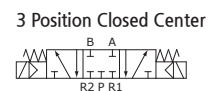
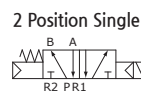


### How to order

**SV6 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

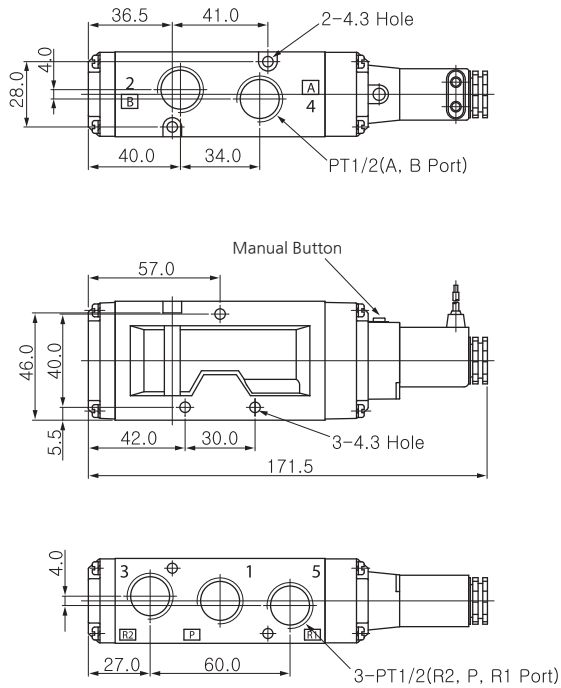


### Specification

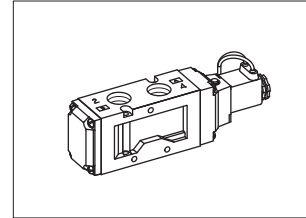
Function	5port 2position	5port 3position
Fluid	Compressed air	
Ambient and Media temp.	5 ~ 60°C	
Max. operating pressure	1.5~10bar	2~10bar
Eff. Sectional Area(5bar)	65mm <sup>2</sup>	50mm <sup>2</sup>
Response time(5bar)	30ms or less	40ms or less
Max. operating frequency	2c/sec	1c/sec
Lubrication	Not 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-...



SV1000

SV3000

SV5000

SV6000

SV231  
~232

COIL  
CONNECTOR

SMV100

SMV200

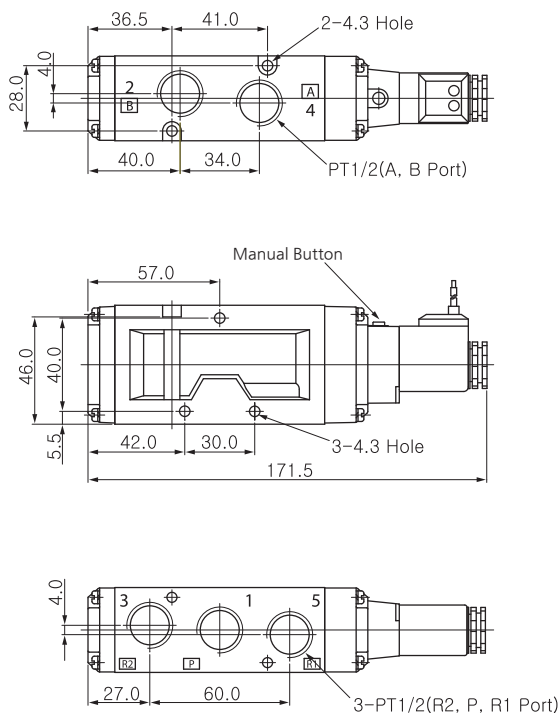
SMVS200

SMVF231  
~232

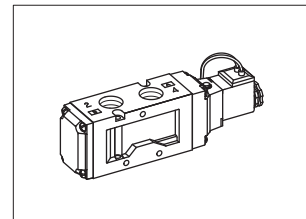
SMVF250

SMVF350

### 2position / 5port single(Lamp type)



### SV6130-□□□V-GL-...



SFVM

SHV

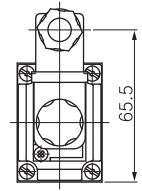
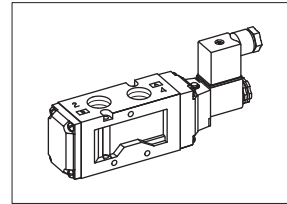
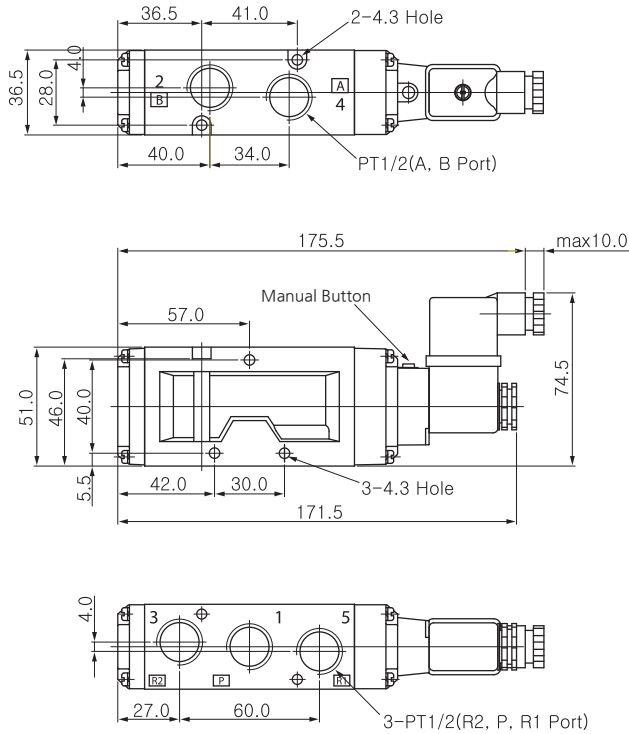
CAUTION

# Series SV6000

## DIMENSIONS (mm)

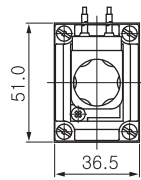
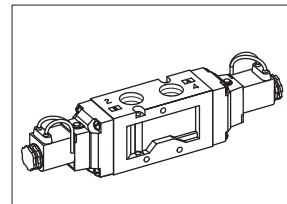
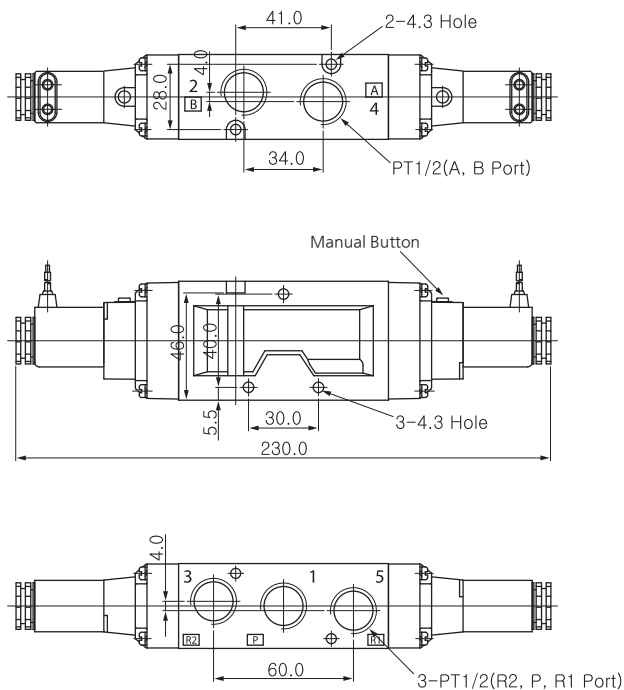
### 2position / 5port single(Connector type)

SV6130-□□□V-C□-...



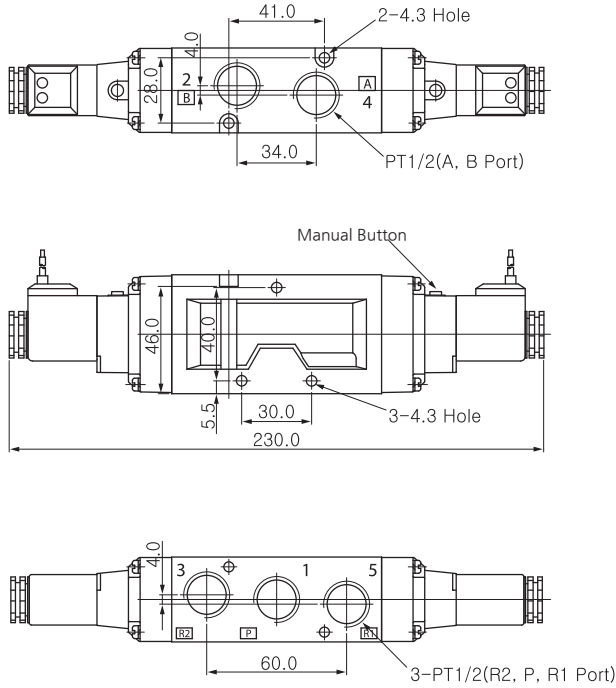
### 2position / 5port double(Grommet type)

SV6230-□□□V-G-...

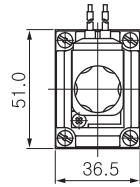
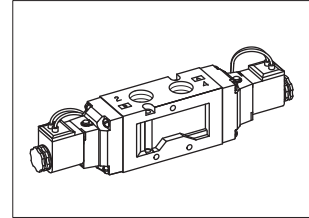


## DIMENSIONS (mm)

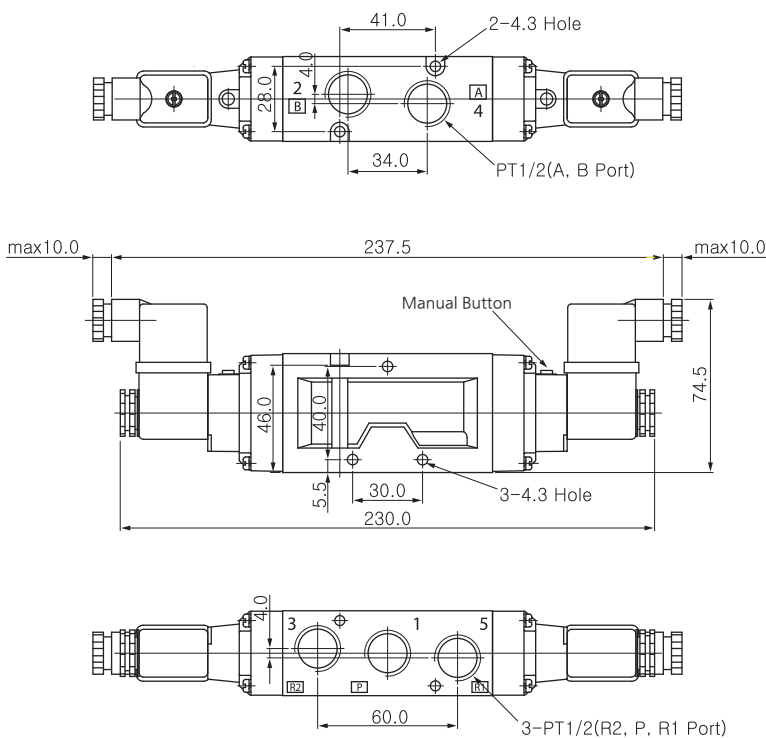
### 2position / 5port double(Lamp type)



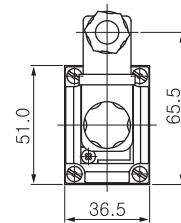
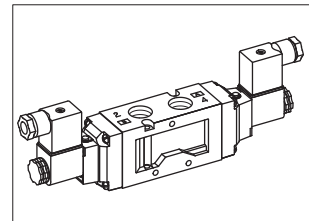
SV6230-□□□V-GL-...



### 22position / 5port double(Connector type)



SV6230-□□□V-C□-...



SV1000

SV3000

SV5000

SV6000

SV231  
~232

COIL  
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231  
~232

SMVF250

SMVF350

SFVM

SHV

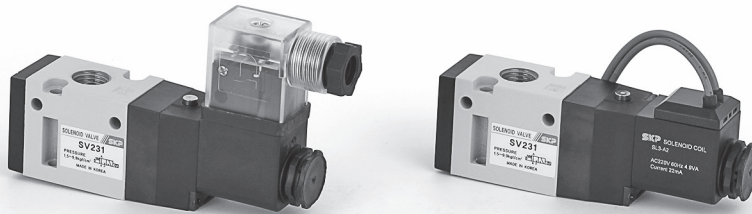
CAUTION



# 3port Pilot Operated Solenoid Valve (SV)

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

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

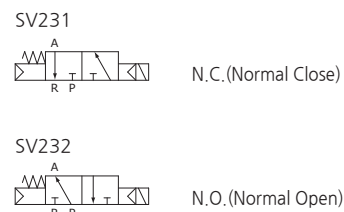


### How to order

**SV 231 - 110V - GL - P - 02**

- ① Solenoid valve
- ② **Function**
  - 1 - Normal Close(N.C.)
  - 2 - Normal Open(N.O.)
- 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

### Symbol



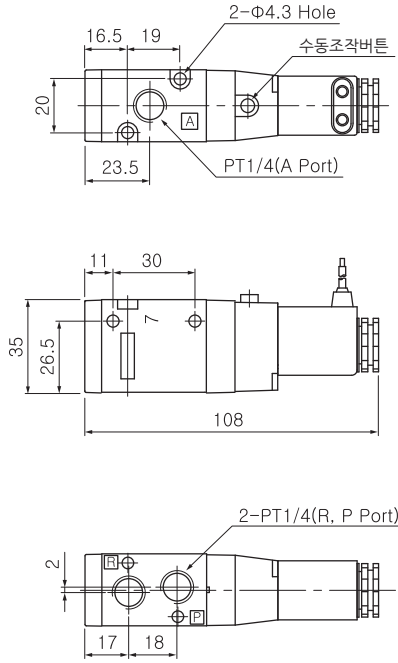
### Specification

Fluid	Compressed air
Ambient and Media temp.	5~60℃
Max. operating pressure	1.5~10bar
Eff. Sectional Area(5bar)	19mm <sup>2</sup>
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

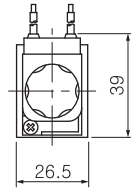
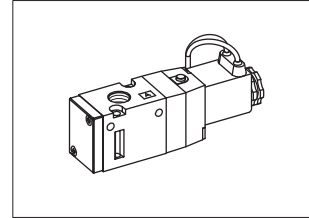
# Solenoid Valve

## DIMENSIONS (mm)

### 2position / 3port (Grommet type)

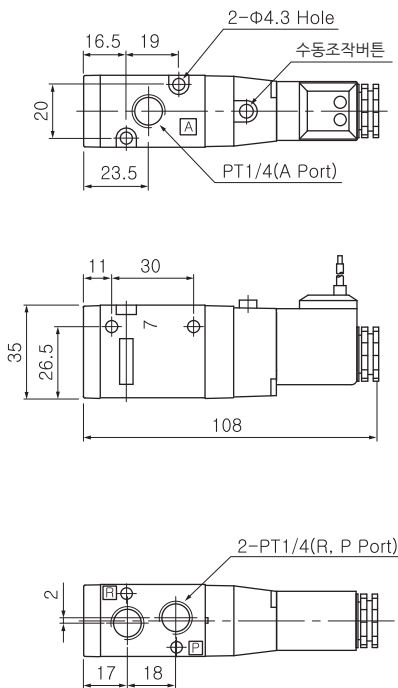


### SV23□-□□□V-G...

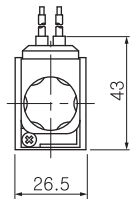
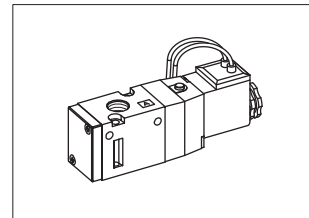


SV1000
SV3000
SV5000
SV6000
<b>SV231 ~232</b>
COIL CONNECTOR
SMV100
SMV200
SMVS200
SMVF231 ~232
SMVF250
SMVF350
SFVM
SHV
CAUTION

### 2position / 3port (Lamp type)



### SV23□-□□□V-GL...

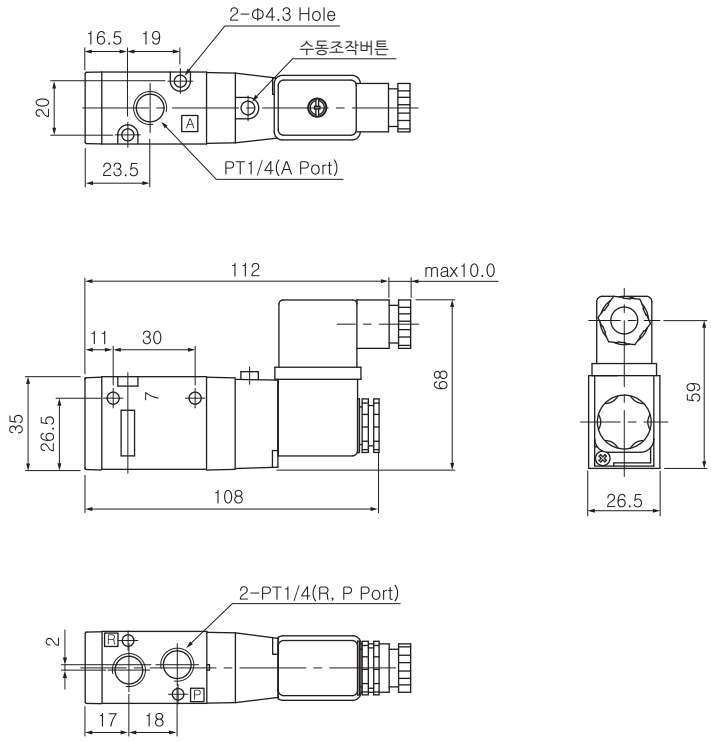
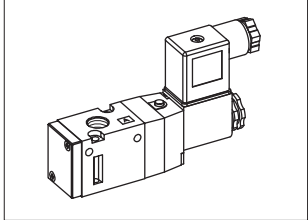


# Series SV231~232

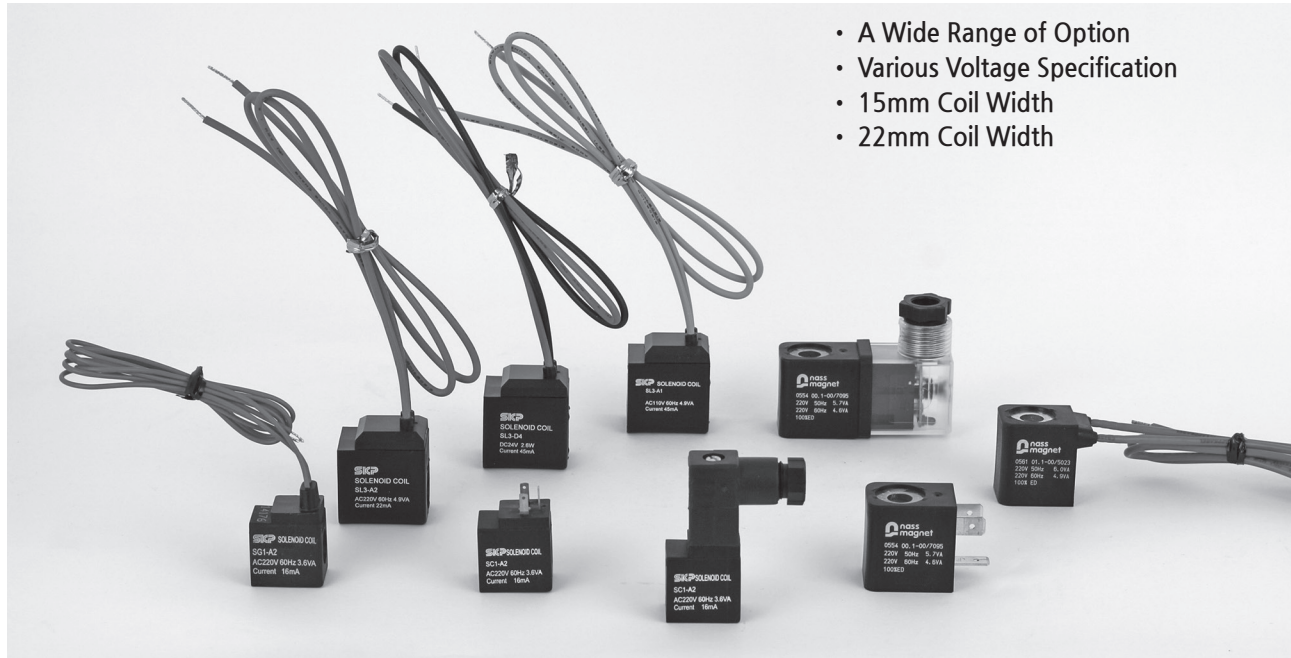
## DIMENSIONS (mm)

2position / 3port (Connector type)

SV23□-□□□V-C□-...



# Solenoid Coil Series



- A Wide Range of Option
- Various Voltage Specification
- 15mm Coil Width
- 22mm Coil Width

- SV1000
- SV3000
- SV5000
- SV6000
- SV231  
~232
- COIL  
CONNECTOR
- SMV100
- SMV200
- SMVS200
- SMVF231  
~232
- SMVF250
- SMVF350
- SFVM
- SHV
- CAUTION

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

## Specification

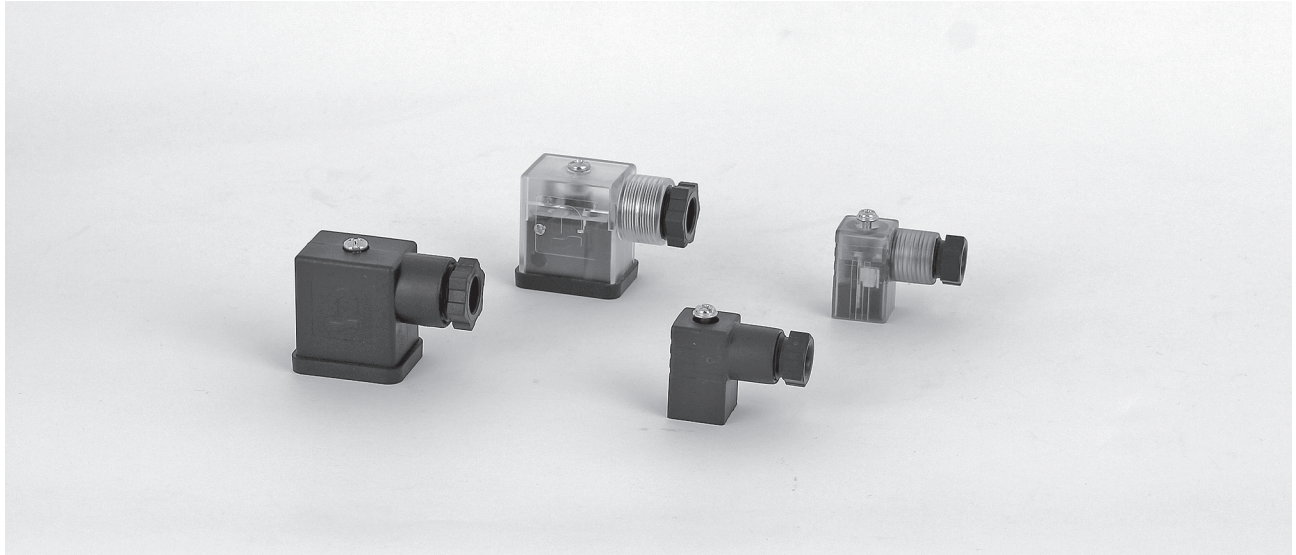
Model	SG1, SC1	SG3, SL3, SC3		
Voltage Tolerances	±10% of Rated Voltage			
Coil Insulation Class	F-Class or Equivalent			
Ambient and Media temp.	5~60°C			
Holding Power	AC	60Hz	3.6VA	4.9VA
		50Hz	4.6VA	6.0VA
	DC	2.5W	2.5W	

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

## Specification

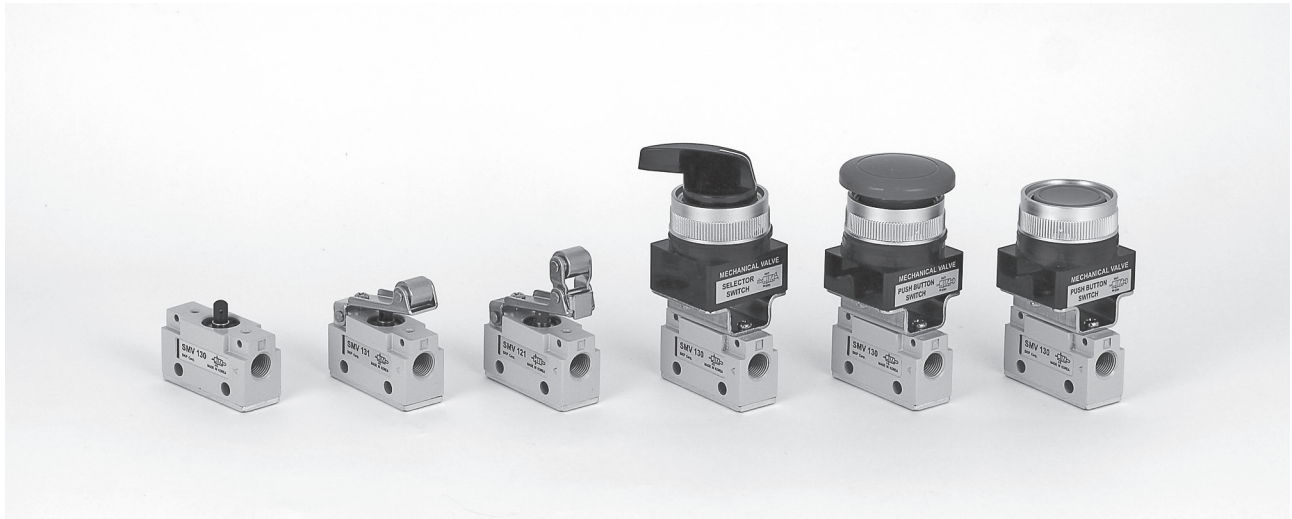
Voltage Tolerances	±10% of Rated Voltage
Ambient and Media temp.	5~60°C
Max.Current	2.5A
Protection Class	IP65(With Coil)

## Material

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

# Mechanical Valve (SMV)

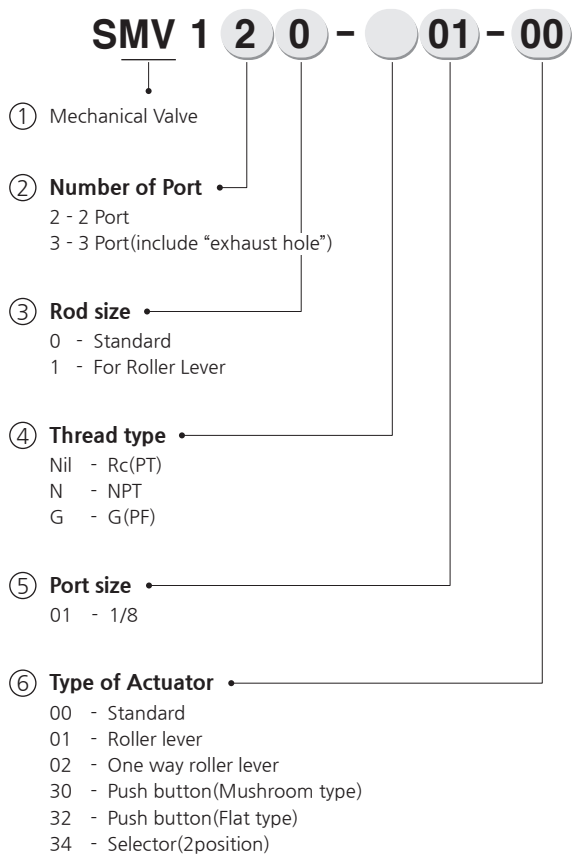
## SMV100 Series (Rc(PT) 1/8)



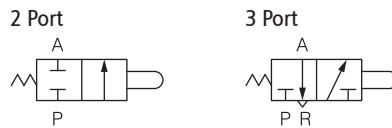
- SV1000
- SV3000
- SV5000
- SV6000
- SV231 ~232
- COIL CONNECTOR

- SMV100**
- SMV200
- SMVS200
- SMVF231 ~232
- SMVF250
- SMVF350
- SFVM
- SHV
- CAUTION

### How to order



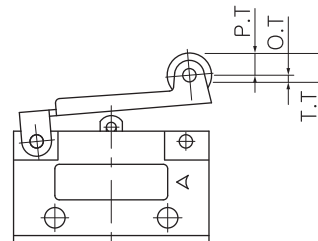
### Symbol



### 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 <sup>2</sup> (0.14)
Lubrication	Not required
Port size	1/8

### Operating point of Mechanical valve

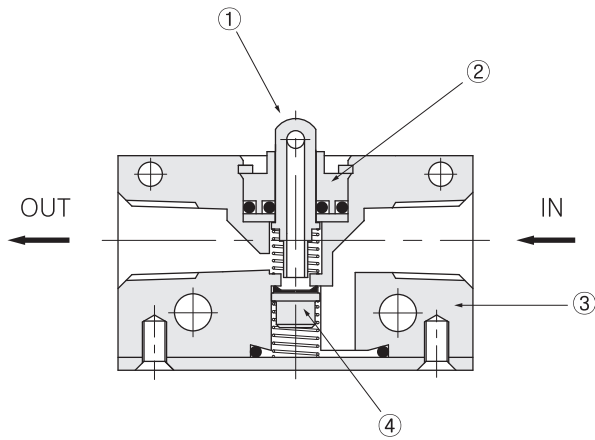


P.T.	From the free position to the operating position of actuator
O.T.	From the operating position to the operating limit of actuator
T.T.	From the free position to the operating limit of actuator

# Series SMV100

## STRUCTURE / PARTS

### SMV 100



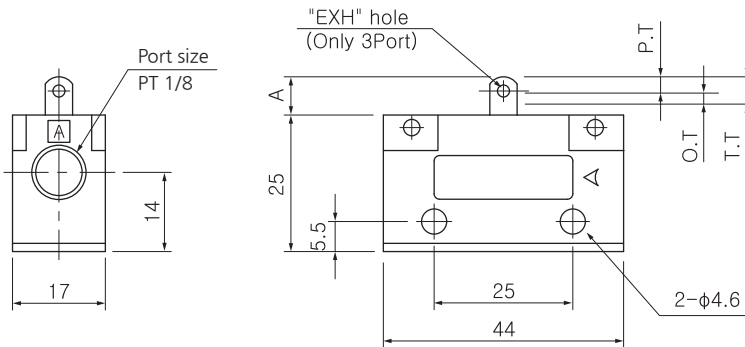
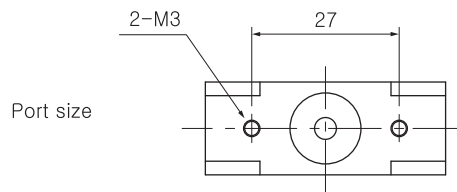
No.	PARTS	MATERIAL
①	Rod	A2011
②	Rod guide	Brass
③	Body	ALDC
④	Check valve	NBR

## 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
O.T.	2
T.T.	3

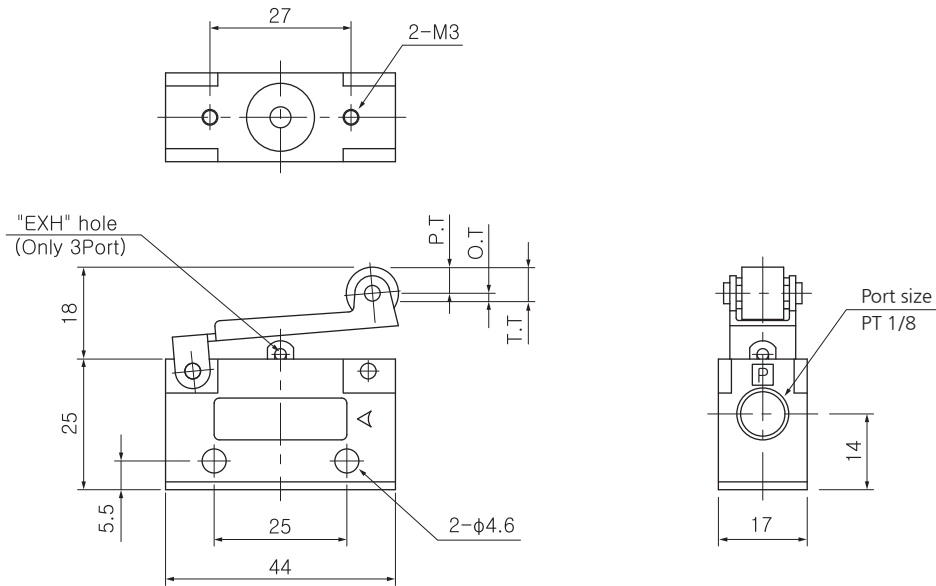


# Mechanical Valve

## DIMENSIONS (mm)

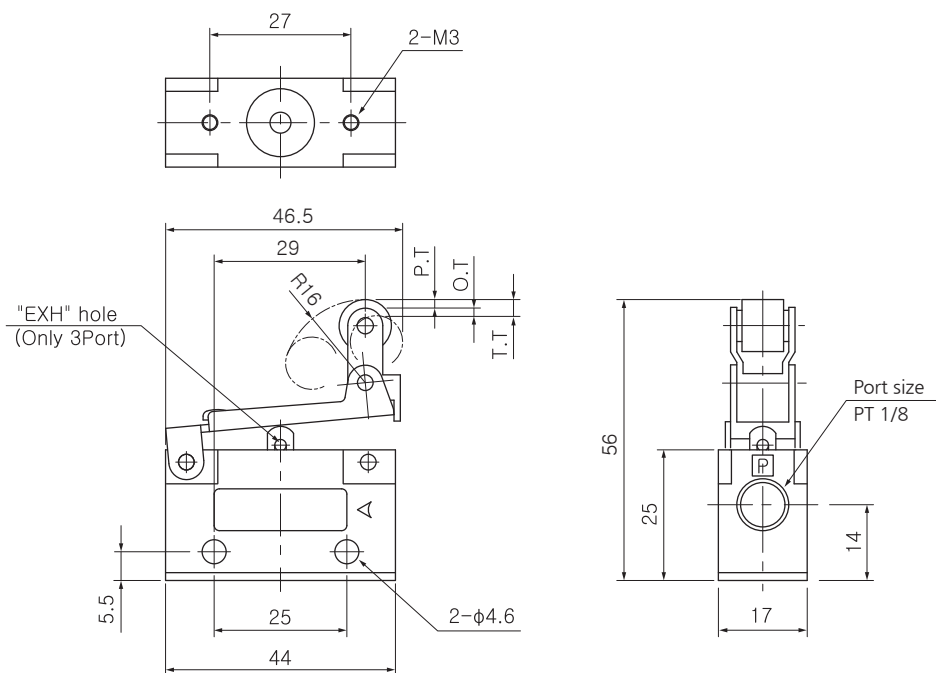
**SMV 121-01-01**  
**131-01-01**

P.T.	1.5
O.T.	4.0
T.T.	5.5



**SMV 121-01-02**  
**131-01-02**

P.T.	1.5
O.T.	4.0
T.T.	5.5



- SV1000
- SV3000
- SV5000
- SV6000
- SV231 ~232
- COIL CONNECTOR
- SMV100**
- SMV200
- SMVS200
- SMVF231 ~232
- SMVF250
- SMVF350
- SFVM
- SHV
- CAUTION

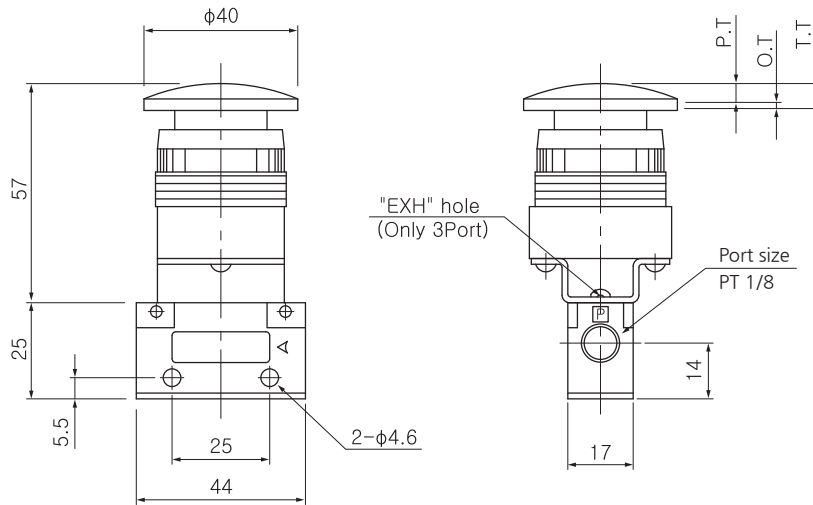


# Series SMV100

## DIMENSIONS (mm)

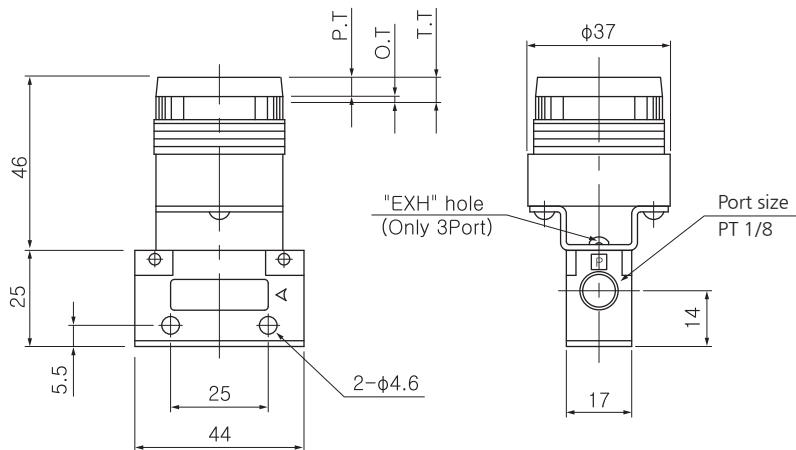
**SMV 120-01-30**  
**130-01-30**

P.T.	5.4
O.T.	1.6
T.T.	7.0



**SMV 120-01-32**  
**130-01-32**

P.T.	5.4
O.T.	1.6
T.T.	7.0



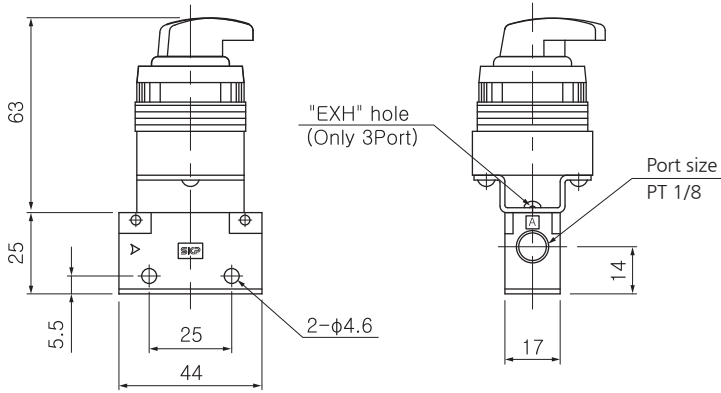
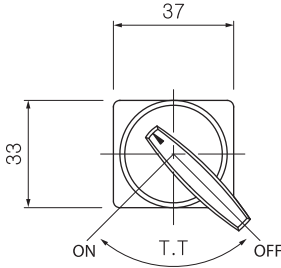
# Mechanical Valve

## DIMENSIONS (mm)

**SMV 120-01-34**

**130-01-34**

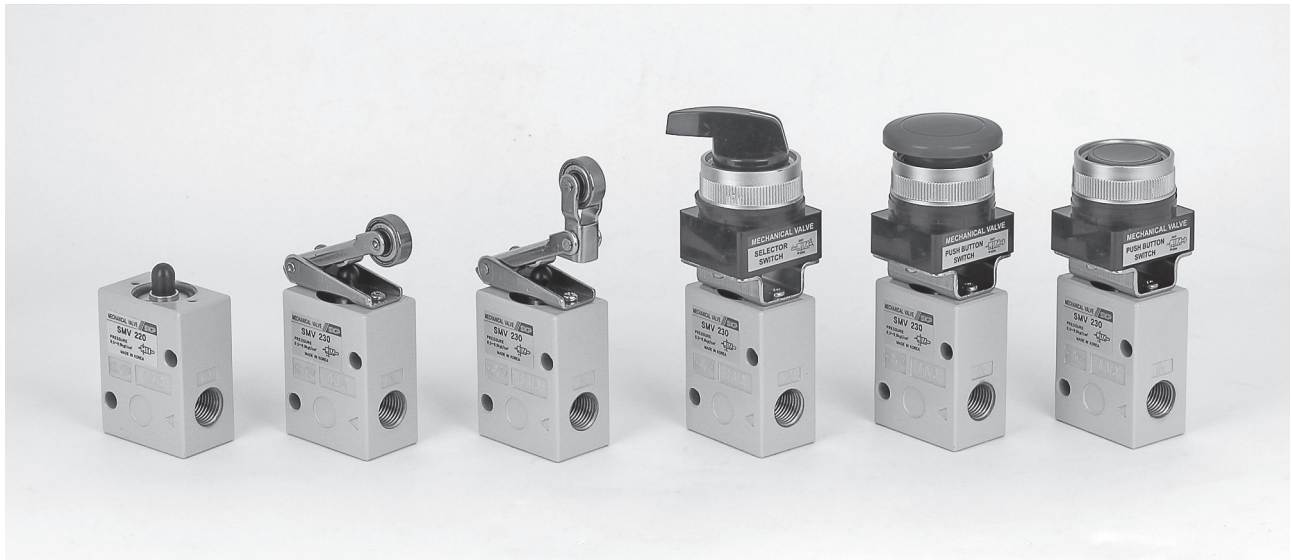
T.T.	90°
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SV1000
SV3000
SV5000
SV6000
SV231 ~232
COIL CONNECTOR
<b>SMV100</b>
SMV200
SMVS200
SMVF231 ~232
SMVF250
SMVF350
SFVM
SHV
CAUTION

# Mechanical Valve (SMV)

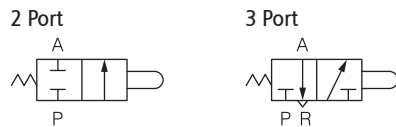
## SMV200 Series (Rc(PT) 1/4)



### 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
    - 015 - Roller lever(Bearing type)
    - 025 - One way roller lever(Bearing type)
    - 30 - Push button(Mushroom type)
    - 31 - Push button(ENG type)
    - 32 - Push button(Flat type)
    - 34 - Selector(2position)

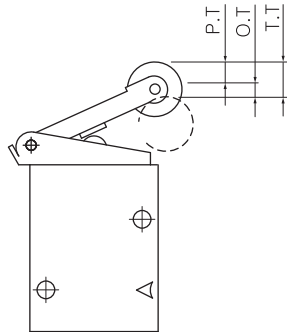
### Symbol



### Specification

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

### Operating point of Mechanical valve

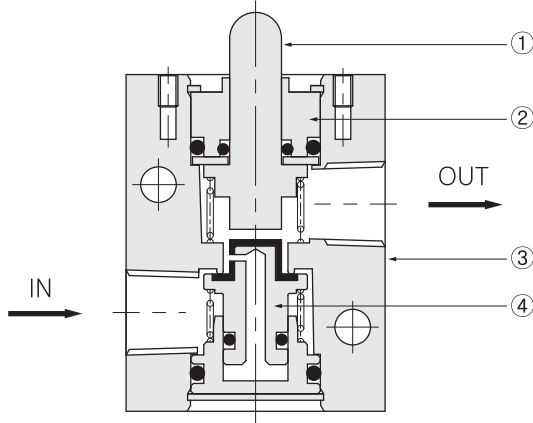


P.T.	From the free position to the operating position of actuator
O.T.	From the operating position to the operating limit of actuator
T.T.	From the free position to the operating limit of actuator

# Mechanical Valve

## STRUCTURE / PARTS

### SMV 200



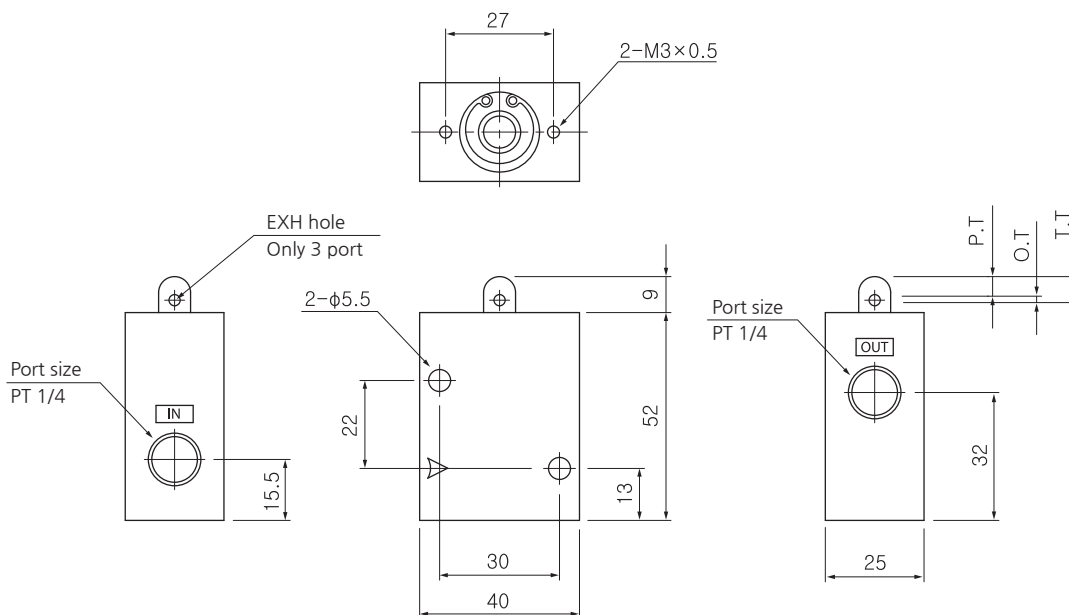
No.	PARTS	MATERIAL
①	Rod	A2011
②	Rod guide	Brass
③	Body	ALDC
④	Check valve	NBR

- SV1000
- SV3000
- SV5000
- SV6000
- SV231 ~232
- COIL CONNECTOR
- SMV100
- SMV200**
- SMVS200
- SMVF231 ~232
- SMVF250
- SMVF350
- SFVM
- SHV
- CAUTION

## DIMENSIONS (mm)

### SMV 220-02-00 230-02-00

P.T.	3
O.T.	2
T.T.	5

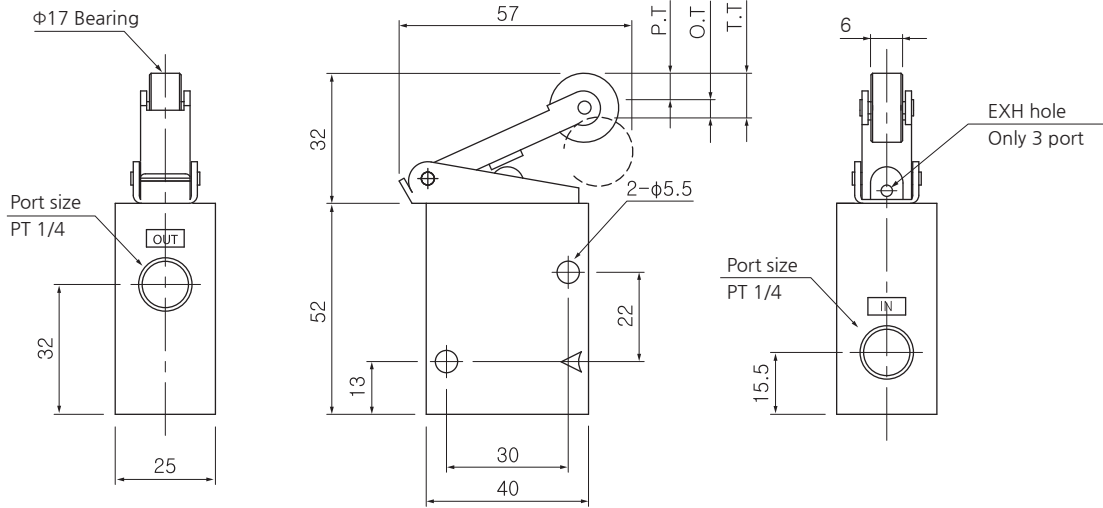


# Series SMV200

## DIMENSIONS (mm)

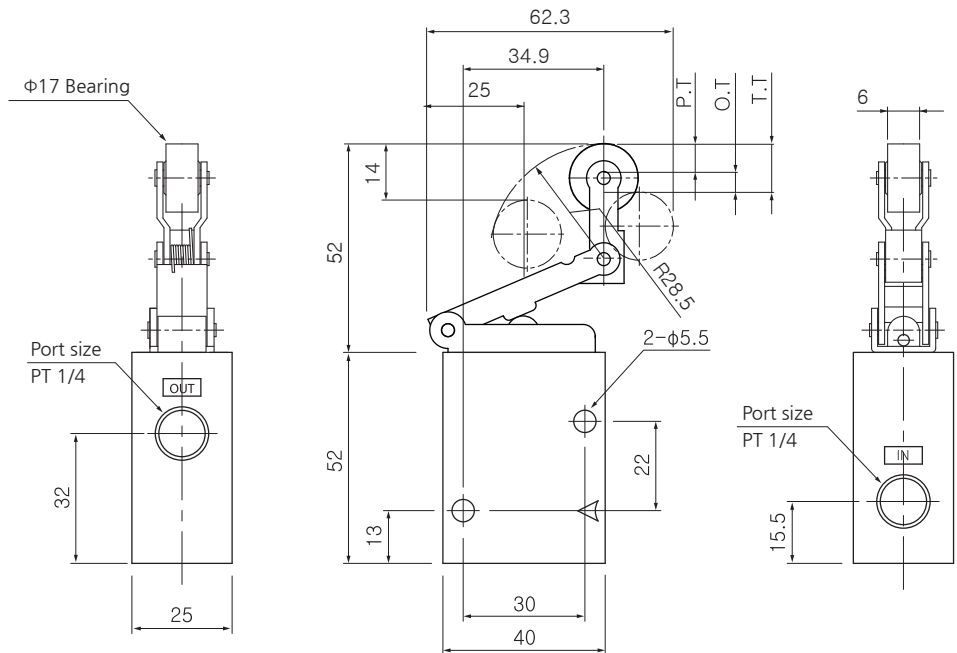
**SMV 220-02-01S**  
**230-02-01S**

P.T.	1.5
O.T.	4.0
T.T.	5.5



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

P.T.	1.5
O.T.	4.0
T.T.	5.5

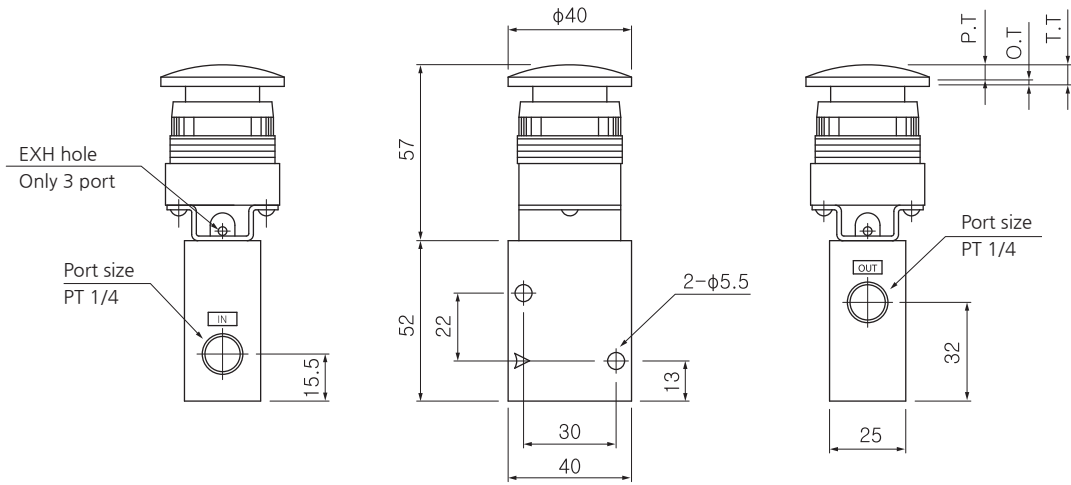


# Mechanical Valve

## DIMENSIONS (mm)

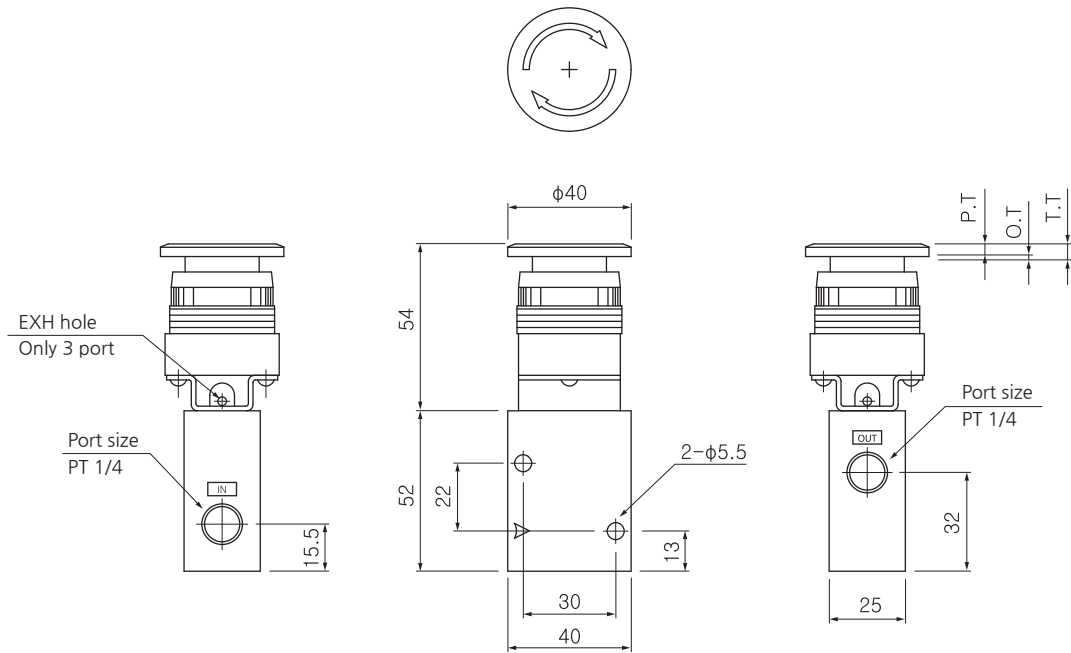
**SMV 220-02-30**  
**230-02-30**

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



**SMV 220-02-31**  
**230-02-31**

T.T.	4.3
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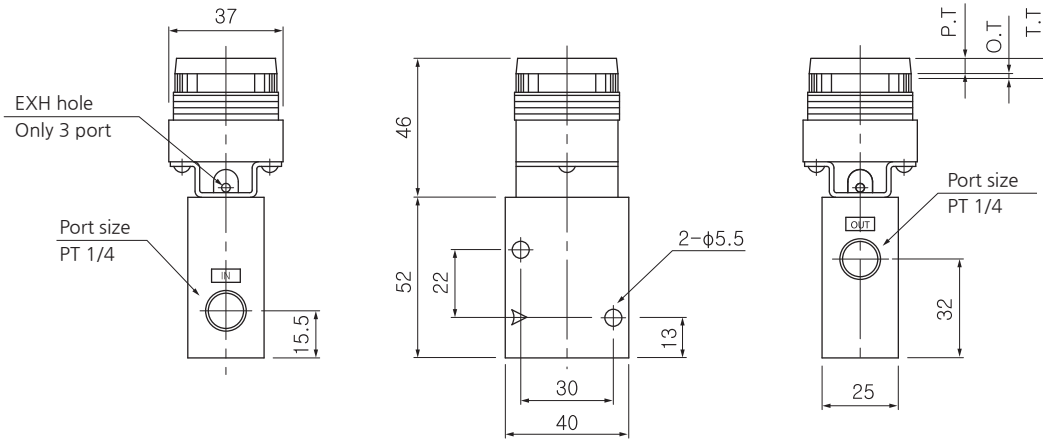
- SV1000
- SV3000
- SV5000
- SV6000
- SV231  
~232
- COIL  
CONNECTOR
- SMV100
- SMV200**
- SMVS200
- SMVF231  
~232
- SMVF250
- SMVF350
- SFVM
- SHV
- CAUTION

# Series SMV200

## DIMENSIONS (mm)

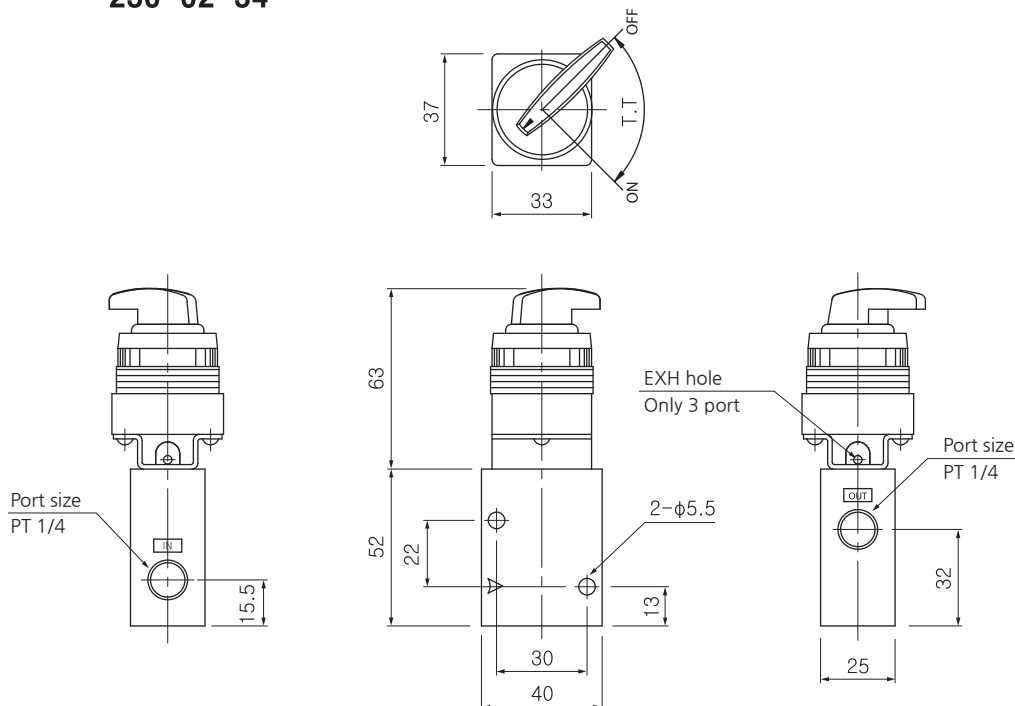
**SMV 220-02-32**  
**230-02-32**

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



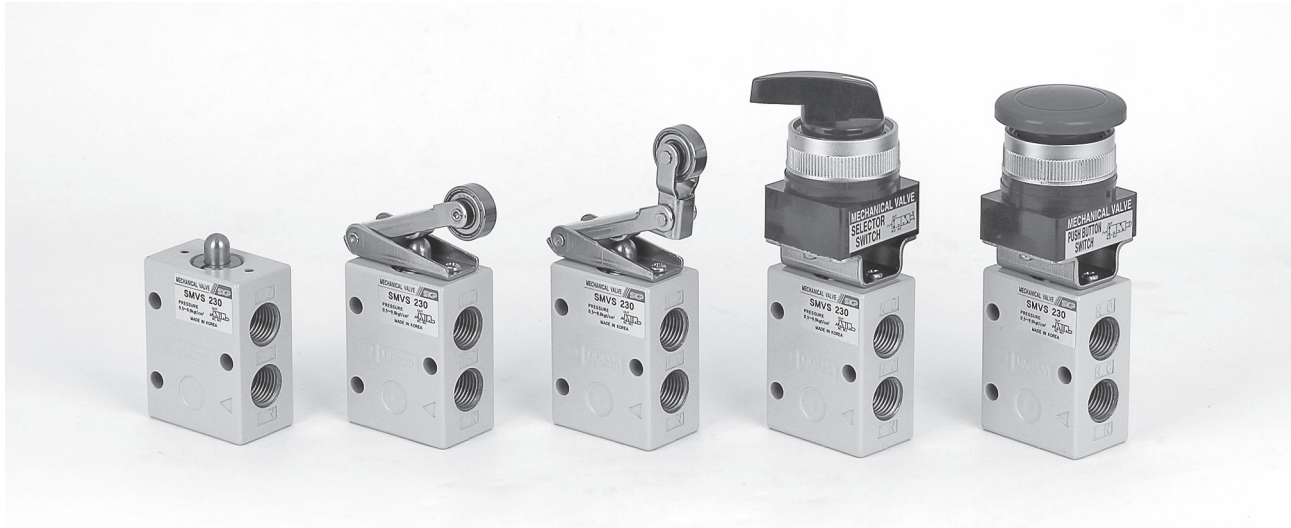
**SMV 220-02-34**  
**230-02-34**

T.T.	90°
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# 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

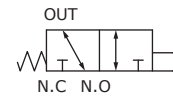
② Number of Port  
3 - 3 Port

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)

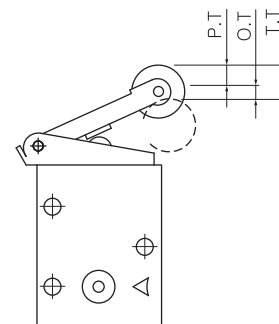
## Symbol



## 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

SV1000

SV3000

SV5000

SV6000

SV231  
~232

COIL  
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231  
~232

SMVF250

SMVF350

SFVM

SHV

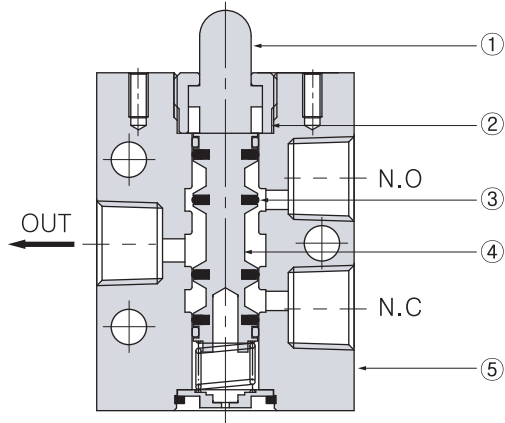
CAUTION



# Series SMVS200

## STRUCTURE / PARTS

### SMVS 230

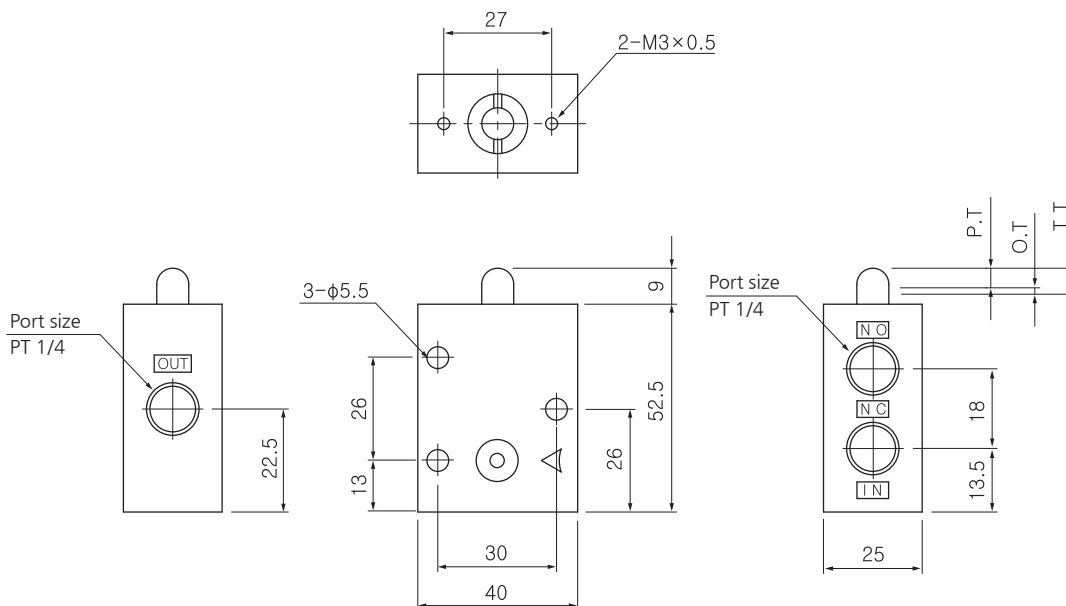


No.	PARTS	MATERIAL
①	Rod	SUS
②	Rod guide	Brass
③	I-ring	NBR
④	Spool	Al
⑤	Body	ALDC

## DIMENSIONS (mm)

### SMVS 230-02-00

P.T.	3
O.T.	2
T.T.	5

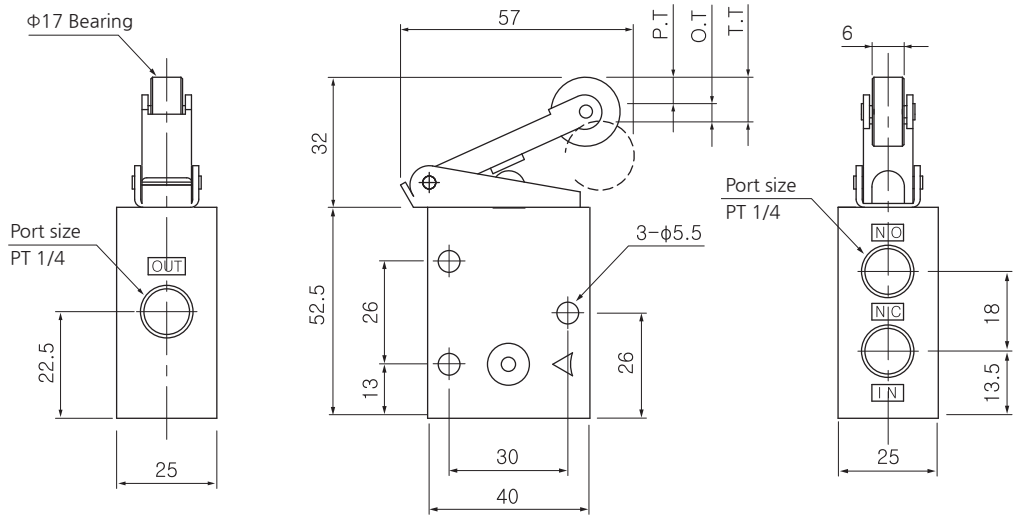


# Spool type Mechanical Valve

## DIMENSIONS (mm)

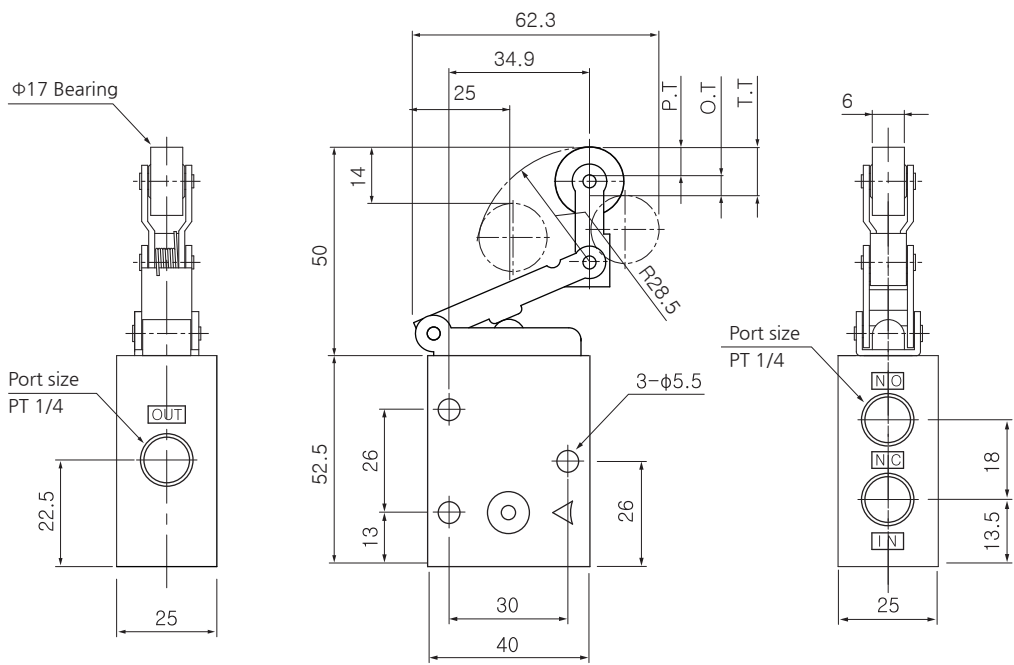
### SMVS 230-02-01S

P.T.	1.5
O.T.	4.0
T.T.	5.5



### SMVS 230-02-02S

P.T.	1.5
O.T.	4.0
T.T.	5.5



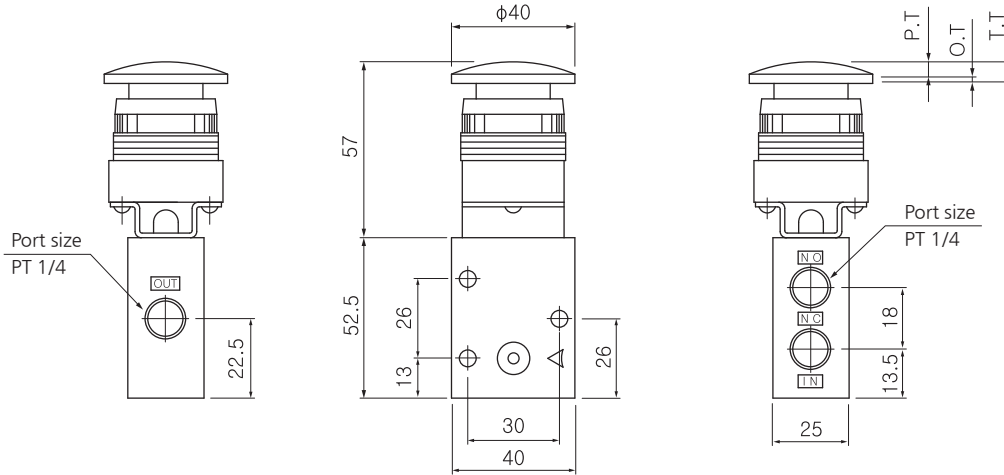
- SV1000
- SV3000
- SV5000
- SV6000
- SV231 ~232
- COIL CONNECTOR
- SMV100
- SMV200
- SMVS200**
- SMVF231 ~232
- SMVF250
- SMVF350
- SFVM
- SHV
- CAUTION

# Series SMVS200

## DIMENSIONS (mm)

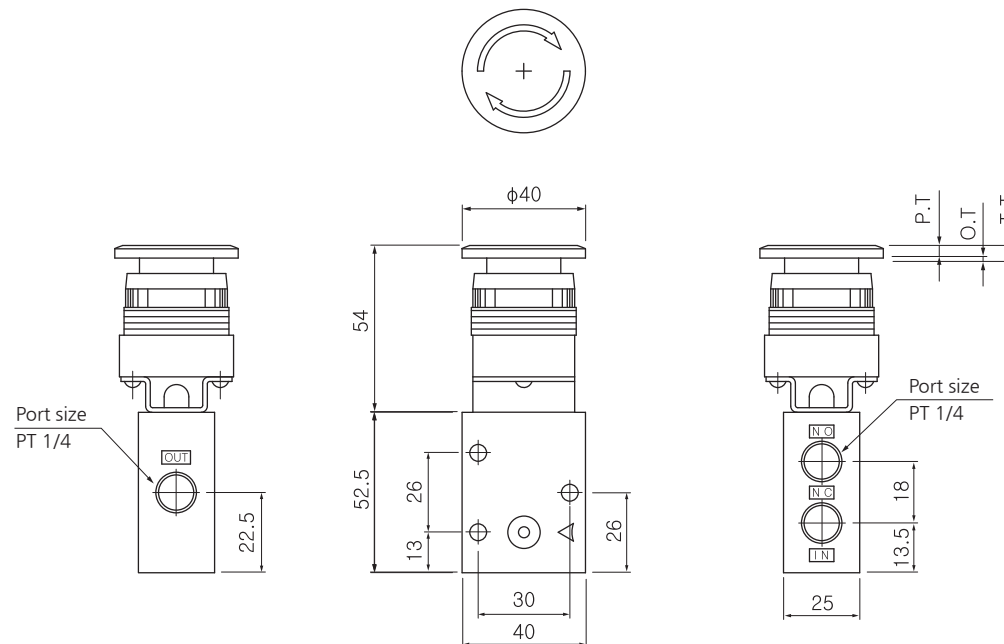
**SMVS 230-02-30**

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



**SMVS 230-02-31**

T.T.	4.3
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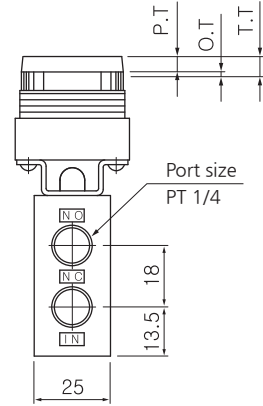
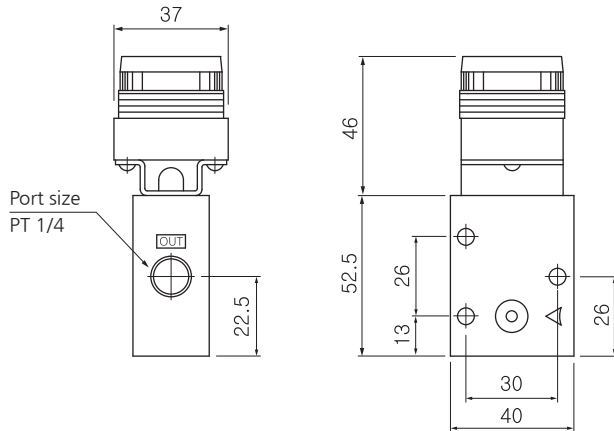


# Spool type Mechanical Valve

## DIMENSIONS (mm)

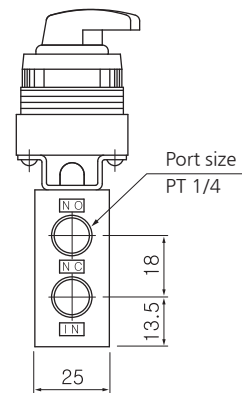
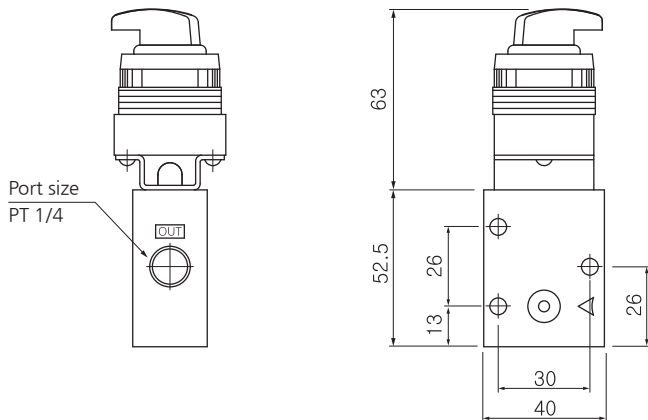
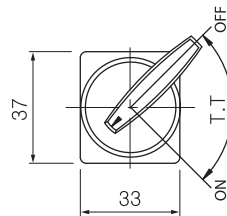
### SMVS 230-02-32

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



### SMVS 230-02-34

T.T.	90°
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- SV1000
- SV3000
- SV5000
- SV6000
- SV231 ~232
- COIL CONNECTOR
- SMV100
- SMV200
- SMVS200**
- SMVF231 ~232
- SMVF250
- SMVF350
- SFVM
- SHV
- CAUTION

# 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 - Normal Close(N.C.)  
2 - Normal 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)

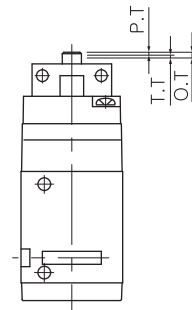
## Symbol



## 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 <sup>2</sup> (1.0)
Lubrication	Not required
Port size	1/4

## Operating point of Mechanical valve



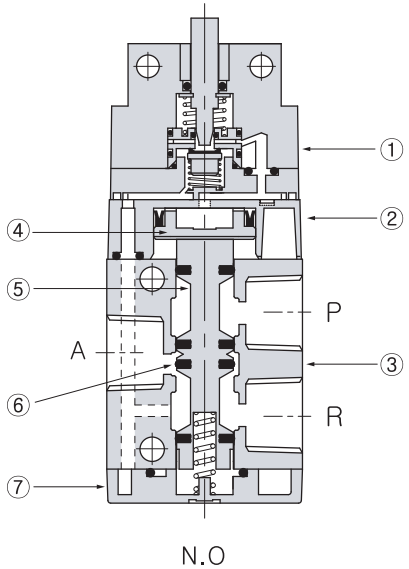
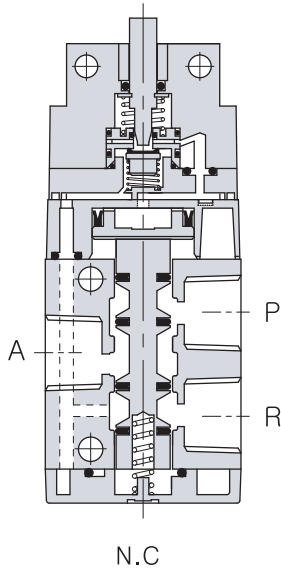
P.T.	From the free position to the operating position of actuator
O.T.	From the operating position to the operating limit of actuator
T.T.	From the free position to the operating limit of actuator

# Pilot type Mechanical Valve

## 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

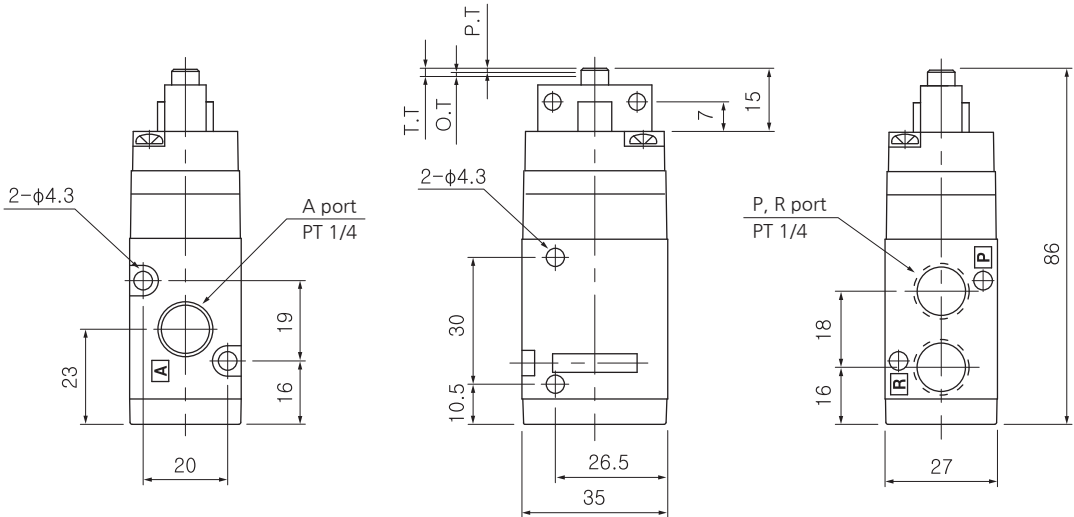
- SV1000
- SV3000
- SV5000
- SV6000
- SV231 ~232
- COIL CONNECTOR
- SMV100
- SMV200
- SMVS200
- SMVF231 ~232**
- SMVF250
- SMVF350
- SFVM
- SHV
- CAUTION

## DIMENSIONS (mm)

**SMVF 231-02-00**

**232-02-00**

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

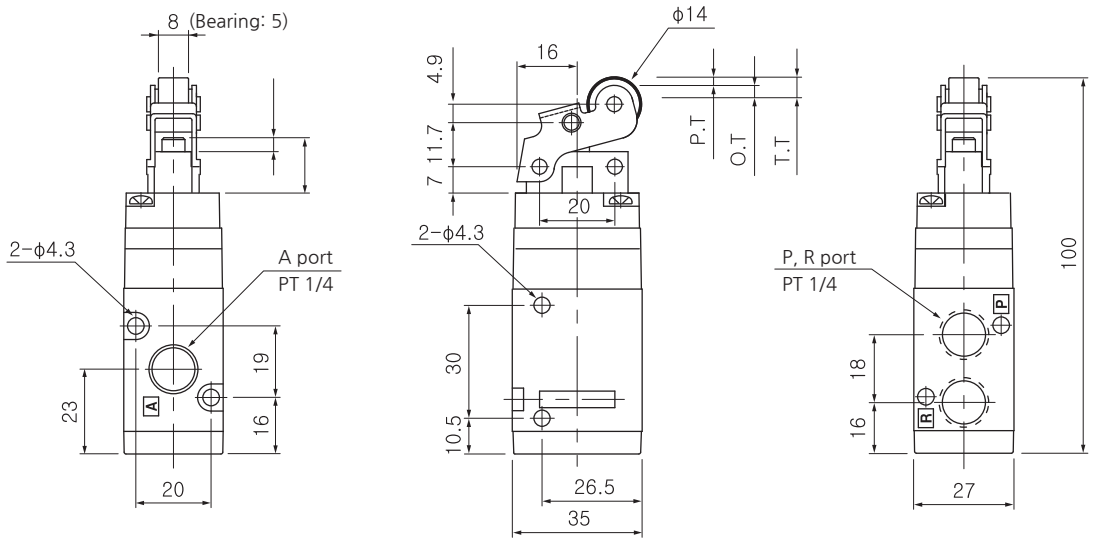


# Series SMF231~232

## DIMENSIONS (mm)

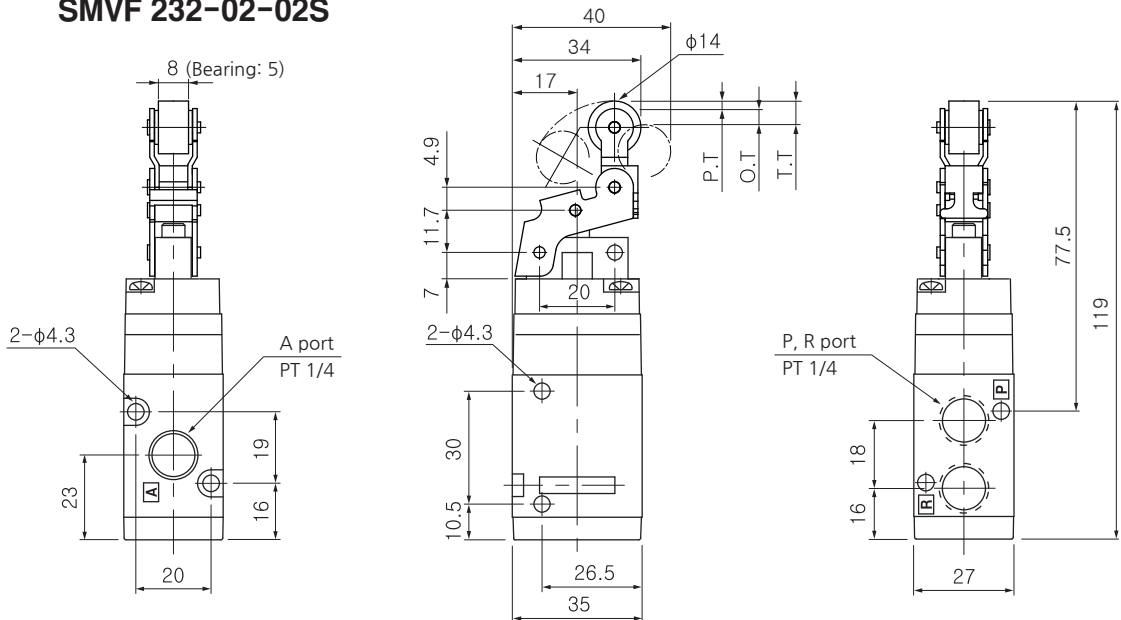
- SMVF 231-02-01**
- 232-02-01**
- 231-02-01S**
- 232-02-01S**

P.T.	2
O.T.	4
T.T.	6



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

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



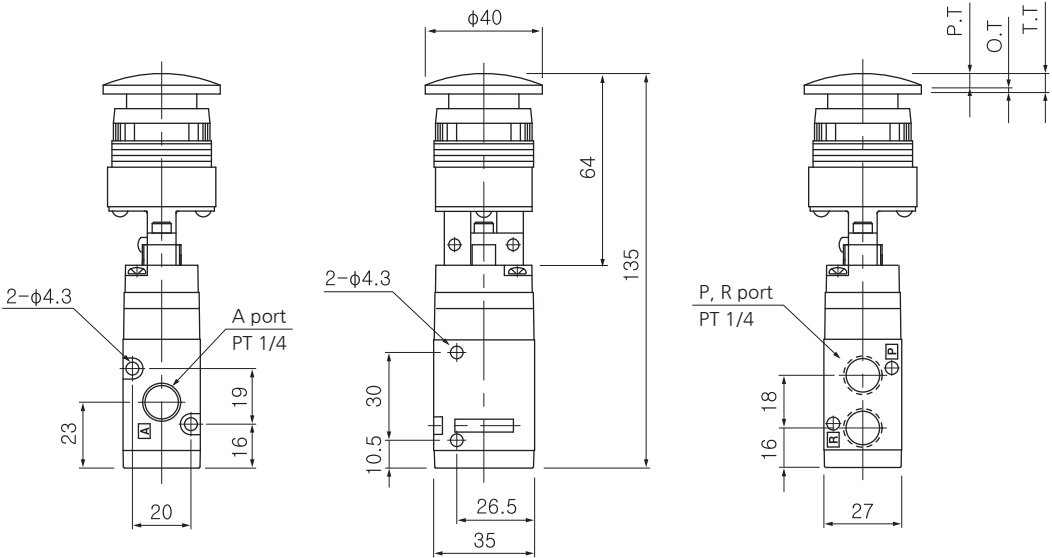
# Pilot type Mechanical Valve

## DIMENSIONS (mm)

**SMVF 231-02-30**

**232-02-30**

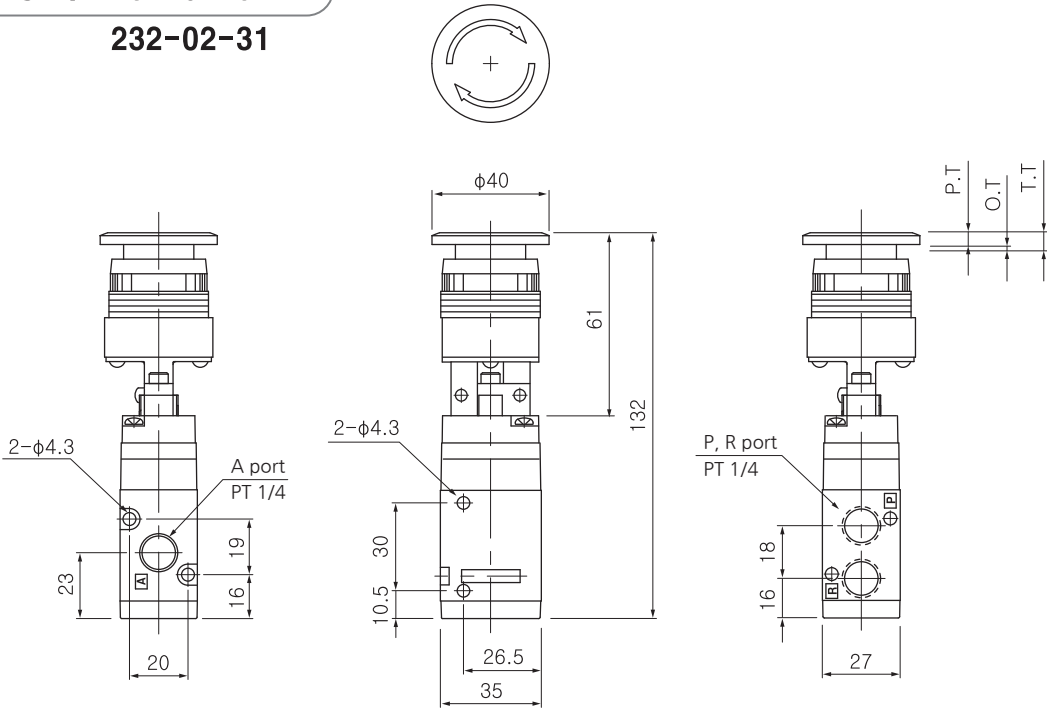
P.T.	6
O.T.	2
T.T.	8



**SMVF 231-02-31**

**232-02-31**

T.T.	8
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- SV1000
- SV3000
- SV5000
- SV6000
- SV231 ~232
- COIL CONNECTOR
- SMV100
- SMV200
- SMVS200
- SMVF231 ~232**
- SMVF250
- SMVF350
- SFVM
- SHV
- CAUTION

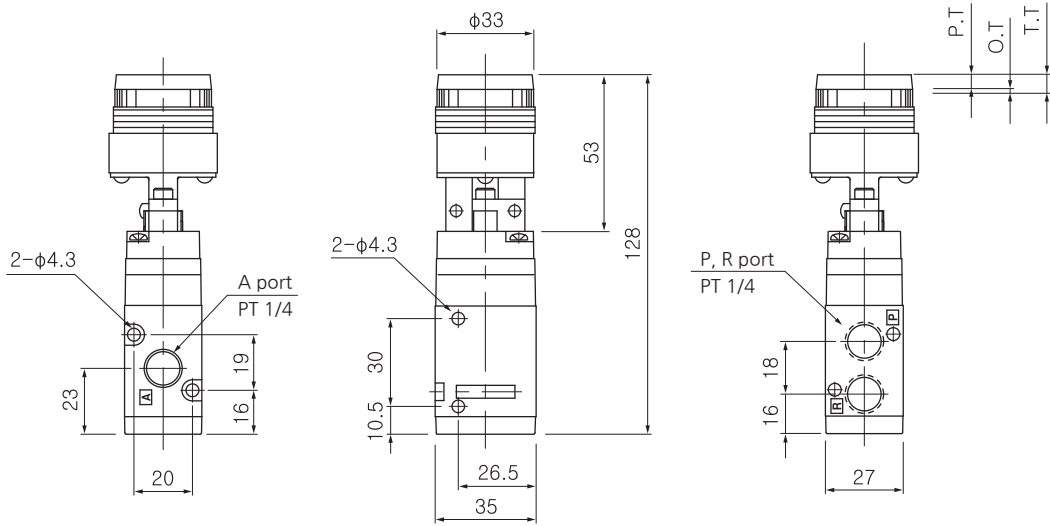


# Series SMVF231~232

## DIMENSIONS (mm)

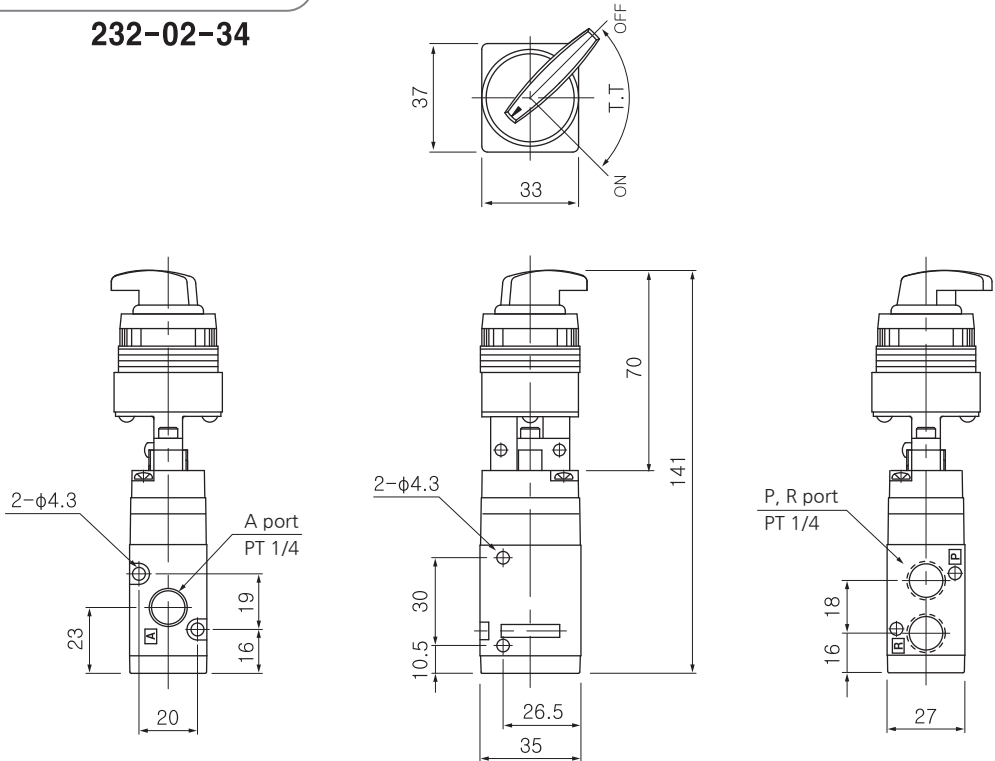
**SMVF 231-02-32**  
**232-02-32**

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)

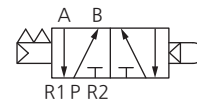


- SV1000
- SV3000
- SV5000
- SV6000
- SV231 ~232
- COIL CONNECTOR
- SMV100
- SMV200
- SMVS200
- SMVF231 ~232
- SMVF250**
- SMVF350
- SFVM
- SHV
- CAUTION

## 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)

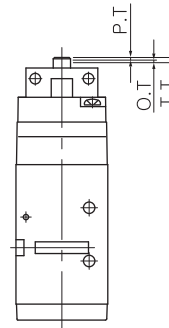
## Symbol



## 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 <sup>2</sup> (1.0)
Lubrication	Not required
Port size	1/4

## Operating point of Mechanical valve

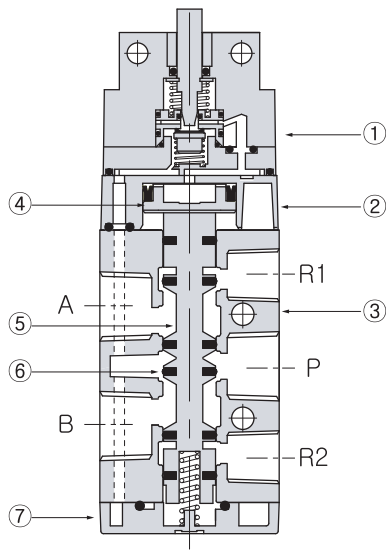


P.T.	From the free position to the operating position of actuator
O.T.	From the operating position to the operating limit of actuator
T.T.	From the free position to the operating limit of actuator

# Series SMVF250

## STRUCTURE / PARTS

### SMVF 250

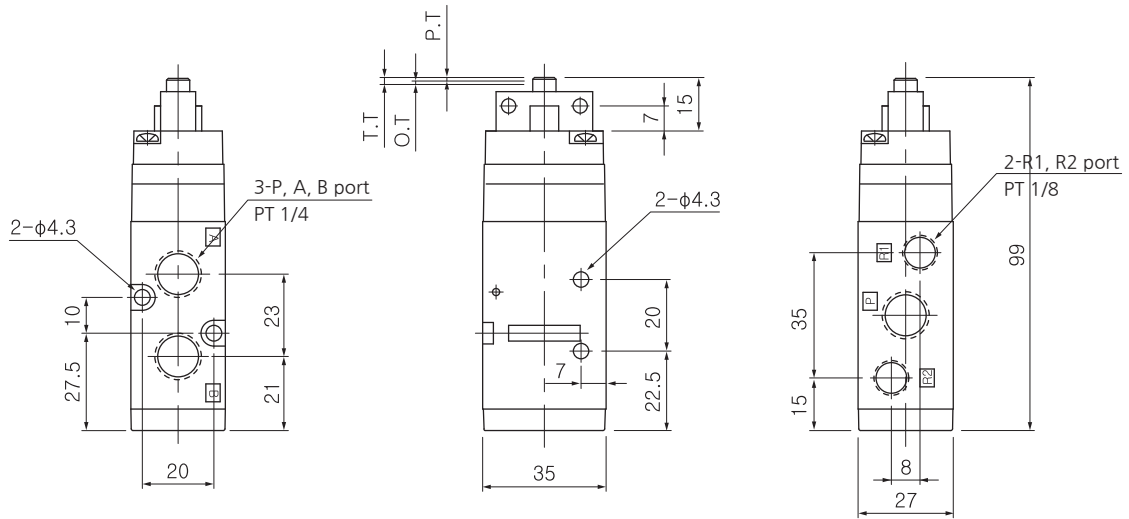


No.	PARTS	MATERIAL
①	Pilot guide	ZnDC
②	Pilot cylinder	N66G
③	Body	ALDC
④	Piston	POM
⑤	Spool	A2011
⑥	I-ring	NBR
⑦	Cover	ALDC

## DIMENSIONS (mm)

### SMVF 250-02-00

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



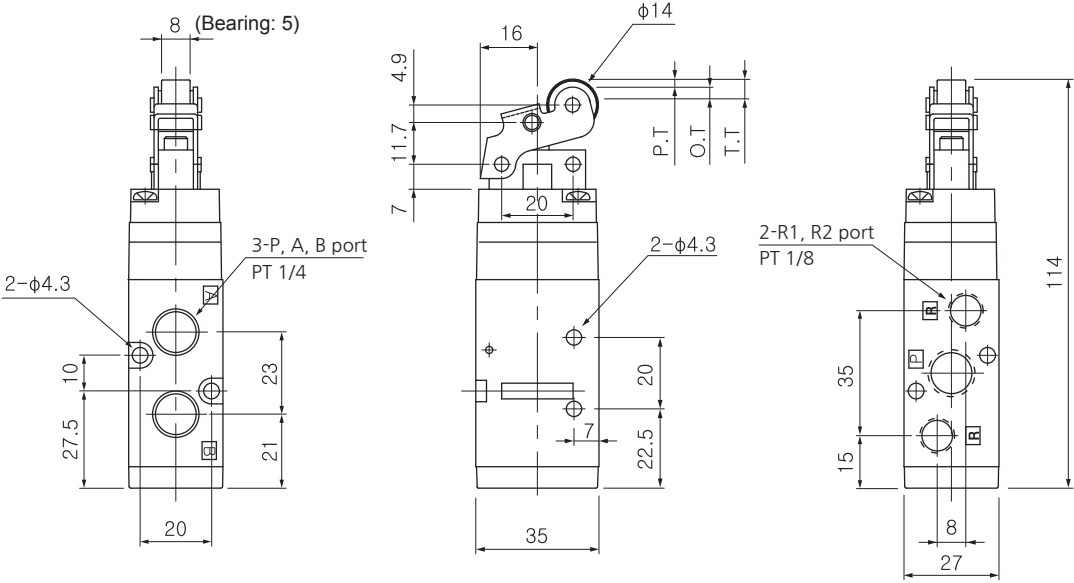
# Pilot type Mechanical Valve

## DIMENSIONS (mm)

**SMVF 250-02-01**

**SMVF 250-02-01S**

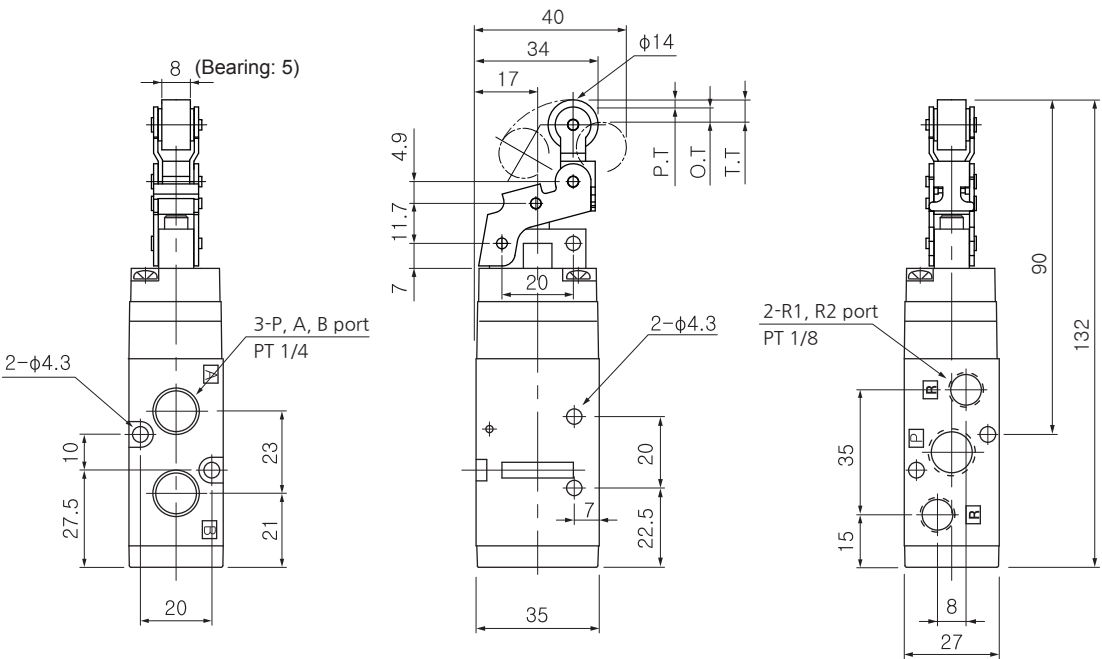
P.T.	2
O.T.	4
T.T.	6



**SMVF 250-02-02**

**SMVF 250-02-02S**

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



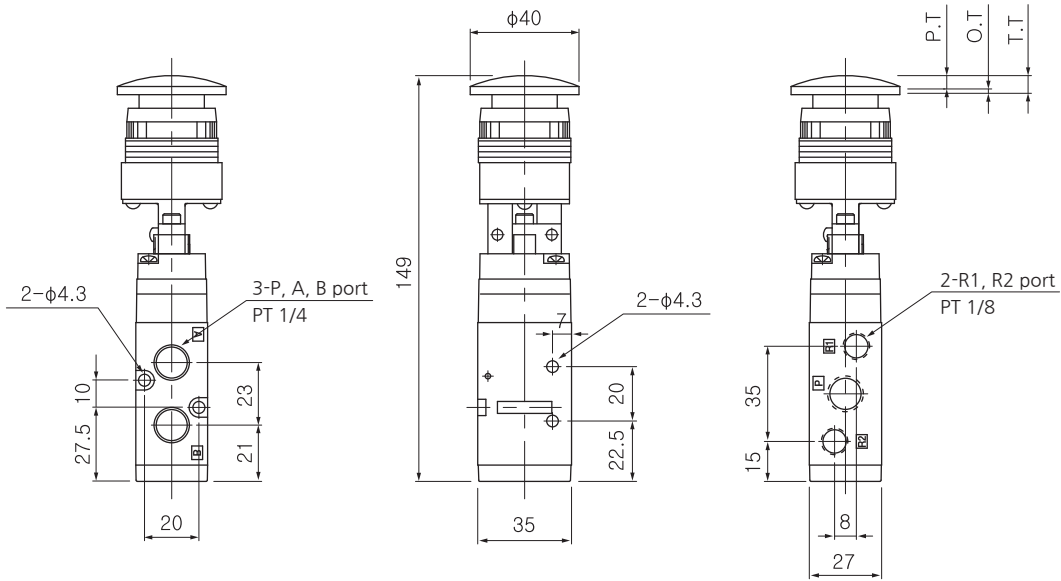
- SV1000
- SV3000
- SV5000
- SV6000
- SV231 ~232
- COIL CONNECTOR
- SMV100
- SMV200
- SMVS200
- SMVF231 ~232
- SMVF250**
- SMVF350
- SFVM
- SHV
- CAUTION

# Series SMVF250

## DIMENSIONS (mm)

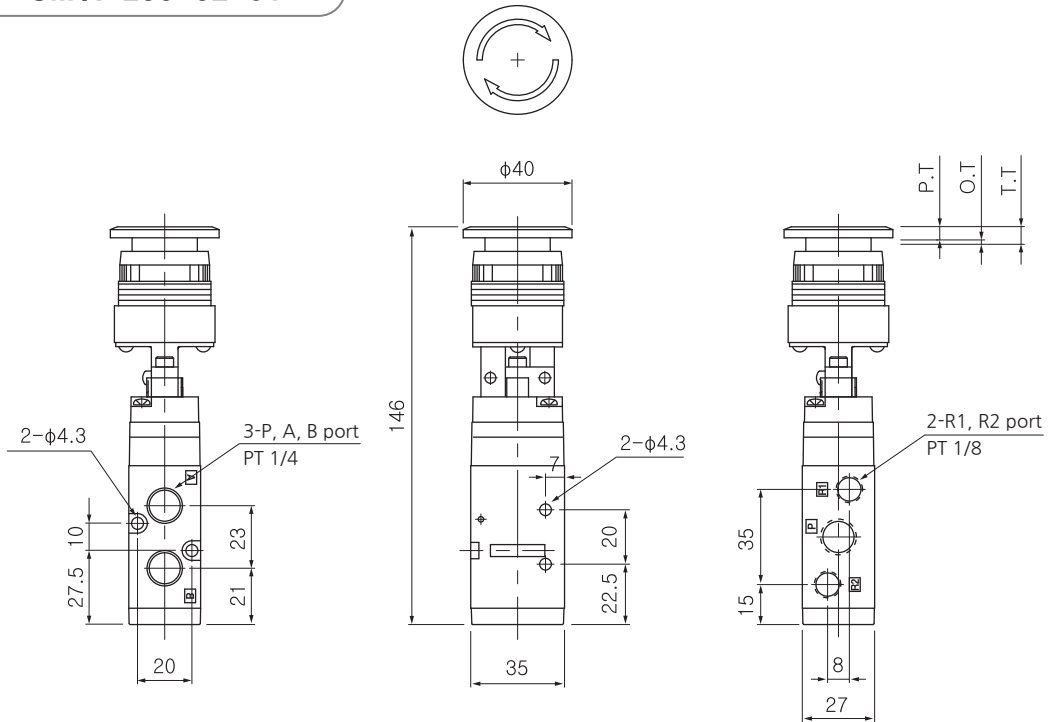
### SMVF 250-02-30

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



### SMVF 250-02-31

T.T.	8
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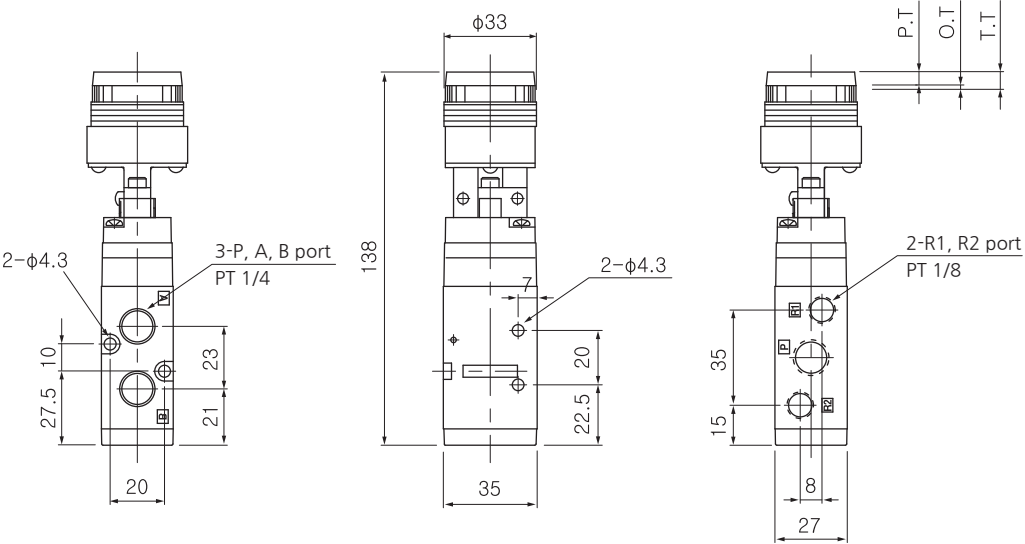


# Pilot type Mechanical Valve

## DIMENSIONS (mm)

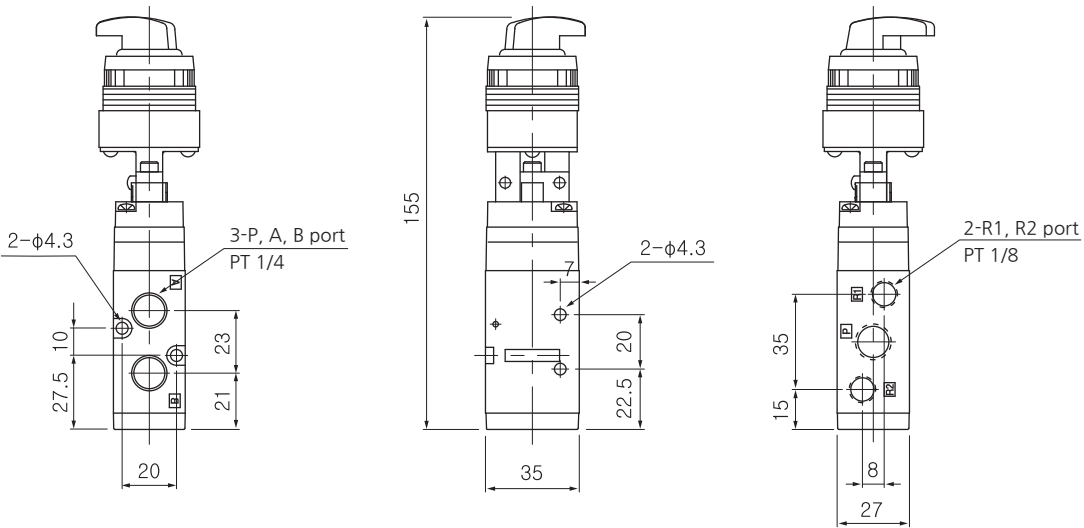
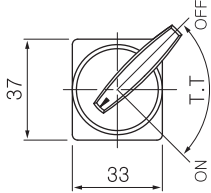
### SMVF 250-02-32

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



### SMVF 250-02-34

T.T.	90°
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- SV1000
- SV3000
- SV5000
- SV6000
- SV231 ~232
- COIL CONNECTOR
- SMV100
- SMV200
- SMVS200
- SMVF231 ~232
- SMVF250**
- SMVF350
- SFVM
- SHV
- CAUTION

# 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

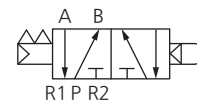
③ Thread type  
Nil - Rc(PT)  
N - NPT  
G - G(PF)

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)

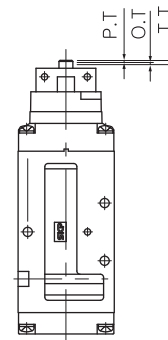
## Symbol



## 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 <sup>2</sup> (2.4)
Lubrication	Not required
Port size	3/8

## Operating point of Mechanical valve

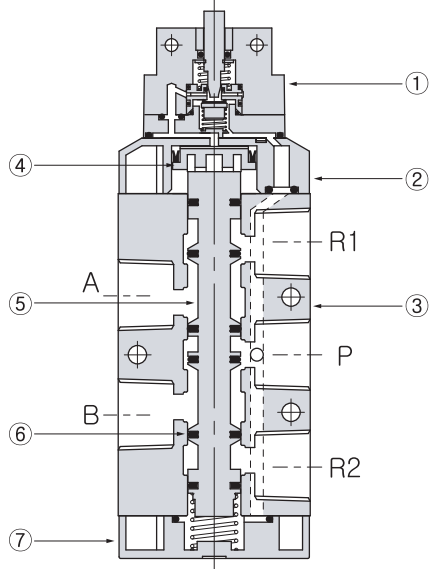


P.T.	From the free position to the operating position of actuator
O.T.	From the operating position to the operating limit of actuator
T.T.	From the free position to the operating limit of actuator

# Pilot type Mechanical Valve

## STRUCTURE / PARTS

### SMVF 350

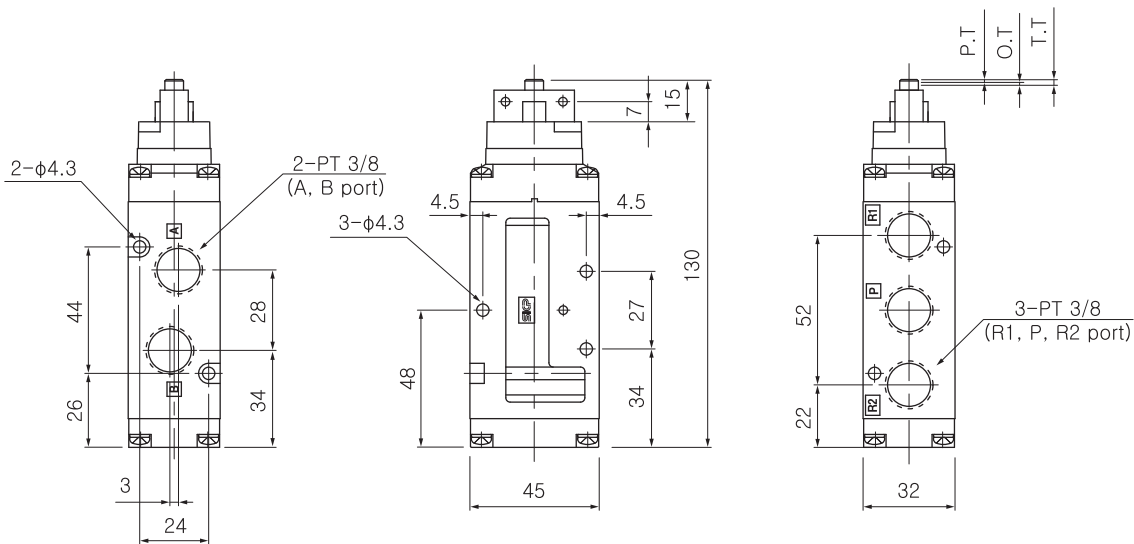


No.	PARTS	MATERIAL
①	Pilot guide	ZnDC
②	Pilot cylinder	N66G
③	Body	ALDC
④	Piston	POM
⑤	Spool	A2011
⑥	I-ring	NBR
⑦	Cover	ALDC

## DIMENSIONS (mm)

### SMVF 350-03-00

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



SV1000

SV3000

SV5000

SV6000

SV231  
~232

COIL  
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231  
~232

SMVF250

**SMVF350**

SFVM

SHV

CAUTION

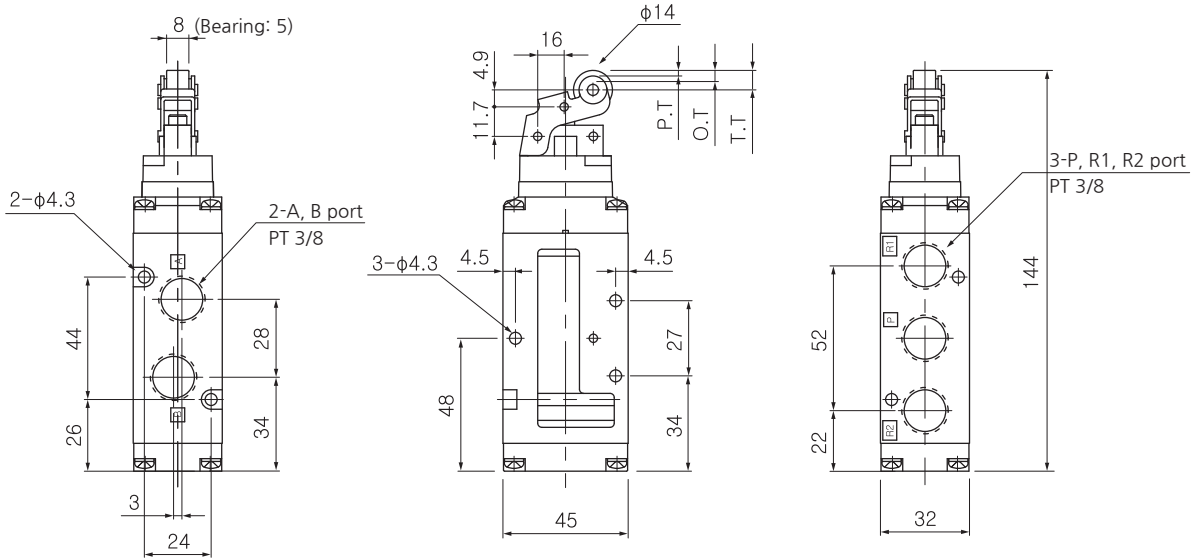


# Series SMVF350

## DIMENSIONS (mm)

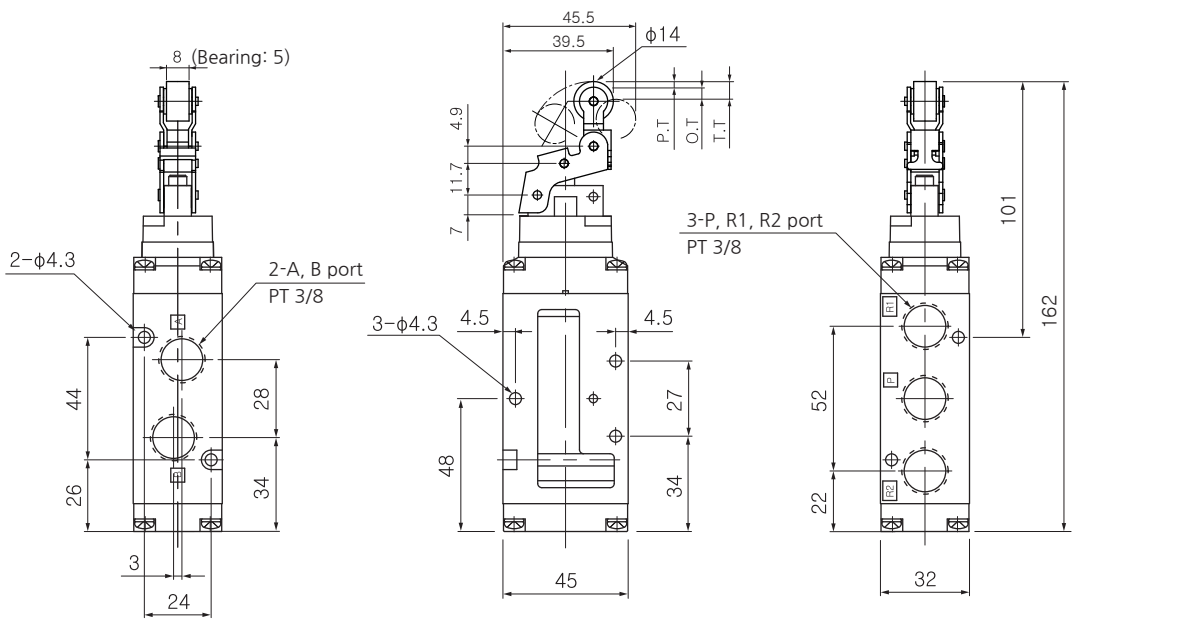
**SMVF 350-03-01**  
**SMVF 350-03-01S**

P.T.	2
O.T.	4
T.T.	6



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

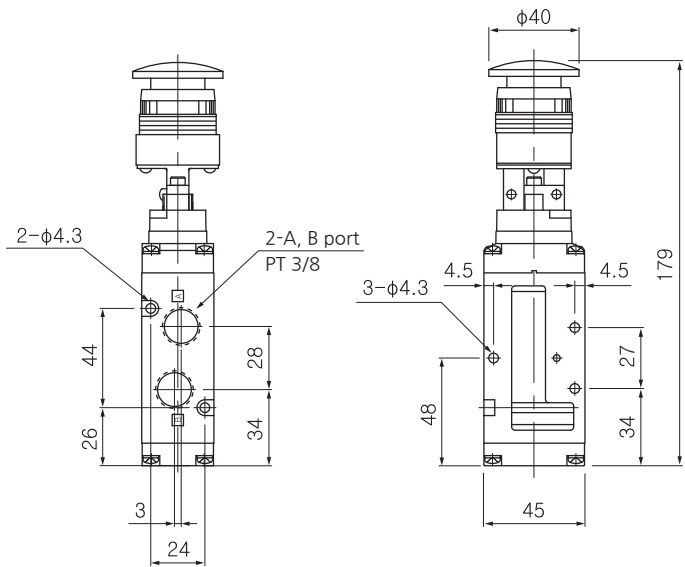
P.T.	2.2
O.T.	4
T.T.	6.2



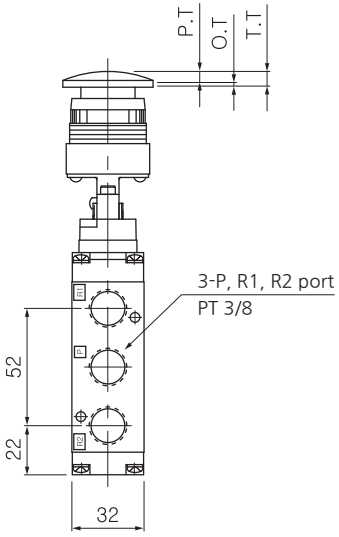
# Pilot type Mechanical Valve

## DIMENSIONS (mm)

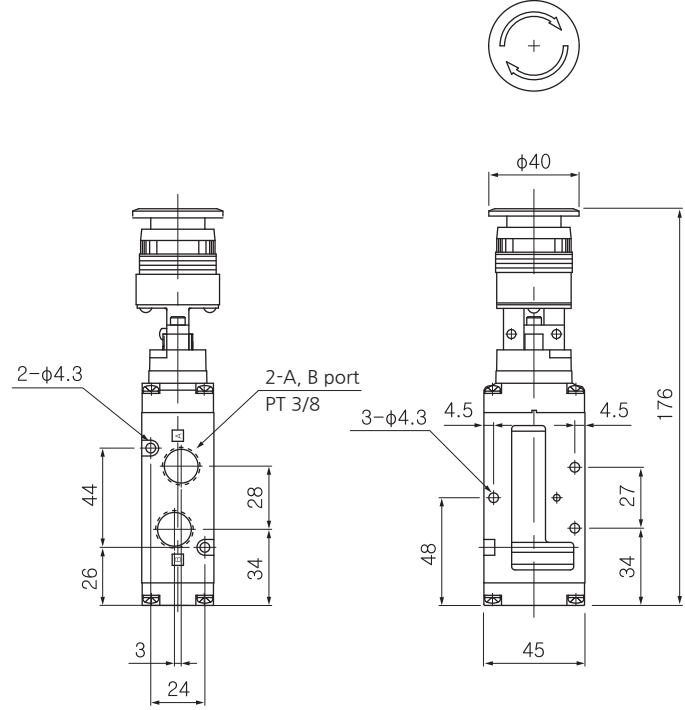
**SMVF 350-03-30**



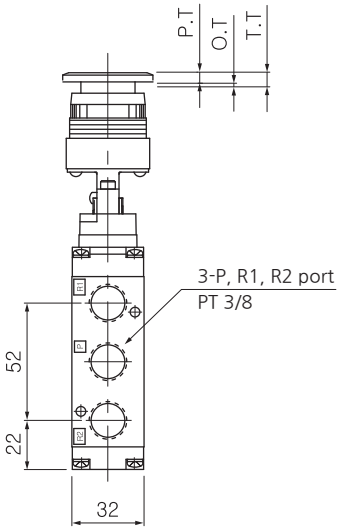
P.T.	6
O.T.	2
T.T.	8



**SMVF 350-03-31**



T.T.	8
------	---



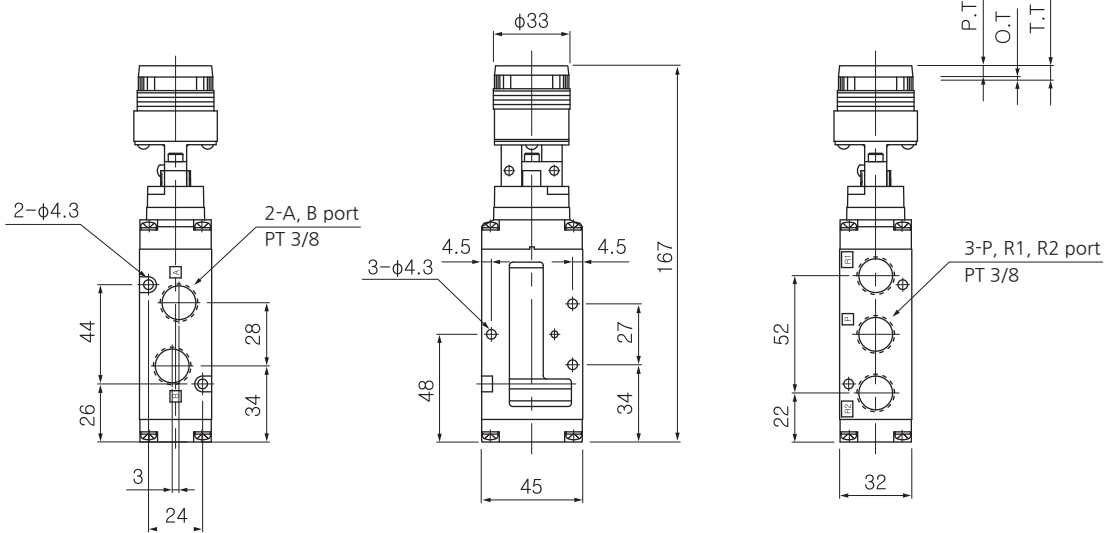
- SV1000
- SV3000
- SV5000
- SV6000
- SV231 ~232
- COIL CONNECTOR
- SMV100
- SMV200
- SMVS200
- SMVF231 ~232
- SMVF250
- SMVF350**
- SFVM
- SHV
- CAUTION

# Series SMVF350

## DIMENSIONS (mm)

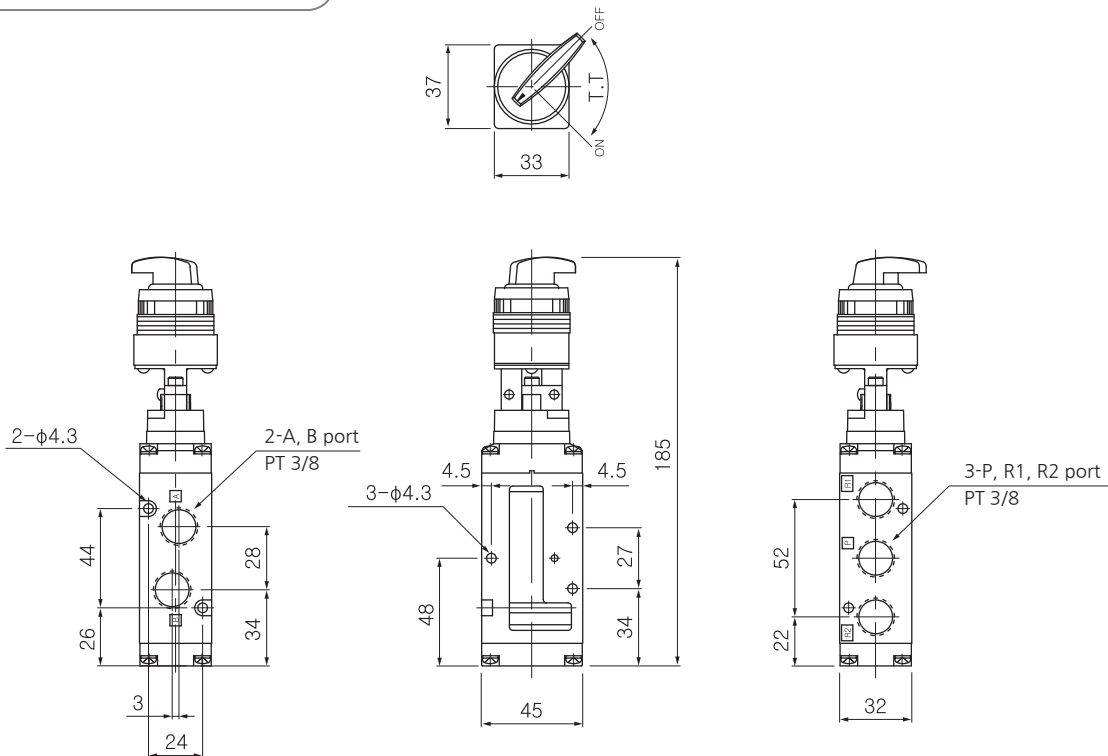
### SMVF 350-03-32

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



### SMVF 350-03-34

T.T.	90°
------	-----



# Foot Valve (SFVM)

## SFVM220~230 Series



SFVM 230

SV1000

SV3000

SV5000

SV6000

SV231  
~232

COIL  
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231  
~232

SMVF250

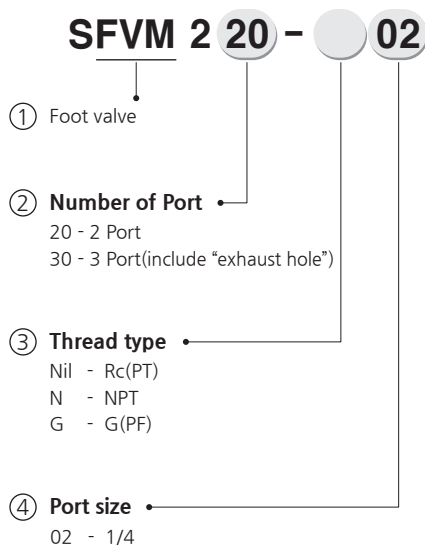
SMVF350

**SFVM**

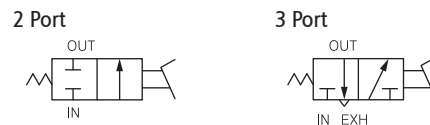
SHV

CAUTION

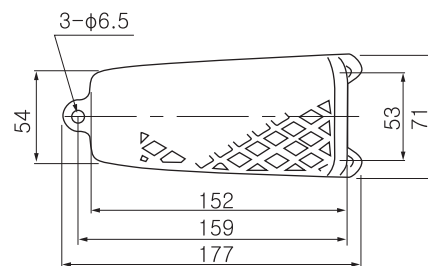
### How to order



### Symbol

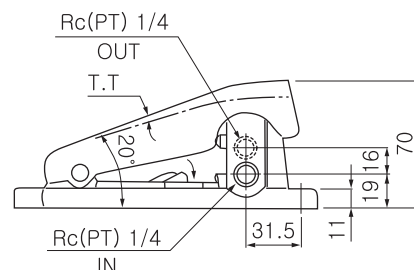


### Dimensions (mm)



### Specification

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



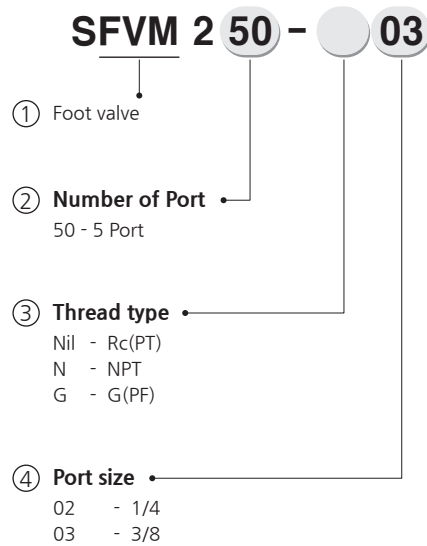
# Pilot type Foot Valve (SFVM)

## SFVM250 Series

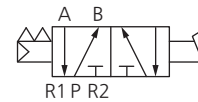


SFVM 250

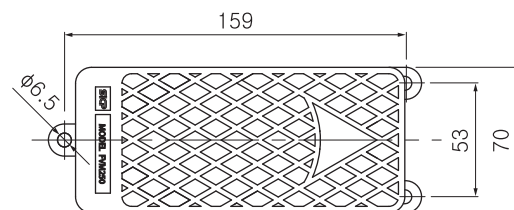
### How to order



### Symbol

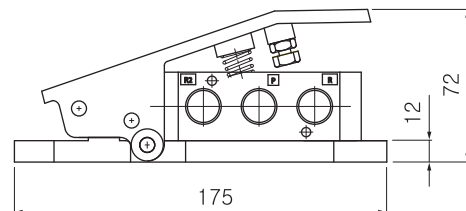


### Dimensions (mm)



### 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 <sup>2</sup> (1.0)	45mm <sup>2</sup> (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
 

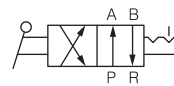
Mark	Piping	Mounting
0	Side	Body
1	Side	Panel
- ④ Number of Positions  
0 - 3 position (Closed Center)  
2 - 2 position
 

2 position

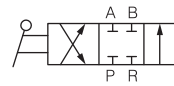
3 position
- ⑤ Thread type  
Nil - Rc(PT)  
N - NPT  
G - G(PF)
- ⑥ Port size

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°C(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.

SV1000

SV3000

SV5000

SV6000

SV231  
~232

COIL  
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231  
~232

SMVF250

SMVF350

SFVM

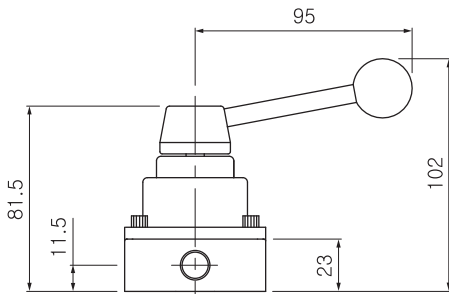
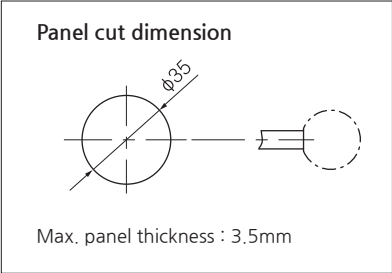
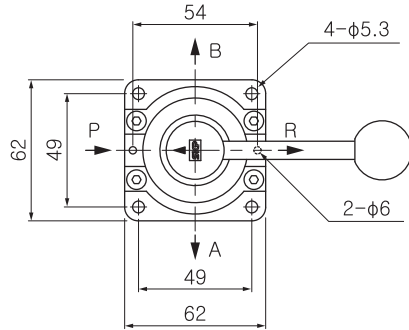
SHV

CAUTION

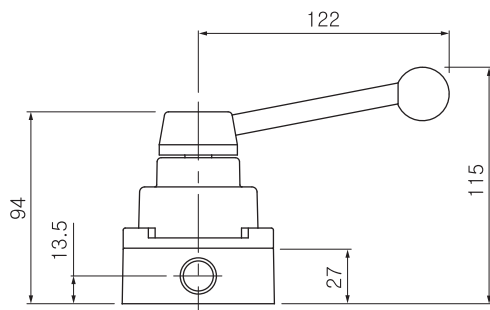
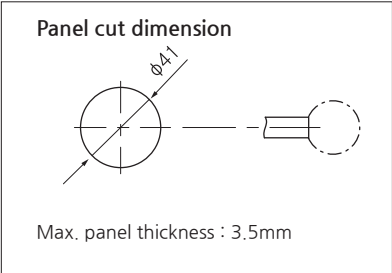
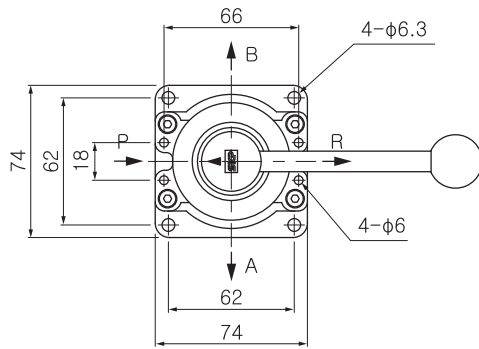
# Series SHV200~400

## DIMENSIONS (mm)

### SHV 200

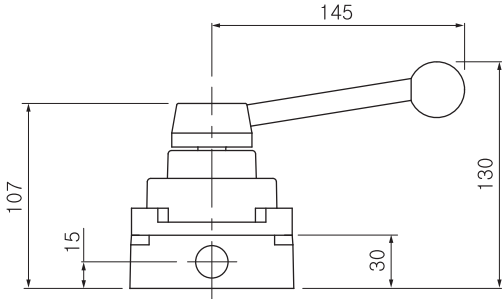
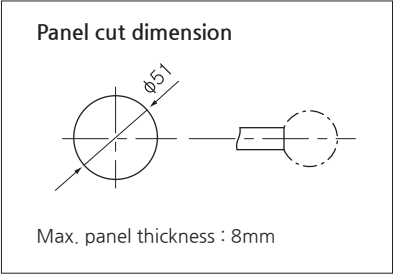
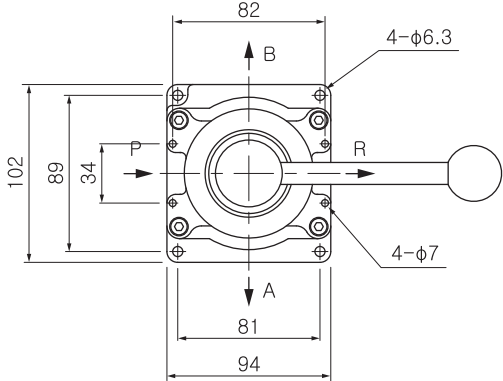


### SHV 300

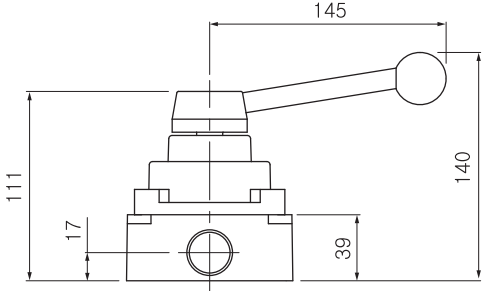
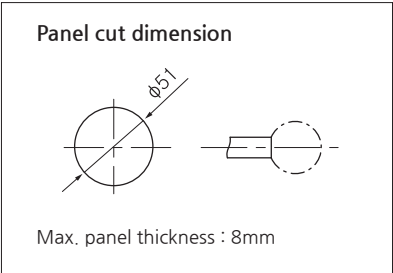
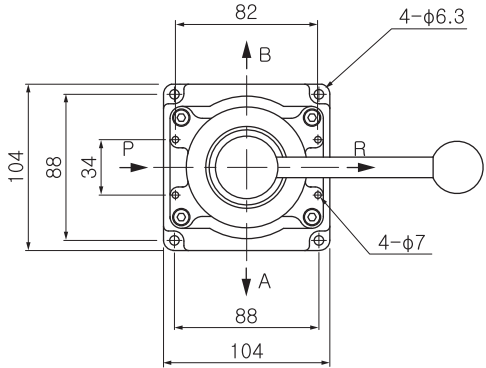


**DIMENSIONS (mm)**

**SHV 400-04**



**SHV 400-06**



- SV1000
- SV3000
- SV5000
- SV6000
- SV231 ~232
- COIL CONNECTOR
- SMV100
- SMV200
- SMVS200
- SMVF231 ~232
- SMVF250
- SMVF350
- SFVM
- SHV**
- CAUTION



# Directional 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)<sup>1)</sup>, KS<sup>2)</sup> and other safety regulations.

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

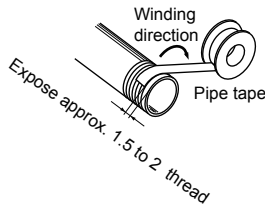
## Mounting

### ⚠ 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.

SV1000

SV3000

SV5000

SV6000

SV231  
~232

COIL  
CONNECTOR

SMV100

SMV200

SMVS200

SMVF231  
~232

SMVF250

SMVF350

SFVM

SHV

CAUTION

## 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



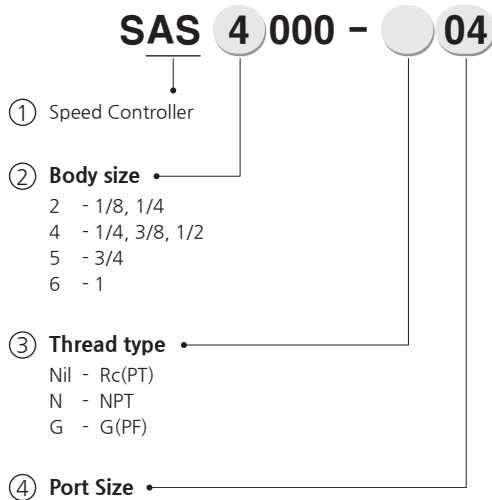
■ <b>SAS</b> (Speed Controller) .....	228
■ <b>SQE</b> (Quick Exhaust Valve) .....	232
■ <b>SJ</b> (Floating Joint) .....	234
■ <b>SRJ</b> (Rotary Joint) .....	236

# Speed Controller (SAS)

## SAS2000~6000 Series

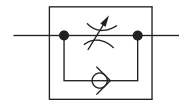


### How to order



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

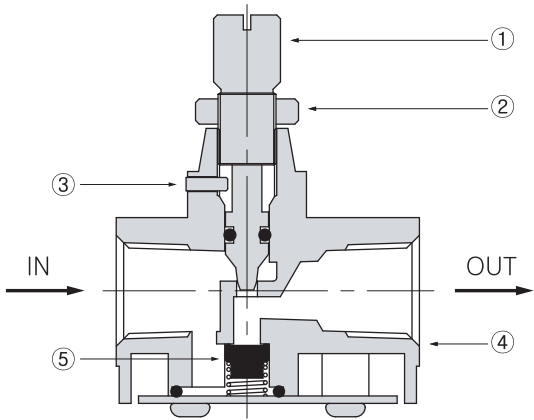
Fluid	Compressed Air
Max. supply pressure	10bar (1.0MPa)
Max. operating pressure	15bar (1.5MPa)
Ambient temperature	-5~60℃(No freezing)

### 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

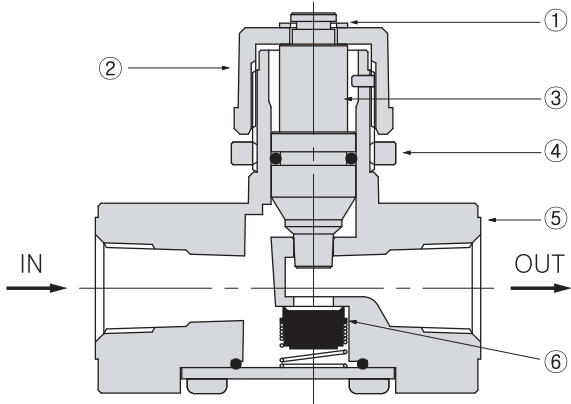
SAS

SQE

SJ

SRJ

SAS 4000

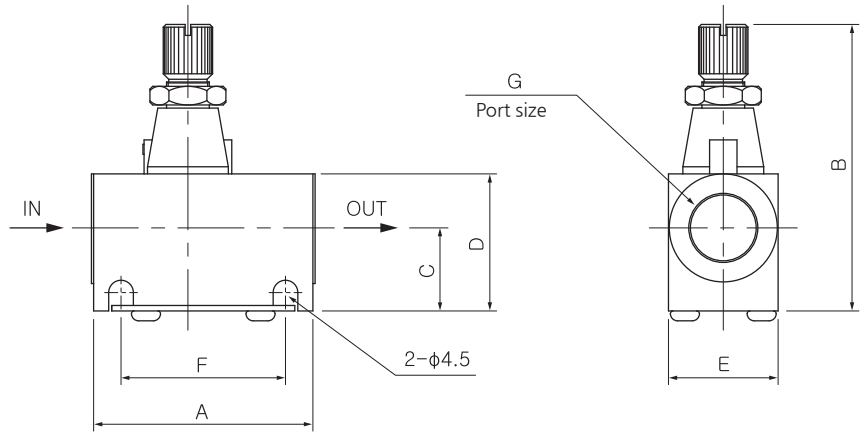


No.	PARTS	MATERIAL
①	E-ring	-
②	Handle	ABS
③	Niddle	AL
④	Handle nut	ABS
⑤	Body	ALDC
⑥	Check valve	NBR

# Series SAS2000~6000

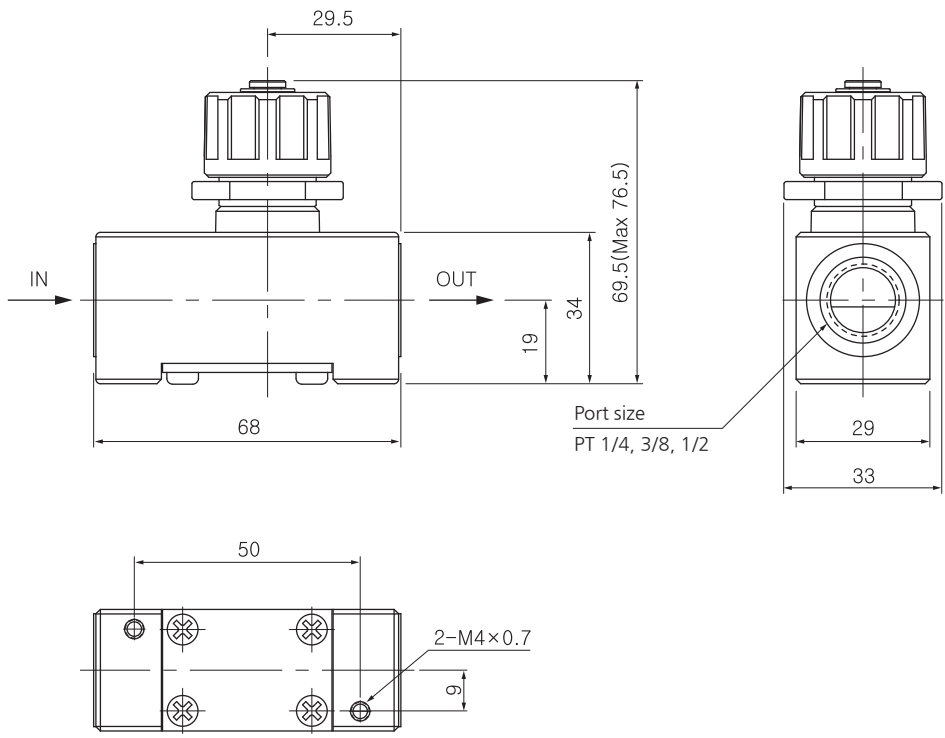
## DIMENSIONS (mm)

### 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

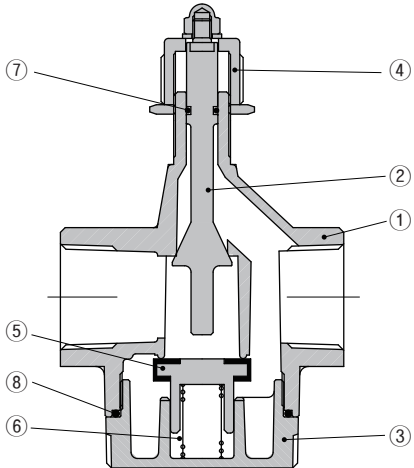
### SAS 4000



# Speed Controller

## STRUCTURE / PARTS

### SAS 5000~6000

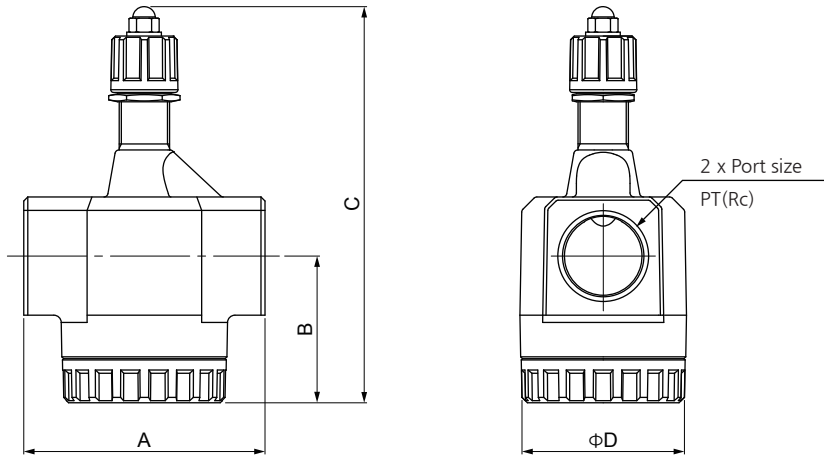


No.	PARTS	MATERIAL	
		SAS5000	SAS6000
①	Body	ALDC	
②	Niddle	Brass	
③	Cover	ALDC	
④	Handle	ALDC	
⑤	Check valve	NBR, Br	
⑥	Spring	SUS	
⑦	O-ring	NBR	
⑧	O-ring	NBR	

- SAS
- SQE
- SJ
- SRJ

## DIMENSIONS (mm)

### SAS 5000~6000

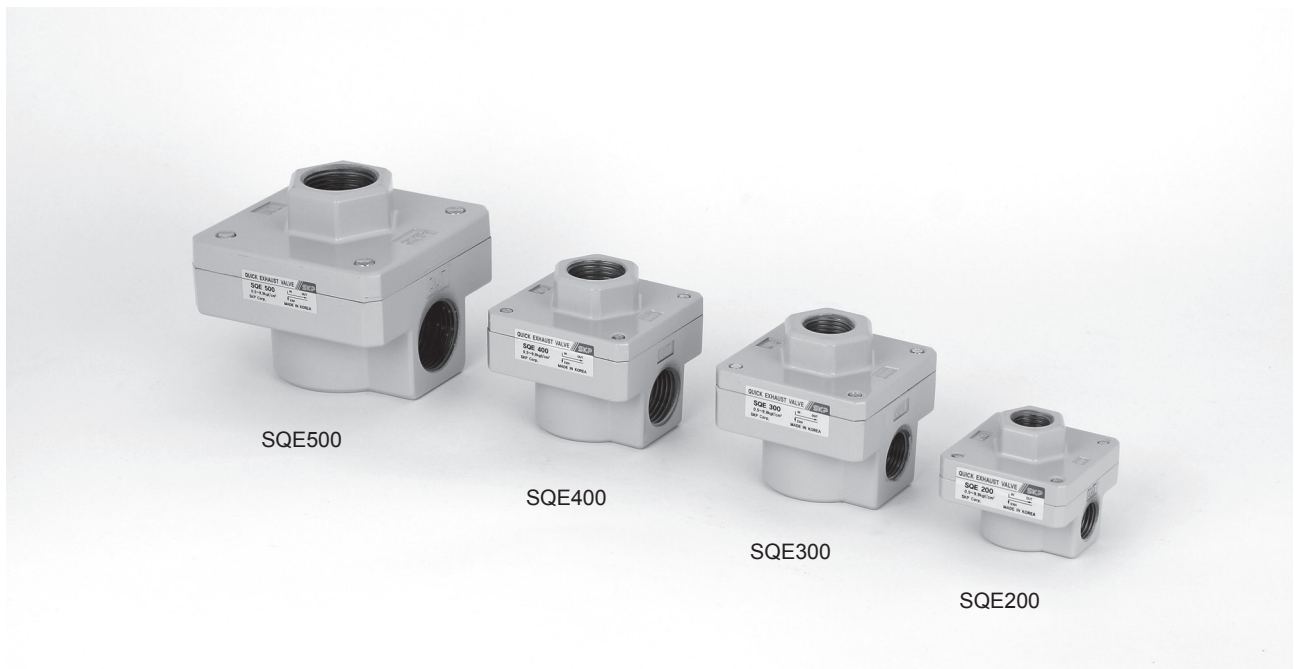


Model	Port size	A	B	C	D
SAS 5000	3/4	74	42	121	49
SAS 6000	1	90	55.5	145	61.5

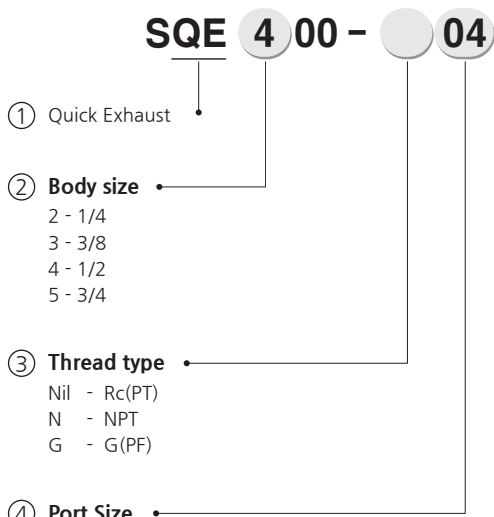


# Quick Exhaust Valve (SQE)

## SQE200~500 Series

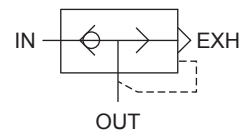


### How to order



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

### Symbol



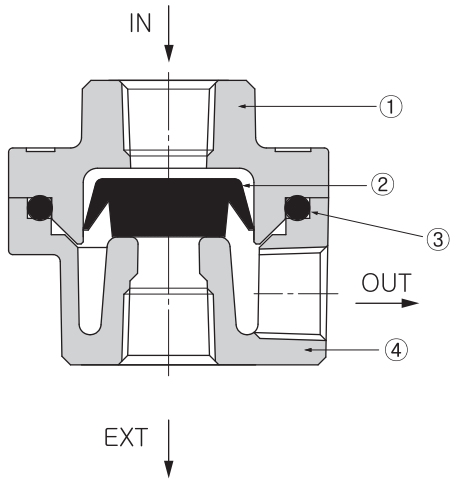
### Specification

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

# Quick Exhaust Valve

## STRUCTURE / PARTS

### SQE 200 ~ 500



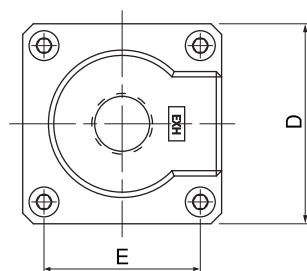
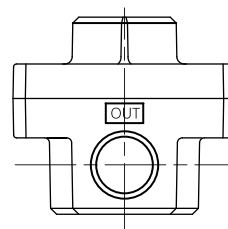
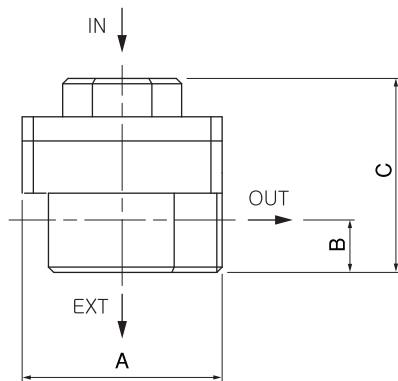
No.	PARTS	MATERIAL
①	Cover	ALDC
②	Valve <sup>1)</sup>	NBR
③	O - ring	NBR
④	Body	ALDC

Note : 1. SQE500 - Urethane

- SAS
- SQE
- SJ
- SRJ

## 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	

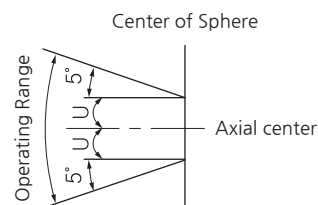
④ **Thread nominal size(Standard)**

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

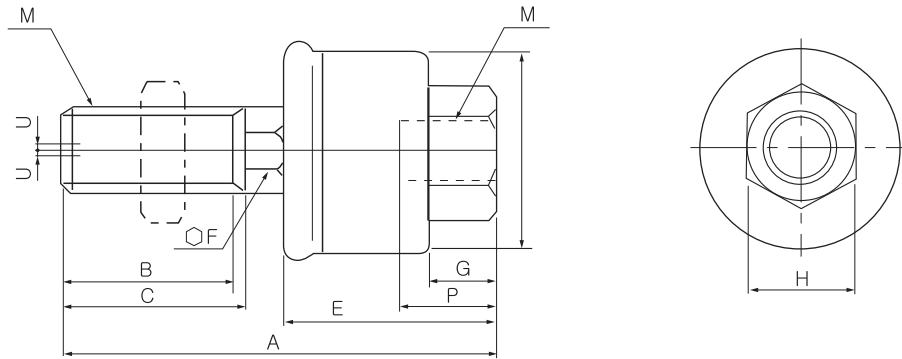


### Precautions

- 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

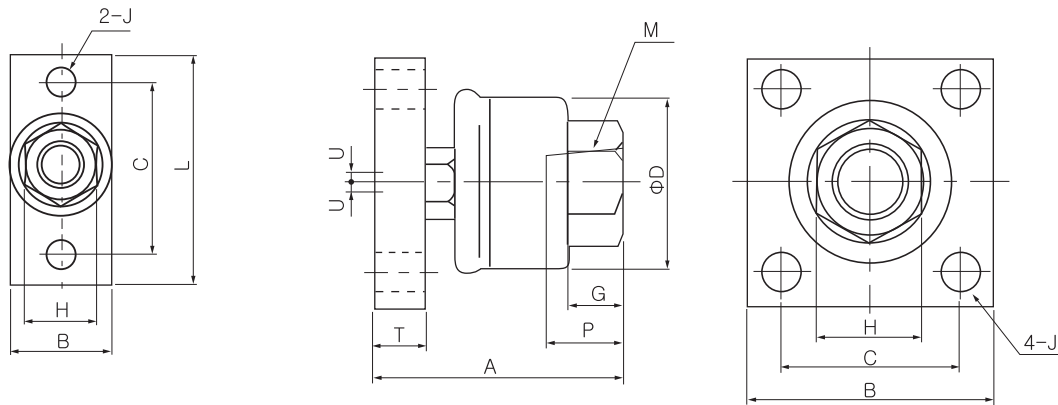


- SAS
- SQE
- SJ**
- SRJ

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
 

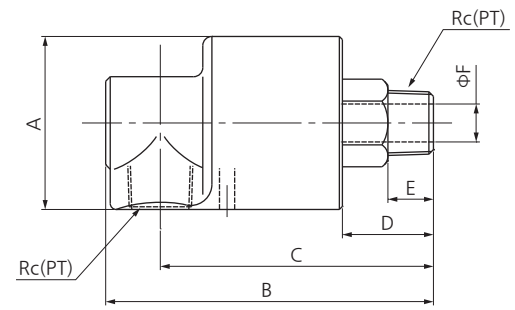
Symbol	Size	Body size					
		2	3	4	5	6	
01	1/8	●					
02	1/4	●					
03	3/8		●				
04	1/2			●			
06	3/4				●		
10	1					●	
- ⑤ Direction of connecting screw
  - R - Right
  - L - Left

### Symbol

Fluid	Air, Water	
Max. temperature	100°C	
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

SAS

SQE

SJ

SRJ

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