Model	AR20-A	AR25-A	AR30-A	AR40-A	AR40-06-A		
Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8	1/4, 3/8, 1/2	3/4		
Pressure gauge port size	1/8						
Fluid	Air						
Ambient and fluid temperature	− 5 to 60°C (with no freezing)						
Proof pressure	1.5 MPa						
Maximum operating pressure	1.0 MPa						
Set pressure range	0.05 to 0.7 MPa						
Construction	Relieving type						
Weight (kg)	0.17	0.19	0.34	0.58	0.60		

Options/Part No.

Ontional appoifications		Model						
Optional specifications			AR20-A	AR25-A	AR30-A	AR40-A	AR40-06-A	
Bracket assembly Note 1)			AR22P-270AS	AR27P-270AS	AR32P-270AS	AR42P-270AS	AR42P-270AS	
Set nu	ıt		AR22P-260S	AR22P-260S	AR32P-260S	AR42P-260S	AR42P-260S	
Pressure gauge	Round Note 2)	Standard	G36-10-□01			G46-10-□01		
	type	0.02 to 0.2 MPa setting	G36-4-□01			G46-4-□01		
	Round type	Standard	G36-10-□01-L			G46-10-□01-L		
	(with color zone)	0.02 to 0.2 MPa setting	G36-4-□01-L			G46-4-□01-L		

Note 1) Assembly of a bracket and set nuts

Note 2) 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.

⚠ Specific Product Precautions

Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC I Products" (M-E03-3) and the Operation Manual for F.R.L. Precautions.

Please download it via our website, http://www.smcworld.com

Selection

⚠ Warning

1. Although exhaust of the residual pressure to the inlet side is possible when eliminating the inlet pressure, exhaust is not possible when the set pressure is 0.15 MPa or less. Use the regulator with backflow function.

Maintenance

⚠ Warning

1. When using the regulator 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

\land Warning

- 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. 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. Pulsation will be generated when the difference between the inlet and the outlet pressure is large. In this case, reduce the pressure difference between the inlet and the outlet. Consult SMC if the pulsation problem is not resolved.

AW+AL

AF+AR



Series AW20-A to AW40-A

Options/Part No.

opinion and the								
Optional specifications			Model					
			AW20-A	AW30-A	AW40-A	AW40-06-A		
Bracket assembly Note 1)			AR22P-270AS	AR32P-270AS	AR42P-270AS			
Set nut			AR22P-260S	AR32P-260S	AR42P-260S			
Pressure gauge	Round type Note 2)	Standard	G36-10-□01		G46-10-□01			
		0.02 to 0.2 MPa setting	G36-4	1-□01	G46-4-□01			
	Round type Note 2)	Standard	G36-10-□01-L		G46-10-□01-L			
	(with color zone)	0.02 to 0.2 MPa setting	G36-4-□01-L		G46-4-□01-L			
Float type auto drain		N.C.	AD27-A	AD37-A	AD4	17-A		
		N.O.	_	AD38-A	AD4	18-A		

Semi-standard/Bowl Assembly Part No.

Semi-standard specifications				Model					
Bowl material		3) Note 4) type drain	Note 4) With drain guide	With barb	With bowl guard	AW20-A	AW30-A	AW40-A	AW40-06-A
	N.C.	N.O.							
Polycarbonate	_	_	_	_		C2SF-C-A	_	_	
	•	_	_	_	•	AD27-C-A	_	_	
	_	_		_	_	C2SF-J-A	C3SF-J-A	C4SF-J-A	
	_	_	_	•	_	_	C3SF-W-A	C4SF-W-A	
	_	_		_	•	C2SF-CJ-A	_	_	

Note 1) Assembly of a bracket and set nuts

Note 2) 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 3) Minimum operating pressure: N.O. type–0.1 MPa; N.C. type–0.1 MPa (AD27-A) and 0.15 MPa (AD37-A/47-A).

Please consult with SMC separately for psi and °F unit display specifications.

Note 4) Please consult SMC for details on drain piping to fit NPT or G port sizes. The bowl assembly includes the bowl O-ring.