

# Series AR10 to AR60

# Series AR20K to AR60K

## Options/Part No.

Option		Model	AR10	AR20(K)	AR25(K)	AR30(K)	AR40(K)	AR40(K)-06	AR50(K)	AR60(K)	
Bracket assembly <sup>Note 1)</sup>			AR10P-270AS	AR20P-270AS	AR25P-270AS	AR30P-270AS	AR40P-270AS		AR50P-270AS <sup>Note 2)</sup>		
Set nut			AR10P-260S	AR20P-260S	AR25P-260S	AR30P-260S	AR40P-260S		___ <sup>Note 3)</sup>	___ <sup>Note 3)</sup>	
Pressure gauge	<sup>Note 4)</sup> Round type	Standard	G27-10-R1	G36-10-□01			G46-10-□02				
		0.02 to 0.2 MPa setting	G27-10-R1 <sup>Note 5)</sup>	G36-2-□01			G46-2-□02				
	<sup>Note 4)</sup> Round type (with color zone)	Standard	—	G36-10-□01-L			G46-10-□02-L				
		0.02 to 0.2 MPa setting	—	G36-2-□01-L			G46-2-□02-L				
	<sup>Note 6)</sup> Square embedded type	Standard	—	GC3-10AS [GC3P-010AS (Pressure gauge cover only)]							
		0.02 to 0.2 MPa setting	—	GC3-2AS [GC3P-010AS (Pressure gauge cover only)]							
Digital pressure switch		NPN output: Wiring bottom entry	—	ISE35-N-25-MLA [ISE35-N-25-M (Switch body only)] <sup>Note 7)</sup>							
		NPN output: Wiring top entry		ISE35-R-25-MLA [ISE35-R-25-M (Switch body only)] <sup>Note 7)</sup>							
		PNP output: Wiring bottom entry		ISE35-N-65-MLA [ISE35-N-65-M (Switch body only)] <sup>Note 7)</sup>							
		PNP output: Wiring top entry		ISE35-R-65-MLA [ISE35-R-65-M (Switch body only)] <sup>Note 7)</sup>							

Note 1) Assembly of a bracket and set nuts

Note 2) Assembly of a bracket and 2 mounting screws

Note 3) Please consult with SMC regarding the set nuts for the AR50(K) and AR60(K).

Note 4) □ in part numbers for a round pressure gauge indicates a type of connection thread. No indication is necessary for R; however, indicate N for NPT. Please contact SMC regarding the connection thread NPT and pressure gauge supply for psi unit specifications.

Note 5) Pressure gauge for general purpose

Note 6) Including one O-ring and 2 mounting screws. [ ]: Pressure gauge cover only

Note 7) Lead wire with connector (2 m), adapter, lock pin, O-ring (1 pc.), mounting screw (2 pcs.) are attached. [ ]: Switch body only

Also, regarding how to order the digital pressure switch, please refer to page 388.

## ⚠ Specific Product Precautions

**Be sure to read before handling. Refer to front matters 42 and 43 for Safety Instructions and pages 287 to 291 for F.R.L. Precautions.**

### Selection

#### ⚠ Warning

1. Residual pressure disposal (outlet pressure removal) is not possible for the AR20 to AR60 even though the inlet pressure is exhausted. When the residual pressure disposal is performed, use the regulator with a backflow function (AR20K to AR60K).

### Maintenance

#### ⚠ Warning

1. When using the regulator with backflow function between a solenoid valve and an actuator, check the pressure gauge periodically. Sudden pressure fluctuations may shorten the durability of the pressure gauge. A digital pressure gauge is recommended for such situation or as deemed necessary.

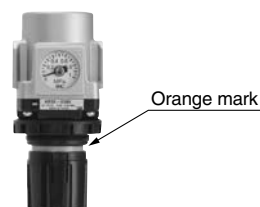
### Mounting and Adjustment

#### ⚠ Warning

1. Set the regulator while verifying the displayed values of the inlet and outlet pressure gauges. Turning the regulator knob excessively can cause damage to the internal parts.
2. The pressure gauge included with regulators for 0.02 to 0.2 MPa setting is for up to 0.2 MPa use only (except the AR10). Exceeding 0.2 MPa of pressure can damage the gauge.
3. Do not use tools on the pressure regulator knob as this may cause damage. It must be operated manually.

#### ⚠ Caution

1. Be sure to unlock the knob before adjusting the pressure and lock it after setting the pressure. Failure to follow this procedure can cause damage to the knob and the outlet pressure may fluctuate.
  - Pull the pressure regulator knob to unlock. (You can visually verify this with the "orange mark" that appears in the gap.)
  - Push the pressure regulator knob to lock. When the knob is not easily locked, turn it left and right a little and then push it (when the knob is locked, the "orange mark", i.e., the gap will disappear).



2. A knob cover is available to prevent careless operation of the knob. Refer to page 389 for details.