

## 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
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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)

Note 1) The number inside ( ) indicates the combination order counted from the inlet side.

Thread type

Nil	Metric system thread (M5)
	Rc
N (2)	NPT
F (3)	G

Note 2) Drain guide is NPT 1/4 (applicable to AC25 to 60), and the exhaust port for auto-drain comes with  $\phi 3/8$ " One-touch fitting (applicable to AC25 to 60).

Note 3) Drain guide is G 1/4 (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	—	—	—	—	—	—	●	●

Accessory

Symbol	Description	Applicable model
Nil	—	—
C	Float type auto-drain (N.C.) (4)	AC10□ to 60□
D	Float type auto-drain (N.O.) (4)	AC25□ to 60□
E	With square embedded type pressure gauge (With limit indicator)	AC20□ to 60□
G (5)	With round pressure gauge (Without limit indicator)	AC10□
	With round pressure gauge (With limit indicator)	AC20□ to 60□

Note 4) Applicable tubing O.D for auto-drain connection should be  $\phi 3/8$ " in case NPT thread port is chosen.

Note 5) 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.

Option

Symbol	Description	Applicable model
1 (11)	0.02 to 0.2 MPa 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 (12)	Drain guide 1/4	AC10□ to 60□
N	Non-relieving type	AC10□ to 60□
R	Flow direction: Right → Left	AC10□ to 60□
W	Drain cock with barb fitting: $\phi 6 \times \phi 4$ nylon tubing	AC25□ to 60□
Z (13)	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 11) The only difference from the standard specifications is the adjusting spring for the regulator. It does not restrict the setting of 0.2 MPa or more.

Note 12) Without a valve function.

Note 13) 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.

Attachment

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	
		AW + [S] + AFM	AC20D to 40D	
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	Residual pressure relief 3 port valve	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	
V1	Residual pressure relief 3 port valve	[V] + AF + AR□K	AC20B to 50B	—
		[V] + AF + AFM + AR□K	AC20C to 40C	
		[V] + AW□K + AFM	AC20D to 40D	

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

Note 7) Piping adapter, pressure switch with piping adapter, and cross interface need to be ordered separately.

Note 8) Please contact SMC when using a pressure switch and T-interface together for AC□B.

Note 9) The bracket position varies depending on the T-interface or pressure switch mounting. Refer to the table on page 14-2-30 for standard bracket position.

Note 10) With this combination, regulators and filter regulators will be "with back flow function" type.

For safety, check that the outlet pressure is exhausted and is atmospheric pressure by pressure gauge.