

How to Order

AC 30 A F 03 DE KV 12R

F.R.L. unit

Body size

| | | | | | | | |
|----|----|----|----|----|----|----|----|
| 10 | 20 | 25 | 30 | 40 | 50 | 55 | 60 |
|----|----|----|----|----|----|----|----|

Model combination

| Symbol | Combination | | | | |
|--------|-------------|-----------|------------|------------------|----------------|
| | Air filter | Regulator | Lubricator | Filter regulator | Mist separator |
| Nil | ① | ② | ③ | — | — |
| A | — | — | ② | ① | — |
| B | ① | ② | — | — | — |
| C | ① | ③ | — | — | ② |
| D | — | — | — | ① | ② |

* The number inside ○ indicates the combination order counted from the inlet side.

Thread type

| | |
|-----------|---------------------------|
| Nil | Metric system thread (M5) |
| | Rc |
| N Note 1) | NPT |
| F Note 2) | G |

Note 1) Drain guide is NPT1/4 (applicable to AC25 to 60), and the exhaust port for auto drain comes with ø3/8" One-touch fitting (applicable to AC25 to 60).

Note 2) Drain guide is G1/4 (applicable to AC25 to 60).

Port size

| Symbol | Port size | Body size | | | | | | | |
|--------|-----------|-----------|----|----|----|----|----|----|----|
| | | 10 | 20 | 25 | 30 | 40 | 50 | 55 | 60 |
| M5 | M5 | ● | — | — | — | — | — | — | — |
| 01 | 1/8 | — | ● | — | — | — | — | — | — |
| 02 | 1/4 | — | ● | ● | ● | ● | — | — | — |
| 03 | 3/8 | — | — | ● | ● | ● | — | — | — |
| 04 | 1/2 | — | — | — | — | ● | — | — | — |
| 06 | 3/4 | — | — | — | — | ● | ● | — | — |
| 10 | 1 | — | — | — | — | — | ● | ● | ● |

Accessories

| Symbol | Description | Applicable model |
|----------------------|---|------------------|
| Nil | — | — |
| C | Float type auto drain (N.C.) ^{Note 1)} | AC10□ to 60□ |
| D | Float type auto drain (N.O.) ^{Note 1)} | AC25□ to 60□ |
| E | With square embedded type pressure gauge (with limit indicator) | AC20□ to 60□ |
| G ^{Note 2)} | With round pressure gauge (without limit indicator) | AC10□ |
| | With round pressure gauge (with limit indicator) | AC20□ to 60□ |

Note 1) Applicable tube O.D for auto drain connection should be ø3/8" in case NPT thread port is chosen.

Note 2) Mounting thread for pressure gauge:
1/16 for AC10; 1/8 for AC20 to 30; 1/4 for AC40 to 60
Pressure gauge is not mounted and is supplied loose at the time of shipment.

Optional specifications

| Symbol | Description | Applicable model |
|----------------------|--|------------------|
| 1 ^{Note 1)} | 0.02 to 0.2MPa setting | AC10□ to 60□ |
| 2 | Metal bowl | AC10□ to 60□ |
| 3 | Lubricator with drain cock | AC10□ to 60□ |
| 6 | Nylon bowl | AC10□ to 60□ |
| 8 | Metal bowl with level gauge | AC25□ to 60□ |
| C | With bowl guard | AC25□ to 60□ |
| J ^{Note 2)} | Drain guide 1/4 | AC10□ to 60□ |
| N | Non-relieving type | AC10□ to 60□ |
| R | Flow direction: Right to left | AC10□ to 60□ |
| W | Drain cock with barb fitting: ø6 x ø4 nylon tube | AC25□ to 60□ |
| Z ^{Note 3)} | Name plate, caution plate for bowl, and pressure gauge in imperial units (PSI, °F) | AC10□ to 60□ |

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

Note 1) The only difference from the standard specifications is the adjusting spring for the regulator. It does not restrict the setting of 0.2MPa or more.

Note 2) Without a valve function.

Note 3) For thread types M5 and NPT. This product is for overseas use only according to the new Measurement Law. (The SI unit type is provided for use in Japan.) Pressure switch comes with a dual unit scale in SI (MPa) and imperial (PSI) units.

Attachments

| Symbol | Description | Attachment mounting position | Applicable model | Port size for intermediate air release |
|--------|--|------------------------------|------------------|---|
| Nil | None | — | — | — |
| K | Check valve | AF + AR + [K] + AL | AC20 to 40 | AC20□: 1/8 AC25□: 1/4 AC30□: 1/4 AC40□: 3/8 |
| | | AW + [K] + AL | AC20A to 40A | |
| S | Pressure switch | AF + AR + [S] + AL | AC20 to 60 | — |
| | | AW + [S] + AL | AC20A to 40A | |
| | | AF + [S] + AR | AC20B to 60B | |
| | | AF + AFM + [S] + AR | AC20C to 40C | |
| T | T-interface | AF + [T] + AR + AL | AC10 to 60 | AC10□: M5 x 0.8 AC20□: 1/8 AC25□: 1/4 AC30□: 1/4 AC40□: 3/8 AC50□: 3/8 AC55□: 1/2 AC60□: 1/2 |
| | | AF + [T] + AR | AC10B to 60B | |
| | | AF + AFM + [T] + AR | AC20C to 40C | |
| V | 3-port valve for residual pressure release | AF + AR + AL + [V] | AC20 to 50 | — |
| | | AW + AL + [V] | AC20A to 40A | |
| | | AF + AR + [V] | AC20B to 50B | |
| | | AF + AFM + AR + [V] | AC20C to 40C | |
| | | AW + AFM + [V] | AC20D to 40D | |

* When more than one attachment is required, order in alphabetical order.
* Piping adapter, pressure switch with piping adapter, and cross interface need to be ordered separately.

* Contact SMC when using a pressure switch and T-interface together for AC□B.

* The bracket position varies depending on the T-interface or pressure switch mounting.

Refer to the table on page 19 for standard bracket position.