

How to Order

The ACG/ARG/AWG series now features a new model: the ACG-B/ARG-B/AWG-B. Click [here](#) for details.

ACG 30 - 03 G1

Body size

| Symbol | Port size |
|--------|-----------|
| 20 | 1/8 |
| 30 | 3/8 |
| 40 | 1/2 |

Model combination

| Symbol | Combination | | | | |
|------------------|-------------|--|------------|---|----------------|
| | Air filter | Regulator with Built-in Pressure Gauge | Lubricator | Filter Regulator with Built-in Pressure Gauge | Mist separator |
| Nil | (1) | (2) | (3) | — | — |
| A | — | — | (2) | (1) | — |
| B ⁽¹⁾ | (1) | (2) | — | — | — |
| C | (1) | (3) | — | — | (2) |
| D | — | — | — | (1) | (2) |

Note 1) Wall mount is not available for size 20 regulator with downward facing knob in B combination. Contact SMC when wall mount is needed.

Note 2) The number inside () indicates the combination order counted from the inlet side.

Thread type

| Symbol | Type |
|------------------|------|
| Nil | Rc |
| N ⁽³⁾ | NPT |
| F ⁽⁴⁾ | G |

Note 3) Drain guide is NPT 1/8 for ACG20 and NPT 1/4 for ACG30 and 40. Auto-drain port is provided with ø3.8" One-touch fitting (applicable to ACG30 and 40).

Note 4) Drain guide is G1/8 for ACG20 and G1/4 for ACG30 and 40.

Port size

| Symbol | Port size | Body size | | |
|--------|-----------|-----------|----|----|
| | | 20 | 30 | 40 |
| 01 | 1/8 | ● | — | — |
| 02 | 1/4 | ● | ● | ● |
| 03 | 3/8 | — | ● | ● |
| 04 | 1/2 | — | — | ● |

Option

| Symbol | Description | Applicable model |
|--------|---|------------------|
| Nil | — | — |
| C | Float type auto-drain (Normally closed) | ACG20□ to 40□ |
| D | Float type auto-drain (Normally open) | ACG30□, 40□ |

Mounting angle of pressure gauge °0

Note 5) Mounting angle of pressure gauge is G1 only. If other mounting angles are needed, contact SMC.

• Possible to change to the optional mounting angles. For details, refer to page 642, "Procedure for replacing or changing the mounting angle of a pressure gauge".

Semi-standard

| Symbol | Description | Applicable model |
|-------------------|--|------------------|
| Nil | — | — |
| 1 ⁽⁸⁾ | 0.02 to 0.2 MPa setting | ACG20□ to 40□ |
| 2 | Metal bowl | ACG20□ to 40□ |
| 3 | Lubricator with drain cock | ACG20□ to 40□ |
| 6 | Nylon bowl | ACG20□ to 40□ |
| 8 | Metal bowl with level gauge | ACG30□, 40□ |
| C | With bowl guard | ACG20□ |
| J | Filter case with drain guide | ACG20□ to 40□ |
| N | Non-relieving type | ACG20□ to 40□ |
| R | Flow direction: Right to left | ACG20□ to 40□ |
| W | Drain cock with barb fitting: ø6 x ø4 nylon tubing | ACG30□, 40□ |
| Y | Regulator with upward facing knob | ACG20□ to 40□ |
| Z ⁽¹⁰⁾ | Name plate and pressure gauge in imperial units (psi), caution plate for bowl (psi·°F) | ACG20□ to 40□ |

+ When more than one specification is required, indicate in ascending alphanumeric order.

Note 8) Adjusting spring and pressure gauge (full-span 0.3 MPa) are different from those for the standard specification. Outlet pressure may increase by 0.2 MPa or more.

Note 9) Without a valve function.

Note 10) For thread type NPT.

This product is for overseas use only according to the new Measurement Law. (The SI unit type is provided for use in Japan.) Both MPa and psi are used for the pressure switch unit.

Attachment

| Symbol | Description | Attachment mounting position | Applicable model | Port size for intermediate air release |
|------------------|---------------------------------------|--|---|---|
| Nil | — | — | — | — |
| K | Check valve | AF + ARG + [K] + AL AWG + [K] + AL | ACG20 to 40 ACG20A to 40A | ACG20□: 1/8 ACG30□: 1/4 ACG40□: 3/8 |
| S ⁽⁷⁾ | Pressure switch | AF + ARG + [S] + AL AF + [S] + ARG AF + AFM + [S] + ARG | ACG20 to 40 ACG20B to 40B ACG20C to 40C | — |
| V | Residual pressure relief 3 port valve | AF + ARG + AL + [V] AWG + AL + [V] AF + ARG + [V] AF + AFM + ARG + [V] AWG + AFM + [V] | ACG20 to 40 ACG20A to 40A ACG20B to 40B ACG20C to 40C ACG20D to 40D | — |

Note 6) When more than one attachment is required, order in alphabetical order.

Note 7) Pressure switch cannot be mounted on the inlet and outlet sides of an ARG with an upward facing knob (optional specification: -Y).

Mounting Angle of Pressure Gauge




| Symbol | G1 |
|--|----|
| Mounting angle | 0° |
| Mounting angle view | |
| Mounting angle view (-R specification) | |

Option/Semi-standard Combinations

⊙: Combination available □: Combination not available ○: Varies depending on a model △: Available only with NPT thread

| Option/ Semi-standard specifications | Combination Symbol | Option | | Semi-standard | | | | | | | | | | F.R.L. unit applicable model | | | | | | | | | | | | | |
|---|-----------------------|--------|---|---------------|---|---|---|---|---|---|---|---|---|------------------------------|---|-------|--------|--------|--------|--------|----------------|------------------|------------------|------------------|------------------|---|---|
| | | C | D | 1 | 2 | 3 | 6 | 8 | C | J | N | R | W | Y | Z | ACG20 | ACG20A | ACG20B | ACG20C | ACG20D | ACG30 ACG40 | ACG30A ACG40A | ACG30B ACG40B | ACG30C ACG40C | ACG30D ACG40D | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Float type auto drain (N.C.) | C | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | |
| Float type auto drain (N.O.) | D | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | |
| 0.02 to 0.2 MPa setting | -1 | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | |
| Metal bowl | -2 | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | |
| Lubricator with drain cock | -3 | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | |
| Nylon bowl | -6 | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | |
| Metal bowl with level gauge | -8 | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | |
| With bowl guard | -C | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | |
| Drain guide | -J | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | |
| Non-relieving type | -N | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | |
| Flow direction: Right to left | -R | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | |
| Drain cock with barb fitting | -W | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | |
| Regulator upward facing knob | -Y | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | ⊙ | |
| Name plate, caution plate for bowl, and pressure gauge in imperial units (psi, F) | -Z | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ | △ |

Attachments

| | Port size | Function | |
|--|--------------------|--------------------------------------|--------|
|  Check valve | 1/8, 1/4, 3/8 | Prevents back flow from lubricator. | P. 615 |
|  Pressure switch | — | Compact switch | P. 616 |
|  Residual pressure relief 3 port valve | 1/8, 1/4, 3/8, 1/2 | Releases residual pressure in lines. | P. 617 |

Accessories
Refer to page 618 for spacers and brackets.

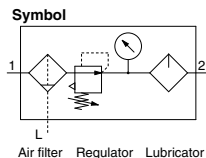
ACG20/30/40 Series



ACG20



ACG40



Air filter Regulator Lubricator

Standard Specifications

| Model | | ACG20 | ACG30 | ACG40 |
|-------------------------------|------------|--|------------|-------------------|
| Component | Air filter | AF20 | AF30 | AF40 |
| | Regulator | ARG20 | ARG30 | ARG40 |
| | Lubricator | AL20 | AL30 | AL40 |
| Port size | | 1/8 1/4 | 1/4 3/8 | 1/4 3/8 1/2 |
| Fluid | | Air | | |
| Proof pressure | | 1.5 MPa | | |
| Maximum operating pressure | | 1.0 MPa | | |
| Regulating pressure range | | 0.05 to 0.85 MPa | | |
| Relief pressure | | Set pressure + 0.05 MPa (at relief flow rate of 0.1 L/min (ANR)) | | |
| Ambient and fluid temperature | | -5 to 60°C (With no freezing) | | |
| Nominal filtration rating | | 5 μm | | |
| Recommended lubricant | | Class 1 turbine oil (ISO VG32) | | |
| Regulator construction | | Relieving type | | |
| Bowl material | | Polycarbonate | | |
| Bowl guard | | Semi-standard | | Standard |
| Sight dome material | | Polycarbonate | | |
| Weight (kg) | | 0.51 | 1.11 | 1.87 |

Attachment/Option Part No.

| Description | | | Attachment/Option part no. | | |
|-------------------------------|--|-----------------|----------------------------|--------------------|---------------------|
| Model | | | ACG20 | ACG30 | ACG40 |
| Pressure gauge ⁽¹⁾ | Standard | 0 to 1.0 MPa | GB2-10AS | GB3-10AS | GB4-10AS |
| | Semi-standard | 0 to 0.3 MPa | GB2-3AS | GB3-3AS | GB4-3AS |
| Option | Float type auto drain ⁽²⁾ | Normally closed | AD27 | AD37 | AD47 |
| | | Normally open | — | AD38 | AD48 |
| Attachment | Spacer | | Y200 | Y300 | Y400 |
| | Spacer with bracket | | Y200T | Y300T | Y400T |
| | Check valve ⁽³⁾ | | AKM2000-□01, □02 | AKM3000-(□01, □02) | AKM4000-(□02), □03 |
| | Pressure switch ⁽⁴⁾ | | IS10M-20 | IS10M-30 | IS10M-40 |
| | Residual pressure relief 3 port valve ⁽⁴⁾ | | VHS20-□01, □02 | VHS30-□02, □03 | VHS40-□02, □03, □04 |

Note 1) Contact SMC regarding the connection thread NPT and pressure gauge supply for psi unit specifications.

Note 2) Minimum operating pressure: 0.1 MPa for N.O. type, 0.1 MPa for N.C. type (AD27) and 0.15 MPa for N.C. type (AD37 and 47). Contact SMC for psi and °F specifications.

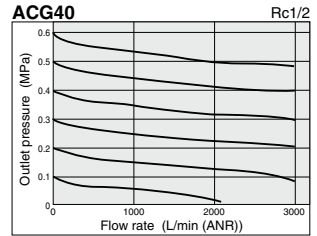
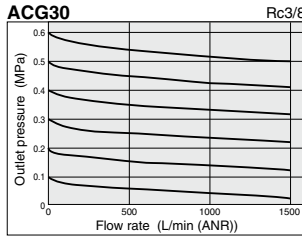
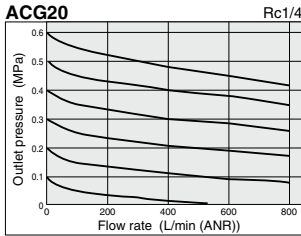
Note 3) For F.R.L. units, port sizes not in () are for standard application.

Note 4) Separate spacers are required for modular unit.

Note 5) Pressure switch cannot be mounted on the inlet and outlet sides of an ARG with an upward facing knob (semi-standard specification: -Y).

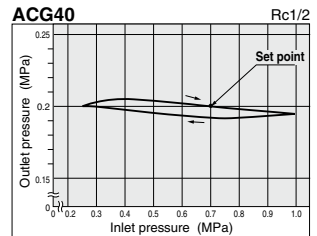
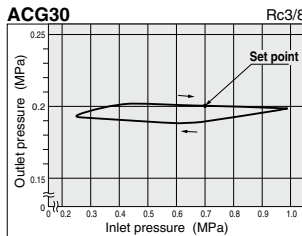
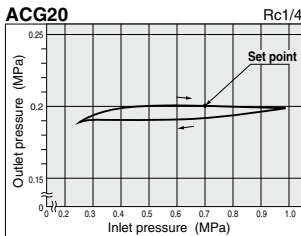
Flow Rate Characteristics

Condition: Inlet pressure 0.7 MPa



Pressure Characteristics

Conditions: Inlet pressure 0.7 MPa, Outlet pressure 0.2 MPa, Flow rate 20 L/min (ANR)



⚠ Specific Product Precautions

- Be sure to read this before handling the products.
- Refer to back page 50 for Safety Instructions and pages 387 to 391 for F.R.L. Precautions.

Piping

⚠ Warning

- When mounting a check valve, make sure the arrow (IN side) points in the correct direction of air flow.

Selection

⚠ Warning

- Float type auto drain
 - Operate under the following conditions to avoid malfunction.
 - <N.O. type>
 - Operating compressor: 0.75 kW (100 L/min (ANR)) or more.
 - When using 2 or more auto drains, multiply the value above by the number of auto drains to find the capacity of the compressors you will need.
 - For example, when using 2 auto drains, 1.5 kW (200 L/min (ANR)) of the compressor capacity is required.
 - Operating pressure: 0.1 MPa or more.
 - <N.C. type>
 - Operating pressure for AD27: 0.1 MPa or more.
 - Operating pressure for AD37/47: 0.15 MPa or more.
- Use a regulator or filter regulator with a back flow mechanism when mounting a 3 port valve for residual pressure release on the IN side to ensure the release of the residual pressure. Otherwise, residual pressure will not be fully released.

Selection

⚠ Caution

- Mounting a 3 port valve for residual pressure release on the IN side of the lubricator can cause lubricant to back flow. Take measures to prevent lubricant from splashing by installing a filter on the EXH port.
- An F.R.L. unit shipped from the plant has its model number labeled. However, components that are combined during the distribution process do not have a label on them.

Air Supply

⚠ Caution

- Use an air filter with 5 μm or less filtration rating on the inlet side of the valve to avoid any damage to the seat caused by dust when mounting a 3 port valve for residual pressure release on the inlet side.

AC-A

AF-A

AF□-A

AR-A

AL-A

AW-A

AC-B

AF-A

AF□-A

AR-B

AL-A

AW-B

AW□

AF□-G

E□

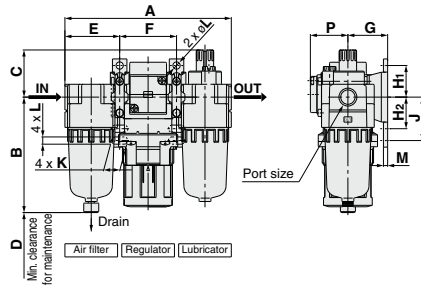
AV

AF

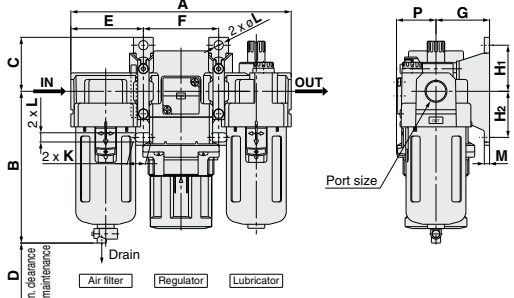
ACG20/30/40 Series

Dimensions

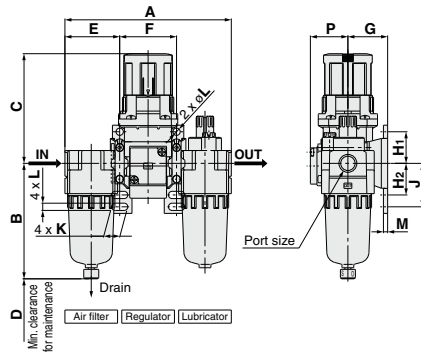
ACG20 Standard Downward facing knob



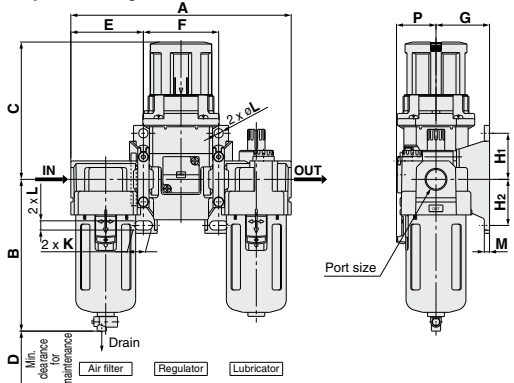
ACG30/40 Standard Downward facing knob











ACG20 Semi-standard (-Y) Upward facing knob



ACG30/40 Semi-standard (-Y) Upward facing knob



| Applicable model Option/Semi-standard specifications | ACG20 | | | | ACG30/40 | | | |
|---|---|---|---|---|---|---|---|---|
| | With auto drain (N.C.) | Metal bowl | With drain guide | With auto drain (N.O./N.C.) | Metal bowl | Metal bowl with level gauge | With drain guide | Drain cock with barb fitting |
| Dimensions |  M5 x 0.8 |  |  1/8 Width across flats 17 |  N.O.: Black N.C.: Gray ø1) One-touch fitting |  |  |  1/4 Width across flats 17 |  Barb fitting Applicable tubing: 1/8"OD |

| Model | Port size | Standard specifications | | | | | | | | | | | | | | |
|-------|---------------|-------------------------|-----|----|----------------|----------------|---------------|----|----|----|------------------|------------------|------------------|------------------|-----|-----|
| | | A | B | C | D | P | Bracket mount | | | | | | | | | |
| | | E | F | G | H ₁ | H ₂ | J | K | L | øL | M | | | | | |
| ACG20 | 1/8, 1/4 | 126 | 87 | 36 | 60 | 28.5 | 41.5 | 43 | 30 | 24 | — ⁽¹⁾ | — ⁽¹⁾ | — ⁽¹⁾ | — ⁽¹⁾ | 5.5 | 3.2 |
| ACG30 | 1/4, 3/8 | 167 | 115 | 41 | 80 | 30 | 55 | 57 | 41 | 35 | 35 | — | 14 | 7 | 7 | 4 |
| ACG40 | 1/4, 3/8, 1/2 | 220 | 147 | 48 | 110 | 38 | 72.5 | 75 | 50 | 40 | 40 | — | 18 | 9 | 9 | 4 |

| Model | Option/Semi-standard specifications | | | | | | | | | | |
|-------|-------------------------------------|----------------|----|----|-----|--------------------------------|----------------------------------|---------------------------------|---------------------------|--|-----|
| | Upward facing knob ⁽²⁾ | | | | | With auto drain ⁽³⁾ | With barb fitting ⁽³⁾ | With drain guide ⁽³⁾ | Metal bowl ⁽³⁾ | Metal bowl with level gauge ⁽³⁾ | |
| | C | H ₂ | J | K | L | B | B | B | B | B | B |
| ACG20 | 87 | 24 | 33 | 12 | 5.5 | 105 | — | — | 91 | 87 | — |
| ACG30 | 108.5 | 35 | — | 14 | 7 | 156 | — | — | 122 | 128 | 148 |
| ACG40 | 114.5 | 40 | — | 18 | 9 | 186 | — | — | 154 | 160 | 180 |

Note 1) In the case of the ACG20's standard specification (downward facing knob), the wall mounting is not possible using the lower side mounting hole on the spacer with a bracket. Use the upper side mounting hole when wall mounting.

Note 2) In the case of the upward facing knob in the semi-standard specification, the C dimension will change. Also, in the case of the ACG20, wall mounting is possible by using the lower side mounting hole on the spacer with a bracket.

Note 3) For the option/semi-standard specifications (with auto drain, with barb fitting, with drain guide, metal bowl, or metal bowl with level gauge), the total length (B dimension) will vary.

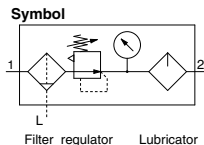
Filter Regulator + Lubricator

ACG20A/30A/40A Series

ACG20A



ACG40A

**Standard Specifications**

| Model | | ACG20A | ACG30A | ACG40A |
|-------------------------------|------------------|--|------------|-------------------|
| Component | Filter regulator | AWG20 | AWG30 | AWG40 |
| | Lubricator | AL20 | AL30 | AL40 |
| Port size | | 1/8 1/4 | 1/4 3/8 | 1/4 3/8 1/2 |
| Fluid | | Air | | |
| Proof pressure | | 1.5 MPa | | |
| Maximum operating pressure | | 1.0 MPa | | |
| Regulating pressure range | | 0.05 to 0.85 MPa | | |
| Relief pressure | | Set pressure + 0.05 MPa (at relief flow rate of 0.1 L/min (ANR)) | | |
| Ambient and fluid temperature | | -5 to 60°C (With no freezing) | | |
| Nominal filtration rating | | 5 μm | | |
| Recommended lubricant | | Class 1 turbine oil (ISO VG32) | | |
| Filter regulator construction | | Relieving type | | |
| Bowl material | | Polycarbonate | | |
| Bowl guard | | Semi-standard | Standard | |
| Sight dome material | | Polycarbonate | | |
| Weight (kg) | | 0.44 | 0.86 | 1.55 |

Attachment/Option Part No.

| Description | | | Attachment/Option part no. | | |
|-------------------------------|--|-----------------|----------------------------|--------------------|---------------------|
| Model | | | ACG20A | ACG30A | ACG40A |
| Pressure gauge ⁽¹⁾ | Standard | 0 to 1.0 MPa | GB2-10AS | GB3-10AS | GB4-10AS |
| | Semi-standard | 0 to 0.3 MPa | GB2-3AS | GB3-3AS | GB4-3AS |
| Option | Float type auto drain ⁽²⁾ | Normally closed | AD27 | AD37 | AD47 |
| | | Normally open | — | AD38 | AD48 |
| Attachment | Spacer | | Y200 | Y300 | Y400 |
| | Spacer with bracket | | Y200T | Y300T | Y400T |
| | Check valve ⁽³⁾ | | AKM2000-□01, (□02) | AKM3000-(□01), □02 | AKM4000-(□02), □03 |
| | Residual pressure relief 3 port valve ⁽⁴⁾ | | VHS20-□01, □02 | VHS30-□02, □03 | VHS40-□02, □03, □04 |

Note 1) Contact SMC regarding the connection thread NPT and pressure gauge supply for psi unit specifications.

Note 2) Minimum operating pressure: 0.1 MPa for N.O. type, 0.1 MPa for N.C. type (AD27) and 0.15 MPa for N.C. type (AD37 and 47). Contact SMC for psi and °F specifications.

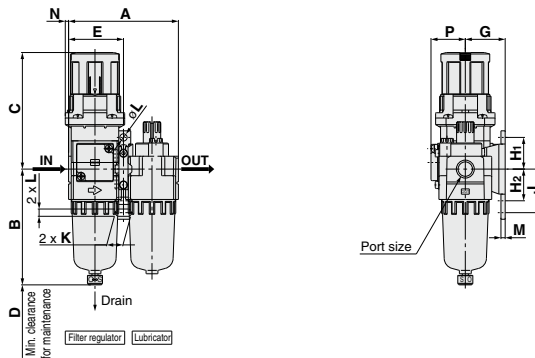
Note 3) For F.R.L. units, port sizes not in () are for standard application.

Note 4) Separate spacers are required for modular unit.

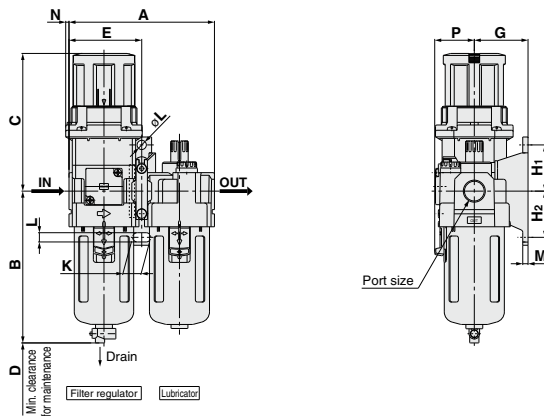
ACG20A/30A/40A Series

Dimensions

ACG20A



ACG30A/40A



| Applicable model | ACG20A | | | | ACG30A/40A | | | | |
|-------------------------------------|------------------------|------------|----------------------------------|-----------------------------|------------|-----------------------------|----------------------------------|------------------------------|--|
| Option/Semi-standard specifications | With auto drain (N.C.) | Metal bowl | With drain guide | With auto drain (N.O./N.C.) | Metal bowl | Metal bowl with level gauge | With drain guide | Drain cock with barb fitting | |
| Dimensions | M5 x 0.8 | | 1/8 Width across flats 17 | | | | 1/4 Width across flats 17 | | |

| Model | Port size | Standard specifications | | | | | | | | | | | | | | |
|--------|---------------|-------------------------|-----|-------|-----|-----|----|------|----|----------------|----------------|----|----|-----|-----|-----|
| | | Bracket mount | | | | | | | | | | | øL | M | | |
| | | A | B | C | D | N | P | E | G | H ₁ | H ₂ | J | | | K | L |
| ACG20A | 1/8, 1/4 | 83 | 87 | 91 | 60 | 2.5 | 26 | 41.5 | 30 | 24 | 24 | 33 | 12 | 5.5 | 5.5 | 3.2 |
| ACG30A | 1/4, 3/8 | 110 | 115 | 108.5 | 80 | 2.5 | 30 | 55 | 41 | 35 | 35 | — | 14 | 7 | 7 | 4 |
| ACG40A | 1/4, 3/8, 1/2 | 145 | 147 | 114.5 | 110 | 0 | 38 | 72.5 | 50 | 40 | 40 | — | 18 | 9 | 9 | 4 |

| Model | Option/Semi-standard specifications ^(Note) | | | | |
|--------|---|-------------------|------------------|------------|-----------------------------|
| | With auto drain | With barb fitting | With drain guide | Metal bowl | Metal bowl with level gauge |
| | B | B | B | B | B |
| ACG20A | 105 | — | 91 | 87 | — |
| ACG30A | 156 | 123 | 122 | 128 | 148 |
| ACG40A | 186 | 155 | 154 | 160 | 180 |

(Note) For the option/semi-standard specifications (with auto drain, with barb fitting, with drain guide, metal bowl, or with level gauge), the total length (B dimension) will vary.

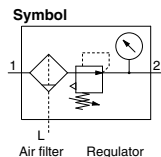
ACG20B/30B/40B Series



ACG20B



ACG40B



Standard Specifications

| Model | | ACG20B | ACG30B | ACG40B |
|-------------------------------|------------|--|------------|-------------------|
| Component | Air filter | AF20 | AF30 | AF40 |
| | Regulator | ARG20 | ARG30 | ARG40 |
| Port size | | 1/8 1/4 | 1/4 3/8 | 1/4 3/8 1/2 |
| Fluid | | Air | | |
| Proof pressure | | 1.5 MPa | | |
| Maximum operating pressure | | 1.0 MPa | | |
| Regulating pressure range | | 0.05 to 0.85 MPa | | |
| Relief pressure | | Set pressure + 0.05 MPa (at relief flow rate of 0.1 L/min (ANR)) | | |
| Ambient and fluid temperature | | -5 to 60°C (With no freezing) | | |
| Nominal filtration rating | | 5 μm | | |
| Regulator construction | | Relieving type | | |
| Bowl material | | Polycarbonate | | |
| Bowl guard | | Semi-standard | Standard | |
| Weight (kg) | | 0.38 | 0.74 | 1.25 |

Attachment/Option Part No.

| Description | | | Attachment/Option part no. | | |
|-------------------------------|--|-----------------|----------------------------|----------------|---------------------|
| Model | | | ACG20B | ACG30B | ACG40B |
| Pressure gauge ⁽¹⁾ | Standard | 0 to 1.0 MPa | GB2-10AS | GB3-10AS | GB4-10AS |
| | Semi-standard | 0 to 0.3 MPa | GB2-3AS | GB3-3AS | GB4-3AS |
| Option | Float type auto drain ⁽²⁾ | Normally closed | AD27 | AD37 | AD47 |
| | | Normally open | — | AD38 | AD48 |
| Attachment | Spacer | | Y200 | Y300 | Y400 |
| | Spacer with bracket | | Y200T | Y300T | Y400T |
| | Pressure switch ⁽³⁾ ₍₄₎ | | IS10M-20 | IS10M-30 | IS10M-40 |
| | Residual pressure relief 3 port valve ⁽³⁾ | | VHS20-□01, □02 | VHS30-□02, □03 | VHS40-□02, □03, □04 |

Note 1) Contact SMC regarding pressure gauge supply for psi unit specifications.

Note 2) Minimum operating pressure: 0.1 MPa for N.O. type, 0.1 MPa for N.C. type (AD27) and 0.15 MPa for N.C. type (AD37 and 47). Contact SMC for psi and °F specifications.

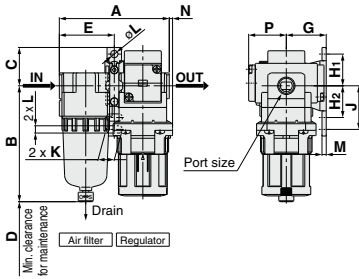
Note 3) Separate spacers are required for modular unit.

Note 4) Pressure switch cannot be mounted on the inlet and outlet sides of an ARG with an upward facing knob (semi-standard specification: -Y).

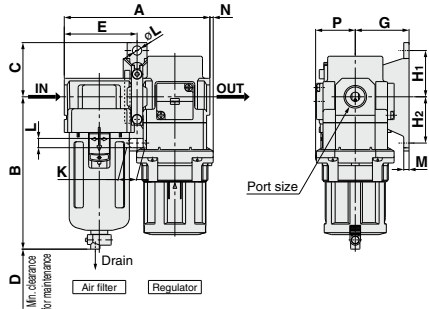
ACG20B/30B/40B Series

Dimensions

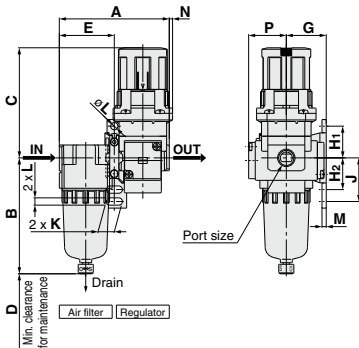
ACG20B Standard Downward facing knob



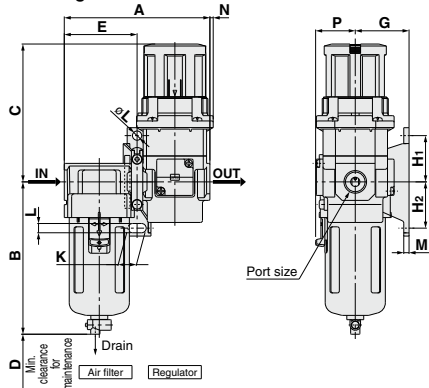
ACG30B/40B Standard Downward facing knob



ACG20B Semi-standard (-Y) Upward facing knob



ACG30B/40B Semi-standard (-Y) Upward facing knob



| Applicable model Option/Semi-standard specifications | ACG20B | | | | ACG30B/40B | | | |
|--|------------------------|------------|------------------|-----------------------------|------------|-----------------------------|------------------|------------------------------|
| | With auto drain (N.C.) | Metal bowl | With drain guide | With auto drain (N.O./N.C.) | Metal bowl | Metal bowl with level gauge | With drain guide | Drain cock with barb fitting |
| Dimensions | | | | | | | | |

| Model | Port size | Standard specifications | | | | | | | | | | | | | | |
|--------|---------------|-------------------------|-----|----|-----|-----|------|------|----|------------------|------------------|------------------|------------------|------------------|------------------|-----|
| | | ACG20B | | | | | | | | | ACG30B/40B | | | | | |
| | | A | B | C | D | N | P | E | G | H ₁ | H ₂ | J | K | L | øL | M |
| ACG20B | 1/8, 1/4 | 83 | 87 | 29 | 60 | 2.5 | 28.5 | 41.5 | 30 | — ⁽¹⁾ | — ⁽¹⁾ | — ⁽¹⁾ | — ⁽¹⁾ | — ⁽¹⁾ | — ⁽¹⁾ | 3.2 |
| ACG30B | 1/4, 3/8 | 110 | 115 | 41 | 80 | 2.5 | 29.5 | 55 | 41 | 35 | 35 | — | 14 | 7 | 7 | 4 |
| ACG40B | 1/4, 3/8, 1/2 | 145 | 147 | 48 | 110 | 0 | 38 | 72.5 | 50 | 40 | 40 | — | 18 | 9 | 9 | 4 |

| Model | Option/Semi-standard specifications | | | | | | | | | | | | | | | |
|--------|-------------------------------------|----------------|----------------|----|----|-----|-----|--------------------------------|----------------------------------|---------------------------------|---------------------------|--|---|---|---|---|
| | Upward facing knob ⁽²⁾ | | | | | | | Bracket mount | | | | | | | | |
| | C | H ₁ | H ₂ | J | K | L | øL | With auto drain ⁽³⁾ | With barb fitting ⁽³⁾ | With drain guide ⁽³⁾ | Metal bowl ⁽³⁾ | Metal bowl with level gauge ⁽³⁾ | B | B | B | |
| ACG20B | 87 | 24 | 24 | 33 | 12 | 5.5 | 5.5 | 105 | — | 91 | 87 | — | — | — | — | — |
| ACG30B | 108.5 | 35 | 35 | — | 14 | 7 | 7 | 156 | 123 | 122 | 128 | 148 | — | — | — | — |
| ACG40B | 114.5 | 40 | 40 | — | 18 | 9 | 9 | 186 | 155 | 154 | 160 | 180 | — | — | — | — |

Note 1) In the case of the ACG20B's standard specification (downward facing knob), the wall mounting is not possible using the lower side mounting hole on the spacer with a bracket. Contact SMC.

Note 2) In the case of the upward facing knob in the semi-standard specification, the C dimension will change. Also, in the case of the ACG20B, wall mounting is possible by using the lower side mounting hole on the spacer with a bracket.

Note 3) For the optional/semi-standard specifications (with auto drain, with barb fitting, with drain guide, metal bowl, or metal bowl with level gauge), the total length (B dimension) will vary.

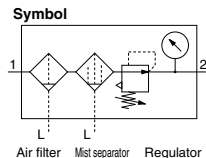
ACG20C/30C/40C Series



ACG20C



ACG40C



Standard Specifications

| Model | | ACG20C | ACG30C | ACG40C |
|---|----------------|---|------------|-------------------|
| Component | Air filter | AF20 | AF30 | AF40 |
| | Mist separator | AFM20 | AFM30 | AFM40 |
| | Regulator | ARG20 | ARG30 | ARG40 |
| Port size | | 1/8 1/4 | 1/4 3/8 | 1/4 3/8 1/2 |
| Fluid | | Air | | |
| Proof pressure | | 1.5 MPa | | |
| Maximum operating pressure | | 1.0 MPa | | |
| Regulating pressure range | | 0.05 to 0.85 MPa | | |
| Rated flow (L/min (ANR)) ⁽¹⁾ | | 200 | 450 | 1100 |
| Relief pressure | | Set pressure + 0.05 MPa (at relief flow rate of 0.1 L/min (ANR)) | | |
| Ambient and fluid temperature | | -5 to 60°C (With no freezing) | | |
| Nominal filtration rating | | AF: 5 μm; AFM: 0.3 μm (Filtration efficiency 99.9 %) | | |
| Outlet side oil mist concentration | | Maximum 1.0 mg/m ³ (ANR) (approx. 0.8 ppm) ⁽²⁾⁽³⁾ | | |
| Regulator construction | | Relieving type | | |
| Bowl material | | Polycarbonate | | |
| Bowl guard | | Semi-standard | Standard | |
| Weight (kg) | | 0.53 | 1.06 | 1.89 |

Note 1) Condition: Mist separator inlet pressure 0.7 MPa. The rated flow varies depending on the inlet pressure. Keep the air flow within the rated flow to prevent an outflow of lubricant to the outlet side.

Note 2) At compressor discharge 30 mg/m³ (ANR).

Note 3) Bowl O-ring and other O-rings are slightly lubricated.

Attachment/Option Part No.

| Description | | | Attachment/Option part no. | | |
|-------------------------------|--|-----------------|----------------------------|----------------|---------------------|
| | | Model | ACG20C | ACG30C | ACG40C |
| Pressure gauge ⁽¹⁾ | Standard | 0 to 1.0 MPa | GB2-10AS | GB3-10AS | GB4-10AS |
| | Semi-standard | 0 to 0.3 MPa | GB2-3AS | GB3-3AS | GB4-3AS |
| Option | Float type auto drain ⁽²⁾ | Normally closed | AD27 | AD37 | AD47 |
| | | Normally open | — | AD38 | AD48 |
| Attachment | Spacer | | Y200 | Y300 | Y400 |
| | Spacer with bracket | | Y200T | Y300T | Y400T |
| | Pressure switch ⁽³⁾ | | IS10M-20 | IS10M-30 | IS10M-40 |
| | Residual pressure relief 3 port valve ⁽³⁾ | | VHS20-□01, □02 | VHS30-□02, □03 | VHS40-□02, □03, □04 |

Note 1) Contact SMC regarding pressure gauge supply for psi unit specifications.

Note 2) Minimum operating pressure: 0.1 MPa for N.O. type, 0.1 MPa for N.C. type (AD27) and 0.15 MPa for N.C. type (AD37 and 47). Contact SMC for psi and °F specifications.

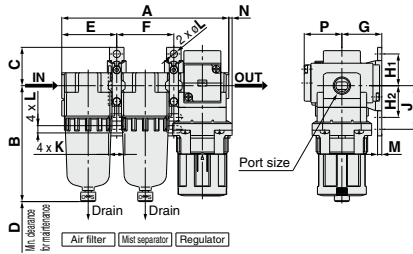
Note 3) Separate spacers are required for modular unit.

Note 4) Pressure switch cannot be mounted on the inlet and outlet sides of an ARG with an upward facing knob (semi-standard specification: -Y).

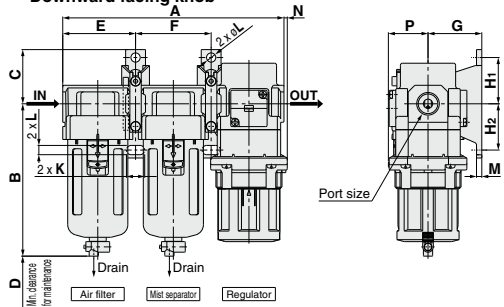
ACG20C/30C/40C Series

Dimensions

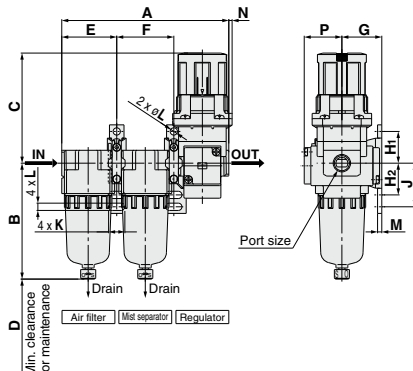
ACG20C Standard Downward facing knob



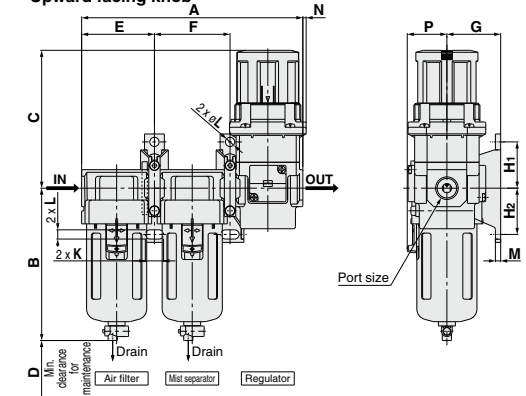
ACG30C/40C Standard Downward facing knob



ACG20C Semi-standard (-Y) Upward facing knob



ACG30C/40C Semi-standard (-Y) Upward facing knob



| Applicable model Option/Semi-standard specifications | ACG20C | | | | ACG30C/40C | | | |
|--|------------------------|------------|------------------|-----------------------------|------------|-----------------------------|------------------|------------------------------|
| | With auto drain (N.C.) | Metal bowl | With drain guide | With auto drain (N.O./N.C.) | Metal bowl | Metal bowl with level gauge | With drain guide | Drain cock with barb fitting |
| Dimensions | | | | | | | | |

| Model | Port size | Standard specifications | | | | | | | | | | | | | | | |
|--------|---------------|-------------------------|-----|----|-----|-----|------|---------------|----|----|----|------------------|------------------|------------------|------------------|-----|-----|
| | | A | B | C | D | N | P | Bracket mount | | | | | | | | | |
| | | E | F | G | H1 | H2 | J | K | L | øL | M | | | | | | |
| ACG20C | 1/8, 1/4 | 126 | 87 | 29 | 60 | 2.5 | 28.5 | 41.5 | 43 | 30 | 24 | — ⁽¹⁾ | — ⁽¹⁾ | — ⁽¹⁾ | — ⁽¹⁾ | 5.5 | 3.2 |
| ACG30C | 1/4, 3/8 | 167 | 115 | 41 | 80 | 2.5 | 30 | 55 | 57 | 41 | 35 | 35 | — | 14 | 7 | 7 | 4 |
| ACG40C | 1/4, 3/8, 1/2 | 220 | 147 | 48 | 110 | 0 | 38 | 72.5 | 75 | 50 | 40 | 40 | — | 18 | 9 | 9 | 4 |

| Model | Option/Semi-standard specifications | | | | | | | | | | | | | |
|--------|-------------------------------------|----|----|----|--------------------------------|----------------------------------|---------------------------------|---------------------------|--|-----|--|--|--|--|
| | Upward facing knob ⁽²⁾ | | | | With auto drain ⁽³⁾ | With barb fitting ⁽³⁾ | With drain guide ⁽³⁾ | Metal bowl ⁽³⁾ | Metal bowl with level gauge ⁽³⁾ | | | | | |
| | C | H2 | J | K | L | B | B | B | B | B | | | | |
| ACG20C | 87 | 24 | 33 | 12 | 5.5 | 105 | — | 91 | 87 | — | | | | |
| ACG30C | 108.5 | 35 | — | 14 | 7 | 156 | 123 | 122 | 128 | 148 | | | | |
| ACG40C | 114.5 | 40 | — | 18 | 9 | 186 | 155 | 154 | 160 | 180 | | | | |

Note 1) In the case of the ACG20C's standard specification (downward facing knob), the wall mounting is not possible using the lower side mounting hole on the spacer with a bracket. Use the upper side mounting hole when wall mounting.

Note 2) In the case of the upward facing knob in the semi-standard specification, the C dimension will change. Also, in the case of the ACG20C, wall mounting is possible by using the lower side mounting hole on the spacer with a bracket.

Note 3) For the option/semi-standard specifications (with auto drain, with barb fitting, with drain guide, metal bowl, or metal bowl with level gauge), the total length (B dimension) will vary.

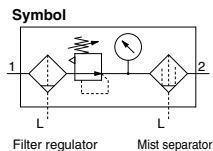
Filter Regulator + Mist Separator

ACG20D/30D/40D Series

ACG20D



ACG40D

**Standard Specifications**

| Model | | ACG20D | ACG30D | ACG40D |
|---|------------------|---|------------|-------------------|
| Component | Filter regulator | AWG20 | AWG30 | AWG40 |
| | Mist separator | AFM20 | AFM30 | AFM40 |
| Port size | | 1/8 1/4 | 1/4 3/8 | 1/4 3/8 1/2 |
| Fluid | | Air | | |
| Proof pressure | | 1.5 MPa | | |
| Maximum operating pressure | | 1.0 MPa | | |
| Regulating pressure range | | 0.05 to 0.85 MPa | | |
| Rated flow (L/min (ANR)) ⁽¹⁾ | | 150 | 330 | 800 |
| Relief pressure | | Set pressure + 0.05 MPa (at relief flow rate of 0.1 L/min (ANR)) | | |
| Ambient and fluid temperature | | -5 to 60°C (With no freezing) | | |
| Nominal filtration rating | | AWG: 5 μm; AFM: 0.3 μm (Filtration efficiency 99.9%) | | |
| Outlet side oil mist concentration | | Maximum 1.0 mg/m ³ (ANR) (approx. 0.8 ppm) ⁽²⁾⁽³⁾ | | |
| Regulator construction | | Relieving type | | |
| Bowl material | | Polycarbonate | | |
| Bowl guard | | Semi-standard | | Standard |
| Weight (kg) | | 0.43 | 0.85 | 1.52 |

Note 1) Condition: Mist separator inlet pressure 0.5 MPa. The rated flow varies depending on the inlet pressure. Keep the air flow within the rated flow to prevent an outflow of lubricant to the outlet side.

Note 2) At compressor discharge 30 mg/m³ (ANR).

Note 3) Bowl O-ring and other O-rings are slightly lubricated.

Attachment/Option Part No.

| Description | | | Attachment/Option part no. | | |
|-------------------------------|--|-----------------|----------------------------|----------------|---------------------|
| Model | | | ACG20D | ACG30D | ACG40D |
| Pressure gauge ⁽¹⁾ | Standard | 0 to 1.0 MPa | GB2-10AS | GB3-10AS | GB4-10AS |
| | Semi-standard | 0 to 0.3 MPa | GB2-3AS | GB3-3AS | GB4-3AS |
| Option | Float type auto drain ⁽²⁾ | Normally closed | AD27 | AD37 | AD47 |
| | | Normally open | — | AD38 | AD48 |
| Attachment | Spacer | | Y200 | Y300 | Y400 |
| | Spacer with bracket | | Y200T | Y300T | Y400T |
| | Residual pressure relief 3 port valve ⁽³⁾ | | VHS20-□01, □02 | VHS30-□02, □03 | VHS40-□02, □03, □04 |

Note 1) Contact SMC regarding pressure gauge supply for psi unit specifications.

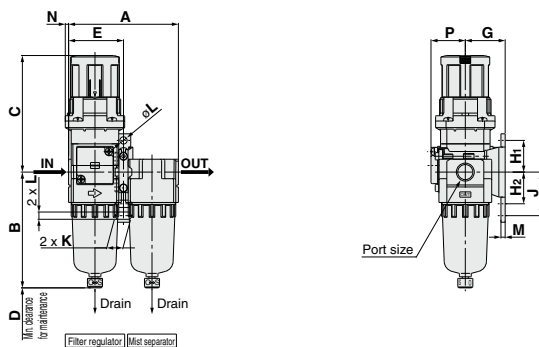
Note 2) Minimum operating pressure: 0.1 MPa for N.O. type, 0.1 MPa for N.C. type (AD27) and 0.15 MPa for N.C. type (AD37 and 47). Contact SMC for psi and °F specifications.

Note 3) Separate spacers are required for modular unit.

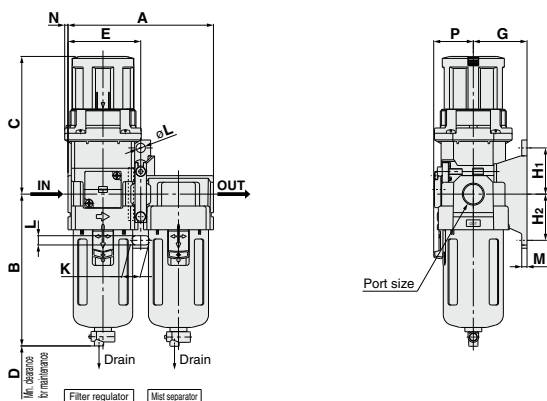
ACG20D/30D/40D Series

Dimensions

ACG20D



ACG30D/40D



| Applicable model Option/Semi-standard specifications | ACG20D | | | ACG30D/40D | | | | |
|--|------------------------|------------|---------------------------------------|---|------------|-----------------------------|---------------------------------------|---|
| | With auto drain (N.C.) | Metal bowl | With drain guide | With auto drain (N.O./N.C.) | Metal bowl | Metal bowl with level gauge | With drain guide | Drain cock with barb fitting |
| Dimensions | B M5 x 0.8 | B | B 1/8 Width across flats 17 | B N.O.: Black N.C.: Gray ø10 One-touch fitting | B | B | B 1/4 Width across flats 17 | B Barb fitting Applicable tubing: T0804 |

| Model | Port size | Standard specifications | | | | | | | | | | | | | | |
|--------|---------------|-------------------------|-----|-------|-----|-----|----|------|----|----------------|----------------|----|------------------------------|-----|-----|-----|
| | | Bracket mount | | | | | | | | | | | Drain cock with barb fitting | | | |
| | | A | B | C | D | N | P | E | G | H ₁ | H ₂ | J | K | L | øL | M |
| ACG20D | 1/8, 1/4 | 83 | 87 | 91 | 60 | 2.5 | 26 | 41.5 | 30 | 24 | 24 | 33 | 12 | 5.5 | 5.5 | 3.2 |
| ACG30D | 1/4, 3/8 | 110 | 115 | 108.5 | 80 | 2.5 | 30 | 55 | 41 | 35 | 35 | — | 14 | 7 | 7 | 4 |
| ACG40D | 1/4, 3/8, 1/2 | 145 | 147 | 114.5 | 110 | 0 | 38 | 72.5 | 50 | 40 | 40 | — | 18 | 9 | 9 | 4 |

| Model | Option/Semi-standard specifications ^(Note) | | | | |
|--------|---|-------------------|------------------|------------|-----------------------------|
| | With auto drain | With barb fitting | With drain guide | Metal bowl | Metal bowl with level gauge |
| | B | B | B | B | B |
| ACG20D | 105 | — | 91 | 87 | — |
| ACG30D | 156 | 123 | 122 | 128 | 148 |
| ACG40D | 186 | 155 | 154 | 160 | 180 |

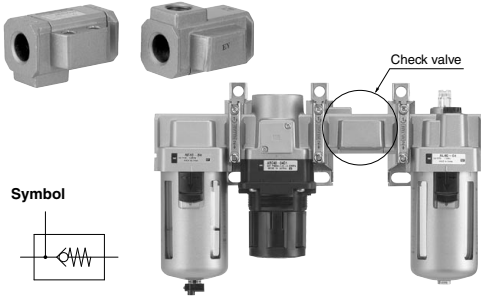
Note) For the option/semi-standard specifications (with auto drain, with barb fitting, with drain guide, metal bowl, or metal bowl with level gauge), the total length (B dimension) will vary.

ACG Series Air Combination Attachments

ROHS

Check Valve (K): 1/8, 1/4, 3/8

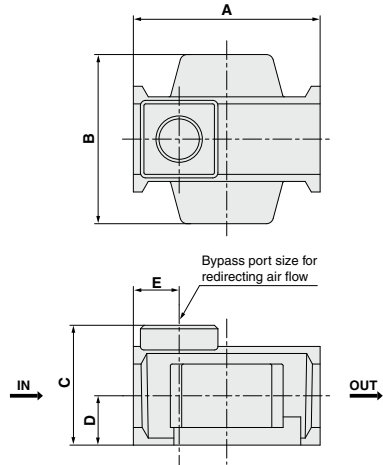
A check valve with intermediate air release port can be easily installed to prevent a back flow of lubricant when redirecting the air flow and releasing the air on the outlet side of the regulator.



Specifications

| Model | Effective area (mm ²) |
|---------|-----------------------------------|
| AKM2000 | 28 |
| AKM3000 | 55 |
| AKM4000 | 111 |

Be sure to use above check valves when redirecting the air flow on the inlet side of the lubricator. Threads for IN and OUT ports are not machined.



| Model | Bypass port size | A | B | C | D | E | Applicable model |
|---------|------------------|----|----|----|----|----|------------------|
| AKM2000 | 1/8, 1/4 | 40 | 40 | 28 | 11 | 11 | ACG20/ACG20A |
| AKM3000 | 1/8, 1/4 | 53 | 48 | 34 | 14 | 13 | ACG30/ACG30A |
| AKM4000 | 1/4, 3/8 | 70 | 54 | 42 | 18 | 15 | ACG40/ACG40A |

* Refer to the Standard Specifications and Attachment on pages 604 or 607 for the standard bypass port size when the check valve is used with ACG.

How to Order

AKM 30 00 - 01

Check valve

Body size

| | | |
|----|----|----|
| 20 | 30 | 40 |
|----|----|----|

Bypass port size for redirecting air flow

| Symbol | Port size | Body size | | |
|--------|-----------|-----------|----|----|
| | | 20 | 30 | 40 |
| 01 | 1/8 | ● | ● | — |
| 02 | 1/4 | ● | ● | ● |
| 03 | 3/8 | — | — | ● |

Thread type

| | |
|-----|-----|
| Nil | Rc |
| N | NPT |
| F | G |

AC-A

AF-A

AF□-A

AR-A

AL-A

AW-A

AC-B

AF-A

AF□-A

AR-B

AL-A

AW-B

AW□

AF□G

E□

AV

AF

ACG Series

Pressure Switch (S)

A compact integrated pressure switch can be easily installed and facilitates the pressure detection of the line.

IS10M-30 - -

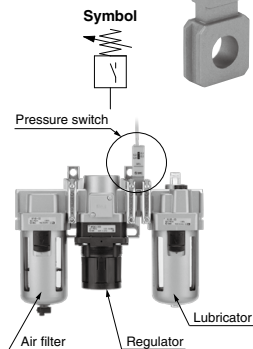
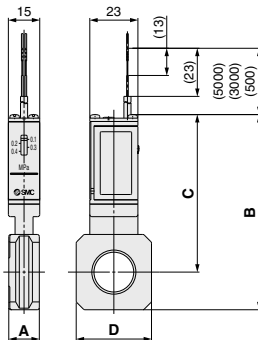
① ②

Semi-standard: Select one each for a to c.
Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
Example) IS10M-30-6LP

| | | Symbol | Description | ① | | | |
|--------------------|----------------------------------|--------------------|-------------|--------------------|----|----|---|
| | | | | Body size | | | |
| | | | | 20 | 30 | 40 | |
| ② Semi-standard | a | Set pressure range | Nil | 0.1 to 0.4 MPa | ● | ● | ● |
| | | | 6 Note 1) | 0.1 to 0.6 MPa | ● | ● | ● |
| | b | Lead wire length | | + | | | |
| | | | Nil | 0.5 m | ● | ● | ● |
| | | | L | 3 m | ● | ● | ● |
| | Z | 5 m | ● | ● | ● | | |
| c | Pressure unit of the scale plate | | + | | | | |
| | | | Nil | MPa | ● | ● | ● |
| | | | P Note 2) | MPa/psi dual scale | ● | ● | ● |

Note 1) Set pressure range of 6P (L, Z) is 0.2 to 0.6 MPa (30 to 90 psi).

Note 2) This product is for overseas use only according to the new Measurement Law.
(The SI unit type is provided for use in Japan.)



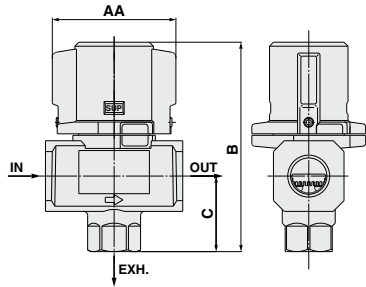
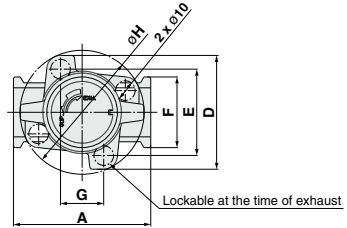
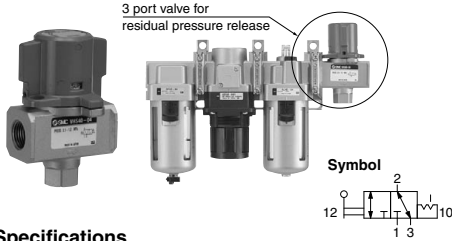
| Model | A | B | C | D | Applicable model |
|----------|----|----|----|----|-----------------------|
| IS10M-20 | 11 | 74 | 64 | 28 | ACG20, ACG20B, ACG20C |
| IS10M-30 | 13 | 85 | 71 | 30 | ACG30, ACG30B, ACG30C |
| IS10M-40 | 15 | 93 | 75 | 36 | ACG40, ACG40B, ACG40C |

Note) Separate spacers are required for modular unit.

Note) For detailed specifications on the IS10 series, please refer to Best Pneumatics No.8.

Pressure Relief 3 Port Valve (V)

With the use of a 3 port valve for residual pressure release, pressure left in the line can be easily exhausted.



Specifications

| Model | Port size | | Effective area (mm ²) (): Effective Area mm ² (Cv) | |
|-------|-----------|------|--|------------|
| | IN,OUT | EXH. | IN → OUT | OUT → EXH. |
| VHS20 | 1/8 | 1/8 | 10 (0.54) | 11 (0.60) |
| | 1/4 | | 14 (0.76) | 16 (0.87) |
| VHS30 | 1/4 | 1/4 | 16 (0.87) | 14 (0.76) |
| | 3/8 | | 31 (1.68) | 29 (1.57) |
| VHS40 | 1/4 | 3/8 | 27 (1.46) | 36 (1.95) |
| | 3/8 | | 38 (2.06) | 40 (2.17) |
| | 1/2 | | 55 (2.98) | 42 (2.28) |

Note) Use an air filter on the IN side for operating protection.

How to Order

VHS 30 - **03** -

Pressure relief
3 port valve

Body size

| Symbol | Applicable model |
|--------|------------------|
| 20 | ACG20 |
| 30 | ACG30 |
| 40 | ACG40 |

Thread type

| | |
|-----|-----|
| Nil | Rc |
| N | NPT |
| F | G |

Port size

| Symbol | Port size | Body size | | |
|--------|-----------|-----------|----|----|
| | | 20 | 30 | 40 |
| 01 | 1/8 | ● | — | — |
| 02 | 1/4 | ● | ● | ● |
| 03 | 3/8 | — | ● | ● |
| 04 | 1/2 | — | — | ● |

| Model | (mm) | | | | | | | | |
|-------|------|----|-----|----|----|----|----|----|----|
| | A | AA | B | C | D | E | F | G | H |
| VHS20 | 40 | 34 | 59 | 20 | 45 | 33 | 28 | — | 45 |
| VHS30 | 53 | 46 | 78 | 29 | 55 | 42 | 30 | — | 55 |
| VHS40 | 70 | 63 | 107 | 39 | 58 | 44 | 36 | 22 | 63 |

Caution

- If a tube, a stop valve or a silencer is connected to the exhaust port of VHS20/30, the effective sectional area should be larger than the figure indicated in the following table, to prevent malfunction caused by back pressure. (This is not applicable to VHS40)

| Model | Effective area (mm ²) |
|-------|-----------------------------------|
| VHS20 | 5 |
| VHS30 | 5 |

Semi-standard

| Code | Description |
|------------------|--|
| R | Flow direction: Right to left |
| Z ⁽¹⁾ | Name plate in imperial units (psi, °F) |

Note 1) Only for the NPT thread.
This product is for overseas use only according to the new Measurement Law. (The SI unit type is provided for use in Japan.)

AC-A

AF-A

AF□-A

AR-A

AL-A

AW-A

AC-B

AF-A

AF□-A

AR□-A

AL-A

AW□-A

AW□

AF□G

E□

AV

AF

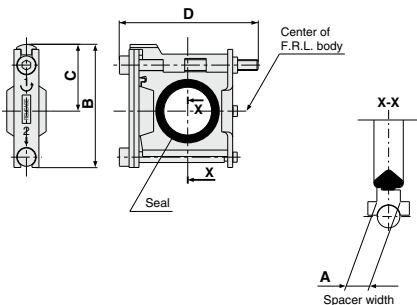
ACG Series Spacers and Brackets Accessories

Spacer



Y200

Y400

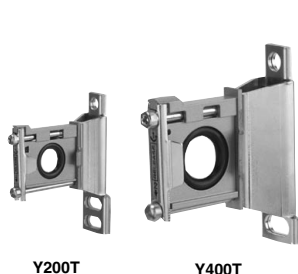


| Model | A | B | C | D | Applicable model |
|-------|---|------|------|----|------------------|
| Y200 | 3 | 35.5 | 18.5 | 48 | ACG20□ |
| Y300 | 4 | 47 | 26 | 59 | ACG30□ |
| Y400 | 5 | 57 | 31 | 65 | ACG40□ |

Replacement Parts

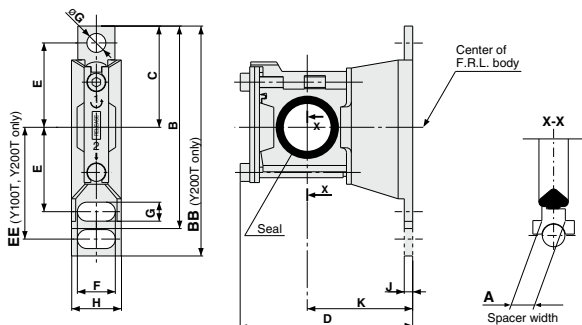
| Description | Material | Part no. | | |
|-------------|----------|------------|------------|------------|
| | | Y200 | Y300 | Y400 |
| Seal | HNBR | Y200P-061S | Y300P-060S | Y400P-060S |

Spacer with Bracket



Y200T

Y400T



| Model | A | B | BB | C | D | E | EE | F | G | øG | H | J | K | Applicable model |
|-------|---|----|----|----|------|----|----|----|-----|-----|----|-----|----|------------------|
| Y200T | 3 | — | 67 | 29 | 53 | 24 | 33 | 12 | 5.5 | 5.5 | 19 | 3.2 | 30 | ACG20□ |
| Y300T | 4 | 82 | — | 41 | 68 | 35 | — | 14 | 7 | 7 | 21 | 4 | 41 | ACG30□ |
| Y400T | 5 | 96 | — | 48 | 81.5 | 40 | — | 18 | 9 | 9 | 26 | 4 | 50 | ACG40□ |

Replacement Parts

| Description | Material | Part no. | | |
|-------------|----------|------------|------------|------------|
| | | Y200T | Y300T | Y400T |
| Seal | HNBR | Y200P-061S | Y300P-060S | Y400P-060S |