

Air Unit (SAU)

Air Filter + Air Regulator + Air Lubricator



How to order

SAU 4 00 - 04 DG - MeP

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

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

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

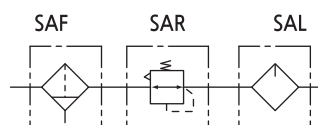
※ 1. SAF100 and SAF200 are differential pressure type.
2. SAF300~600 are float type.

 - G - Gauge

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

※ SAU100 is available only round type gauge.
- Bowl**
 - Nil - Polycarbonate bowl with Nylon guard
 - PcS - Polycarbonate bowl with Steel guard
 - MeP - Metal bowl with pipe type sight glass
- Set pressure(When ordering AR & AW100)**
 - Nil - 0.5~8.5bar(0.05~0.85MPa)
 - 2 - 0.2~2bar(0.02~0.2MPa)

Symbol



Specification

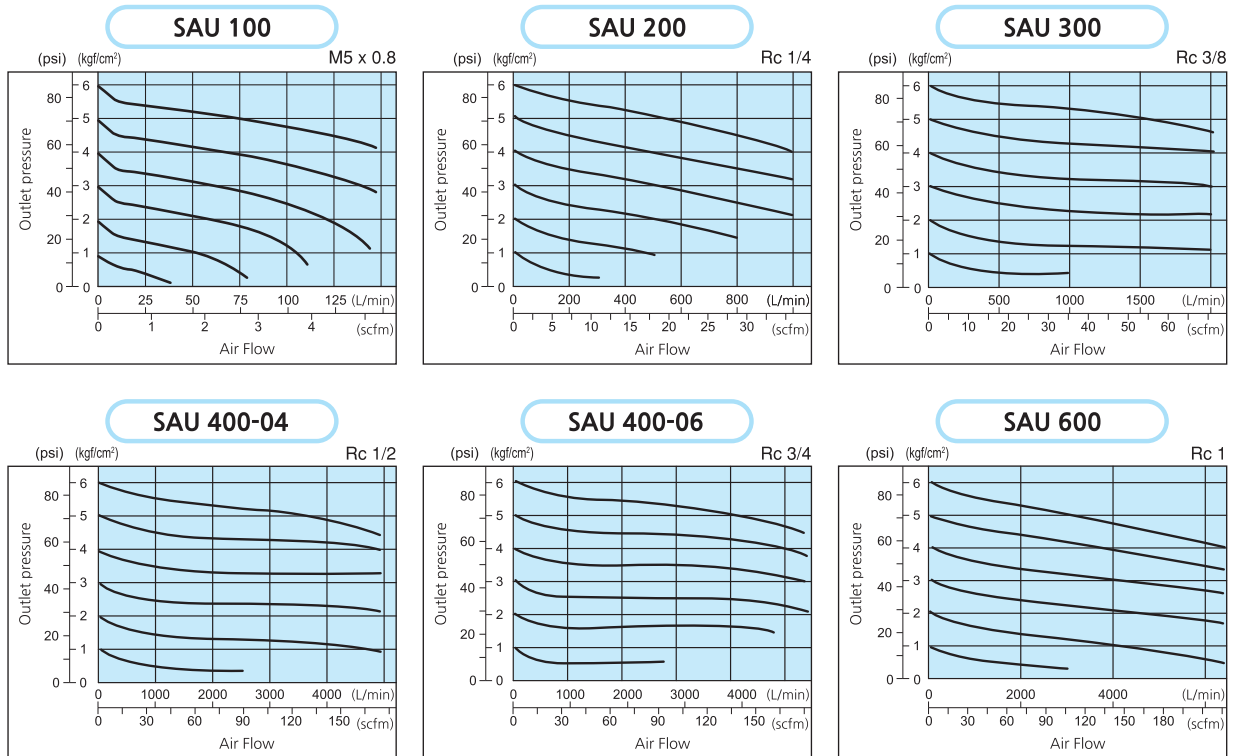
| | |
|-------------------------|---------------------------------|
| Composition | Filter + Regulator + Lubricator |
| Fluid | Compressed Air |
| Max. operating pressure | 10bar (1.0MPa) |
| Max. supply pressure | 15bar (1.5MPa) |
| Ambient and Media temp. | -5~60℃ (No freezing) |
| Regulating range(SAR)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

Precautions

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

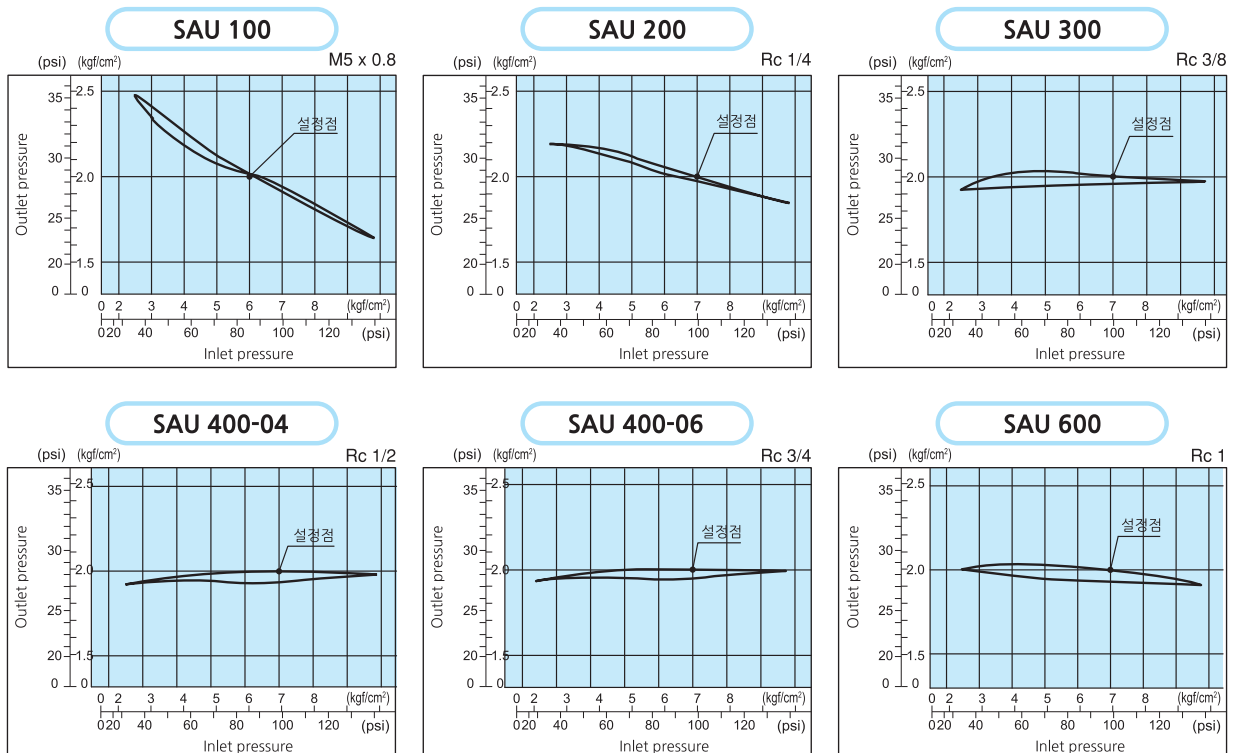
FLOW CHARACTERISTICS

Inlet pressure 7kg/cm²



PRESSURE CHARACTERISTICS

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

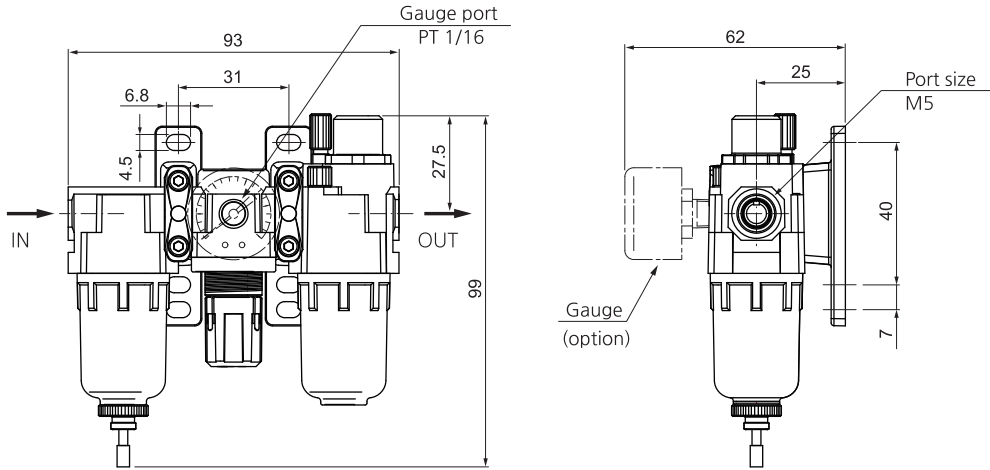


Series SAU100~600

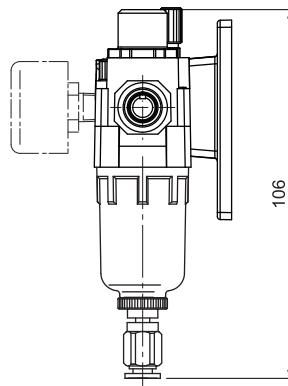
DIMENSIONS (mm)

SAU 100

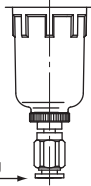
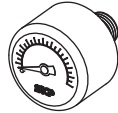
- SAU100-□□□



- Dimensions of each model with an option attached



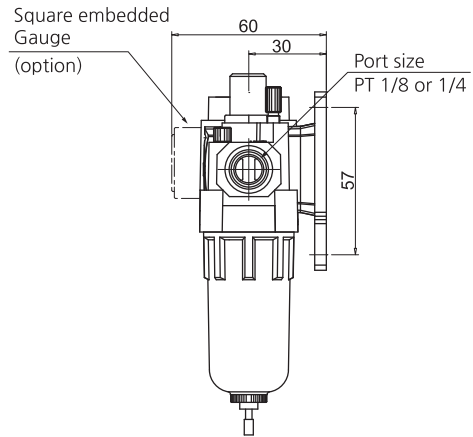
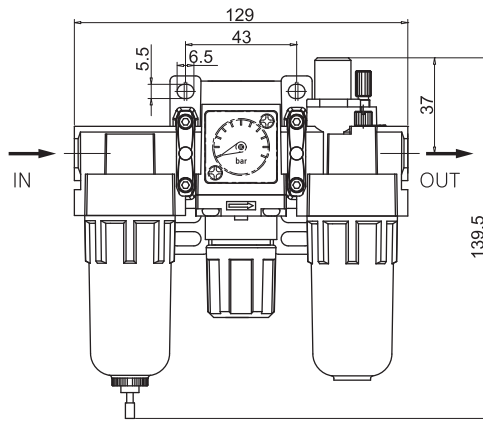
with Auto Drain
(Differential pressure type)

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

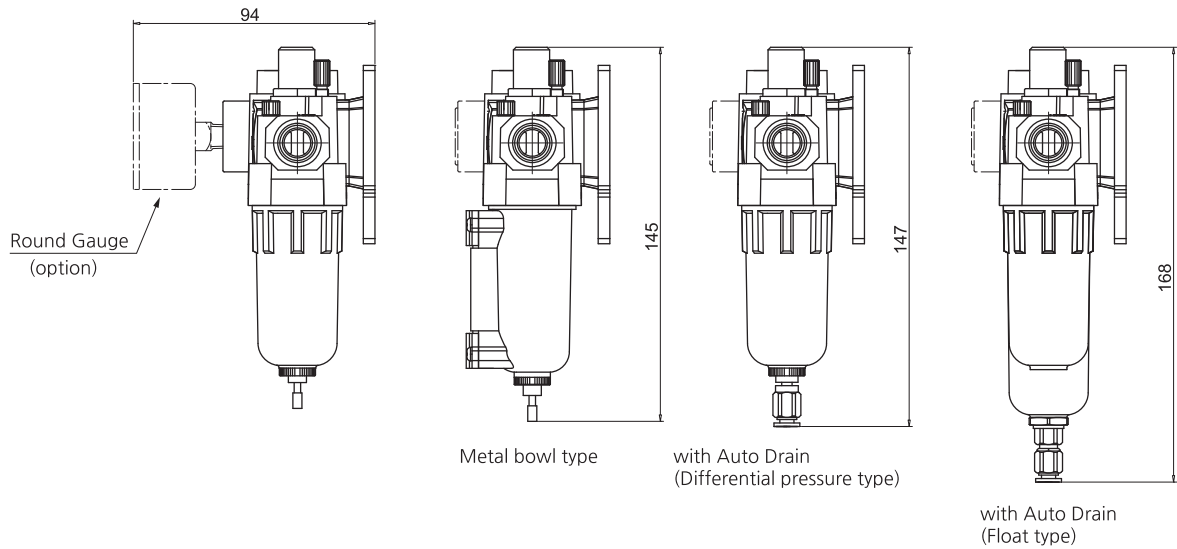
DIMENSIONS (mm)

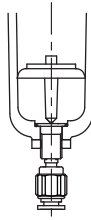
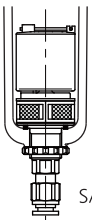


SAU 200

■ SAU200-□02□□-□



■ Dimensions of each model with an option attached



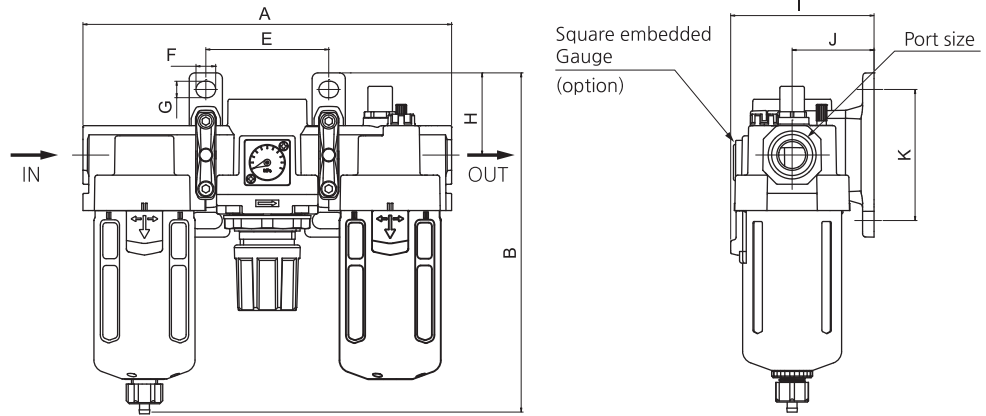
| Option | Auto Drain | | Gauge | |
|--------|---|---|---|---|
| | D : Differential pressure type | Df : Float type | G : Round type | Gs : Square embedded type |
| Model |  |  SAD200 |  G40, R1/8 |  Gs28 |

Series SAU100~600

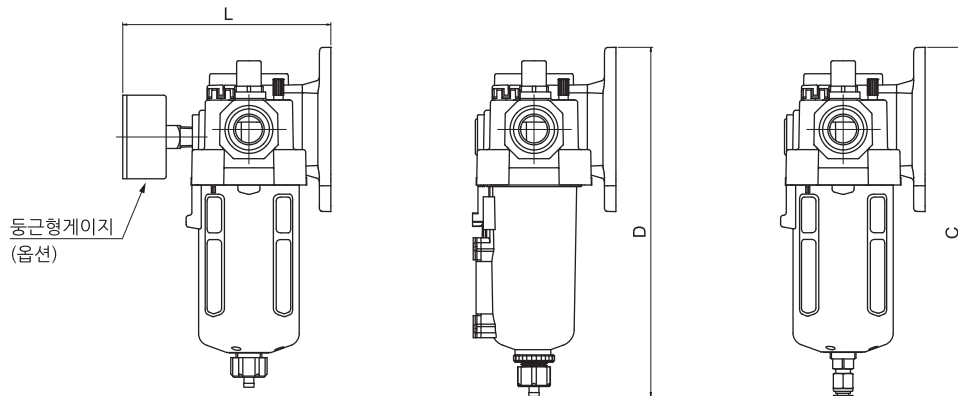
DIMENSIONS (mm)

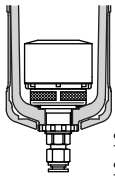


SAU 300~400

- SAU300-□03□□-□
- SAU400-□04(06)□□-□



- Dimensions of each model with an option attached



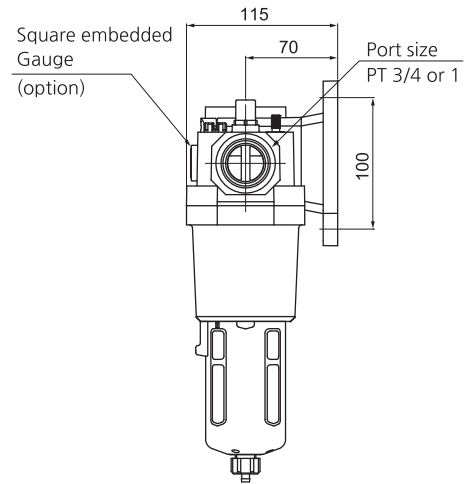
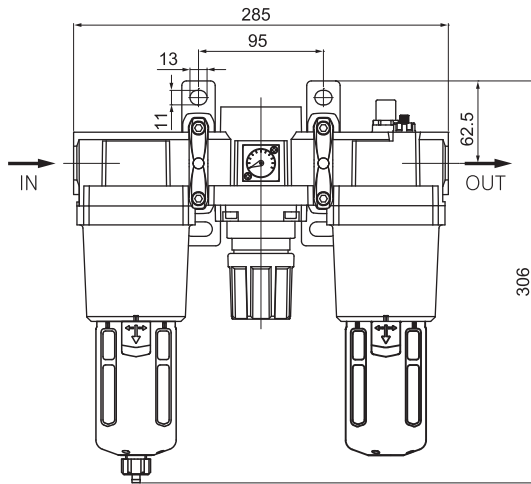
| Option | D : Auto Drain | Gauge | |
|--------|---|---|---|
| | | G : Round type | Gs : Square embedded type |
| Model |  SAU300 : SAD300 SAU400 : SAD400 |  SAU300 : G40, R1/8 SAU400 : G50, R1/4 |  Gs28 |

| 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 |

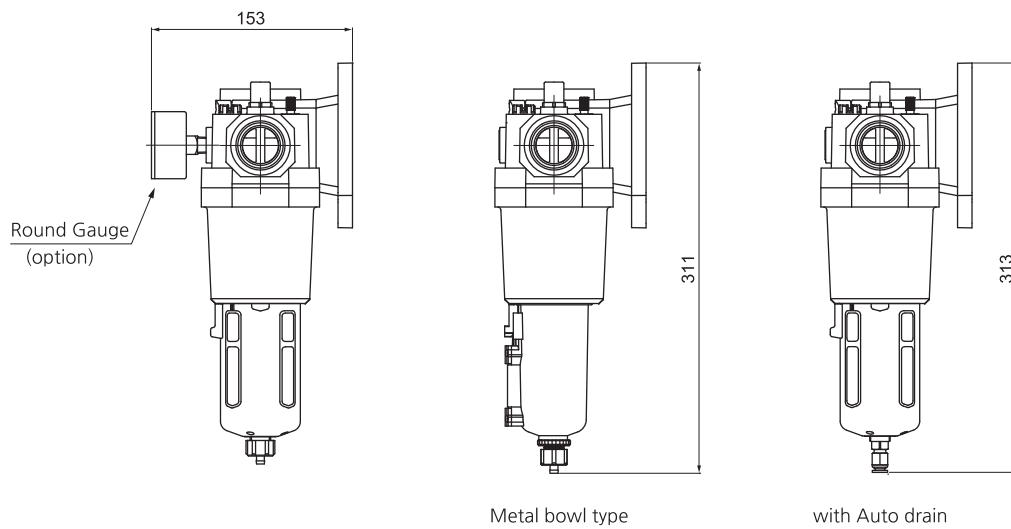
DIMENSIONS (mm)

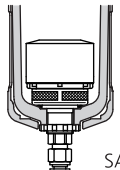


SAU 600

- SAU600-□06(10)□□-□



- Dimensions of each model with an option attached



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