Modular F.R.L. **Pressure Control Equipment**

	acement of Elements, Inspection Items		p. 291
			p. 292
3 Construction/Repl	acement Parts	Replacement Parts	Replacement Procedure
AC-D	Air Combination	p. 295	p. 553
AF20-D to AF60-D	Air Filter	p. 296	p. 556
AFM20-D to AFM40-D	Mist Separator	p. 297	p. 563
AFD20-D to AFD40-D	Micro Mist Separator	p. 297	p. 563
AR20-D to AR60-D	Regulator	p. 298	p. 568
AR20K-D to AR60K-D	Regulator with Backflow Function	p. 298	p. 568
AR20M-D to AR40M-D	Common Supply Regulator	p. 299	p. 575
AR20MK-D to AR40MK-D	Common Supply Regulator with Backflow Function	p. 299	
AL20-D to AL60-D	Lubricator	p. 300	-
W20-D to AW60-D	Filter Regulator	p. 301	p. 592
W20K-D to AW60K-D	Filter Regulator with Backflow Function	p. 301	p. 592
AWM20-D to AWM40-D	Mist Separator Regulator	p. 303	p. 592
WD20-D to AWD40-D	Micro Mist Separator Regulator	p. 303	p. 592
AC-A	Air Combination	p. 304	p. 608
AC-B	Air Combination	p. 305	_
ACG-B	Air Combination	p. 306	_
ARG20-B to ARG40-B	Regulator with Built-in Pressure Gauge	p. 308	_
ARG20K-B to ARG40K-B	Regulator with Built-in Pressure Gauge with Backflow Function	p. 308	—
WG20-B to AWG40-B	Filter Regulator with Built-in Pressure Gauge	p. 309	_
WG20K-B to AWG40K-B	Filter Regulator with Built-in Pressure Gauge with Backflow Function	p. 309	_
ACG	Air Combination	p. 310	
AF10-A to AF60-A	Air Filter	p. 312	p. 611
AFM20-A to AFM40-A	Mist Separator	p. 313	
AFD20-A to AFD40-A	Micro Mist Separator	p. 313	
AR10-A to AR40-A	Regulator	-	p. 630
AR20-B to AR60-B	Regulator	p. 315	
AR20K-B to AR60K-B	Regulator with Backflow Function		p. 637
AL10-A to AL60-A	Lubricator	p. 316	-
AW10-A to AW40-A	Filter Regulator	p. 317	
AW20-B to AW60-B	Filter Regulator	p. 318	-
W20K-B to AW60K-B	Filter Regulator with Backflow Function	p. 318	
AWM20 to AWM40	Mist Separator Regulator	p. 319	
AWD20 to AWD40	Micro Mist Separator Regulator		p. 684
ARG20(K)/30(K)/40(K)	Regulator with Built-in Pressure Gauge	p. 320	
AWG20/30/40	Filter Regulator with Built-in Pressure Gauge	p. 321	
AWG20K/30K/40K	Filter Regulator with Built-in Pressure Gauge with Backflow Function		_
AR425 to 935	Pilot Operated Regulator	p. 323	p. 703
AMR3000 to 6000	MR Unit (Regulator with Mist Separator)	p. 324	
ARM5A	Compact Manifold Regulator/Centralized Supply Type	p. 325	
ARM5B	Compact Manifold Regulator/Individual Supply Type	p. 326	
ARM5S	Regulator/Single Unit Type		p. 708
ARM10	Regulator/Single Unit Type	p. 328	-
ARM11A	Compact Manifold Regulator/Common Supply Type		p. 712
ARM11B	Compact Manifold Regulator/Individual Supply Type		p. 712
ARM11A/B	Compact Manifold Regulator/Options	-	p. 712

Actuators

5

AF40-04-A MAX PRESS LOMPA OSMC MADE IN CHINA CO

Rotary Actuators Air Grippers

odular F.R.L. ressure Control Equipment

Industrial Filters | Air Preparation

Replacement Procedure

Rotary Actuators Air Grippers

Air Preparation Equipment Modular F.R.L. Industrial Filters

1 Indication of Replacement of Elements, Inspection Items

The following describes the general contents of the element replacement and regular check.

Indication of replacement of air filter, inspection items

Replacement standards

<Element replacement>

The differential pressure (pressure drop) between the primary side and secondary side reaches 0.1 MPa. Even when any pressure differential does not occur, replace the element every two years.

Inspection items

1) Checking of external leak or case crack

If the case is cracked, this may lead to a serious accident, such as case rupture. So, replace the case immediately and locate the cause. If the case is contaminated significantly and the internal status cannot be checked, clean the case with neutral detergent. At this time, never use solvent or machine cleaning solution.

2) Functional inspection of drain discharge mechanism

Check that the drain mechanism functions correctly without fail and that the drain is discharged periodically for manual type.

If the drain is produced excessively, a trouble may occur in the purification equipment on the upstream side.

Probable troubles (Reference)

Refer to the "Troubleshooting" for air filter/auto drain. (p. 292)

Regulator inspection items

Inspection items

Check the set pressure level before starting up the equipment. If the set pressure level is beyond the specified range, locate the cause.

(Be sure to locate the cause before starting the readjustment.) Additionally, check the following points during periodic inspection.

- 1) Functional inspection and grease-up of the valve body (including the valve guide)
- 2) Functional inspection and grease-up of the valve spring Check for rust, breakage, or permanent settling.
- 3) Checking of setting function and relief function (Check the functions by increasing or decreasing the setting.)

@SMC

Probable troubles (Reference)

Refer to the "Troubleshooting" for regulator. (p. 293)

Lubricator inspection items

Inspection items

- ① Inspection of dripping volume: Inspect this item when starting the equipment operation.
- (2) Check the oil status inside the case. Check for drain entry.
- ③ Check for air leak inside the case or air backflow on the secondary side.

Probable troubles (Reference)

Refer to the "Troubleshooting" for lubricator. (p. 294)

2 Troubleshooting

The following describes the general contents of the troubleshooting.

[Air Filter/Auto Drain]

Air Filter/Auto Dra Trouble (Symptom)	Cause	Corrective action	ctuat
The pressure drop is large and the specified flow rate cannot be	1. The element is clogged.	1. Replace the element.	Rotary Actuators Air Grippers
obtained.			quipment
The air leaks from the portion between the bowl and body.	1. The bowl O-ring is damaged.	 Replace the bowl O-ring. Apply the grease to the bowl O-ring, and then assemble it into the bowl. 	Modular F.R.L. Pressure Control Equipment
The air leaks from the bowl.	1. The bowl is damaged.	1. Replace the bowl assembly or replace the bowl with a metallic bowl.	Air Preparation Equipment
The air leaks from the drain cock.	1. A foreign object is caught in the valve of the drain cock.	1. Open the drain cock for several sec- onds to blow out the foreign object.	Air Pre
	2. The drain cock seat is damaged.	2. Replace the bowl assembly.	liters
The drain is not dis- charged even when the drain cock is opened.	1. The discharge port of the drain cock is clogged with solid foreign object.	1. Replace the bowl assembly.	Industrial Filters
An excessive amount	1. The drain level exceeds the baffle.	1. Open the drain cock to discharge the	
of drain is discharged to the pipe at the outlet.		drain, and then replace the element.	Replacement Procedure

Actuators

Actuators

Air Preparation Equipment | Modular F.R.L. Industrial Filters

2 Troubleshooting

The following describes the general contents of the troubleshooting.

[Regulator]

Trouble (Symptom)	Cause	Corrective action
The pressure cannot be regulated.	1. The regulator is installed in a direction opposite to the flow direction.	1. Check the flow direction. If the installation direction is opposite to the flow direction, reinstall the regulator.
	2. The spring is broken.	2. Replace the spring.
	3. The valve spring is broken.	3. Replace the valve spring.
	 A foreign object is caught in the valve seat or valve O-ring. 	 Remove the valve guide, and then clean the valve, valve seat, and valve O-ring. At this time, apply the grease to the valve O-ring and sliding part after cleaning.
	5. The rubber lining surface of the valve is damaged.	5. Replace the valve.
	6. A foreign object is caught in the check valve seat. (AR20K to AR60K)	6. Replace the check valve assembly.
The set pressure level does not become zero (0) even when the knob is loosened.	 A foreign object is caught in the valve seat or valve O-ring. 	 Remove the valve guide, and then clean the valve, valve seat, and valve O-ring. At this time, apply the grease to the valve O-ring and sliding part after cleaning.
	2. The rubber seat surface of the valve is damaged.	2. Replace the valve.
	3. The valve spring is broken.	3. Replace the valve spring.
	4. The valve is locked.	4. Clean the sliding surface of the valve O- ring and apply the grease.
	5. A foreign object is caught in the check valve seat. (AR20K to AR60K)	5. Replace the check valve assembly.
The air leaks from the	1. The diaphragm is damaged.	1. Replace the diaphragm assembly.
exhaust port in the bonnet.	2. The piston seal is damaged.	 Replace the piston assembly or clean it. At this time, apply the grease to the piston seal and sliding surface.
	 A foreign object is caught in the exhaust valve seat. 	3. Clean the exhaust valve seat or replace the diaphragm assembly.
	 A foreign object is caught in the valve seat or valve O-ring. 	 Remove the valve guide, and then clean the valve, valve seat, and valve O-ring. At this time, apply the grease to the valve O-ring and sliding part after cleaning.
	5. The rubber sheet surface of the valve is damaged.	5. Replace the valve.
	6. The back pressure exceeding the set pressure level is applied to the secondary side.	6. Review the air circuit so that the back pressure exceeding the set pressure level is not applied.
	7. A foreign object is caught in the check valve seat. (AR20K to AR60K)	7. Replace the check valve assembly.
202		

[Regulator]

Trouble (Symptom)	Cause	Corrective action	
The air leaks from the	1. The bonnet screw is loose.	1. Retighten the bonnet screw.	
portion between the bonnet and body.	2. The diaphragm is damaged.	2. Replace the diaphragm assembly.	
The air does not flow backward.	1. A foreign object is caught in the sliding part of the check valve, causing malfunc- tion. (AR20K to AR60K)	1. Replace the check valve assembly.	
	2. The check valve is locked. (AR20K to AR60K)	2. Replace the check valve assembly.	

[Lubricator]

[Lubricator]			Air Preparation Equipment
Trouble (Symptom)	Cause	Corrective action	
The oil does not drop even when the air flows.	1. The equipment is not connected correctly.	1. Check the "IN", "OUT", and arrow marks on the equipment. If any incorrect connection is found, connect the equipment again.	Industrial Filters
	2. The oil volume inside the bowl is insufficient.	2. Supply the oil.	Indust
	3. The air consumption flow rate is insufficient.	 Select an appropriate lubricator with a minimum dripping flow rate suitable for the flow rate to be used. 	Replacement Procedure
	4. The damper is damaged.	4. Replace the damper (assembly).	eplace
	5. The oil adjustment valve is closed. 5. Open the oil adjustment valve.		
	6. The air leaks from the bowl or lubrication plug.6. Replace the case O-ring or lubrication plug assembly.		Actuators
	7. The element is clogged.	7. Replace the damper pushing air assembly.	Act
	8. The air leaks from the sight dome.	8. Replace the sight dome assembly.	2 2
Air bubbles are mixed in the oil drop.	1. The oil passage pipe seal is damaged.	1. Replace the damper retainer air assembly.	Rotary Actuators Air Grippers
in the on drop.	2. The oil volume inside the bowl is insufficient.	2. Supply the oil.	tary A Gripp
The air or oil leaks	1. The sight dome is damaged.	1. Replace the sight dome assembly.	Air
from the sight glass.	2. The O-ring is damaged.	2. Replace the sight dome assembly.	luipment
The air leaks from the lubrication plug.	1. The O-ring is damaged.	1. Replace the lubrication plug assembly.	Modular F.R.L. Pressure Control Equipment
The air leaks from the portion between the bowl and body.	1. The bowl O-ring is damaged.	 Replace the bowl O-ring. Apply the grease to the bowl O-ring and assemble it into the bowl. 	
The air leaks from the bowl	1. The bowl is damaged.	1. Replace the bowl assembly or replace the bowl with a metallic bowl.	Air Preparation Equipment Industrial Filters



Actuators

Rotary Actuators Air Grippers

Modular F.R.L. Pressure Control Equipment

Air Combination AC-D Series



Air Filter + Regulator + Lubricator AC20-D to AC60-D

Options/Accessories/Part Nos.

				Options/Accessories/part nos.						
			For AC20-D	For AC30-D	For AC40-D	For AC40-06-D	For AC50-D	For AC60-D		
Castian			Model	For AC20A-D	For AC30A-D	For AC40A-D	For AC40A-06-D	For AC50A-D	For AC60A-D	
Section				For AC20B-D	For AC30B-D	For AC40B-D	For AC40B-06-D	For AC50B-D	For AC60B-D	
	Desc	cription		For AC20C-D	For AC30C-D	For AC40C-D	For AC40C-06-D	—	—	
		hption		For AC20D-D	For AC30D-D	For AC40D-D	For AC40D-06-D	—	—	
		Bound type	Standard	G36-1	0-🗆01		G46-1	0-□01		
		Round type	0.02 to 0.2 MPa setting	G36-4-□01		G46-4-□01				
	*1 Pressure	*1 Round type	Standard	G36-10	-□01-L	G46-10-□01-L				
	gauge	(with color zone)	0.02 to 0.2 MPa setting	G36-4-	-□01-L	G46-4-□01-L				
	gauge	Square	Standard		GC3-10AS-D [136150A (Pressure gauge cover only)]					
Option		embedded type*2	0.02 to 0.2 MPa setting		GC3-4AS-D [136150A (Pressure gauge cover only)]					
Option			NPN output, Wiring bottom entry	ISE35-N-25-MLA-X523 [ISE35-N-25-M (Switch body only)]*3						
	Digital	pressure	NPN output, Wiring top entry	ISE35-R-25-MLA-X523 [ISE35-R-25-M (Switch body only)]*3						
	switch	1	PNP output, Wiring bottom entry		ISE35-N-65	-MLA-X523 [ISE35	5-N-65-M (Switch b	ody only)] ^{*3}		
			PNP output, Wiring top entry	ISE35-R-65-MLA-X523 [ISE35-R-65-M (Switch body only)]*3						
	Float t	уре	N.C.	AD27-D	AD37-D		AD4	7-D		
	auto d	rain*4	N.O.	_	AD38-D		AD4	-8-D		
A	Space	r		Y200-D	Y300-D	Y400-D	Y500-D	Y60)0-D	
Accessory	Space	r with bracke	t	Y200T-D	Y300T-D	Y400T-D	Y500T-D	Y60	0T-D	

*1 🗆 in part numbers for a round type pressure gauge indicates a pipe thread type. 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.

*2 Including an O-ring and 2 mounting screws

*3 Lead wire with connector (2 m), adapter, lock pin, O-ring (1 pc.), mounting screws (2 pcs.) are attached. []: Switch body only Regarding how to order the digital pressure switch, refer to the Web Catalog.

*4 Min. operating pressure: N.O. type-0.1 MPa; N.C. type-0.1 MPa (AD27-D) and 0.15 MPa (AD37-D/AD47-D). Please contact SMC separately for psi and °F unit display specifications.

Spacer / Spacer with Bracket

Replacement Parts/Part Nos.

		Model							
Description	Material	Y200-D Y200T-D	Y300-D Y300T-D	Y400-D Y400T-D	Y500-D Y500T-D	Y600-D Y600T-D			
Seal	HNBR	Y220P-050S	Y320P-050S	Y420P-050S	Y520P-050S	Y620P-050S			

Air Filter AF20-D to AF60-D The Replacement Procedure is on р. **556**

Bowl Assembly/Part Nos.

Bowl	Drain discharge	Drain port	Other	Model				
material	mechanism	Drain port	Other	AF20-D	AF30-D	AF40-D AF40-06-D AF50-D AF60-D		
		With drain cock	—	C2SF-D	—	<u> </u>		
	with train cock	With bowl guard	C2SF-C-D	C3SF-D	C4SF-D			
	Manual	Drain cock with barb fitting	With bowl guard	—	C3SF-W-D	C4SF-W-D		
Polycarbonate		With drain guide	_	C2SF□-J-D	—	—		
oiycaiboliale		(without valve function)	With bowl guard	C2SF□-CJ-D	C3SF□-J-D	C4SF□-J-D		
	Automatic*1	Normally closed (N.C.)	_	AD27-D	—	—		
	(Auto drain)	,	With bowl guard	AD27-C-D	AD37□-D	AD47□-D		
	(Auto urain)	Normally open (N.O.)	With bowl guard	—	AD38□-D	AD48□-D		
		With drain cock	_	C2SF-6-A	—	_		
		with train cock	With bowl guard	C2SF-6C-A	C3SF-6-D	C4SF-6-D		
	Manual	Drain cock with barb fitting	With bowl guard	—	C3SF-6W-D	C4SF-6W-D		
Nylon		With drain guide	C2SF□-6J-A	—	_			
NyION		(without valve function)	With bowl guard	C2SF□-6CJ-A	C3SF□-6J-D	C4SF□-6J-D		
	Automatic*1		—	AD27-6-A	—	—		
	(Auto drain)		With bowl guard	AD27-6C-A	AD37□-6-D	AD47□-6-D		
	(Auto urain)	Normally open (N.O.)	With bowl guard	—	AD38□-6-D	AD48□-6-D		
		With drain cock	—	C2SF-2-A	C3SF-2-A	C4SF-2-A		
	Manual	WITH UTAIN COCK	With level gauge	—	C3LF-8-A	C4LF-8-A		
	wanuar	With drain guide	—	C2SF -2J-A	C3SF□-2J-A	C4SF□-2J-A		
Metal		(without valve function)	With level gauge	—	C3LF□-8J-A	C4LF⊡-8J-A		
wetai		Normally closed (N.C.)	_	AD27-2-A	AD37□-2-A	AD47□-2-A		
	Automatic*1	Normany closed (N.C.)	With level gauge	—	AD37□-8-A	AD47□-8-A		
	(Auto drain)	Normally open (N.O.)		—	AD38□-2-A	AD48□-2-A		
(Normany open (N.O.)	With level gauge	_	AD380-8-A	AD480-8-A			

*1 The bowl assembly comes with a bowl seal.

□ in bowl assembly part numbers indicates a pipe thread type (applicable tubing for auto drain).

No indication is necessary for Rc thread; however, indicate N for NPT thread, and F for G thread. (For auto drain, Nil: ø10, N: ø3/8") Please contact SMC separately for psi and °F unit display specifications.

Options/Part Nos.

Optional	Model							
specifications	AF20-D	AF30-D	AF40-D	AF40-06-D	AF50-D	AF60-D		
Bracket	AF24P-	AF34P-	AF44P-	AF49P-	AF54P-070AS			
assembly*1	070AS	070AS	070AS	070AS				
Auto drain		Refer to "Bowl Assembly/Part Nos."						

*1 The assembly of a bracket A/B and 2 mounting screws

Replacement Parts/Part Nos.

Description	Model							
Description	AF20-D	AF30-D	AF40-D	AF40-06-D	AF50-D	AF60-D		
Filter element	AF20P-	AF30P-	AF40P-060S		AF50P-	AF60P-		
Filler element	060S	060S		0003	060S	060S		
Baffle	AF24P-	AF34P-	AF44P-040S		AF54P-	AF64P-		
Dame	040S	040S			040S	040S		
Bowl seal	C2SFP-	C32FP-	C42FP-260S					
DOWI Seal	260S	260S						
Bowl assembly ^{*1, *2}	Refer to "Bowl Assembly/Part Nos."							

*1 The bowl assembly comes with a bowl seal

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



kotary Actuators Air Grippers

Actuators

Air Preparation Equipment

Industrial Filters

Replacement Procedure

Actuators

Rotary Actuators Air Grippers

Pressure Control Equipment Modular F.R.L.

Air Preparation Equipment Industrial Filters

Micro Mist Separator Mist Separator AFM20-D to AFM40-D AFD20-D to AFD40-D

The Replacement Procedure is on p. 563

Bowl Assembly/Part Nos.

Bowl	Drain discharge					del
material	mechanism	Drain port	Other	AFM20-D/AFD20-D	AFM30-D/AFD30-D	AFM40-D/AFD40-D AFM40-06-D/AFD40-06-D
		With drain cock	—	C2SF-D	_	_
	Manual	With Grain Cock	With bowl guard	C2SF-C-D	C3SF-D	C4SF-D
		Drain cock with barb fitting	With bowl guard	—	C3SF-W-D	C4SF-W-D
Dolycorhonato		With drain guide	—	C2SF□-J-D	—	_
Polycarbonate	(without valve function)	With bowl guard	C2SF□-CJ-D	C3SF□-J-D	C4SF□-J-D	
	Automatic*1	Normally closed (N.C.)	—	AD27-D	—	—
		Normally closed (N.C.)	With bowl guard	AD27-C-D	AD37🗆-D	AD47□-D
	(Auto drain)	Normally open (N.O.)	With bowl guard	—	AD38□-D	AD48□-D
		With drain cock	—	C2SF-6-A	—	—
		With drain cock	With bowl guard	C2SF-6C-A	C3SF-6-D	C4SF-6-D
	Manual	Drain cock with barb fitting	With bowl guard	—	C3SF-6W-D	C4SF-6W-D
Nylon		With drain guide	—	C2SF□-6J-A	—	—
NyIOII		(without valve function)	With bowl guard	C2SF□-6CJ-A	C3SF□-6J-D	C4SF□-6J-D
	Automatic*1	Normally closed (N.C.)	—	AD27-6-A	_	_
	(Auto drain)		With bowl guard	AD27-6C-A	AD37🗆-6-D	AD47□-6-D
	(Auto urain)	Normally open (N.O.)	With bowl guard	—	AD38□-6-D	AD48□-6-D
		With drain cock	—	C2SF-2-A	C3SF-2-A	C4SF-2-A
	Manual	With drain cock	With level gauge	_	C3LF-8-A	C4LF-8-A
	Manual	With drain guide		C2SF□-2J-A	C3SF□-2J-A	C4SF□-2J-A
Metal		(without valve function)	With level gauge	—	C3LF□-8J-A	C4LF□-8J-A
metal		Normally closed (N.C.)	_	AD27-2-A	AD37🗆-2-A	AD47□-2-A
	Automatic*1	Normany Closed (N.C.)	With level gauge	_	AD370-8-A	AD470-8-A
	(Auto drain)	Normally open (N.O.)	_	_	AD380-2-A	AD48□-2-A
		Normally Open (N.O.)	With level gauge	_	AD38□-8-A	AD48□-8-A

*1 The bowl assembly comes with a bowl seal.
in bowl assembly part numbers indicates a pipe thread type (applicable tubing for auto drain). No indication is necessary for Rc thread; however, indicate N for NPT thread, and F for G thread. (For auto drain, Nil: ø10, N: ø3/8") Please contact SMC separately for psi and °F unit display specifications.

Options/Part Nos.

	Model						
Optional specifications	AFM20-D AFD20-D	AFM30-D AFD30-D	AFM40-D AFD40-D	AFM40-06-D AFD40-06-D			
Bracket assembly*1	AF24P-070AS	AF34P-070AS	AF44P-070AS	AF49P-070AS			
Auto drain	Refer to "Bowl Assembly/Part Nos."						

*1 The assembly of a bracket A/B and 2 mounting screws

Replacement Parts/Part Nos.

		Model						
Des	cription	AFM20-D AFD20-D	AFM30-D AFD30-D	AFM40-D AFD40-D	AFM40-06-D AFD40-06-D			
Element	AFM20 to 40-D	AFM20P-060AS	AFM30P-060AS	AFM40P-060AS				
assembly	AFD20 to 40-D	AFD20P-060AS	AFD30P-060AS	AFD40P-060AS				
Bowl sea	seal C2SFP-260S		C32FP-260S	C42FP-260S				
Bowl ass	embly ^{*1, *2}	Refer to "Bowl Assembly/Part Nos."						

*1 The bowl assembly comes with a bowl seal.
*2 Please contact SMC separately for psi and °F unit display specifications.



Regulator **Regulator with Backflow Function** AR20-D to AR60-D AR20K-D to AR60K-D The



Options/Part Nos.

					M	odel		
C	Optional specifica	ations	AR20(K)-D	AR30(K)-D	AR40(K)-D	AR40(K)-06-D	AR50(K)-D	AR60(K)-D
Bracket as	sembly*1		AR23P-270AS	AR33P-270AS	AR43F	270AS	AR54P	-270AS
Set nut			AR23P-260S	AR33P-260S	AR43	P-260S		*2
		Standard	G36-1	0-□01		G46-1	0-🗆01	
Round type		0.02 to 0.2 MPa setting	G36-4	G36-4-□01		G46-4-□01		
D	Round type	Standard	G36-10)-□01-L		G46-10	-□01-L	
Pressure gauge*3 (with color zone)		0.02 to 0.2 MPa setting	G36-4-□01-L			G46-4-□01-L		
Square	Standard		GC3-10AS-D [136150A (Pressure gauge cover only)]					
•		0.02 to 0.2 MPa setting	GC3-4AS-D [136150A (Pressure gauge cover only)]					
	NPN output, Wiring bottom entry		ISE35-N-25-MLA-X523 [ISE35-N-25-M (Switch body only)]*5					
Digital pressure switch Wiring top entry PNP output, Wiring bottom entry		NPN output, Wiring top entry	ISE35-R-25-MLA-X523 [ISE35-R-25-M (Switch body only)]*5					
		ISE35-N-65-MLA-X523 [ISE35-N-65-M (Switch body only)]*5						
PNP output, Wiring top entry			ISE35-R-65-MLA-X523 [ISE35-R-65-M (Switch body only)] ^{∞5}					
82 Please con 83 □ in part ni	act SMC regarding umbers for a round p	the set nuts for the A	AR50(K)-D and AR60 ates a pipe thread ty)(K)-D.		and 2 mounting screv ever, indicate N for NF		MC regarding the

*3 🗆 in part numbers for a round pressure gauge indicates a pipe thread type. No indication is necessary for R; however, indicate N for NPT. Please contact SMC regarding the pressure gauge supply for both MPa and psi unit specifications.

*4 Including an O-ring and 2 mounting screws. []: Pressure gauge cover only

*5 In addition to the pressure switch body, lead wire with connector (2 m), adapter, lock pin, O-ring (1 pc.), mounting screws (2 pcs.) are attached.

[]: Switch body only (For the digital pressure switch specifications, refer to the Web Catalog.)

AR20(K)-D to AR40(K)-06-D AR50(K)-D/AR60(K)-D Set nut Regulator Bracket Bracket B Regulator Bracket A Bracket Bracket Mounting screw assembly assembly **Replacement Parts/Part Nos.**

Deser	intion			Ма	del			
Description		AR20(K)-D	AR30(K)-D	AR40(K)-D	AR40(K)-06-D	AR50(K)-D	AR60(K)-D	
Valve assemb	sembly AR24P-060AS		AR34P-060AS	AR44P-060AS	AR49P-060AS	AR54P-060AS	AR64P-060AS	
Diaphragm	Relieving type	AR24P-150AS	AR34P-150AS	AR44P-150AS		AR54P-150AS		
assembly	Non-relieving type	AR24P-150AS-N	AR34P-150AS-N	AR44P-150AS-N		AR54P-150AS-N		
Valve guide a	ssembly	AR24P-050AS	IP-050AS AR34P-050AS AR44P-050AS AR54P-05		-050AS			
Check valve assembly*1			AR24KP-020AS					

*1 The check valve assembly is applicable for a regulator with backflow function (AR20K-D to AR60K-D) only. The assembly of a check valve cover, check valve body assembly, and 2 mounting screws

1

Industrial Filters

Replacement Procedure

Actuators

Common Supply Regulator Common Supply Regulator with Backflow Function AR20M-D to AR40M-D AR20MK-D to AR40MK-D The Replacement

Procedure is on р. **575**

Options/Part Nos.

	Ontional anapi	finationa	Model				
	Optional speci	lications	AR20M(K)-D	AR30M(K)-D	AR40M(K)-D		
Bracket ass	embly ^{*1}		AR23P-270AS	AR33P-270AS	AR43P-270AS		
Set nut			AR23P-260S	AR33P-260S	AR43P-260S		
Round type		Standard	G36-1	0-□01	G46-10-□01		
Pressure Round type gauge*2 (with color zone)	0.02 to 0.2 MPa setting	G36-4-□01		G46-4-□01			
	Standard	G36-10-□01-L		G46-10-□01-L			
	0.02 to 0.2 MPa setting	G36-4-□01-L		G46-4-⊡01-L			
	Square embedded	Standard	GC3-10AS-E	e cover only)]			
	type*3	0.02 to 0.2 MPa setting	GC3-4AS-D [136150A (Pressure gauge cover only)]				
	NPN output, Wiring bot		ISE35-N-25-MLA-X523 [ISE35-N-25-M (Switch body only)]*4				
Digital pressure switch		NPN output, Wiring top entry	ISE35-R-25-ML/	A-X523 [ISE35-R-25-M (Swit	tch body only)]*4		
Digital press	sure switch	PNP output, Wiring bottom entry	ISE35-N-65-MLA-X523 [ISE35-N-65-M (Switch body only)]*4				
		PNP output, Wiring top entry	ISE35-R-65-MLA-X523 [ISE35-R-65-M (Switch body only)]*4				

*1 The assembly of a bracket and set nuts

*2 🗆 in part numbers for a round pressure gauge indicates a pipe thread type. No indication is necessary for R; however, indicate N for NPT. Please contact SMC regarding the pressure gauge supply for psi unit specifications.

*3 Including an O-ring and 2 mounting screws. []: Pressure gauge cover only

*4 In addition to the pressure switch body, lead wire with connector (2 m), adapter, lock pin, O-ring (1 pc.), and mounting screws (2 pcs.) are attached. []: Switch body only (Regarding how to order the digital pressure switch, refer to the Web Catalog.)

Replacement Parts/Part Nos.

D	accription	Model					
De	escription	AR20M(K)-D	AR30M(K)-D	AR40M(K)-D			
Valve assembly	Without backflow function	AR24P-060AS	AR34P-060AS	AR44P-060AS			
valve assembly	With backflow function	AR24KP-560AS	AR34KP-560AS	AR44KP-560AS			
Diaphragm	Relieving type	AR24P-150AS	AR34P-150AS	AR44P-150AS			
assembly	Non-relieving type	AR24P-150AS-N	AR34P-150AS-N	AR44P-150AS-N			
Valve guide assembly		AR24P-050AS	AR34P-050AS	AR44P-050AS			

Lubricator AL20-D to AL60-D The Replacement Procedure is on р. **581**

Bowl Assembly/Part Nos.

Bowl	Lubricant exhaust	Other			MC	del			
material	port	Outer	AL20-D	AL30-D	AL40-D AL40-06-D AL50-D AL60-D			AL60-D	S
Without drain cock		—	C2SL-D	—		-	_		ato
	without drain cock	With bowl guard	C2SL-C-D	C3SL-D	C4SL-D				Actuators
Polycarbonate	With drain cock	—	C2SL-3-D	—	_				
Polycarboliale	With Grain Cock	With bowl guard	C2SL-3C-D	C3SL-3-D		C4SI	3-D		
	Drain cock with barb fitting	With bowl guard	_	C3SL-3W-D	C4SL-3W-D				Rotary Actuators Air Grippers
	Without drain cook	—	C2SL-6-A	—	_				Actu
	Without drain cock	With bowl guard	C2SL-6C-A	C3SL-6-D	C4SL-6-D				ry /
Nylon	With drain cock	—	C2SL-36-A	—	—				ir C
NyION	With Grain Cock	With bowl guard	C2SL-36C-A	C3SL-36-D	C4SL-36-D				(EA
	Drain cock with barb fitting	With bowl guard	_	C3SL-36W-D	-D C4SL-36W-D			Modular F.R.L. Pressure Control Equipment	
	Without drain cock	—	C2SL-2-A	C3SL-2-A		C4SI	2-A		L. trol E
Metal	Without drain cock	With level gauge	—	C3LL-8-A		C4LL	8-A		r F.R. e Con
weta	With drain cock	_	C2SL-23-A	C3SL-23-A		C4SL	-23-A		odula
		With level gauge		C3LL-38-A		C4LL	-38-A		Ξ.L

*1 The bowl assembly comes with a bowl seal. Please contact SMC separately for psi and °F unit display specifications.

Options/Part Nos.

Bracket AE24D 070AS AE24D 070AS AE44D 070AS AE44D 070AS	
	L60-D
assembly*1 AI 24F-070A3 AI 34F-070A3 AI 44F-070A3 AI 49F-070A3 AI 49F-070A3	0AS

*1 The assembly of a bracket A/B and 2 mounting screws

Replacement Parts/Part Nos.

Description		Model								
Description	AL20-D	AL30-D	AL40-D	AL40-06-D	AL50-D	AL60-D				
Sight dome assembly			AL20P	-080AS						
Lubrication plug assembly	AL24P-060AS	AL34P-060AS	AL44P-060AS							
Damper retainer assembly	AL20P-030AS	AL30P-030AS	AL40P-030AS AL54P-030AS AL60P-030AS							
Damper	AL20P-040S	AL30P-040S	AL44P-040S AL60P-040AS							
Bowl seal	C2SFP-260S	C32FP-260S	S C42FP-260S							
Bowl assembly*1, *2	Refer to "Bowl Assembly/Part Nos."									

*1 The bowl assembly comes with a bowl seal.
 *2 Please contact SMC separately for psi and °F unit display specifications.



assembly



Air Preparation Equipment

Air Preparation Equipment

Industrial Filters

Filter Regulator Filter Regulator with Backflow Function Filter Regulator Filter Regulator with Backflow AW20-D to AW60-D AW20K-D to AW60K-D The Replacement Procedure is on

Options/Part Nos.

	Ontional apositiontic		Model					
	Optional specification	ons	AW20(K)-D	AW30(K)-D	AW40(K)-D	AW40(K)-06-D	AW60(K)-D	
Bracket as	sembly*1		AW23P-270AS	AR33P-270AS	AR43P-270AS AR54		AR54P-270AS	
Set nut			AR23P-260S	AR33P-260S	AR43F	P-260S	<u>_*2</u>	
		Standard	G36-1	0-□01		G46-10-□01		
Round type		0.02 to 0.2 MPa setting	G36-4-□01		G46-4-□01			
D	Designed to us a	Standard	G36-10	-□01-L	G46-10-□01-L			
Pressure gauge*3 Round type (with color zone)	0.02 to 0.2 MPa setting	G36-4-□01-L		G46-4-□01-L				
	0	Standard	GC3-10AS-D [136150A (Pressure gauge cover only)]					
Square embedded type ^{*4}	0.02 to 0.2 MPa setting	GC3-4AS-D [136150A (Pressure gauge cover only)]						
			ISE35-N-25-MLA-X523 [ISE35-N-25-M (Switch body only)]*5					
Digital pressure switch		NPN output, Wiring top entry	ISE35-R-25-MLA-X523 [ISE35-R-25-M (Switch body only)]*5					
		PNP output, Wiring bottom entry	ISE35-N-65-MLA-X523 [ISE35-N-65-M (Switch body only)]*5					
			ISE35-R-65-MLA-X523 [ISE35-R-65-M (Switch body only)]*5				*5	

*1 The assembly of a bracket and set nuts

*2 For the AW60(K)-D, the assembly includes a bracket A/B and 2 mounting screws. Please contact SMC regarding the set nuts for the AW60(K)-D.

*3 🗆 in part numbers for a round type pressure gauge indicates a pipe thread type. No indication is necessary for R; however, indicate N for NPT. Please contact SMC regarding the pressure gauge supply for both MPa and psi unit specifications.

*4 Including an O-ring and 2 mounting screws. [] Pressure gauge cover only
 *5 In addition to the pressure switch body, lead wire with connector (2 m), adapter, lock pin, O-ring (1 pc.), mounting screws (2 pcs.) are attached.

[]: Switch body only (Regarding how to order the digital pressure switch, refer to the Web Catalog.)

AW20(K)-D to AW40(K)-06-D





Bracket assembly

AW60(K)-D



assembly

p. 592

Filter Regulator with Backflow Function **Filter Regulator** AW20-D to AW60-D AW20K-D to AW60K-D The Replacement

Procedure is on p. 592

Replacement Parts/Part Nos.

Deee	vintion			Model			ſ
Desc	ription	AW20(K)-D	AW30(K)-D	AW40(K)-D	AW40(K)-06-D	AW60(K)-D	LS.
Valve assemb	ly	AW24P-060AS	AW34P-060AS	AS AW44P-060AS AW49P-060AS		AW64P-060AS	ato
Filter element		AF20P-060S	AF30P-060S	AF40P-060S		AW60P-060S	Actuator
Baffle		AF24P-040S	AF34P-040S	AF44F	AF44P-040S		4
Diaphragm	Relieving type	AR24P-150AS	AR34P-150AS AR44P-150AS		AR54P-150AS	LIS	
assembly	Non-relieving type	AR24P-150AS-N	AR34P-150AS-N	AR44P-	150AS-N	AR54P-150AS-N	Actuator: pers
Bowl seal	C2SFP-260S C32FP-260S C42FP-260S			ry /			
Bowl assembl	wl assembly*1, *2 Refer to "Bowl Assembly/Part Nos."			Rotary Ac Air Grippe			
Check valve a	ssembly ^{*3}			AR24KP-020AS			<u></u>

Bowl Assembly/Part Nos.

Bowl	sembly/Pau Drain discharge	Drain port	Other			Model			
material	mechanism	Diamport	Other	AW20-D	AW30-D	AW40-D	W40-D AW40-06-D AW60		
		With drain cock	h drain cock — C2SF-D —		_		_		
			With bowl guard	C2SF-C-D	C3SF-D		C4SF-D		
	Manual	Drain cock with barb fitting	With bowl guard	—	C3SF-W-D	C4SF-W-D			
olvoarbonato		With drain guide	—	C2SF□-J-D	_		—		
Polycarbonate		(without valve function)	With bowl guard	C2SF□-CJ-D	C3SF□-J-D	C4SF□-J-D			
		Normally closed	—	AD27-D	_		_		
	Automatic*1	(N.C.)	With bowl guard	AD27-C-D	AD37□-D		AD47□-D		
		Normally open (N.O.)	With bowl guard	—	AD38□-D	AD48□-D			
	Manual	With drain cock	—	C2SF-6-A	—		—		
		With Grain Cock	With bowl guard	C2SF-6C-A	C3SF-6-D		C4SF-6-D		
		Drain cock with barb fitting	With bowl guard	_	C3SF-6W-D	C4SF-6W-D			
Nulan		With drain guide	—	C2SF□-6J-A	_		_		
Nylon		(without valve function)	With bowl guard	C2SF□-6CJ-A	C3SF□-6J-D		C4SF□-6J-D		
		Normally closed	—	AD27-6-A	_				
	Automatic*1	(N.C.)	With bowl guard	AD27-6C-A	AD37□-6-D		AD47□-6-D		
(Auto drain)		Normally open (N.O.)	With bowl guard	_	AD38□-6-D	AD48□-6-D			
		With drain and	—	C2SF-2-A	C3SF-2-A		C4SF-2-A		
	Manual	With drain cock	With level gauge	_	C3LF-8-A		C4LF-8-A		
	Manual	With drain guide		C2SF□-2J-A	C3SF□-2J-A		C4SF□-2J-A		
Motal		(without valve function)	With level gauge	—	C3LF□-8J-A		C4LF□-8J-A		
Metai	Metal	Normally closed	—	AD27-2-A	AD37□-2-A		AD47□-2-A		
	Automatic*1	(N.C.)	With level gauge	—	AD37□-8-A	AD47□-8-A			
	(Auto drain)	Normally open			AD38□-2-A		AD48□-2-A		
. ,	(N.O.)	With level gauge	_	AD380-8-A		AD480-8-A			

□ in bowl assembly part numbers indicates a pipe thread type (applicable tubing for auto drain).

No indication is necessary for Rc thread; however, indicate N for NPT thread, and F for G thread. (For auto drain, Nil: ø10, N: ø3/8") Please contact SMC separately for psi and °F unit display specifications.

Modular F.R.L. Pressure Control Equipment

Mist Separator Regulator **Micro Mist Separator Regulator** AWM20-D to AWM40-D AWD20-D to AWD40-D The

Replacement Procedure is on p. 592

Options/Part Nos.

	Ontional ana sificatio		Model				
	Optional specification	ms	AWM20-D/AWD20-D	AWM30-D/AWD30-D	AWM40-D/AWD40-D		
Bracket as	sembly*1		AW23P-270AS AR33P-270AS		AR43P-270AS		
Set nut			AR23P-260S	AR33P-260S	AR43P-260S		
		Standard	G36-1	0-□01	G46-10-□01		
		0.05 to 0.2 MPa setting	G36-4	ŀ- □01	G46-4-□01		
D	Design of the set	Standard	G36-10	-□01-L	G46-10-□01-L		
Square	(with color zone)	0.05 to 0.2 MPa setting	G36-4-	G46-4-⊡01-L			
	Causana	Standard	GC3-10AS-D [136150A (Pressure gauge cover only)]				
	embedded type ^{*3}	0.05 to 0.2 MPa setting	GC3-4AS	over only)]			
Digital pressure switch PNP output, Win bottom entry PNP output, Win bottom entry		NPN output, Wiring bottom entry	ISE35-N-25-MLA-X523 [ISE35-N-25-M (Switch body only)]*4				
		NPN output, Wiring top entry	ISE35-R-25-MLA-X523 [ISE35-R-25-M (Switch body only)]*4				
		PNP output, Wiring bottom entry	ISE35-N-65-MLA-X523 [ISE35-N-65-M (Switch body only)]*4				
		PNP output, Wiring top entry	ISE35-R-65-MLA-X523 [ISE35-R-65-M (Switch body only)]*4				

*1 The assembly of a bracket and set nuts

*2 🗆 in part numbers for a round type pressure gauge indicates a pipe thread type. No indication is necessary for R; however, indicate N for NPT. Please contact SMC regarding the pressure gauge supply for both MPa and psi unit specifications.

*3 Including an O-ring and 2 mounting screws. []: Pressure gauge cover only

*4 In addition to the pressure switch body, lead wire with connector (2 m), adapter, lock pin, O-ring (1 pc.), mounting screws (2 pcs.) are attached.
[]: Switch body only (Regarding how to order the digital pressure switch, refer to the Web Catalog.)

AWM20 to 40-D, AWD20 to 40-D





Bracket assembly

Replacement Parts/Part Nos.

	escription		Model				
L	escription	AWM20-D/AWD20-D	AWM30-D/AWD30-D	AWM40-D/AWD40-D			
Valve assembly		AWM24P-090AS	AWM34P-090AS	AWM44P-090AS			
Element	AWM	AFM20P-060AS	AFM30P-060AS	AFM40P-060AS			
assembly	AWD	AFD20P-060AS	AFD30P-060AS	AFD40P-060AS			
Diaphragm	Relieving type	AR24P-150AS	AR34P-150AS	AR44P-150AS			
assembly	Non-relieving type	AR24P-150AS-N	AR34P-150AS-N	AR44P-150AS-N			
Bowl seal		C2SFP-260S	C32FP-260S	C42FP-260S			
Bowl assembly*1, *2		Refer to "Bowl Assembly/Part Nos."					

*1 The bowl assembly comes with a bowl seal.

*2 Please contact SMC separately for psi and °F unit display specifications.

Air Combination AC-A Series



Actuators

Air Filter + Regulator + Lubricator AC10-A to AC40-A

Options/Attachments/Part Nos.

					ments part nos.				
	Model	AC10-A	AC20-A	AC25-A	AC30-A	AC40-A	AC40-06-A	_	
	INIODEI	AC10A-A	AC20A-A	—	AC30A-A	AC40A-A	AC40A-06-A	_	
		AC10B-A	AC20B-A	AC25B-A	AC30B-A	AC40B-A	AC40B-06-A	_	
Туре		—	AC20C-A	AC25C-A	AC30C-A	AC40C-A	AC40C-06-A		
		—	AC20D-A	—	AC30D-A	AC40D-A	AC40D-06-A	-	
Dound tu	Standard	G27-10-R1		G36-10-□01		G46-1	0-□01		
Round type Standard 0.02 to 0.2 MPa setting Round type Standard		G27-10-R1 Note 2)		G36-4-🗆01		G46-4	1-□01	_	
Se Round type	Standard	—	G36-10-□01-L		G46-10		_		
홑 (with color zone) 0.02 to 0.2 MPa setting		—		G36-4-□01-L		G46-4-		_	
Spacer			Y400-A	Y500-A	_				
Spacer	with bracket	Y100T-A	Y200T-A	Y30	0T-A	Y400T-A	Y500T-A	_ (
Chook	alve Note 3, 4)	_	AKM2000-D01-A	AKM3000	D-(□01)-A	AKM4000-(□02)-A		- (
			(□02)-A		□02-A	□03-A			
Pressur	re switch Note 4)	—	IS10M-20-A	IS10N	1-30-A	IS10M-40-A	IS10M-50-A		
Tanaaa	r Note 3, 4)	Y110-M5-A	Y210-□01-A	Y310-(□01)-A	Y410-(□02)-A	Y510-(□02)-A		
I-space		A-CIVI-111	(□02)-A		□02-A	□03-A	□03-A		
Pressur	ro roliof			VHS20-□01A VHS30-□02A □02A		□02A		_	
	alve Note 4)	_				VHS40-□03A	VHS40-□06A		
5 port v	alve ,					□04A		_ 2	
			□01-A		□02-A			-	
Pining a	adapter Note 4)	E100-M5-A	E200-02-A	E300-□03-A		E400-□03-A	E500-□06-A		
r iping a	adapter		□03-A		□03-A □04-A	□04-A	L300-00-A		
						□06-A		_	
						□02-A	□02-A		
	re switch with	_	IS10E-2002-A	IS10E-3	B0⊡03-A	IS10E-40003-A			
piping adapter Note 4)			□03-A	10102-0	03-A 04-A	□04-A			
					-	□06-A		_ (
Cross e	Cross spacer Note 4) Y14-M5-A		Y24-□01-A	A Y34-🗆01-A		Y44-□02-A	Y54-⊡03-A		
	pacer	114-WJ-A	□02-A	[_02-A	□03-A	□04-A		

SMC

Note 3) For F.R.L. units, port sizes without () are standard specifications.

Note 4) Separate spacers are required for modular unit.

Replacement Procedure

Air Combination AC-B Series

Air Filter + Regulator + Lubricator AC20-B to AC60-B

Options/Attachments/Part Nos.

						Options/Attach	ments part nos.					
	\sim		AC20-B	AC25-B	AC30-B	AC40-B	AC40-06-B	AC50-B	AC55-B	AC60-B		
5		Model	AC20A-B	_	AC30A-B	AC40A-B	AC40A-06-B	AC50A-B	_	AC60A-B		
Section			AC20B-B	AC25B-B	AC30B-B	AC40B-B	AC40B-06-B	AC50B-B	AC55B-B	AC60B-B		
S	Туре		AC20C-B	AC25C-B	AC30C-B	AC40C-B	AC40C-06-B	_	_	_		
			AC20D-B	_	AC30D-B	AC40D-B	AC40D-06-B	_	_	_		
.		Standard		G36-10-□01				G46-10-□01				
gauge Note 1)	Round type	0.02 to 0.2 MPa setting		G36-4-🗆01				G46-4-🗆01				
ange	Round type	Standard		G36-10-□01-L				G46-10-□01-L				
e di	(with color zone)	0.02 to 0.2 MPa setting		G36-4-🗆01-L		G46-4-□01-L						
ssu	(with color zone) Square embedded type Note 2)	Standard	GC3-10AS [GC3P-010AS (Pressure gauge cover only)]									
2 2	type Note 2)	0.02 to 0.2 MPa setting	GC3-4AS [GC3P-010AS (Pressure gauge cover only)]									
D Pres		NPN output, Wiring bottom entry			ISE35-N-2	5-MLA [ISE35-N-2	5-M (Switch body	only)] Note 3)				
	igital ressure	NPN output, Wiring top entry		ISE35-R-25-MLA [ISE35-R-25-M (Switch body only)] Note 3)								
	vitch	PNP output, Wiring bottom entry		ISE35-N-65-MLA [ISE35-N-65-M (Switch body only)] Note 3)								
31		PNP output, Wiring top entry		ISE35-R-65-MLA [ISE35-R-65-M (Switch body only)] Note 3)								
	oat type auto	N.O.	-	AD:	38-A			AD48-A				
dra	ain ^{Note 4)}	N.C.	AD27-A	AD	37-A			AD47-A				
	pacer		Y200-A		00-A	Y400-A	Y500-A		Y600-A			
S	Spacer with bracket		Y200T-A		0T-A	Y400T-A	Y500T-A		Y600T-A			
C	Check valve Note 5, 6)		AKM2000-01-A	AKM300	0-(□01)-A	AKM4000-(□02)-A		_	_	_		
			(□02)-A		□02-A	□03-A						
Pi	ressure si	witch Note 6)	IS10M-20-A		Л-30-А	IS10M-40-A	IS10M-50-A	IS10M-60-A				
Т	spacer No	te 5, 6)	Y210-□01-A	Y310-(⊡01)-A	Y410-(□02)-A	Y510-(□02)-A	Y610-□03-A	Y610-(□			
-	spacer		(□02)-A		□02-A	□03-A	□03-A	(□04)-A		04-A		
_			VHS20-□01A	VHS30	0-□02A	□02A		VHS50-□06A				
PI	ressure re	lief 3 port valve Note 6)	02A	11000	□03A	VHS40-D03A	VHS40-□06A	10A □	_	-		
						□04A						
Attachment			□01-A		□02-A	□02-A						
¥ pi	inina adar	oter Note 6)	E200-02-A		⊡03-A	E400-□03-A	E500-06-A		E600-□06-A			
	ping udu		□03-A		_04-A	□04-A			□10-A			
_			20071			□06-A						
			□01-A		□02-A	□02-A						
		witch with piping	IS10E-20002-A	IS10E-3	30□03-A	IS10E-40003-A	_	_	_	l _		
a	apter Note	9 6)	□03-A	.0.020	04-A	□04-A						
					-	□06-A						
C	ross spacer Note 6)		Y24-□01-A		□01-A	Y44-□02-A	Y54-□03-A	_	_	l —		
		·	□02-A	[□02-A	□03-A	□04-A					

Note 1) □ in part numbers for a round type pressure gauge indicates a pipe thread type. 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 2) Including an O-ring and 2 mounting screws
 Note 3) 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, refer to the Web Catalog.

Note 4) Min. operating pressure: N.O. type–0.1 MPa; N.C. type–0.1 MPa (AD27-A) and 0.15 MPa (AD37-A/AD47-A). Please consult with SMC separately for psi and °F unit display specifications. Note 5) For F.R.L. units, port sizes without () are standard specifications. Note 6) Separate spacers are required for modular unit.

Air Combination ACG-B Series

Air Filter + Regulator + Lubricator ACG20-B to ACG40-B

Options/Attachments/Part Nos.

Section					Options/Attachment/part nos.	
Sec	Descripti	ion	Model	For ACG20-B	For ACG30-B	For ACG40-B
F	Pressure Standard 0 to 1.0 MPa		0 to 1.0 MPa	GB2-10AS	GB3-10AS	GB4-10AS
	gauge ^{*1}	Semi-standard	0 to 0.3 MPa	GB2-3AS	GB3-3AS	GB4-3AS
Option	E Float type*2		N.C.	AD27-A	AD37-A	AD47-A
b b	auto dra	ain	N.O.	—	AD38-A	AD48-A
	Spacer			Y200-A	Y300-A	Y400-A
	Spacer	with bra	cket	Y200T-A	Y300T-A	Y400T-A
ment	Chook	valve* ^{3, *}	*4	AKM2000-□01-A	AKM3000-(□01-A)	AKM4000-(□02-A)
	Check	valve	<u> </u>	(□02-A)	□02-A	□03-A
act [Pressu	re switch	1 ^{*4, *5}	IS10M-20-A	IS10M-30-A	IS10M-40-A
Attach	Brocou	re relief		VHS20-□01A	VHS30-□02A	□02A
				02A		VHS40-□03A
	3-port v	3-port valve*4			LIUJA	□04A

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

*2 Min. operating pressure: 0.1 MPa for N.C. type, 0.1 MPa for N.C. type (AD27-A) and 0.15 MPa for N.C. type (AD37-A and AD47-A). Contact SMC for psi and °F specifications. *3 For F.R.L. units, port sizes not in () are for standard application.

*4 Separate spacers are required for modular unit.

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

Filter Regulator + Lubricator ACG20A-B to ACG40A-B

Options/Attachments/Part Nos.

Section		_			Options/Attachments/part nos.	
Sec	B Description Model			For ACG20A-B	For ACG30A-B	For ACG40A-B
P	Pressure Standard 0 to 1		0 to 1.0 MPa	GB2-10AS	GB3-10AS	GB4-10AS
	auge*1	Semi-standard	0 to 0.3 MPa	GB2-3AS	GB3-3AS	GB4-3AS
ion	Float type ^{*2} auto drain		N.C.	AD27-A	AD37-A	AD47-A
<u>p</u>			N.O.	—	AD38-A	AD48-A
	Spacer			Y200-A	Y300-A	Y400-A
ent	Spacer	with bra	cket	Y200T-A	Y300T-A	Y400T-A
ne	Check v	. *3 *1		AKM2000-□01-A	AKM3000-(□01-A)	AKM4000-(□02-A)
Ę	Check	aive •,		(□02-A)	□02-A	□03-A
Attac		Pressure relief 3-port valve ^{*4}		VHS20-□01A □02A	VHS30-⊡02A ⊡03A	□02A VHS40-□03A □04A

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

*2 Min. operating pressure: 0.1 MPa for N.O. type, 0.1 MPa for N.C. type (AD27-A) and 0.15 MPa for N.C. type (AD37-A and AD47-A). Contact SMC for psi and °F specifications.

*3 For F.R.L. units, port sizes not in () are for standard application. *4 Separate spacers are required for modular unit.

Air Filter + Regulator

ACG20B-B to ACG40B-B

Options/Attachments/Part Nos.

tion	Description Model				Options/Attachments/part no.	
Sec			Model	For ACG20B-B	For ACG30B-B	For ACG40B-B
F	Pressure Standar		0 to 1.0 MPa	GB2-10AS	GB3-10AS	GB4-10AS
	gauge*1	Semi-standard	0 to 0.3 MPa	GB2-3AS	GB3-3AS	GB4-3AS
tion	토 Float type ^{*2} auto drain		N.C.	AD27-A	AD37-A	AD47-A
<u>b</u>			N.O.	—	AD38-A	AD48-A
	Spacer			Y200-A	Y300-A	Y400-A
ent		with bra		Y200T-A	Y300T-A	Y400T-A
Ξ	Pressu	re switch	1 ^{*3, *4}	IS10M-20-A	IS10M-30-A	IS10M-40-A
Attach		Pressure relief 3-port valve ^{*3}		VHS20-⊟01A ⊟02A	VHS30-⊟02A ⊡03A	□02A VHS40-□03A □04A

*1 Contact SMC regarding pressure gauge supply for psi unit specifications

*2 Min. operating pressure: 0.1 MPa for N.O. type, 0.1 MPa for N.C. type (AD27-A) and 0.15 MPa for N.C. type (AD37-A and AD47-A). Contact SMC for psi and °F specifications.

*3 Separate spacers are required for modular unit.

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



Actuators

Rotary Actuators Air Grippers

odular F.R.L. ressure Control Equipment

Air Preparation Equipment

ndustrial Filters

Replacement Procedure

Actuators

Rotary Actuators Air Grippers

Modular F.R.L. Pressure Control Equipment

Air Preparation Equipment Industrial Filters

ACG-B Series

Air Combination

Air Filter + Mist Separator + Regulator ACG20C-B to ACG40C-B

Options/Attachments/Part Nos.

tion	Description Model				Options/Attachments/part nos.	
Sec				For ACG20C-B	For ACG30C-B	For ACG40C-B
F	Pressure	Standard	0 to 1.0 MPa	GB2-10AS	GB3-10AS	GB4-10AS
	gauge ^{*1}	Semi-standard	0 to 0.3 MPa	GB2-3AS	GB3-3AS	GB4-3AS
Option	Float ty	pe*2	N.C.	AD27-A	AD37-A	AD47-A
opt	auto drain N.O.		N.O.	—	AD38-A	AD48-A
	Spacer			Y200-A	Y300-A	Y400-A
ent	Spacer	with bra	cket	Y200T-A	Y300T-A	Y400T-A
Ĕ	Pressu	re switch	1 ^{*3, *4}	IS10M-20-A	IS10M-30-A	IS10M-40-A
Attach		Pressure relief 3-port valve ^{*3}		VHS20-□01A □02A	VHS30-⊟02A ⊟03A	□02A VHS40-□03A □04A

 *1 Contact SMC regarding pressure gauge supply for psi unit specifications.
 *2 Min. operating pressure: 0.1 MPa for N.O. type, 0.1 MPa for N.C. type (AD27-A) and 0.15 MPa for N.C. type (AD37-A and AD47-A). Contact SMC for psi and °F specifications. *3 Separate spacers are required for modular unit.

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

Filter Regulator + Mist Separator ACG20D-B to ACG40D-B

Options/Attachments/Part Nos.

Section					Options/Attachments/part nos.	
D Sec	Description Model			For ACG20D-B	For ACG30D-B	For ACG40D-B
Press	sure	Standard	0 to 1.0 MPa	GB2-10AS	GB3-10AS	GB4-10AS
gaug	auge*1	Semi-standard	0 to 0.3 MPa	GB2-3AS	GB3-3AS	GB4-3AS
Option B			N.C.	AD27-A	AD37-A	AD47-A
a da			N.O.	—	AD38-A	AD48-A
ד S	Spacer			Y200-A	Y300-A	Y400-A
k ment s	Spacer	with bra	cket	Y200T-A	Y300T-A	Y400T-A
B P	· Pressure relief I-port valve ^{*3}			VHS20-□01A □02A	VHS30-⊟02A ⊟03A	□02A VHS40-□03A □04A

*1 Contact SMC regarding pressure gauge supply for psi unit specifications.
 *2 Min. operating pressure: 0.1 MPa for N.O. type, 0.1 MPa for N.C. type (AD27-A) and 0.15 MPa for N.C. type (AD37-A and AD47-A). Contact SMC for psi and °F specifications.

*3 Separate spacers are required for modular unit.

Regulator with Built-in Pressure Gauge / Regulator with Built-in Pressure Gauge with Backflow Function ARG20-B to ARG40-B ARG20K-B to ARG40K-B

Construction



0.3 MPa/45 psi *1 The assembly of a bracket and set nuts

Semi-standard

Pressure

gauge

0.3 MPa

1.0 MPa/150 psi



GB3-3AS

GB3-10AS-X101

GB3-3AS-X101

GB2-3AS

GB2-10AS-X101

GB2-3AS-X101

GB4-3AS

GB4-10AS-X101

GB4-3AS-X101

Filter Regulator with Built-in Pressure Gauge 🖉 Filter Regulator with Built-in Pressure Gauge with Backflow Function

AWG20-B to AWG40-B AWG20K-B to AWG40K-B

Construction







Drain

AWG30(K)-B/AWG40(K)-B





AWG20K-B to AWG40K-B

(Filter Regulator with Built-in Pressure Gauge with Backflow Function)



Replacement Parts/Part Nos.

Nie	Description	Material		Model	
No.	Description	Material	AWG20(K)-B	AWG30(K)-B	AWG40(K)-B
4	Valve assembly	Brass, HNBR	AW20P-340AS	AW30P-340AS	AW40P-340AS
5	Element	Non-woven fabric	AF20P-060S	AF30P-060S	AF40P-060S
6	Diaphragm assembly	Weatherable NBR	AR20P-150AS	AR30P-150AS	AR40P-150AS
7	Bowl seal	NBR	C2SFP-260S	C32FP-260S	C42FP-260S
8	Bowl assembly ^{*1}	PC	C2SF-A	C3SF-A*2	C4SF-A*2
9	Pressure gauge*3	—	GB2-10AS	GB3-10AS	GB4-10AS
10	Pressure gauge cover	PC	ARG20P-400S	ARG30P-400S	ARG40P-400S
11	Clip	Stainless steel	ARG20P-420S	ARG30P-420S	ARG40P-420S
12	Check valve assembly*4	_		AR23KP-020AS	

*1 The bowl assembly comes with a bowl seal. Please consult with SMC separately for psi and °F unit display specifications.

*2 The bowl assembly for the AWG30(K)-B and AWG40(K)-B models comes with a bowl guard (Material: Polycarbonate).

*3 Only the standard part numbers are listed in the pressure gauges. For the semi-standard part numbers, refer to the optional part numbers.

*4 The check valve assembly is applicable for a filter regulator with backflow function (AWG20K-B to AWG40K-B) only.

The assembly of a check valve cover, check valve body assembly and 2 mounting screws

Options/Part Nos.

	Ontional	specifications		Model				
	Optional	specifications	AWG20(K)-B	AWG30(K)-B	AWG40(K)-B			
Bracket assembly*1			ARG23P-270AS	ARG33P-270AS	ARG43P-270AS			
Se	et nut		ARG23P-260S	ARG33P-260S	ARG43P-260S			
nge	Standard	1.0 MPa	GB2-10AS	GB3-10AS	GB4-10AS			
Pressure gauge	0	0.3 MPa	GB2-3AS	GB3-3AS	GB4-3AS			
ssur	Semi- standard	1.0 MPa/150 psi	GB2-10AS-X101	GB3-10AS-X101	GB4-10AS-X101			
Pre	Stanuaru	0.3 MPa/45 psi	GB2-3AS-X101	GB3-3AS-X101	GB4-3AS-X101			

*1 The assembly of a bracket and set nuts

Bowl Assembly/Part Nos.

	· · · ·				Madal	
Bowl	Drain	D · · ·	01		Model	
material	discharge mechanism	Drain port	Other	AWG20(K)-B	AWG30(K)-B	AWG40(K)-B
	Manual	With drain cock	—	C2SF-A	—	—
		with drain cock	With bowl guard	C2SF-C-A	C3SF-A	C4SF-A
		Drain cock with barb fitting	With bowl guard	—	C3SF-W-A	C4SF-W-A
Polycarbonate		With drain guide	—	C2SF□-J-A	—	—
Polycarboliale		(without valve function)	With bowl guard	C2SF□-CJ-A	C3SF□-J-A	C4SF□-J-A
	Automatic ^{*1} (Auto drain)	Normally closed	—	AD27-A	—	—
		(N.C.)	With bowl guard	AD27-C-A	AD37□-A	AD47□-A
		Normally open (N.O.)	With bowl guard	_	AD38🗆-A	AD48□-A
	Manual	With drain cock		C2SF-6-A	—	
			With bowl guard	C2SF-6C-A	C3SF-6-A	C4SF-6-A
		Drain cock with barb fitting	With bowl guard		C3SF-6W-A	C4SF-6W-A
Nylon		With drain guide		C2SF□-6J-A		
Nyion		(without valve function)	With bowl guard	C2SF□-6CJ-A	C3SF□-6J-A	C4SF□-6J-A
	Automatic*1	Normally closed		AD27-6-A		
	(Auto drain)	(N.C.)	With bowl guard	AD27-6C-A	AD37□-6-A	AD47□-6-A
		Normally open (N.O.)	With bowl guard	_	AD38□-6-A	AD48□-6-A
		With drain cock		C2SF-2-A	C3SF-2-A	C4SF-2-A
	Manual	With train cock	With level gauge		C3LF-8-A	C4LF-8-A
	Mariuai	With drain guide		C2SF□-2J-A	C3SF□-2J-A	C4SF□-2J-A
Metal		(without valve function)	With level gauge		C3LF□-8J-A	C4LF□-8J-A
metal		Normally closed		AD27-2-A		AD47□-2-A
	Automatic*1		With level gauge			AD47□-8-A
	(Auto drain)			_	AD38□-2-A	AD48□-2-A
		(N.O.)	With level gauge	—	AD38□-8-A	AD48□-8-A

*1 Min. operating pressure: N.O. type–0.1 MPa (AD38-A, AD48-A); N.C. type–0.1 MPa (AD27-A) and 0.15 MPa (AD37-A, AD47-A).

The bowl assembly comes with a bowl seal.

□ in bowl assembly part numbers indicates a pipe thread type (applicable tubing for auto drain). No indication is necessary for Rc thread; however, indicate N for NPT thread, and F for G thread. (For auto drain, Nii: ø10, N: ø3/8")

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

ACG Series

Air Combination

Air Filter + Regulator + Lubricator ACG20/30/40

Options/Attachments/Part Nos.

					Options/Attachments part nos.	
Description Model				ACG20	ACG30	ACG40
Pressure		Standard 0 to 1.0 MPa		GB2-10AS	GB3-10AS	GB4-10AS
gai	Jge Note 1)	Optional	0 to 0.3 MPa	GB2-3AS	GB3-3AS	GB4-3AS
suo	Float type	e auto N.C.		AD27	AD37	AD47
bți D	drain Note 2)		N.O.	-	AD38	AD48
ts	Spacer	pacer pacer with bracket heck valve Note 3, 4) ressure switch Note 4, 5) sidual pressure relief 3 port valve Note 4)		Y200	Y300	Y400
E L	Spacer wi			Y200T	Y300T	Y400T
ЪЧ				AKM2000-□01, (□02)	AKM3000-(□01), □02	AKM4000-(□02), □03
tac	Pressure			IS10M-20	IS10M-30	IS10M-40
Ā	Residual pres			VHS20-□01, □02	VHS30-□02, □03	VHS40-□02, □03, □04

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

Note 2) Min. 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) The pressure switch cannot be mounted on the inlet and outlet sides of an ARG with an upward facing knob (optional specification: -Y).

Filter Regulator + Lubricator ACG20A/30A/40A

Options/Attachments/Part Nos.

	scription				Options/Attachments part nos.	
De	scription		Model	ACG20A ACG30A		ACG40A
		Standard	0 to 1.0 MPa	GB2-10AS	GB3-10AS	GB4-10AS
ga	Jge Note 1)	Optional	0 to 0.3 MPa	GB2-3AS	GB3-3AS	GB4-3AS
suo	Float type	auto	N.C.	AD27	AD37	AD47
	drain Note 2)		N.O.	-	AD38	AD48
цs	Spacer Note	3, 4)		Y200	Y300	Y400
B	Spacer with bracket			Y200T	Y300T	Y400T
ach	Check valv	/e		AKM2000-□01, (□02)	AKM3000-(□01), □02	AKM4000-(□02), □03
Att	Residual pres	sure relief	3 port valve Note 4)	VHS20-□01, □02	VHS30-□02, □03	VHS40-□02, □03, □04

Note 1) Contact SMC regarding pressure gauge supply for psi unit specifications. Note 2) Min. 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.

Air Filter + Regulator ACG20B/30B/40B

Options/Attachments/Part Nos.

Do	scription				Options/Attachments part nos.	
De	scription		Model	ACG20B	ACG30B	ACG40B
	Pressure Standard 0 to 1.0		0 to 1.0 MPa	GB2-10AS	GB3-10AS	GB4-10AS
gai	Deptional 0 to 0.3 MF		0 to 0.3 MPa	GB2-3AS	GB3-3AS	GB4-3AS
suo	Float type auto N.C.		N.C.	AD27	AD37	AD47
ē	drain Note 2)		N.O.	-	AD38	AD48
nts	Spacer			Y200	Y300	Y400
mel	Spacer with	th brack	et	Y200T	Y300T	Y400T
ach	ទ្ហ Pressure switch Note 3, 4)		ote 3, 4)	IS10M-20	IS10M-30	IS10M-40
Att	Residual pres	sure relief	3 port valve Note 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) Min. 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) The pressure switch cannot be mounted on the inlet and outlet sides of an ARG with an upward facing knob (optional specification: -Y).

Actuators

Rotary Actuators Air Grippers

Control Equipment

Actuators

Rotary Actuators Air Grippers

Pressure Control Equipment

Modular F.R.L



ACG Series

Air Combination

Air Filter + Mist Separator + Regulator ACG20C/30C/40C

Options/Attachments/Part Nos.

Deee	ription	_			Options/Attachments part nos.	
Desc	npuon		Model	ACG20C	ACG30C	ACG40C
Pres		Standard	0 to 1.0 MPa	GB2-10AS	GB3-10AS	GB4-10AS
gaug	ge Note 1)	Optional	0 to 0.3 MPa	GB2-3AS	GB3-3AS	GB4-3AS
suo F	Float type auto drain Note 2)N.C.N.O.		N.C.	AD27	AD37	AD47
<u></u> a			N.O.	-	AD38	AD48
st S	Spacer			Y200	Y300	Y400
a S	Spacer wit	th brack	et	Y200T	Y300T	Y400T
່ງ ຊິ P	Pressure s	switch No	ote 3, 4)	IS10M-20	IS10M-30	IS10M-40
₽R	Residual pressure relief 3 port valve Note 3)		3 port valve Note 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) Min. 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) The pressure switch cannot be mounted on the inlet and outlet sides of an ARG with an upward facing knob (optional specification: -Y).

Filter Regulator + Mist Separator ACG20D/30D/40D

Options/Attachments/Part Nos.

De	scription				Options/Attachments part nos.	
De	Scription		Model	ACG20D	ACG30D	ACG40D
	essure	Standard	0 to 1.0 MPa	GB2-10AS	GB3-10AS	GB4-10AS
gaı	uge Note 1)	Optional	0 to 0.3 MPa	GB2-3AS	GB3-3AS	GB4-3AS
suo	Float type		N.C.	AD27	AD37	AD47
<u>b</u>	drain Note 2)		N.O.	-	AD38	AD48
ents	Spacer			Y200	Y300	Y400
-Ē	Spacer with			Y200T	Y300T	Y400T
Atta	Residual pres	sure relief	3 port valve Note 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) Min. 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.

Air Filter AF10-A to AF60-A



Construction

AF10-A/AF20-A



AF30-A to AF40-06-A



AF50-A/AF60-A



* The numbers correspond with those in the "Construction" of the AF series in the Web Catalog.

Replacement Parts/Part Nos.

No.	Description	Material		Model								
INU.			AF10-A	AF20-A	AF30-A	AF40-A	AF40-06-A	AF50-A	AF60-A			
2	Filter element	Non-woven fabric	AF10P-060S	AF20P-060S	AF30P-060S	AF40P-060S		AF50P-060S	AF60P-060S			
3	Baffle	PBT	AF10P-040S Note 2)	AF22P-040S	AF32P-040S	AF42F	P-040S	AF50P-040S	AF60P-040S			
4	Bowl seal	NBR	C1SFP-260S	C2SFP-260S	C32FP-260S	S C42FP-260S						
5	Bowl assembly Note 1)	Polycarbonate	C1SF-A	C2SF-A	C3SF-A	C4SF-A						

Note 1) The AF20-A to AF60-A models come with a bowl seal. Please contact SMC regarding the supply of bowl assembly with psi and °F unit display specifications. Note 2) The baffle material for the AF10-A (AF10P-040S) only is polyacetal.

Options/Part Nos.

Ontional apositionations		Model							
Optional specifications	AF10-A	AF20-A	AF30-A	AF40-A	AF40-06-A	AF50-A	AF60-A		
Bracket assembly Note)	-	AF22P-050AS	AF32P-050AS	AF42P-050AS	AF42P-070AS	AF52P-	-050AS		

Note) The assembly of a bracket and 2 mounting screws

Bowl Assembly/Part Nos.

Drain Model						el				
Bowl naterial	discharge mechanism	Drain port	Other	AF10-A	AF20-A	AF30-A	AF40-A	AF40-06-A	AF50-A	AF60-A
		With drain cock	—	C1SF-A	C2SF-A	_		-	_	
		with train cock	With bowl guard	_	C2SF-C-A	C3SF-A		C4SF-A		
	Manual discharge	Drain cock with barb fitting	iitting With bowl guard — C3SF-W-A		C4SF	-W-A				
Polycarbo-	j -	With drain guide		—	C2SF□-J-A	—		-	-	
nate		(without valve function)	With bowl guard	_	C2SF□-CJ-A	C3SF□-J-A		C4SF	□-J-A	
	Note) Automatic	Normally closed	-	AD17-A	AD27-A	—	_		-	
	discharge	(N.C.)	With bowl guard	—	AD27-C-A	AD37□-A		AD4	7 □- A	
	(Auto drain)	Normally open (N.O.)	With bowl guard	—	_	AD38□-A		AD48□-A		
		With drain cock	—	C1SF-6-A	C2SF-6-A	—	_			
	Manual	With train cock	With bowl guard	—	C2SF-6C-A	C3SF-6-A		C4S	F-6-A	
	Manual discharge	Drain cock with barb fitting	With bowl guard	_	_	C3SF-6W-A		C4SF	-6W-A	
Nylon	g .	With drain guide	-	—	C2SF□-6J-A	—				
NyION		(without valve function)	With bowl guard	—	C2SF□-6CJ-A	C3SF⊡-6J-A	C4SF⊡-6J-A			
	Note) Automatic	Normally closed	_	AD17-6-A	AD27-6-A	—		-	_	
	discharge	(N.C.)	With bowl guard	—	AD27-6C-A	AD37□-6-A		AD47	□-6-A	
	(Auto drain)	Normally open (N.O.)	With bowl guard	—	—	AD38□-6-A		AD48	□-6-A	
		With drain cock	—	C1SF-2-A	C2SF-2-A	C3SF-2-A		C4S	F-2-A	
	Manual		With level gauge	—	_	C3LF-8-A		C4LI	-8-A	
	discharge	With drain guide			C2SF□-2J-A	C3SF⊡-2J-A		C4SF	⊒-2J-A	
Metal		(without valve function)	With level gauge	_	_	C3LF□-8J-A		C4LF]-8J-A	
wetal	Note)	Normally closed (N.C.)	_	AD17-2-A	AD27-2-A	AD37□-2-A		AD47	□-2-A	
	Automatic	Normany closed (N.C.)	With level gauge	_	_	AD37□-8-A		AD47	□-8-A	
	discharge (Auto drain)					AD380-2-A		AD48	□-2-A	
((Auto urain)	Normally open (N.O.)	With level gauge	_	_	AD380-8-A		AD48	□-8-A	

Note) Min. operating pressure: N.O. type-0.1 MPa (AD38-A, AD48-A); N.C. type-0.1 MPa (AD17-A, AD27-A) and 0.15 MPa (AD37-A, AD47-A).

The bowl assembly for the AF20-A to AF60-A models comes with a bowl seal.

 \Box in bowl assembly part numbers indicates a pipe thread type (applicable tubing for auto drain). No indication is necessary for Rc thread; however, indicate N for NPT thread, and F for G thread. (For auto drain, Nil: ø10, N: ø3/8")

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



1

Actuators

Rotary Actuators Air Grippers

Actuators

Rotary Actuators

Air Grippers

Mist Separator Micro Mist Separator AFM20-A to AFM40-A AFD20-A to AFD40-A



Construction



AFM30-A to AFM40-06-A AFD30-A to AFD40-06-A



* The numbers correspond with those in the "Construction" of the AFM/AFD series in the Web Catalog.

Replacement Parts/Part Nos.

				Model						
No.	Descriptio	on	Material	AFM20-A AFD20-A	AFM30-A AFD30-A	AFM40-A AFD40-A	AFM40-06-A AFD40-06-A			
(2)	Element assembly	AFM20 to 40	-	AFM20P-060AS	AFM30P-060AS	AFM40	P-060AS			
C	Element assembly	AFD20 to 40	-	AFD20P-060AS	AFD30P-060AS	AFD40	P-060AS			
3	Bowl seal	lowl seal		C2SFP-260S	C32FP-260S	C42FF	P-260S			
4	Bowl assembly Note)		Polycarbonate	C2SF-A	C3SF-A	C48	SF-A			

Note) Including a bowl O-ring. Please contact SMC regarding the supply of bowl assembly with psi and °F unit display specifications.

Options/Part Nos.

		Model						
Optional specifications	AFM20-A AFD20-A	AFM30-A AFD30-A	-	AFM40-06-A AFD40-06-A				
Bracket assembly Note 1)		AF22P-050AS	AF32P-050AS	AF42P-050AS	AF42P-070AS			
Float type auto drain Note 2, 3) N.C. N.O.		AD27-A	AD37-A	AD4	17-A			
		—	AD38-A	AD4	18-A			

Note 1) The assembly of a bracket and 2 mounting screws

Note 2) Min. operating pressure: N.O. type-0.1 MPa; N.C. type-0.1 MPa (AD27-A) and 0.15 MPa (AD37-A/AD47-A).

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

Note 3) Please consult with SMC for details on drain piping to fit NPT or G port sizes.

Bowl Assembly/Part Nos.

	Drain	biyn art noc			Мо	del	
Bowl material	discharge mechanism	Drain port	Other	AFM20-A AFD20-A	AFM30-A AFD30-A	AFM40-A AFD40-A	AFM40-06-A AFD40-06-A
		With drain cock	-	C2SF-A	—	-	_
		with drain cock	With bowl guard	C2SF-C-A	C3SF-A	C49	SF-A
	Manual discharge	Drain cock with barb fitting	With bowl guard	—	C3SF-W-A	C4SI	-W-A
Polycarbo-	alloonial go	With drain guide	-	C2SF□-J-A	_	-	_
nate		(without valve function)	With bowl guard	C2SF□-CJ-A	C3SF□-J-A	C4SF	⊡-J-A
	Note)	Normany biobed		AD27-A	_	-	
	Automatic discharge	(N.C.)	With bowl guard	AD27-C-A	AD37□-A	AD4	7 □- A
	(Auto drain)	Normally open (N.O.)	With bowl guard	—	AD38□-A	AD4	8 □- A
		With drain cock		C2SF-6-A	_	-	_
		with drain cock	With bowl guard	C2SF-6C-A	C3SF-6-A	C4S	F-6-A
	Manual discharge	Drain cock with barb fitting	With bowl guard	—	C3SF-6W-A	C4SF	-6W-A
Nylon	aloonalge	With drain guide	—	C2SF□-6J-A	—	-	_
NyIOII		(without valve function)	With bowl guard	C2SF□-6CJ-A	C3SF⊡-6J-A	C4SF	□-6J-A
	Note)	Normany biobed	-	AD27-6-A	_	-	_
	Automatic discharge	(N.C.)	With bowl guard	AD27-6C-A	AD37□-6-A	AD47	′□-6-A
	(Auto drain)	Normally open (N.O.)	With bowl guard	—	AD38□-6-A	AD48	I⊡-6-A
		With drain cock	_	C2SF-2-A	C3SF-2-A	C4S	F-2-A
	Manual	with train cock	With level gauge	_	C3LF-8-A	C4L	F-8-A
	discharge	With drain guide	—	C2SF□-2J-A	C3SF□-2J-A	C4SF	□-2J-A
Metal		(without valve function)	With level gauge	_	C3LF□-8J-A	C4LF	□-8J-A
metal		Normally closed (N.C.)		AD27-2-A	AD37□-2-A	AD47	′□-2-A
	Note) Automatic	Normally closed (N.C.)	With level gauge	—	AD37□-8-A	AD47	′□-8-A
	discharge (Auto drain)		_	—	AD38□-2-A	AD48	I⊡-2-A
	, are drain)	Normally open (N.O.)	With level gauge	_	AD38□-8-A	AD48	I□-8-A

Note) Min. operating pressure: N.O. type–0.1 MPa (AD38-A, AD48-A); N.C. type–0.1 MPa (AD17-A, AD27-A) and 0.15 MPa (AD37-A, AD47-A).

The bowl assembly for the AFM20-A to AFM40-06-A, AFD20-A to AFD40-06-A models comes with a bowl seal.

 \Box in bowl assembly part numbers indicates a pipe thread type (applicable tubing for auto drain). No indication is necessary for Rc thread; however, indicate N for NPT thread, and F for G thread. (For auto drain, Nil: ø10, N: ø3/8")

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

Regulator AR10-A to AR40-A



Actuators

Rotary Actuators Air Grippers

Air Preparation Equipment

Industrial Filters

Replacement Procedure

Actuators

Construction



Replacement Parts/Part Nos.

No.	Description	Material	Model								
110.	Description	Wateria	AR10-A	AR20-A	AR25-A	AR30-A	AR40-A	AR40-06-A			
3	Valve assembly	Stainless steel/HNBR	AR10P-090S	AR22P	-060AS	AR32P-060AS	AR42P	-060AS			
4	Diaphragm assembly	Weatherable NBR	AR10P-150AS Note)	AR22P	-150AS	AR32P-150AS	AR42P	-150AS			
5	Valve guide assembly	Polyacetal	131329	AR22P	-050AS	AR32P-050AS	AR42P	-050AS			
NIAL	Nete) The AD10 A is a minter time. The assembly of a minter and a cool ((CO)(D 10))										

Note) The AR10-A is a piston type. The assembly of a piston and a seal (KSYP-13)

Options/Part Nos.

0	Optional specifications			Model							
0				AR20-A	AR25-A	AR30-A	AR40-A	AR40-06-A			
Bracket assembly Note 1)			AR12P-270AS	AR22P-270AS	AR27P-270AS	AR32P-270AS	AR42P-270AS	AR42P-270AS			
Set nut			AR12P-260S	AR22P-260S	AR22P-260S	AR32P-260S	AR42P-260S	AR42P-260S			
	Round	Standard	G27-10-R1	(G36-10-🗆01		G46-10-□01				
Pressure	type Note 2)	0.02 to 0.2 MPa setting	G27-10-R1 Note 3)		G36-4-🗆01		G46-4	1-□01			
gauge	Round type (with	Standard	—	G	36-10-□01-	L	G46-10	-□01-L			
		0.02 to 0.2 MPa setting	-	(G36-4-⊡01-I	_	G46-4	⊡01-L			

Note 1) The assembly of a bracket and set nuts

SMC

Note 2)
in round pressure gauge part numbers indicates a pipe thread type. No indication is necessary for R; however, indicate N for NPT.

Please contact SMC regarding the pipe thread type NPT and the supply of pressure gauge with psi unit display specifications.

Note 3) Standard pressure gauge



* The numbers correspond with those in the "Construction" of the AR series in the **Web Catalog**.

Regulator **Regulator with Backflow Function** AR20-B to AR60-B AR20K-B to AR60K-B



Construction



AR30(K)-B/AR40(K)-B



AR50(K)-B/AR60(K)-B



AR20K-B to AR60K-B (Regulator with Backflow Function)



* The numbers correspond with those in the "Construction" of the AR series in the Web Catalog.

Replacement Parts/Part Nos.

No.	Description	Material	Model							
INO.	Description	Wateria	AR20(K)-B	AR25(K)-B	AR30(K)-B	AR40(K)-B	AR40(K)-06-B	AR50(K)-B	AR60(K)-B	
3	Valve	Brass/HNBR	AR20P-410S	AR25P-410S	AR30P-410S	AR40P-410S		AR50P-410S	AR60P-410S	
4	Diaphragm assembly	Weatherable NBR	AR20P-150AS	AR25P-150AS	AR30P-150AS	AR40P	-150AS	AR50P-150AS		
(5)	Valve guide assembly	Polyacetal	AR20P-050AS	AR25P-050AS	AR30P-050AS	AR40P-050AS		AR50P-050AS	AR60P-050AS	
6	Check valve assembly Note)	—	AR23KP-020AS							

Note) The check valve assembly is applicable for a regulator with backflow function (AR20K-B to AR60K-B) only. The assembly of a check valve cover, check valve body assembly and 2 mounting screws

Options/Part Nos.

Ор	tion	Model	AR20(K)-B	AR25(K)-B	AR30(K)-B	AR40(K)-B	AR40(K)-06-B	AR50(K)-B	AR60(K)-B	
Bra	acket assembly	Note 1)	AR23P-270AS	23P-270AS AR28P-270AS AR33P-270AS		AR43P-270AS		AR52P-270AS		
Se	t nut		AR23P-260S	260S AR28P-260S AR33P-260S		AR43F	P-260S	N	ote 2)	
ø	Downd two Note 3)	Standard		G36-10-□01			G46-10-□01			
aug	Round type Note 3)	0.02 to 0.2 MPa setting		G36-4-🗆01		G46-4-□01				
e ga	Round type	Standard	G36-10-□01-L			G46-10-□01-L				
l ns	(with color zone) Note 3)	0.02 to 0.2 MPa setting		G36-4-□01-L			G46-4-	-□01-L		
les	Square	Standard	GC3-10AS [GC3P-010AS (Pressure gauge cover only)]							
Ē	embedded type Note 4)	0.02 to 0.2 MPa setting	GC3-4AS [GC3P-010AS (Pressure gauge cover only)]							
		NPN output, Wiring bottom entry	ISE35-N-25-MLA [ISE35-N-25-M (Switch body only)]							
Dig	gital pressure	NPN output, Wiring top entry		IS	E35-R-25-MLA [[ISE35-R-25-M (Switch body only	y)]		
sw	•	PNP output, Wiring bottom entry		IS	E35-N-65-MLA [[ISE35-N-65-M (Switch body only	y)]		
		PNP output, Wiring top entry		IS	E35-R-65-MLA [[ISE35-R-65-M (Switch body only	y)]		

Note 1) The assembly of a bracket and set nuts. Including 2 mounting screws for the AR50(K)-B and AR60(K)-B Note 2) Please consult with SMC regarding the set nuts for the AR50(K)-B and AR60(K)-B.

Note 3) 🗆 in part numbers for a round pressure gauge indicates a pipe thread type. No indication is necessary for R; however, indicate N for NPT.

Please contact SMC regarding the pressure gauge supply for psi unit specifications.

Note 4) Including an O-ring and 2 mounting screws. []: Pressure gauge cover only Note 5) In addition to the pressure switch body, lead wire with connector (2 m), adapter, lock pin, O-ring (1 pc.), mounting screw (2 pcs.) are attached. []: Switch body only. (Regarding how to order the digital pressure switch, refer to the Web Catalog.)



Lubricator AL10-A to AL60-A



Actuators

Rotary Actuators Air Grippers

Air Preparation Equipment

Industrial Filters

Construction





AL30-A/AL40-A



AL50-A/AL60-A



Replacement Parts/Part Nos.

No.	Description	Material				Model			
	Description	Waterial	AL10-A	AL20-A	AL30-A	AL40-A	AL40-06-A	AL50-A	AL60-A
2	Sight dome assembly	Polycarbonate	AL10P-080AS	AL20P-080AS					
3	Lubrication plug assembly	—	-	AL22P-060AS	AL32P-060AS	AS AL42P-060AS			
4	Bumper retainer assembly	—	-	AL20P-030AS	AL30P-030AS	AL40P	-030AS	AL50P-030AS	AL60P-030AS
5	Bumper (assembly)	Synthetic resin	-	AL20P-040S	AL30P-040S	AL40F	2-040S	AL50P-040AS	AL60P-040AS
6	Bowl seal	NBR	C1SFP-260S	C2SFP-260S	C32FP-260S	0S C42FP-260S			
$\overline{(7)}$	Bowl assembly Note)	Polycarbonate	C1SL-A	C2SL-A	C3SL-A		C45	SL-A	

 [⑦] Bowl assembly Note)
 Polycarbonate
 C1SL-A
 C2SL-A
 C3SL-A
 C4SL-A

 Note)
 The AL20-A to AL60-A models come with a bowl seal. Please consult with SMC separately for psi and °F unit display specifications.
 C4SL-A
 C4SL-A

• The bowl assembly for the AL30-A to AL60-A models comes with a bowl guard (Material: Polycarbonate).

Options/Part Nos.

n

Optional specifications	Model							
Optional specifications	AL10-A	AL20-A	AL30-A	AL40-A	AL40-06-A	AL50-A	AL60-A	
Bracket assembly Note)	—	AF22P-050AS	AF32P-050AS	AF42P-050AS	AF42P-070AS	AF52P	-050AS	

Note) The assembly of a bracket and 2 mounting screws

Bowl Assembly/Part Nos.

David	Lubricant					Model			
Bowl naterial	Lubricant exhaust port	Other	AL10-A	AL20-A	AL30-A	AL40-A	AL40-06-A	AL50-A	AL60-A
	Without drain cock	-	C1SL-A	C2SL-A	-	_			
	Without drain cock	With bowl guard	_	C2SL-C-A	C3SL-A	C4SL-A			
Polycarbo- nate	With drain cock	_	C1SL-3-A	C2SL-3-A	_	_			
·······	WITH GLAIT COCK	With bowl guard	—	C2SL-3C-A	C3SL-3-A	C4SL-3-A			
	Drain cock with barb fitting	With bowl guard	—	—	C3SL-3W-A	C4SL-3W-A			
	Without drain	_	C1SL-6-A	C2SL-6-A	_		-	_	
	cock	With bowl guard	—	C2SL-6C-A	C3SL-6-A	C4SL-6-A			
Nylon	With drain cock	_	C1SL-36-A	C2SL-36-A	-		-	_	
	WITH GLAIT COCK	With bowl guard	—	C2SL-36C-A	C3SL-36-A		C4SL	-36-A	
	Drain cock with barb fitting	With bowl guard	—	-	C3SL-36W-A		C4SL-	36W-A	
	Without drain cock	—	C1SL-2-A	C2SL-2-A	C3SL-2-A		C4SI	2-A	
Metal	without drain cock	With level gauge	_	-	C3LL-8-A		C4LI	-8-A	
wetai	With drain cock	-	C1SL-23-A	C2SL-23-A	C3SL-23-A		C4SL	-23-A	
	WITH UTAIN COCK	With level gauge	_	_	C3LL-38-A	C4LL-38-A			

Note) · The AL20-A to AL60-A models come with a bowl seal.

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

* The numbers correspond with those in the "Construction" of the AL series in the Web Catalog.



316

Filter Regulator AW10-A to AW40-A



Construction



AW20-A



AW30-A to AW40-06-A



* The numbers correspond with those in the "Construction" of the AW series in the Web Catalog. 317

Replacement Parts/Part Nos.

No.	Description	Motorial	Material						
INU.	Description	Wateria	AW10-A	AW20-A	AW30-A	AW40-A	AW40-06-A		
3	Valve assembly	Stainless steel/HNBR	AR10P-090S	AW22P-060AS	AW32P-060AS	AW42F	2-060AS		
4	Filter element	Non-woven fabric	AF10P-060S	AF20P-060S	AF30P-060S	AF40F	P-060S		
5	Diaphragm assembly	Weatherable NBR	AR10P-150AS Note 1)	AR22P-150AS	AR32P-150AS	AR42P	-150AS		
6	Bowl seal	NBR	C1SFP-260S	C2SFP-260S	C32FP-260S	C42FI	P-260S		
$\overline{\mathcal{I}}$	Bowl assembly Note 2)	Polycarbonate	C1SF-A	C2SF-A	C3SF-A	C45	SF-A		

Note 1) The AW10-A is a piston type. The assembly of a piston and a seal (KSYP-13)

Note 2) The AW20-A to AW40-06-A models come with a bowl seal. Please contact SMC regarding the supply of bowl assembly with psi and °F unit display specifications.

Options/Part Nos.

0	ptional spec	ifications		Model						
0	puonai spec	Incations	AW10-A	AW20-A	AW30-A	AW40-A	AW40-06-A			
Brack	et assembly	Note 1)	AR12P-270AS	AR22P-270AS	AR32P-270AS	AR42P	-270AS			
Set nu	Set nut		AR12P-260S	AR22P-260S AR32P-260S		AR42P-260S				
	Round	Round Standard		G36-10-□01		G46-1	0-□01			
Note 2) Pressure	type	0.02 to 0.2 MPa setting	G27-10-R1 Note 3)	G36-4-□01		G46-4-□01				
gauge	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) The assembly of a bracket and set nuts

Note 2)
in round pressure gauge part numbers indicates a pipe thread type. No indication is necessary for R; however, indicate N for NPT.

Please contact SMC regarding the pipe thread type NPT and the supply of pressure gauge with psi unit display specifications.

Note 3) Standard pressure gauge

Bowl Assembly/Part Nos.

David	Drain					Model		
Bowl material	discharge mechanism	Drain port	Other	AW10-A	AW20-A	AW30-A	AW40-A	AW40-06-A
		With drain cook	—	C1SF-A	C2SF-A	—	-	_
		With drain cock With bowl guard — C2SF-C-A C3SF-A C4SI Drain cock with barb fitting With bowl guard — — C3SF-W-A C4SI With drain guide — — — C3SF-U-A C4SI With drain guide — — C2SF□-J-A — — With bowl guard — C2SF□-J-A C4SI — — With bowl guard — C2SF□-CJ-A C3SF□-J-A C4SIF□ Normally closed — AD17-A AD27-A — — (N.C.) With bowl guard — AD27-C-A AD37□-A AD47	SF-A					
	Manual discharge	Drain cock with barb fitting	With bowl guard	-	-	C3SF-W-A	C4SF	-W-A
Polycarbo-	aloonalge	With drain guide			-	_		
nate		(without valve function)	With bowl guard	-	C2SF□-CJ-A	C3SF□-J-A	C4SF	□-J-A
	Note) Automatic	Normally closed	-	AD17-A	AD27-A	—	-	_
	discharge	(N.C.)	With bowl guard	_	AD27-C-A	AD37□-A	AD4	7 □- A
	(Auto drain)	Normally open (N.O.)	With bowl guard	_	-	AD38□-A	AD4	8 □- A
	Manual	With drain cock	—	C1SF-6-A	C2SF-6-A	—	-	_
		with train cock	With bowl guard	-	C2SF-6C-A	C3SF-6-A	C4S	=-6-A
	Manual discharge	Drain cock with barb fitting	With bowl guard	-	_	C3SF-6W-A	C4SF	-6W-A
Nylon	u	With drain guide	-	_	C2SF□-6J-A	—	-	_
NyION		(without valve function)	With bowl guard	_	C2SF□-6CJ-A	C3SF□-6J-A	C4SF	⊒-6J-A
	Note) Automatic	Normally closed		AD17-6-A	AD27-6-A	—	-	_
	discharge	(N.C.)	With bowl guard	-	AD27-6C-A	AD37□-6-A	AD47	□-6-A
	(Auto drain)	Normally open (N.O.)	With bowl guard		—	AD38□-6-A	AD48	□-6-A
		With drain cock		C1SF-2-A	C2SF-2-A	C3SF-2-A	C4S	-2-A
	Manual	With Grain Cock	With level gauge	_	—	C3LF-8-A	C4LI	-8-A
	discharge	With drain guide	_	_	C2SF□-2J-A	C3SF□-2J-A	C4SF	⊒-2J-A
Metal		(without valve function)	With level gauge	_	-	C3LF□-8J-A	C4LF]-8J-A
wetai	Note)	Normally closed	—	AD17-2-A	AD27-2-A	AD37□-2-A	AD47	□-2-A
	Automatic	(N.C.)	With level gauge			AD37□-8-A	AD47	□-8-A
	discharge		—	_	_	AD38□-2-A	AD48	□-2-A
0	Auto drain)	Normally open (N.O.)	With level gauge	—	—	AD38□-8-A	AD48	□-8-A

Note) Min. operating pressure: N.O. type-0.1 MPa (AD38-A, AD48-A); N.C. type-0.1 MPa (AD17-A, AD27-A) and 0.15 MPa (AD37-A, AD47-A). The bowl assembly for the AW10-A to AW40-06-A models comes with a bowl seal.

□ in bowl assembly part numbers indicates a pipe thread type (applicable tubing for auto drain). No indication is necessary for Rc thread; however, indicate N for NPT thread, and F for G thread. (For auto drain, Nil: ø10, N: ø3/8")

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

Filter Regulator Filter Regulator with Backflow Function AW20-B to AW60-B AW20K-B to AW60K-B



Construction



AW60(K)-B



AW20K-B to AW60K-B (Filter Regulator with Backflow Function)





* The numbers correspond with those in the "Construction" of the AW series in the Web Catalog

Note) Min. operating pressure: N.O. type-0.1 MPa (AD38-A, AD48-A); N.C. type-0.1 MPa (AD27-A) and 0.15 MPa (AD37-A, AD47-A). The bowl assembly comes with a bowl seal.

 $\hfill\square$ in bowl assembly part numbers indicates a pipe thread type (applicable tubing for auto drain). No indication is necessary for Rc thread; however, indicate N for NPT thread, and F for G thread. (For auto drain, Nil: ø10, N: ø3/8")

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

Replacement Parts/Part Nos.

No.	Description	Motorial	Material Model					
INU.	Description	Wateria	AW20(K)-B	AW30(K)-B	AW40(K)-B	AW40(K)-06-B	AW60(K)-B	
4	Valve assembly	Brass/HNBR	AW20P-340AS	AW30P-340AS	AW40P	-340AS	AW60P-090AS	
5	Filter element	Non-woven fabric	AF20P-060S	AF30P-060S	AF40F	2-060S	AW60P-060S	
6	Diaphragm assembly	Weatherable NBR	AR20P-150AS	AR30P-150AS	AR40P	-150AS	AR50P-150AS	
\bigcirc	Bowl seal	NBR	C2SFP-260S	C32FP-260S		C42FP-260S		
8	Bowl assembly Note 1)	Polycarbonate	C2SF-A	C3SF-A Note 2)		C4SF-A Note 2)		
9	Check valve assembly Note 3)	—	AR23KP-020AS					

Note 1) The bowl assembly comes with a bowl seal. Please consult with SMC separately for psi and °F unit display specifications.

Note 2) The bowl assembly for the AW30(K)-B to AW60(K)-B models comes with a bowl guard (Material: Polycarbonate). Note 3) The check valve assembly is applicable for a filter regulator with backflow function (AW20K to 60K-B) only. The assembly of a check valve cover, check valve body assembly and 2 mounting screws

Options/Part Nos.

6

оит

4

5

8)

0	ptional spec	ifications			Model			
0	puonal spec	incations	AW20(K)-B	AW30(K)-B	AW40(K)-B	AW40(K)-06-B	AW60(K)-B	
Brack	et assembly	Note 1)	AW23P-270AS	AR33P-270AS	AR43P-270AS		AW62P-270AS	
Set nu	ıt		AR23P-260S	AR33P-260S	AR43P-260S		Note 2)	
	Round Standard		G36-1	0-□01		G46-10-□01		
	type Note 3)	0.02 to 0.2 MPa setting	G36-4	4-⊡01		G46-4-🗆01		
Pressure	Round type Note 3)	Standard	G36-10	-□01-L	G46-10-□01-L			
gauge	(with color zone)	0.02 to 0.2 MPa setting	G36-4-	-□01-L	G46-4-□01-L			
	Square embedded	Standard	GC3-1	0AS [GC3P-0	10AS (Pressure gauge cover only)]			
	type Note 4)	0.02 to 0.2 MPa setting	GC3-4	4AS [GC3P-01	0AS (Pressur	e gauge cover	only)]	
		NPN output, Wiring bottom entry	ISE3	5-N-25-MLA [I	SE35-N-25-M	(Switch body	only)]	
	l pressure	NPN output, Wiring top entry	ISE3	5-R-25-MLA [I	SE35-R-25-M	(Switch body	only)]	
switch	Note 5)	PNP output, Wiring bottom entry	ISE3	5-N-65-MLA [I	SE35-N-65-M	(Switch body	only)]	
		PNP output, Wiring top entry	ISE35-R-65-MLA [ISE35-R-65-M (Switch body only)]					

Note 1) The assembly of a bracket and set nuts. Including 2 mounting screws for the AW60(K)-B

Note 2) Please consult with SMC regarding the set nuts for the AW60(K)-B.

Note 3)
in part numbers for a round type pressure gauge indicates a pipe thread type. No indication is necessary for R; however, indicate N for NPT.

No inducation is necessary for n, nonvever, inducate the transmission of the presence of the p

Note 5) In addition to the pressure switch body, lead wire with connector (2 m), adapter, lock pin, O-ring (1 pc.), mounting screw (2 pcs.) are attached.

[]: Switch body only. (Regarding how to order the digital pressure switch, refer to the Web Catalog.) A pressure switch can be mounted on the AW60(K)-B, with a special mounting adapter (Pressure switch adapter assembly: AW63P-310AS) and mounting screws (M3 x 0.5 x 14) which are delivered with the mounting adapter.

Bowl Assembly/Part Nos.

Bowl	Drain					Model		
material	discharge mechanism	Drain port	Other AW20-B AW30-B AW40-B AW40-06-B AW - C2SF-A - - - - With bowl guard C2SF-C-A C3SF-A C4SF-W-A - With bowl guard - C3SF-W-A C4SF-W-A - With bowl guard - C2SF-C-A C3SF-J-A - - C2SF-C-A C3SF-J-A - - With bowl guard C2SF-C-A C3SF-J-A C4SF-J-A - AD27-A - - - With bowl guard AD27-C-A AD37A AD47A With bowl guard C2SF-6C-A C3SF-6A C4SF-6-A - C2SF-6C-A C3SF-6A C4SF-6A-A - C2SF-6D-A C3SF-6J-A C4SF-6A-A - C2SF-6J-A - - With bowl guard - C3SF-6J-A C4SF-6A-A - C2SF-6D-A C3SF-6J-A C4SF-6J-A - AD27-6C-A AD376-A AD	AW60-B				
		With drain cock	—	C2SF-A	—		_	
	Manual	WITH GRAIT COCK	With bowl guard	C2SF-C-A	C3SF-A		C4SF-A	
	discharge	Drain cock with barb fitting	With bowl guard	-	C3SF-W-A		C4SF-W-A	
Polycarbo-	uischarge	With drain guide	_	C2SF□-J-A	_		 C4SF⊡-J-A	
nate		(without valve function)	With bowl guard	C2SF□-CJ-A	C3SF□-J-A			
	Note) Automatic	Normally closed (N.C.)						
	discharge	Normany Closed (N.C.)	With bowl guard	AD27-C-A	AD37□-A	AD47□-A		
	(Auto drain) Normally open (N.C		With bowl guard	_	AD38□-A		AD48□-A	
	Manual	With drain cock	-	C2SF-6-A		—		
		With Grain Cock	With bowl guard	C2SF-6C-A	C3SF-6-A		C4SF-6-A	
	discharge	Drain cock with barb fitting		-	C3SF-6W-A		C4SF-6W-A	
Nylon	uischarge	With drain guide	-	C2SF□-6J-A	-		-	
NyIOII		(without valve function)	With bowl guard	C2SF□-6CJ-A	C3SF□-6J-A		C4SF□-6J-A	
	Note) Automatic	Normally closed (N.C.)	—	AD27-6-A	—		—	
	discharge	Normany closed (N.C.)	With bowl guard	AD27-6C-A	AD37□-6-A		AD47□-6-A	
	(Auto drain)	Normally open (N.O.)	With bowl guard	_	AD38□-6-A		AD480-6-A	
		With drain cock		C2SF-2-A	C3SF-2-A		C4SF-2-A	
	Manual		With level gauge	_	C3LF-8-A		C4LF-8-A	
	discharge	With drain guide	_	C2SF -2J-A	C3SFD-2J-A		C4SF🗆-2J-A	
Metal		(without valve function)	With level gauge	_	C3LF□-8J-A		C4LF□-8J-A	
weldi	Note)	Normally closed (N.C.)	_	AD27-2-A	AD37□-2-A		AD470-2-A	
	Automatic	Normany closed (N.C.)	With level gauge	_	AD37□-8-A		AD47□-8-A	
	discharge	discharge	_	_	AD38□-2-A		AD480-2-A	
	(Auto drain)		With level gauge	—	AD38□-8-A		AD48□-8-A	



Pressure Control Equipment Modular F.R. I Air Preparation Equipment

Air Preparation Equipment

Filters

Industrial

Replacement Procedure

Actuators

Rotary Actuators Air Grippers

Mist Separator Regulator/Micro Mist Separator Regulator AWM(D)20 to AWM(D)40 The Replacement

Construction



* The numbers correspond with those in the "Construction" of the AW series in the Web Catalog

Note 1) The assembly of a bracket and set nuts Note 2) \Box 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) Including an O-ring and 2 mounting screws. []: Pressure gauge cover only Note 4) 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, refer to the Web Catalog. A separate pressure switch adapter assembly (AW60P-310AS) is required only for AW60(K). For mounting, please use the included mounting screws (M3 x 0.5 x 14).
 - The mounting screw (M3 x 0.5 x 7)

Replacement Parts/Part Nos.

					Model	
No.	Descrip	otion	Material	AWM20 AWD20	AWM30 AWD30	AWM40 AWD40
3	Valve assembl	у	Brass, HNBR	AWM20P-090AS	AWM30P-090AS	AWM40P-090AS
	Element ecoembly	AWM20 to AWM40	—	AFM20P-060AS	AFM30P-060AS	AFM40P-060AS
4	Element assembly	AWD20 to AWD40	—	AFD20P-060AS	AFD30P-060AS	AFD40P-060AS
5	Diaphragm as	sembly	Weather resistant NBR	AR20P-150AS	AR30P-150AS	AR40P-150AS
6	Bowl O-ring		NBR	C2SFP-260S	C3SFP-260S	C4SFP-260S
$\overline{\mathcal{O}}$	Bowl assembly	V Note 1)	Polycarbonate	C2SF	C3SF Note 2)	C4SF Note 2)

Procedure is on p. 678. 684

Note 1) Including a bowl O-ring. Please contact SMC regarding the bowl assembly supply for psi and °F unit specifications.

Note 2) The bowl assembly for the AWM30/40, AWD30/40 comes with a bowl guard (steel band material).

Options/Part Nos.

				Model			
	Optional speci	fications	AWM20 AWD20	AWM30 AWD30	AWM40 AWD40		
Bracket	assembly Note 1)	AW20P-270AS	AR30P-270AS	AR40P-270AS		
Set nut			AR20P-260S	AR30P-260S	AR40P-260S		
Round		Standard	G36-1	0-□01	G46-10-□02		
	type Note 2)	0.02 to 0.2 MPa setting	G36-2-□01		G46-2-□02		
Pressure	Round type Note 2) (with color zone)	Standard	G36-10-□01-L		G46-10-□02-L		
gauge		0.02 to 0.2 MPa setting	G36-2-□01-L		G46-2-□02-L		
	Square embedded	Standard	GC3-10AS [GC3P-010AS (Pressure gauge cover only)]				
	type Note 3)	0.02 to 0.2 MPa setting	GC3-2AS [GC3P-	010AS (Pressure g	auge cover only)]		
		NPN output/Wiring bottom entry	ISE35-N-25-MLA	(ISE35-N-25-M (S	witch body only)]		
	oressure	NPN output/Wiring top entry	ISE35-R-25-MLA	(ISE35-R-25-M (S	witch body only)]		
switch	lote 4)	PNP output/Wiring bottom entry	ISE35-N-65-MLA	(ISE35-N-65-M (S	witch body only)]		
		PNP output/Wiring top entry	ISE35-R-65-MLA	(ISE35-R-65-M (S	witch body only)]		
Float ty	pe auto	N.C.	AD27	AD37	AD47		
drain Not	e 5) Note 6)	N.O.	—	AD38	AD48		

Semi-standard: Bowl Assembly/Part Nos.

Semi-s	standa	ard spe	ecifica	tions		Model				
Bowl material	Float	Note 6) type drain N.O.	Note 6) With drain guide	With barb fitting	With bowl guard	AWM20 AWD20	AWM30 AWD30	AWM40 AWD40		
	_	_	_	_	•	C2SF-C	_	_		
	٠	—	—	_		AD27-C	_	_		
Polycarbonate	_	—	•	_	—	C2SF-J	C3SF-J	C4SF-J		
	_	—	—	•	_	_	C3SF-W	C4SF-W		
	—	—	•	_	•	C2SF-CJ	—	—		
	—	—	—	-	—	C2SF-6	C3SF-6	C4SF-6		
	—	—	—	-		C2SF-6C	_	—		
	۲	—	—	-	—	AD27-6	AD37-6	AD47-6		
Nylon	—	•	—	-	—	_	AD38-6	AD48-6		
Nyion	•	-	-	—	•	AD27-6C	—	—		
	—	-	•	_	—	C2SF-6J	C3SF-6J	C4SF-6J		
	_	-	-	•	-	_	C3SF-6W	C4SF-6W		
	—	—	•	_	•	C2SF-6CJ	—	—		
	_	_	_	_	_	C2SF-2	C3SF-2	C4SF-2		
Metal	۲	_	—	_	_	AD27-2	AD37-2	AD47-2		
wetai	_	•	_	_	—	_	AD38-2	AD48-2		
		—	•	_	—	C2SF-2J	C3SF-2J	C4SF-2J		
	_	—	_	_	_	_	C3LF-8	C4LF-8		
Metal bowl with	٠	_	_	_	_	_	AD37-8	AD47-8		
level gauge	_	•	_	-	—	_	AD38-8	AD48-8		
	_	—	•	—	—	_	C3LF-8J	C4LF-8J		

attached to the digital pressure switch assembly will not be required. Note 5) Min. operating pressure: N.O. type-0.1 MPa; N.C. type-0.1 MPa (AD27) and 0.15 MPa

(AD37/47). Please contact SMC for psi and °F unit specifications.

Note 6) Please consult SMC for details on drain piping to fit NPT or G port sizes.

Note) • Including O-ring.

• The bowl assembly for the AWM30/40, AWD30/40 comes with a bowl guard (steel band material). (except when the bowl material is metal)



Regulator with Built-in Pressure Gauge ARG20(K)/30(K)/40(K) Replacement Procedure is on p. 690

Construction



Replacement Parts/Part Nos.

No.	Description	Material	0		Model		Note	tor
INO.	Description	wateria	Qty.	ARG20(K)	ARG30(K)	ARG40(K)	Note	tua
4	Valve	Brass, HNBR	1	AR20P-410S	AR30P-410S	AR40P-410S		Ac
5	Diaphragm assembly	Weather resistant NBR	1	AR20P-150AS	AR30P-150AS	AR40P-150AS		
6	Valve guide assembly	POM, NBR	1	AR20P-050AS	AR30P-050AS	AR40P-050AS		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
7	Pressure gauge cover	PC	1	ARG20P-400S	ARG30P-400S	ARG40P-400S		ator
8	Pressure gauge Note 1)	_	1	GB2-10AS	GB3-10AS	GB4-10AS		ctua
9	Clip	Stainless steel	1	ARG20P-420S	ARG30P-420S	ARG40P-420S		y A ripp
10	Check valve assembly Note 2)	—	1		AR20KP-020AS		ARG20K, 30K, 40K	Rotary Air Grij
Note 1) Only the standard part numb	are are listed for th						A B

Note 1) Only the standard part numbers are listed for the pressure gauges.

Note 2) The assembly of a check valve body assembly, check valve cover and mounting 2 screws

Options/Part Nos.

	Applicable mod		Applicable model	ARG20(K)	ARG30(K)	ARG40(K)
Option	Option		Andzo(it)	Andoo(R)		
Bracket assembly Note 1)				ARG20P-270AS	ARG30P-270AS	ARG40P-270AS
Set nut				ARG20P-260S	ARG30P-260S	ARG40P-260S
	Pressure	Standard	0 to 1.0 MPa	GB2-10AS	GB3-10AS	GB4-10AS
Pressure	gauge		0 to 0.3 MPa	GB2-3AS	GB3-3AS	GB4-3AS
gauge	display	Optional	0 to 150 psi	GB2-P10AS	GB3-P10AS	GB4-P10AS
	range		0 to 45 psi	GB2-P3AS	GB3-P3AS	GB4-P3AS

Note 1) The assembly of a bracket and set nuts

@SMC

The

Actuators

Rotary Actuators Air Grippers

Air Preparation Equipment

ndustrial Filters

Replacement Procedure

s

Equipment

Aodular F.R.I

Air Preparation Equipment Industrial Filters

Filter Regulator with Built-in Pressure Gauge

AWG20/30/40



Construction



* The numbers correspond with those in the "Construction" of the AWG series in the Web Catalog.

Model No. Description Material Qty. Note AWG20 AWG30 AWG40 4 AW20P-340AS Brass, HNBR AW30P-340AS AW40P-340AS Valve assembly 1 5 Filter element Non-woven fabric 1 AF20P-060S AF30P-060S AF40P-060S 6 Diaphragm assembly Weather resistant NBR 1 AR20P-150AS AR30P-150AS AR40P-150AS 7 C2SFP-260S **Bowl O-ring** NBR 1 C3SFP-260S C4SFP-260S C3SF Note 2) C4SF Note 2) Bowl assembly Note 1) 8 PC 1 C2SF 9 Pressure gauge Note 3) 1 GB2-10AS GB3-10AS GB4-10AS 10 Pressure gauge cover PC ARG20P-400S ARG30P-400S ARG40P-400S 1 11 Clip ARG20P-420S ARG30P-420S ARG40P-420S Stainless steel 1

Replacement Parts/Part Nos

Note 1) Including a bowl O-ring. Contact SMC regarding the bowl assembly supply for psi and °F unit specifications.

Note 2) The bowl assembly for AWG30/40 comes with a bowl guard (steel band material).

Note 3) Only the standard part numbers are listed in the pressure gauges. For the semi-standard part numbers, refer to the optional part numbers.

Options/Part Nos.

Option Applicable mod		Applicable model	AWG20 AWG30		AWG40				
Bracket assembly Note 1)				ARG20P-270AS	ARG30P-270AS	ARG40P-270AS			
Set nut				ARG20P-260S	ARG30P-260S	ARG40P-260S			
	Pressure	Standard	0 to 1.0 MPa	GB2-10AS	GB3-10AS	GB4-10AS			
Pressure	gauge	Optional				0 to 0.3 MPa	GB2-3AS	GB3-3AS	GB4-3AS
gauge	display		0 to 150 psi	GB2-P10AS	GB3-P10AS	GB4-P10AS			
	range		0 to 45 psi	GB2-P3AS	GB3-P3AS	GB4-P3AS			
Float type auto drain Note 2			N.O.	_	AD38	AD48			
			N.C.	AD27	AD37	AD47			

Note 1) The assembly of a bracket and set nuts

Note 2) Min. operating pressure: N.O. type–0.1 MPa; N.C. type–0.1 MPa (AD27) and 0.15 MPa (AD37/47). Contact SMC regarding the specifications for psi unit and °F.



Filter Regulator with Built-in Pressure Gauge with Backflow Function

AWG20K/30K/40K

Construction



* The numbers correspond with those in the "Construction" of the AWG series in the Web Catalog

N -	Description	Material	0.		Model		Nete	ent		
No.	Description	Material	Qty.	AWG20K	AWG30K	AWG40K	Note	lacemei cedure		
4	Valve assembly	Brass, HNBR	1	AW20P-340AS	AW30P-340AS	AW40P-340AS		Replac		
5	Filter element	Non-woven fabric	1	AF20P-060S	AF30P-060S	AF40P-060S		Pro		
6	Diaphragm assembly	Weather resistant NBR	1	AR20P-150AS	AR30P-150AS	AR40P-150AS				
7	Bowl O-ring	NBR	1	C2SFP-260S	C3SFP-260S	C4SFP-260S		s		
8	Bowl assembly Note 1)	PC	1	C2SF	C3SF Note2)	C4SF Note2)		ato		
9	Pressure gauge Note 3)	—	1	GB2-10AS	GB3-10AS	GB4-10AS		Actu		
10	Pressure gauge cover	PC	1	ARG20P-400S	ARG30P-400S	ARG40P-400S		A		
11	Clip	Stainless steel	1	ARG20P-420S	ARG30P-420S	ARG40P-420S		\leq		
12	Check valve assembly	—	1		AR20KP-020AS			SIC		
Note 2	12 Check valve assembly — 1 AH20KP-020AS Note 1) Including a bowl O-ring. Contact SMC regarding the bowl assembly supply for psi and °F unit specifications. Note 2) The bowl assembly (AWG30K/40K) comes with a bowl guard (steel band material). Note 3) Only the standard part numbers are listed for the pressure gauges. For the semi-standard part numbers, refer to the optional part numbers. For the semi-standard part numbers.									

Replacement Parts/Part Nos.

Options/Part Nos.

Option Applicable		Applicable model	AWG20K	AWG30K	AWG40K	
Bracket assembly Note 1)		ARG20P-270AS	ARG30P-270AS	ARG40P-270AS		
Set nut				ARG20P-260S	ARG30P-260S	ARG40P-260S
	Pressure	Standard	0 to 1.0 MPa	GB2-10AS	GB3-10AS	GB4-10AS
Pressure	gauge		0 to 0.3 MPa	GB2-3AS	GB3-3AS	GB4-3AS
gauge	display	Optional	0 to 150 psi	GB2-P10AS	GB3-P10AS	GB4-P10AS
	range		0 to 45 psi	GB2-P3AS	GB3-P3AS	GB4-P3AS
Float type auto drain Note 2) N.O. N.C.		—	AD38	AD48		
		N.C.	AD27	AD37	AD47	

Note 1) The assembly of a bracket and set nuts

Note 2) Min. operating pressure: N.O. type-0.1 MPa; N.C. type-0.1 MPa (AD27) and 0.15 MPa (AD37/47). Contact SMC regarding the specifications for psi unit and °F



Rotary Act

lodular F.R.I

Air Preparation Equipment Industrial Filters

Air

Equipment

Pilot Operated Regulator

AR425 to 935



Construction



* The numbers correspond with those in the "Construction" of the AR series in the Web Catalog.

Replacement Parts/Part Nos.

No.	Description	Material	0	Model					
INO.	Description	Material	Qty.	AR425/435	AR625/635	AR825/835	AR925/935	Note	
5, 11	Exhaust valve assembly Note 1)	_	1	132586A	132586A	132586A	132586A		
6	Main valve side diaphragm assembly	—	1	132581A	132659A	13275A	13285A		
7	Valve assembly	—	1	132572A	132653A	132752A	132829A		
8	A. P P	Oto al suina	-	135053(AR425)	135053(AR625)	135053(AR825)	135053(AR925)		
0	Adjusting spring	Steel wire	1	135025(AR435)	135025(AR635)	135025(AR835)	135025(AR935)		
9	Valve spring	Stainless steel	1	135211	132656	132713	13289		
10	Knob	ABS	1	13414					

Note 1) Including a diaphragm

Options/Part Nos.

	Options/part nos.							
Description Model	AR4 5	AR6 5	AR8_5	AR9_5				
Bracket	B24P	B25P						
Pressure gauge with limit indicator Note 1)	G46-10-□02 (Max. 1.0 MPa), G46-2-□02 (Max. 0.2 MPa)							

Note 1) • In the gauge part no. (e.g. G46-10- 102), Indicate kind of the connecting thread. Put nothing for Rc and "N" for NPT thread. • Please consult with SMC for NPT pressure gauge.

Note 2) Use caution not to tighten excessively when mounting a pressure gauge, otherwise it may result in a breakdown. Use a pipe tape for sealing. Recommended torque: 12 to 14 N·m.

MR Unit (Regulator with Mist Separator) AMR3000 to 6000



Actuators

Rotary Actuators Air Grippers

Air Preparation Equipment

Filters

Industrial

Replacement Procedure

Actuators

Rotary Actuators Air Grippers

Pressure Control Equipment Modular F.R.I

Preparation Equipment

Air Preparation Eq Industrial Filters

Construction



Auto-drain type



* The numbers correspond with those in the "Construction" of the AMR series in the Web Catalog.

Replacement Parts/Part Nos.

No.	Description	Material	011		Мо	del		Note	
INO.	Description	Material	Material	Qty.	AMR3000	AMR4000	AMR5000	AMR6000	Note
4	Bowl assembly	Aluminum die-casted	1	13573A	13553A	13583A	13563A		
5	Diaphragm assembly	Weather resistant NBR	1	1349161A	131515A	131515A	131614A		
6	Element Note)	_	1	13579	135511	13589	13569		
7	Valve assembly	Brass, HNBR	1	135711A	13154A	135811A	135614-1A		
8	Valve spring	Stainless steel	1	135011	131514	131613	135413		
9	O-ring	NBR	1	KA00064	KA00466	KA00452	KA00455		
10	Gasket	Fiber	1	135714	635327	635327	63555		
11	Knob	POM	1	1349167	131534	131534	131634		
NI-L-X	The MO contribution of the second	Liber and a second second second		and the terms to all					

Note) The MC cartridge element and the separation element are integrated.

Accessory (Standard)/Part Nos.

Description	AMR3000	AMR3000 AMR4000		AMR6000	
Bracket	13576	13556	13587	13568	
Pressure gauge Note 5, 6) 1.0 MPa	G36-1	0-□01	G46-10-□02		

Accessories (Option)/Part Nos.

Description	AMR3000	AMR4000	AMR5000	AMR6000	
Adapter assembly Note 7)	¹ ⁄₄: E3-02□ ³ ∕ ₈ : E3-03□	¹ ⁄ ₄ : E4-02 ³ ⁄ ₈ : E4-03 ¹ ∕ ₂ : E4-04	¹ ⁄2∶E5-04□ ³ ∕4∶E5-06□	³ ⁄₄: E6-06□ 1 : E6-10□	
Float type auto drain (AMR□100) Note 8)	AD33-X203	AD33-X202	AD33-X210	AD33-X201	
Compact pressure switch		MPa setting)			
Elbow (B x Bc) Note 9)	135	510	135613		

Note 5) • □ in the gauge part number (e.g. G36-10-□01) indicates thread. Specify no symbol for "Rc", and "N" for "NPT." • Please consult with SMC if "NPT" gauge is required.

Note 6) Use caution not to tighten excessively when mounting a pressure gauge, otherwise it may result in a breakdown. Use a pipe tape for sealing. Recommended tightening torque for pressure regulator: R 1/8 = 7 to 9 N·m, R 1/4 = 12 to 14 N·m

Note 7) Piping adapter, O-ring, Hexagon socket bolt, Hexagon socket bolt assembly. These are shipped together with products. "

" in the gauge part number indicates thread type. Specify no symbol for "RC", "N" for "NPT", and "G" for "F." Note 8) Min. operating pressure = 0.1 MPa

Note 9) If a compact pressure switch is mounted later on, an elbow (R x Rc) is necessary.

Compact Manifold Regulator/Centralized Supply Type

ARM5A Series

The Replacement Procedure is on p. 708

Construction



Replacement Parts

No.	Description	Material	Qty.	Part no.
Α	O-ring	NBR	1	136019
в	Fitting assembly	_	1	See below
С	Port plug	PBT, HNBR	1	See below
D	Clip	Stainless steel	3	136010





* The numbers correspond with those in the "Construction" of the ARM5A series in the **Web Catalog**.



Note) The O-ring is attached. Refer to page 708 for details of the replacement.

	One-touch fittings for centralized supply block					
Fitting size	Straight	Elbow	Elbow	Elbow		
	R	S	Т	U		
ø4, ø5/32	_	_	_	_		
ø6	3	12.5	19	35.5		
ø1/4	3	12.5	19	35.5		
ø8, ø5/16	5	13.5	21	38.5		

Note) The O-ring is attached.

SMC

Refer to page 709 for details of the replacement.

Compact Manifold Regulator/Individual Supply Type

ARM5B Series



Actuators

Rotary Actuators Air Grippers

Air Preparation Equipment

Industrial Filters

Replacement Procedure

Actuators

Rotary Actuators Air Grippers

Pressure Control Equipment

Modular F.R.L.

Air Preparation Equipment Industrial Filters

Construction





Replacement Parts

No.	Description	Material	Qty.	Part no.
Α	Fitting assembly	—	2	See below
в	Port plug	PBT, HNBR	1	See below
С	Clip	Stainless steel	3	136010

One-touch Fittings for Regulator Block





* The numbers correspond with those in the "Construction" of the ARM5B series in the Web Catalog.

Port Plug



Port plug for regulator block



Note) The O-ring is attached. Refer to page 708 for details of the replacement.

	One-touch fittings for regulator block				
Fitting size	Straight	Elbow	Elbow	Elbow	
	V	W	Х	Y	
ø4, ø5/32	2.5	6	11	35.5	
ø6	3	6.5	11	36	
ø1/4	6.5	6	11.5	38.5	
ø8, ø5/16	_	_	_	_	

Note) The O-ring is attached.

SMC

Refer to page 709 for details of the replacement.

326

Regulator/Single Unit Type **ARM55 Series**



Construction



One-touch Fittings for Regulator



* The numbers correspond with those in the "Construction" of the ARM5S series in the **Web Catalog**.

Replacement Parts

No.	Description	Material	Qty.	Part no.
Α	Fitting assembly	—	2	See below
в	Port plug	PBT, HNBR	1	See below
С	Clip	Stainless steel	3	136010

Port Plug

VVQ0000-58A



Single unit regulator/ • Port plug for regulator block



Note) The O-ring is attached. Refer to page 708 for details of the replacement.

Straight type





Elbow type



	One-touch fittings for regulator					
Fitting size	Straight	Elbow	Elbow	Elbow		
	V	W	Х	Y		
ø4, ø5/32	2.5	6	11	35.5		
ø6	3	6.5	11	36		
ø1/4	6.5	6	11.5	38.5		
ø8, ø5/16	_	_	_	_		

Note) The O-ring is attached.

Refer to page 709 for details of the replacement.

Regulator/Single Unit Type **ARM10 Series**



Actuators

Rotary Actuators Air Grippers

Air Preparation Equipment

Industrial Filters

Construction



Replacement Parts

nop							
No.	Description	Material	Part no.	Note			
Α	Diaphragm	Weather resistant	136126A	Relieving type			
~	assembly	NBR, POM	136126-1A	Non-relieving type			
в	Valve	HNBR,	136127-30#1				
D	valve	Aluminum alloy	130127-30#1				
С	Valve spring	Stainless steel	136131				
D	O-ring	NBR	136146	Standard model			
U		HNBR	136146-30	Oil-free specification			
Е	O-ring	NBR	136147	Standard model			
E		HNBR	136147-30	Oil-free specification			
		NBR	136148	Standard model			
		HNBR	136148-30	Oil-free specification			
F	O-ring	NBR	KA01731	Standard model for digital pressure switch			
		HNBR	KA01613	Oil-free spec. for digital pressure switch			
G	Fitting assembly	_	The right reference				

ARM10F

* The numbers correspond with those in the "Construction" of the ARM10 series in the Web Catalog.

One-touch Fittings for Regulator VVQ1000-50A - C4 -One-touch fittings Fitting type for regulator Symbol Type

Nil

.

LI		E	bow	
Fitti	ng s	ize •		
Symbol	S	ize	1	
C4	¢	¥4]	0
C6	ø	96		Syn
N3	ø5	/32		
N7	ø	1/4		X

Straight

	Option •	
Symbol	Description	
Nil	None	
X17	Oil-free	

ARM10







Fitting size	Х
ø4, ø5/32	2
ø6	2
ø1/4	6

Fitting size	X	Y
ø4, ø5/32	10.5	21.5
ø6	10.5	22
ø1/4	10.5	24.5

ARM10F



Elbow type

SMC



Fitting size	х
ø4, ø5/32	7
ø6	7
ø1/4	11
~ -	7

х	Y
15.5	21.5
15.5	22
15.5	24.5
	15.5 15.5

Pressure Control Equipment

Modular F.R.L

Air Preparation Equipment Industrial Filters

Compact Manifold Regulator/Common Supply Type

ARM11A Series

Construction





The Replacement Procedure is on p. 712

* The numbers correspond with those in the "Construction" of the ARM11A series in the Web Catalog.

Rep	lacement Parts
No	Description

No.	Description	Material	Part no.	Note	
Α	Diaphragm assembly	Weather resistant NBR, POM	136126A	Relieving type	
			136126-1A	Non-relieving type	
в	Valve	HNBR, Aluminum alloy	136127-30#1		
С	Valve spring	Stainless steel	136131		
D	Gasket	HNBR	136137-30		
Е	O-ring	NBR	136146	Standard model	
E		HNBR	136146-30	Oil-free specification	
F	O-ring	NBR	136147	Standard model	
		HNBR	136147-30	Oil-free specification	
G	O-ring	NBR	136148	Standard model	
		HNBR	136148-30	Oil-free specification	
		NBR	KA01731	Standard model for digital pressure switch	
		HNBR	KA01613	Oil-free spec. for digital pressure switch	
н	O-ring	NBR	136149	Standard model	
п		HNBR	136149-30	Oil-free specification	
J	Fitting assembly	_	Refer to page 331.		
к	Port plug	PBT/HNBR	Refer to page 331.		



Compact Manifold Regulator/Individual Supply Type

ARM11B Series



NI

€€

 \bigcirc

SMC

(H)

TUO

ĸ

h





١o.	Description	Material	Part no.	Note	na
A	Diaphragm assembly	Weather resistant NBR, POM	136126A	Relieving type	Actuators
A	Diaphragin assembly	Weather resistant NBR, POW	136126-1A	Non-relieving type	
в	Valve	HNBR, Aluminum alloy	136127-30#1		
С	Valve spring	Stainless steel	136131		Actuators
D	Gasket	HNBR	136137-30		ctua
F O size a	Е	NBR	136146	Standard model	Rotary Actual
	O-ring	HNBR	136146-30	Oil-free specification	otai
F O-ring	NBR	136147	Standard model	(°	
Г	0-mig	HNBR	136147-30	Oil-free specification	
	O-ring	NBR	136148	Standard model	Modular F.R.L.
G		HNBR	136148-30	Oil-free specification	
G		NBR	KA01731	Standard model for digital pressure switch	ar F.R.
		HNBR	KA01613	Oil-free spec. for digital pressure switch	Vodula
ш	O ring	NBR	136149	Standard model	
H	O-ring	HNBR	136149-30	Oil-free specification	Air Preparation Equipment
J	Fitting assembly	—	Refer to page 331.		Equip
к	Port plug	PBT/HNBR	Refer to page 331.		ation

SMC

The Replacement Procedure is on p. 712

Actuators

Rotary Actuators Air Grippers

Air Preparation Equipment

Industrial Filters

Replacement Procedure

Compact Manifold Regulator **ARM11A/B** Series

Options



One-touch Fittings for Regulator Block





Fitting size	Х
ø4, ø5/32	3
ø6	3
ø1/4	7

EI	bow	type



Fitting size	X	Y
ø4, ø5/32	11.5	19
ø6	11.5	19.5
ø1/4	11.5	22

One-touch Fittings for Common Supply Block





Fitting size	Х
ø6	5
ø8, ø5/16	5
ø10, ø3/8	5.5
ø1/4	5



Fitting size	Х	Y
ø6	19	20
ø8, ø5/16	20	23
ø10, ø3/8	22	26
ø1/4	19	20.5

Port Plug



