

# Air Unit (SAU)

## Air Filter + Air Regulator + Air Lubricator



### How to order

**SAU 4 00 - 04 DG - MeP**

- ① Air Unit
- ② Body Size
  - 1 - 1/8
  - 2 - 1/4
  - 3 - 3/8
  - 4 - 1/2
  - 6 - 1
- ③ Composition
  - 00 Filter(SAF)
  - Regulator(SAR)
  - Lubricator(SAL)
- ④ Thread type
  - Nil - Rc(PT)
  - N - NPT
  - G - G(PF)
- ⑤ Port Size
 

| Symbol | Size | Body size |   |   |   |   |  |
|--------|------|-----------|---|---|---|---|--|
|        |      | 1         | 2 | 3 | 4 | 6 |  |
| M5     | M5   | ●         |   |   |   |   |  |
| 01     | 1/8  |           | ● |   |   |   |  |
| 02     | 1/4  |           | ● | ● |   |   |  |
| 03     | 3/8  |           |   | ● |   |   |  |
| 04     | 1/2  |           |   |   | ● |   |  |
| 06     | 3/4  |           |   |   | ● | ● |  |
| 10     | 1    |           |   |   |   | ● |  |
- ⑥ Accessory(Optional)
  - Nil - None gauge / Manual Drain
  - D - Auto Drain

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

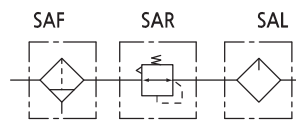
1. SAF100 and SAF200 are differential pressure type.  
 2. SAF300~600 are float type.

  - G - Gauge

|    |                      |
|----|----------------------|
| G  | Round type gauge     |
| Gs | Square embedded type |

SAU100 is available only round type gauge.
- ⑦ Bowl
  - Nil - PC bowl
  - MeP - Metal bowl with pipe type sight glass

### Symbol



### Specification

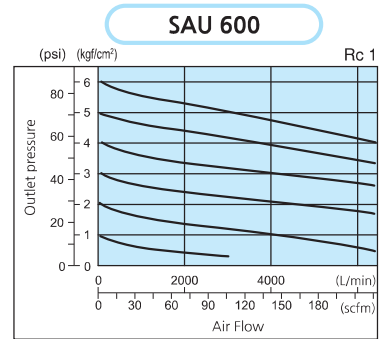
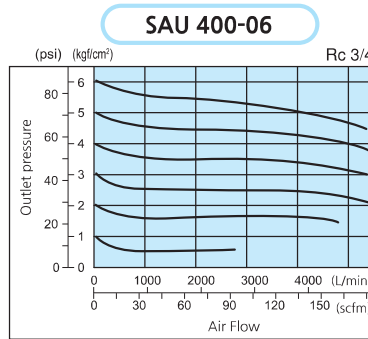
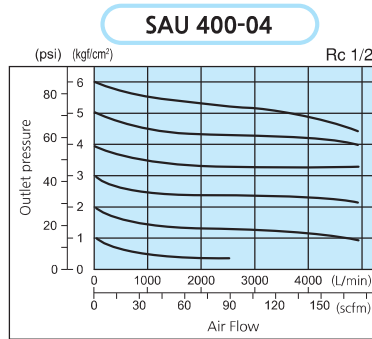
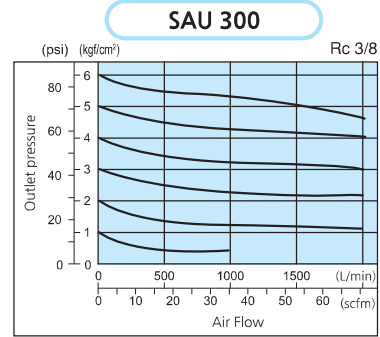
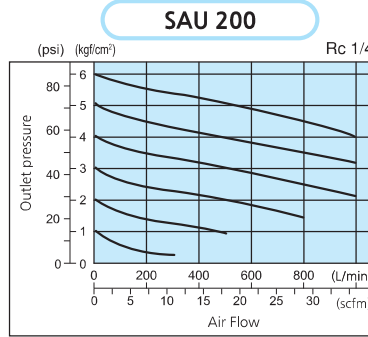
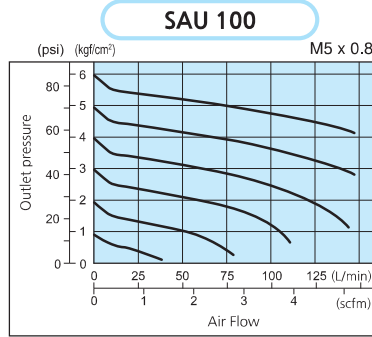
|                         |                                 |
|-------------------------|---------------------------------|
| Composition             | Filter + Regulator + Lubricator |
| Fluid                   | Compressed Air                  |
| Max. operating pressure | 10bar (1.0MPa)                  |
| Max. supply pressure    | 15bar (1.5MPa)                  |
| Ambient and Media temp. | -5~60℃ (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

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

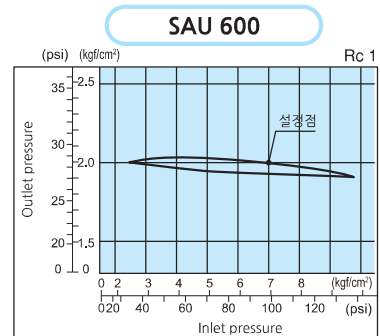
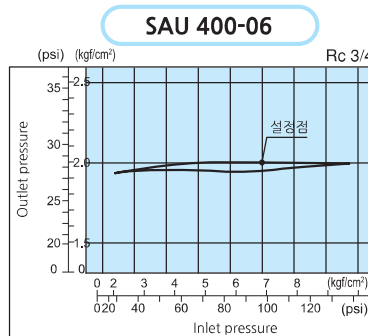
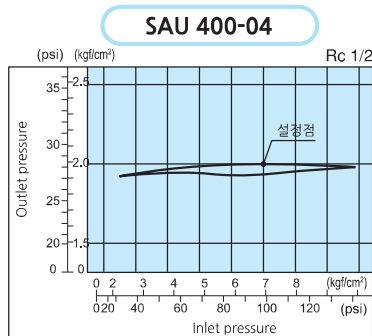
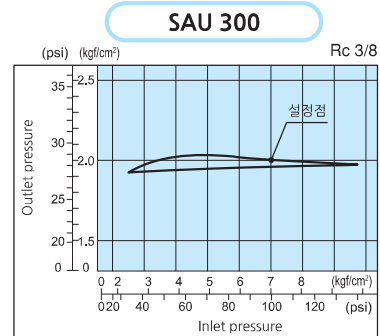
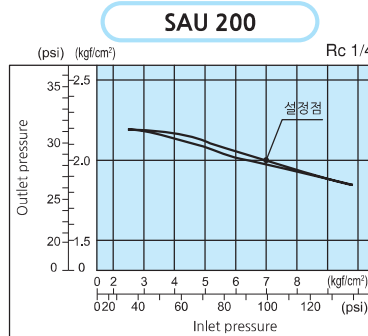
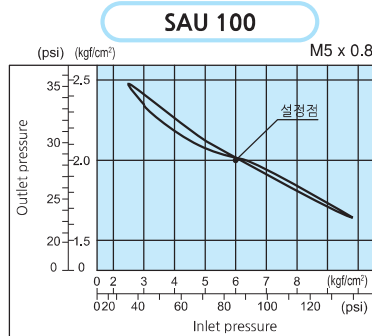
## FLOW CHARACTERISTICS

Inlet pressure 7kg/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

SAW  
HIGH PRESS.

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

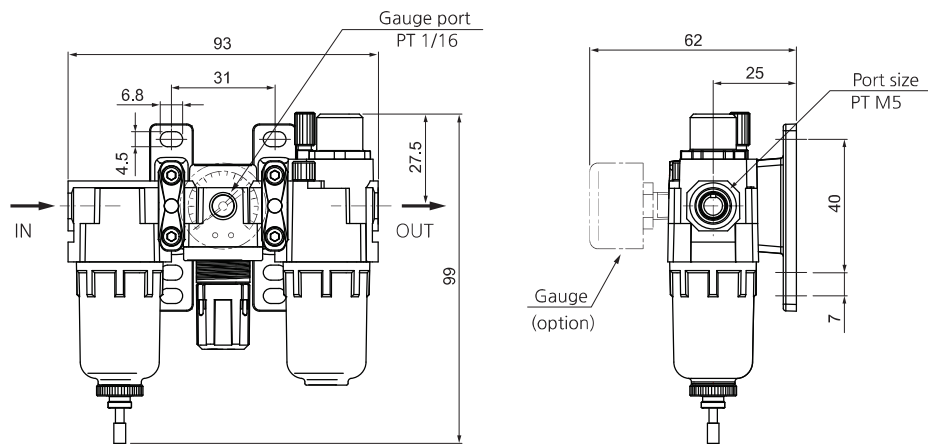
CAUTION

Series SAU100~600

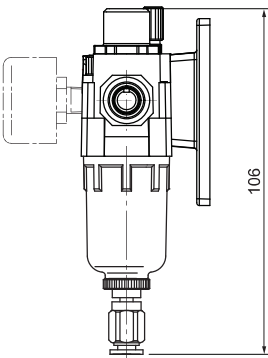
DIMENSIONS (mm)

SAU 100

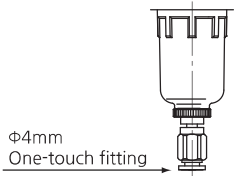
SAU100-□□□



Dimensions of each model with an option attached



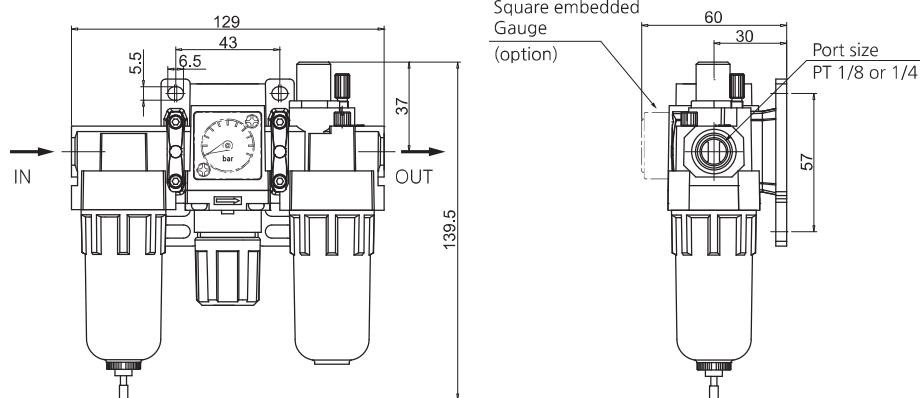
with Auto Drain  
(Differential pressure type)

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

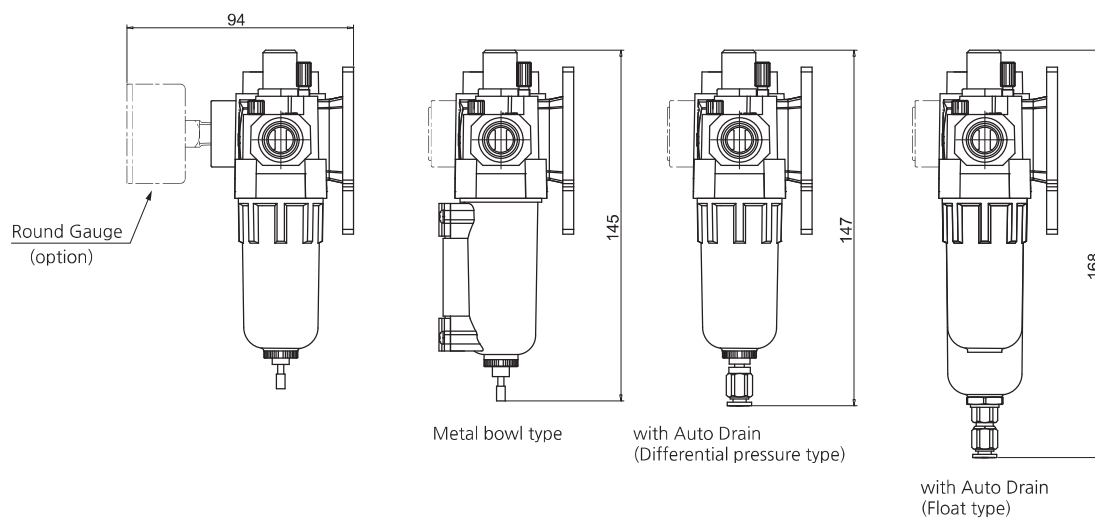
## DIMENSIONS (mm)

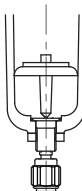
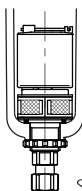
### SAU 200

■ SAU200-□02□□-□



■ Dimensions of each model with an option attached



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

SAU

SAU  
LARGE FLOW

SAU  
HIGH PRESS.

SAW

SAW  
HIGH PRESS.

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

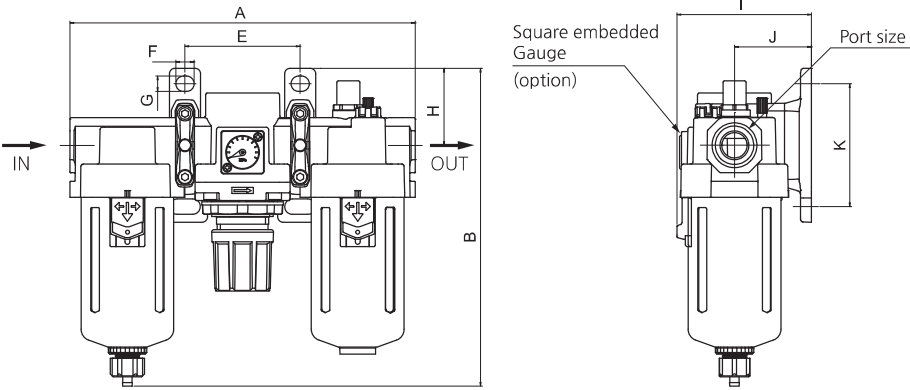
CAUTION

# Series SAU100~600

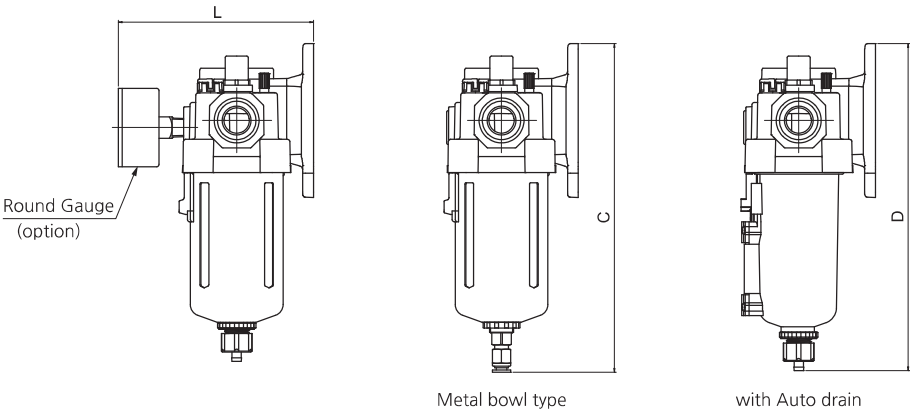
## DIMENSIONS (mm)

### SAU 300~400

- SAU300-□03□□-□
- SAU400-□04(06)□□-□



■ Dimensions of each model with an option attached



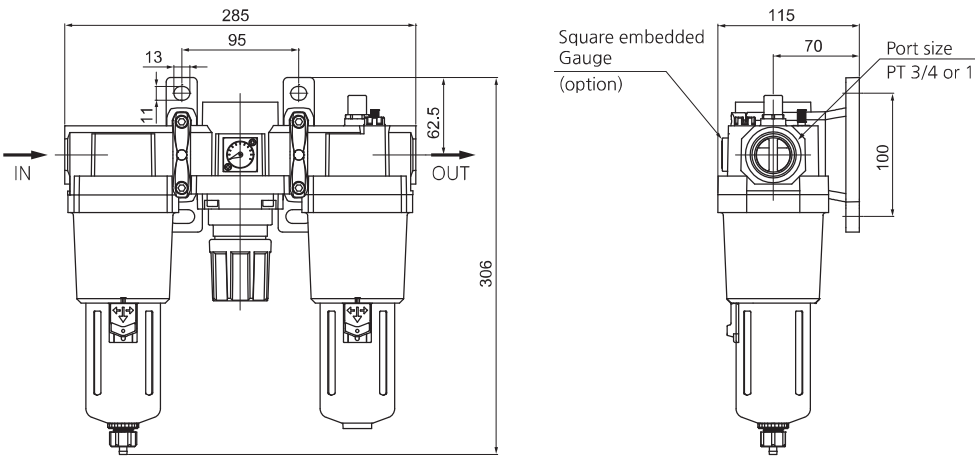
| Option | D : Auto Drain                                                                                                            | Gauge                                                                                                                           |                                    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

| Model     | Port size | A   | B   | C   | D   | E  | F  | G | H  | I    | J  | K  | L   |
|-----------|-----------|-----|-----|-----|-----|----|----|---|----|------|----|----|-----|
| SAU300-03 | 1/4, 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 |

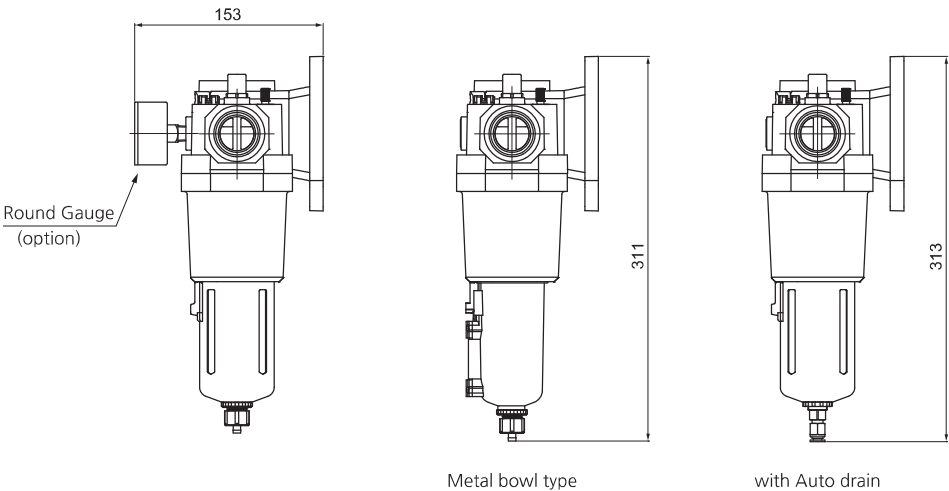
DIMENSIONS (mm)

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  | <br>SAD400 | <br>G50, R1/4 | <br>Gs28 |

- SAU
- SAU  
LARGE FLOW
- SAU  
HIGH PRESS.
- SAW
- SAW  
HIGH PRESS.
- 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