

Фильтр AF10-60 M5 ~ G1

Предназначен для удаления из сжатого воздуха механических загрязнений и конденсата

- Фильтрующий элемент, изготовленный из пластика, обеспечивает увеличенный расход воздуха при высокой степени очистки (5 мкм)
- Легкая замена фильтрующего элемента
- Пригоден для модульного монтажа

Технические характеристики

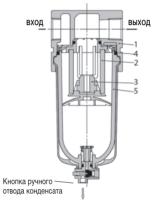
Типоразмер	AF10	AF20	AF30	AF40	AF50	AF60		
Присоединительная резьба	M5	G1/8, G1/4	G1/4, G3/8	G1/4, G3/8, G1/2	G3/4, G1	G1		
Номинальный расход ¹⁾ (н. л/м	іин)	150	1100	2600	4100	8000	9000	
Испытательное давление (МГ	la)	1.5 (3.0 c	пец.исполнен	ие)				
Макс. рабочее давление (МП	a)	1.0 (2.0 спец.исполнение)						
Мин. рабочее давление	H.O.	0.1 МПа						
с автоматич. отводом (МПа)	H.3.	0.1 МПа	0.1 MΠa 0.15 MΠa					
Диапазон рабочих температу	rp (°C)	-5 ~ 60 (d	стандарт), -30	~ 60 (опция -Х	430) ²⁾			
Тонкость фильтрации (мкм)		5						
Материал резервуара		Поликар	бонат ^{з)}					
Объем резервуара (см³)		2.5	8	25	45	45	45	
Вес (кг)		0.06	0.08	0.18	0.36	0.87	1.00	
Защитный колпак	-	По запросу (сталь)	Стандарт (кожух из поликарбоната)					

- 1) При давлении на входе 0.7 МПа и перепаде давлений 0.05 МПа 2) Исполнения для более высоких (-5 \sim 80) температур по запросу.
- 3) Металл или нейлон по запросу.

Номер для заказа

Типо-	Присоед.	Номер для заказа			
размер	резьба	Отвод конденсата	Автоматический	Исполнение для раб.	Низкотемп. исполнение
		вручную	отвод	давления 2.0 МПа	(от –30 до +60 °C)
10	M5	AF10-M5-A	AF10-M5C-A	•	•
20	G1/8	AF20-F01-A	AF20-F01C-A	AF20-F01- A-X425	•
	G1/4	AF20-F02-A	AF20-F02C-A	AF20-F02- A - X425	•
30	G1/4	AF30-F02-A	AF30-F02D-A	AF30-F02- A -X425	AF30-F02-2-A-X430
	G3/8	AF30-F03-A	AF30-F03D-A	AF30-F03- A-X425	AF30-F03-2-A-X430
40	G1/4	AF40-F02-A	AF40-F02D-A	AF40-F02- A -X425	AF40-F02-2-A-X430
	G3/8	AF40-F03-A	AF40-F03D-A	AF40-F03- A -X425	AF40-F03-2-A-X430
	G1/2	AF40-F04-A	AF40-F04D-A	AF40-F04- A -X425	AF40-F04-2-A-X430
50	G3/4	AF50-F06-A	AF50-F06D-A	AF50-F06- A = X425	AF50-F06-2-A-X430
	G1	AF50-F10-A	AF50-F10D-A	AF50-F10- A-X425	AF50-F10-2-A-X430
60	G1	AF60-F10-A	AF60-F10D-A	AF60-F10- A -X425	AF60-F10-2-A-X430





Спецификация

Поз.	Обозначение	Материал
1	Крыльчатка	Алюминий
2	Фильтрующий элемент	Нетканый матер.
3	Разделительная перегородка	PBT
4	Кольцевое уплотнение	NBR
5	Резервуар	Поликарбонат

Принадлежности для стандартного исполнения (заказываются отдельно)

in the state of th							
Типоразмер		10	20	30	40	50	60
Крепежный угольник ¹⁾		-	AF22P-050AS	AF32P-050AS	AF42P-050AS	AF52P-050AS	
Стакан с автомат.	H.O.	-	-	AD38-A	AD48-A	AD48-A	AD48-A
отводом конденсата ²⁾ H.3.		AD17-A	AD27-A	AD37-A	AD47-A	AD47-A	AD47-A
Сменный фильтрующий элемент		AF10P-060S	AF20P-060S	AF30P-060S	AF40P-060S	AF50P-060S	AF60P-060S

- 1) Комплект включает угольник и два установочных винта 2) Минимальное рабочее давление: H.O. 0.1 МПа; H.З. 0.1 МПа (AD17/27) и 0.15 МПа (AD37/47)

Микрофильтр / Субмикрофильтр **AFM/AFD20-40**

G1/8 ~ G1/2

Предназначен для защиты оборудования / прецизионного оборудования.

- Удаляет из сжатого воздуха масляный туман и механические частицы свыше 0.3 / 0.01 мкм
- Легкая замена фильтрующего элемента
- Пригоден для модульного монтажа

Технические характеристики

Типоразмер		20	30	40	
Присоединительная ре	зьба	G1/8, G1/4	G1/4, G3/8	G1/4, G3/8, G1/2	
Номинальный расход	Микрофильтр AFM	200	450	1100	
воздуха ¹⁾ (норм. л/мин)	Субмикрофильтр AFD	120	240	600	
Испытательное давлен	ие (МПа)	1.5			
Макс. рабочее давлени	ne (МПа)	1.0			
Мин. рабочее давление	е (МПа)	0.05			
Диапазон рабочих тем	ператур (°C)	-5 ~ 60 (при низких температурах применять сухой воздух)			
Тонкость	Микрофильтр AFM	0.3 (99,9 % фильтрация частиц)			
фильтрации (мкм)	Субмикрофильтр AFD	0.01 (99,9 % фильтрация частиц)			
Материал резервуара		Поликарбонат	Поликарбонат		
Вес (кг)		0.09	0.19	0.38	
Металлический защитн	ный колпак	По запросу (сталь)	Стандарт (кожух и	з поликарбоната)	
Объем резервуара (см	3)	8	25	45	

¹⁾ При давлении на входе Р=0.7 МПа. Расход зависит от давления на входе.

AFM20 APRIL - 07 - 1



AFM40











Номер для заказа

Типо-	Присоед.	Микрофильтр		Субмикрофил	ьтр
размер	резьба	Ручной отвод конденсата	Автомат. отвод конденсата	Ручной отвод конденсата	Автомат. отвод конденсата
20	G1/8	AFM20-F01-A	AFM20-F01C-A	AFD20-F01-A	AFD20-F01C-A
	G1/4	AFM20-F02-A	AFM20-F02C-A	AFD20-F02-A	AFD20-F02C-A
30	G1/4	AFM30-F02-A	AFM30-F02D-A	AFD30-F02-A	AFD30-F02D-A
	G3/8	AFM30-F03-A	AFM30-F03D-A	AFD30-F03-A	AFD30-F03D-A
40	G1/4	AFM40-F02-A	AFM40-F02D-A	AFD40-F02-A	AFD40-F02D-A
	G3/8	AFM40-F03-A	AFM40-F03D-A	AFD40-F03-A	AFD40-F03D-A
	G1/2	AFM40-F04-A	AFM40-F04D-A	AFD40-F04-A	AFD40-F04D-A

Принадлежности (заказываются отдельно)

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Типоразмер		20	30	40
Крепежный угольник 1)		AF20P-050AS	AF30P-050AS	AF40P-050AS
Стакан с автом.	H.O.	-	AD38-A	AD48-A
отводом конденсата ²⁾	H.3.	AD27-A	AD37-A	AD47-A
Сменный	AFD	AFD20P-060AS	AFD30P-060AS	AFD40P-060AS
фильтр. элемент	AFM	AFM20P-060AS	AFM30P-060AS	AFM40P-060AS

- 1) Комплект включает угольник и два установочных винта
- 2) Минимальное рабочее давление: Н.О. 0.1 МПа, Н.З. 0.1 МПа (AD17/27) и 0.15 МПа (AD37/47)

Модульный монтаж устройств подготовки сжатого воздуха

Компанией SMC разработана надежная. удобная в монтаже и эксплуатации система аппаратов подготовки сжатого воздуха, которая имеет свои преимущества как при монтаже, эксплуатации, техобслуживании, так и при складировании

Регулировка подачи масла вращением прозрачного колпачка Каждое устройство блока подготовки воздуха, включая фильтр, регулятор давления и маслораспылитель, может использоваться самостоятельно и имеет свою собственную присоединительную резьбу. Тем не менее блок может легко перестраиваться, менять свою конфигурацию и состав путем применения промежуточных элементов, которые соединяют между собой отдельные аппараты и одновременно являются креплением всего блока. На промежуточные элементы Все устройства имеют присоединительную резьбу легко монтировать дополнительные устройства, например, реле давления, и могут легко монтироваться на трубах Переходные детали обеспечивают простой монтаж и техобслуживание, высокую надежность и герметичность дополнительный отвод ненасыщенного маслом воздуха и т.д. Благодаря этому можно производить давления стопором. Озоноустойчивый материал (HNBR) замену отдельных устройств без необходимости демонтажа всего блока и ослабления Отвод конденсата вручную Стандартное исполнение со стальным защитным кол начиная с типоразмера 30 его крепления на стене



Регулятор давления

AR10-60

M5 ~ G1

Предназначен для понижения давления сжатого воздуха и поддержания его на заданном уровне

• Пригоден для модульного монтажа

Технические характеристики

Конструктивное исполнение	Поршневые или мембранные регуляторы						
Типоразмер	10	20	25	30	40	50	60
Присоединительная резьба	M5	G1/8,	G1/4,	G1/4,	G1/4,	G3/4,	G1
		G1/4	G3/8	G3/8	G3/8, G1/2	G1	
Номинальный расход1) (н. л/мин)	125	800	1100	1500	3000	8000	10000
Диапазон рабочих температур (°C)	-5 ~ 60 (ста	ндарт), -30 ^г	60 (опция	-X430) ²⁾			
Испытательное давление (МПа)	1.5 (3.0 спе	ц. исполнен	ние)				
Макс. рабочее давление (МПа)	1.0 (2.0 спе	ц. исполнен	ние)				
Диапазон регулирования (МПа)	0.02 ~ 0.2 (по запросу					
	0.05 ~ 0.7	0.05 ~ 0.7	, 0.05 ~ 0.8	35 (0.1 ~ 1.7	опция -Х42	5)	
Резьба для присоедин. манометра ³⁾	Rc1/16 4 G1/8 G1/8 G1/8 G1/8 G1/8				G1/8		
Сброс давления	Установленное вых. давление + 0.05МПа ⁵⁾ (расход сброса 0.1 л/мин)					н)	
Вес (кг)	0.06	0.17	0.19	0.34	0.58	1.17	1.22

- 1) При давлении на входе 0.7 МПа, давлении на выходе при нулевом расходе 0.5 МПа и снижении давления на выходе при изменении расхода от нуля до номинального равном 0.1 МПа 2) Исполнения для более высоких (-5 ~ 80) температур по запросу.
- 3) Не требуется для блоков со встраиваемым квадратным манометром (AR20 AR60)
- 4) Для подсоединения манометра с резьбой 1/8 к отверстию с резьбой 1/16 используйте специальный переходник (арт. 131368)
- 5) Неприменимо к AR10

Номер для заказа

Типоразмер	Присоед.	Номер для заказа					
	резьба	Стандартное і	исполнение	Специальное исполнение			
		0.05 ~ 0.7 M∏a	0.05 ~ 0.85 MΠa	0.02 ~ 0.2 MΠa	0.1 ~ 1.7 MΠa ¹⁾	−30 ~ +60 °C	
10	M5	AR10-M5-A		AR10-M5-1-A	-	-	
20	G1/8	AR20-F01-A	AR20-F01-B	AR20-F01-1-A	AR20-F01-B-X425	-	
	G1/4	AR20-F02-A	AR20-F02-B	AR20-F02-1-A	AR20-F02-B-X425	-	
25	G1/4	AR25-F02-A	AR25-F02-B	AR25-F02-1-A	AR25-F02-B-X425	AR25-F02-B-X430	
	G3/8	AR25-F03-A	AR25-F03-B	AR25-F03-1-A	AR25-F03-B-X425	AR25-F03-B-X430	
30	G1/4	AR30-F02-A	AR30-F02-B	AR30-F02-1-A	AR30-F02-B-X425	AR30-F02-B-X430	
	G3/8	AR30-F03-A	AR30-F03-B	AR30-F03-1-A	AR30-F03-B-X425	AR30-F03-B-X430	
40	G1/4	AR40-F02-A	AR40-F02-B	AR40-F02-1-A	AR40-F02-B-X425	AR40-F02-B-X430	
	G3/8	AR40-F03-A	AR40-F03-B	AR40-F03-1-A	AR40-F03-B-X425	AR40-F03-B-X430	
	G1/2	AR40-F04-A	AR40-F04-B	AR40-F04-1-A	AR40-F04-B-X425	AR40-F04-B-X430	
50	G3/4	-	AR50-F06-B	AR50-F06-1-B	AR50-F06-B-X425	AR50-F06-B-X430	
	G1	-	AR50-F10-B	AR50-F10-1-B	AR50-F10-B-X425	AR50-F10-B-X430	
60	G1	-	AR60-F10-B	AR60-F10-1-B	AR60-F10-B-X425	AR60-F10-B-X430	



Пример:

обеспечение различных давлений для выдвижения и втягивания штока пневмоцилиндра



Принадлежности для стандартного исполнения (заказываются отдельно)

-				1.0	00	05	00	10	T = 0	00
Типоразмер	р			10	20	25	30	40	50	60
Крепежный	i	для исполн	ения А	AR12P-270AS	P-270AS AR22P-270AS AR27P-270AS AR32P-270AS			AR42P-270AS	-	-
угольник ¹⁾		для исполн	ения В	-	AR23P-270AS	AR28P-270AS	AR33P-270AS	AR43P-270AS	AR52P-270AS 2)	
Гайка для		для исполн	ения А	AR12P-260S	AR22P-260S	AR22P-260S	AR32P-260S	AR42P-260S	-	-
панельного	монтаж	а для исполн	ения В	-	AR23P-260S	AR28P-260S	AR33P-260S	AR43P-260S	-	-
Манометр	1.0 MF	а Круглый		G27-10-R1	G36-10-01		G46-10-01			
		Квадратн. в	страив. 3)	-	GC3-10AS					
	0.2 MF	а Круглый		G27-10-R1 ⁴⁾	G36-4-01			G46-4-01		
		Квадратн. в	страив. 3)	-	GC3-4AS					
Реле давле	ения	NPN выход / разъе	м снизу	ISE35-N-25-ML	A					
с цифровой	й	VPN выход / разъе	м сверху	ISE35-R-25-ML	ISE35-R-25-MLA					
индикацией	й ⁵⁾	PNP выход / разъе	м снизу	ISE35-N-65-ML	E35-N-65-MLA					
		PNP выход / разъе	м сверху	ISE35-R-65-MLA						

Примечания: 1) Комплект включает угольник и установочную гайку

- 2) Комплект включает угольник и два установочных винта 3) Только для исполнения В. Уплотнительное кольцо и два установочных винта в комплекте
- 5) Только для исполнения В. Комплект включает кабель (2 м) с разъемом адаптер, фиксатор, кольцевую прокладку (1 шт.) и монтажные винты (2 шт.)

Для всех исполнений манометры заказываются отдельно

¹⁾ Манометры поставляются по запросу



Маслораспылитель

AL10-60

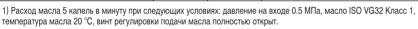
M5 ~ G1

Предназначен для подачи масла в пневмосистему пропорционально расходу сжатого воздуха в случаях когда это необходимо (пневмоинструмент и т.д.)

• Пригоден для модульного монтажа

Технические характеристики

Типоразмер	AL10	AL20	AL30	AL40	AL50	AL60
Присоединительная резьба	M5	G1/8,	G1/4,	G1/4,	G3/4,	G1
		G1/4	G3/8	G3/8, G1/2	G1	
Испытательное давление (МПа)	1.5		•			
Макс. рабочее давление (МПа)	1.0					
Мин. расход, при котором	4	15	1/4: 30	1/4: 30	190	220
возможно маслораспыление 1)			3/8: 40	3/8: 40		
(норм.л/мин)				1/2: 50		
Объем резервуара (см³)	7	25	55	135	135	135
Диапазон рабочих температур (°C) 2)	-5 ~ 60		•			
Рекомендуемое качество масла	ISO VG32, k	ISO VG32, Класс 1				
Материал резервуара	Поликарбон	нат				
Вес (кг)	0.07	0.10	0.20	0.38	0.94	1.09
Защитный колпак	- По запросу Стандарт (кожух из поликарбоната) (сталь)				карбоната)	



²⁾ При низких температурах применять сухой воздух

Для заказа маслораспылителей большего расхода см. серию AL800-900

Номер для заказа

Типоразмер	Присоединительная резьба	Номер для заказа
10	M5	AL10-M5-A
20	G1/8	AL20-F01-A
	G1/4	AL20-F02-A
30	G1/4	AL30-F02-A
	G3/8	AL30-F03-A
40	G1/4	AL40-F02-A
	G3/8	AL40-F03-A
	G1/2	AL40-F04-A
50	G3/4	AL50-F06-A
	G1	AL50-F10-A
60	G1	AL60-F10-A

Принадлежности (заказываются отдельно)

Типоразмер	10	20	30	40	50	60
Крепежный угольник ¹⁾	_	AF22P-050AS	AF32P-050AS	AF42P-050AS	AF52P-050AS	
Резервуар 2)	C1SL-3-A	C2SL-3C-A 3)	C3SL-3-A	C4SL-3-A	C4SL-3-A	

- 1) Комплект включает угольник и 2 установочных винта
- 2) Комплект включает уплотнительное кольцо
- 3) Поставляется со стальным защитным колпаком



Фильтр / регулятор AW10-60

 $M5 \sim G1$

Комбинация двух устройств – воздушного фильтра и регулятора давления в одном корпусе, что позволяет экономить рабочее пространство AW40

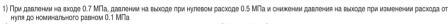
Предназначен для удаления из сжатого воздуха механических загрязнений и конденсата, а также для понижения давления сжатого воздуха и поддержания его на заданном уровне

• Фильтрующий элемент, изготовленный из пластика, обеспечивает увеличенный расход воздуха при высокой степени очистки (5 мкм)

- Легкая замена фильтрующего элемента. Пригоден для модульного монтажа
- Высокотемпературные (до +80) и низкотемпературные (от -30) исполнения

Технические характеристики

Конструктивное исполнение	Поршневой и	и мембранный (регулятор				
Типоразмер	10	20	30	40	60		
Присоединительная резьба	M5	G1/8, 1/4	G1/4, 3/8	G1/4,3/8,1/2, 3/4	G3/4, 1		
Номинальный расход ¹⁾ (н. л/мин)	125	550	1500	2400	10000		
Испытательное давление (МПа)	1.5 (3.0 спец	. исполнение)					
Макс. рабочее давление (МПа)	1.0 (2.0 спец	. исполнение)					
Диапазон регулирования (МПа)	0.05 ~ 0.7	05 ~ 0.7					
Резьба для присоедин. манометра ²⁾	Rc 1/16 3)	c 1/16 ³⁾ G1/8					
Сброс давления	Установленное вых. давление + 0.05МПа ⁴⁾ (расход сброса 0.1 л/мин)						
Рабочая температура ⁵⁾ (°C)	-5 ~ 60 (опции: -30 ~ 60; -5 ~ 80)						
Тонкость фильтрации (мкм)	5						
Материал резервуара	Поликарбона	aT .					
Объем резервуара (см³)	2.5	8	25 45				
Защитный колпак	-	По запросу (сталь)	Стандарт (ко	жух из поликарбон	ата)		
Вес (кг)	0.09	0.21	0.41	0.75	2		



- 2) Не требуется для блоков со встраиваемым квадратным манометром (AW20 AW60)
- 3) Для подсоединения манометра с резьбой 1/8 к отверстию с резьбой 1/16 используйте специальный переходник
- 4) Неприменимо к AW10 5) Исполнения для температур (-40 ~ 80) по запросу

AW20 AW10

Номер для заказа

Для всех исполнений манометры заказываются отдельно

Типо-	Присоед.	Номер для за	Номер для заказа							
размер	резьба	Отвод конденс	сата вручную	Стандартное исг	толнение	Спец. исполнения				
		0.05~0.7 M∏a	0.05~0.85 M∏a	0.05~0.7 MΠa	0.05~0.85 M∏a	0.02 ~ 0.2 MΠa	0.1 ~ 1.6 MΠa ¹⁾	-30 ~ 60°C	-5 ∼ 80°C	
10	M5	AW10-M5-A	-	AW10-M5C-A	-	AW10-M5-1-A	-	-	-	
20	G1/8	AW20-F01-A	AW20-F01-B	AW20-F01C-A	AW20-F01C-B	AW20-F01-1-A	AW20-F01-2-B-X425	-	-	
	G1/4	AW20-F02-A	AW20-F02-B	AW20-F02C-A	AW20-F02C-B	AW20-F02-1-A	AW20-F02-2-B-X425	-	•	
30	G1/4	AW30-F02-A	AW30-F02-B	AW30-F02D-A	AW30-F02D-B	AW30-F02-1-A	AW30-F02-2-B-X425	AW30-F02-2-B-X430	AW30-F02-2-B-X440	
	G3/8	AW30-F03-A	AW30-F03-B	AW30-F03D-A	AW30-F03D-B	AW30-F03-1-A	AW30-F03-2-B-X425	AW30-F03-2-B-X430	AW30-F03-2-B-X440	
40	G1/4	AW40-F02-A	AW40-F02-B	AW40-F02D-A	AW40-F02D-B	AW40-F02-1-A	AW40-F02-2-B-X425	AW40-F02-2-B-X430	AW40-F02-2-B-X440	
	G3/8	AW40-F03-A	AW40-F03-B	AW40-F03D-A	AW40-F03D-B	AW40-F03-1-A	AW40-F03-2-B-X425	AW40-F03-2-B-X430	AW40-F03-2-B-X440	
	G1/2	AW40-F04-A	AW40-F04-B	AW40-F04D-A	AW40-F04D-B	AW40-F04-1-A	AW40-F04-2-B-X425	AW40-F04-2-B-X430	AW40-F04-2-B-X440	
	G3/4	AW40-F06-A	AW40-F06-B	AW40-F06D-A	AW40-F06D-B	AW40-F06-1-A	AW40-F06-2-B-X425	AW40-F06-2-B-X430	AW40-F06-2-B-X440	
60	G3/4	-	AW60-F06-B	-	AW60-F06D-B	AW60-F06-1-A	AW60-F06-2-B-X425	AW60-F06-2-B-X430	AW60-F06-2-B-X440	
	G 1	-	AW60-F10-B	-	AW60-F10D-B	AW60-F10-1-A	AW60-F10-2-B-X425	AW60-F10-2-B-X430	AW60-F10-2-B-X440	

Принадлежности для стандартного исполнения (заказываются отдельно)

1) Манометры поставляются по запросу

Типоразмер				10	20	30	40	60	
Крепежный у	/гольник ¹⁾	для ис	сполнения А	AR12P-270AS	AR22P-270AS	AR32P-270AS	AR42P-270AS	-	
		для ис	сполнения В	-	AW23P-270AS	AR33P-270AS	AR43P-270AS	AW62P-270AS	
Гайка для па	нельного	для ис	сполнения А	AR12P-260S	AR22P-260S	AR32P-260S	AR42P-260S	-	
монтажа для исполнения В		-	AR23P-260S	AR33P-260S	AR43P-260S	-			
Манометр	1.0 M∏a	Круглый		G27-10-R1	G36-10-01		G46-10-01		
		Квадрат	н. встраиваемый 2)	_	GC3-10AS				
	0.2 МПа	Круглы	Й	G27-10-R1 3)	G36-4-01		G46-4-01		
		Квадратн. встраиваемый ²⁾		_	GC3-4AS				
Стакан с авт	омат. отвод		H.O.	-	_	AD38-A	AD48-A		
конденсата 4)		H.3.	AD17-A	AD27-A AD37-A AD47-A				
Алюмин. ста	кан для исп	олнения >	(430	-	-	C3SF-2-A-X430	C4SF-2-A-X430		
Алюмин. ста	кан с фитин	гом G1/4	для исп-я Х430	-	-	C3SFF-2J-A-X430	C4SFF-2J-A-X430		
Алюмин. ста	кан для исп	олнения)	(440	-	-	C3SF-2-A-X440	C4SF-2-A-X440		
Алюмин. стакан с фитингом G1/4 для исп-я X440			-	-	C3SFF-2J-A-X440	C4SFF-2J-A-X440			
Сменный фильтрующий элемент			AF10P-060S	AF20P-060S	AF30P-060S	AF40P-060S	AW60P-060S		
Реле давления с NPN выход, разъем снизу / сверху			ISE35-N-25-MLA / ISE35-R-25-MLA						
цифр. индикац	цией ⁵ РNР вь	іход, разъ	ем снизу / сверху	ISE35-N-65-MLA / ISE35-R-65-MLA					
1 20									

- 1) Комплект включает угольник и установочные гайки
- 2) Только для исполнения В. Прилагаются одно уплотнительное кольцо и два установочных винта
- 3) Для давления 1.0 МПа
- 4) Минимальное рабочее давление: H.O. – 0.1 МПа, H.З. – 0.1 МПа (AD17/27) и 0.15 МПа (AD37/47)
- 5) Только для исполнения В. Включает кабель (2 м) с разъемом, адаптер, фиксатор, кольцевую прокладку (1 шт.) и монтажные винты (2 шт.) Для установки реле на AW60-B требуется специальный переходник **AW63P-310AS**.

Фильтр-регулятор-маслораспылитель

AC10-60

M5 ~ G1

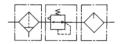
Комбинация фильтра, регулятора и маслораспылителя с крепежными деталями

Технические характеристики

Комбинация	AC	10	20	30	40	50	60	
Фильтр	AF	10	20	30	40	50	60	
Регулятор давления	AR	10	20	30	40	50	60	
Маслораспылитель	AL	10	20	30	40	50	60	
Переходная деталь (2 шт. в	Переходная деталь (2 шт. в комплекте)		Y200T-A	Y300T-A	Y400T-A	Y500T-A	Y600T-A	
Присоединительная резьба		M5	G1/8, G1/4	G1/4, G3/8	G1/4, G3/8, G1/2	G3/4, G1	G1	
Резьба для присоединения	Rc1/16	G1/8						
Испытательное давление (I	1.5							
Макс. давление на входе (М	ИПа)	1.0						
Диапазон давлений на вых	оде (МПа)	0.05 ~ 0.7 0.05 ~ 0.7, 0.05 ~ 0.85						
Сброс давления		Установленное вых. давление + 0.05МПа ²⁾ (расход сброса 0.1 л/мин)						
Рабочая температура (°C)		-5 ~ 60						
Тонкость фильтрации (мкм	1)	5						
Рекомендуемое масло		ISO VG32						
Материал резервуара		поликарбонат						
Защитный колпак		-	По запросу (сталь) Стандарт (кожух из поликарбоната)					
Вес (кг)		0.27	0.39	0.78	1.39	3.43	3.76	







Номер для заказа

Манометры заказываются отдельно

Типоразмер	Присоединительная	Номер для заказа				
	резьба	Отвод конденсата вручную		Автоматич. отвод конденсата		
		0.05 ~ 0.7 M∏a	0.05 ~ 0.85 M∏a	0.05 ~ 0.7 M∏a	0.05 ~ 0.85 M∏a	
10	M5	AC10-M5-A	-	AC10-M5C-A	-	
20	G1/8	AC20-F01-A	AC20-F01-B	AC20-F01C-A	AC20-F01C-B	
	G1/4	AC20-F02-A	AC20-F02-B	AC20-F02C-A	AC20-F02C-B	
30	G1/4	AC30-F02-A	AC30-F02-B	AC30-F02D-A	AC30-F02D-B	
	G3/8	AC30-F03-A	AC30-F03-B	AC30-F03D-A	AC30-F03D-B	
40	G1/4	AC40-F02-A	AC40-F02-B	AC40-F02D-A	AC40-F02D-B	
	G3/8	AC40-F03-A	AC40-F03-B	AC40-F03D-A	AC40-F03D-B	
	G1/2	AC40-F04-A	AC40-F04-B	AC40-F04D-A	AC40-F04D-B	
50	G3/4		AC50-F06-B	-	AC50-F06D-B	
	G1	-	AC50-F10-B	-	AC50-F10D-B	
60	G1	-	AC60-F10-B	-	AC60-F10D-B	

Принадлежности (заказываются отдельно)

Обозначение)		Типоразмер	/ Номер для заказа				
			10	20	30	40	50	60
Промежуточн	ный отвод	, с обрат. клапаном 1)	-	AKM2000-F01-A	AKM3000-F02-A	AKM4000-F03-A	-	-
Переходная деталь		<u> </u>	Y100-A	Y200-A	Y300-A	Y400-A	Y600-A	Y600-A
Промежуточн	ный отвод	1)	Y110-M5-A	Y210-F01-A	Y310-F02-A	Y410-F03-A	Y610-F03-A	Y610-F04-A
Промежуточный отвод с 4 выходами 1)		Y14-M5-A	Y24-F01-A, Y24-F02-A	Y34-F01-A, Y34-F02-A	Y44-F02-A, Y44-F03-A	-	-	
Ручной запорный клапан ¹⁾		-	VHS20-F01A VHS20-F02A	VHS30-F02A VHS30-F03A	VHS40-F02A VHS40-F03A VHS40-F04A	VHS50-F06A	-	
Реле давлени	ИЯ	IS10M	-	IS10M-20-6L-A	IS10M-30-6L-A	IS10M-40-6L-A	IS10M-60-6L-A	
		IS10E		IS10E-20F01-6L-A IS10E-20F02-6L-A IS10E-20F03-6L-A	IS10E-30F02-6L-A IS10E-30F03-6L-A IS10E-30F04-6L-A	IS10E-40F02-6L-A IS10E-40F03-6L-A IS10E-40F04-6L-A IS10E-40F06-6L-A	-	-
Реле давления	яс NPN	√ выход, разъем снизу/сверху	ISE35-N-25	-MLA / ISE35-R-25-ML	A			
цифр. индикаці	µей ⁴⁾ PNF	выход, разъем снизу/сверху	ISE35-N-65	5-MLA / ISE35-R-65-MLA				
Стакан с авто	омат.	H.O.	-	-	AD38-A	AD48-A	AD48-A	AD48-A
отводом конд	денсата ²⁾	H.3.	AD17-A	AD27-A	AD37-A	AD47-A	AD47-A	AD47-A
Переходник ¹⁾		E100-M5-A	E200-F01-A E200-F02-A E200-F03-A	E300-F02-A E300-F03-A E300-F04-A	E400-F02-A E400-F03-A E400-F04-A E400-F06-A	E600-F06-A E600-F10-A	E600-F06-A E600-F10-A	
Манометр 1	.0 МПа	Круглый	G27-10-R1	G36-10-01		G46-10-01		
		Встраив. квадрат. 3)	- GC3-10AS					
0).2МПа	Круглый	G27-10-R1	G36-4-01		G46-4-01		
		Встраив. квадрат. 3)	-	GC3-4AS	GC3-4AS			

- 1) Для монтажа требуются отдельные переходные детали
 2) Минимальное рабочее давление: Н.О. 0.1 МПа. Н.З. 0.15 МПа (AD17/27)
 3) Только для исполнения В. Прилагаются одно уплотнительное кольцо и два установочных винта
 4) Только для исполнения В. Комплект включает кабель (2 м) с разъемом, адаптер, фиксатор, кольцевую прокладку (1 шт.) и монтажные винты (2 шт.)

¹⁾ Резьба для присоединения манометра не требуется для блоков со встраиваемым квадратным манометром (АС20 – АС60)

²⁾ Неприменимо к АС10



Фильтр / регулятор-маслораспылитель

AC10A-60A

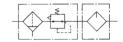
M5 ~ G1

Комбинация фильтра/регулятора и маслораспылителя с крепежными деталями

Технические характеристики

Комбинация АС□А	10	20	30	40	50	60		
Фильтр/регулятор AW	10	20	30	40	50	60		
Маслораспылитель AL	10	20	30	40	50	60		
Переходная деталь	Y100T-A	Y200T-A	Y300T-A	Y400T-A	Y500T-A	Y600T-A		
Присоединительная резьба	M5	G1/8, G1/4	G1/4, G3/8	G1/4, G3/8, G1/2	G1/4, G1	G1		
Резьба для присоединения манометра 1)	Rc1/16	G1/8						
Испытательное давление (МПа)	1.5	1.5						
Макс. давление на входе (МПа)	1.0							
Диапазон давлений на выходе (МПа)	0.05 ~ 0.7 0.05 ~ 0.85 / 0.05 ~ 0.7							
Сброс давления	Установленное вых. давление +0.05 МПа ²⁾ (расход сброса 0.1 л/мин.)							
Рабочая температура (°C)	-5 ~ 60							
Тонкость фильтрации (мкм)	5							
Рекомендуемое масло	ISO VG32							
Материал резервуара	Поликарбо	нат						
Металлический защитный колпак	-	по запросу - сталь	Стандарт (ко	жух из поликарбо	оната)			
Вес (кг)	0.20	0.33	0.63	1.15	3.21	3.36		





- 1) Не требуется для блоков со встраиваемым квадратным манометром (АС20А АС40А) или реле давления (АС20А АС60А)
- 2) Неприменимо к АС10А

Номер для заказа

Манометры заказываются отдельно

Типоразмер	Присоединительная	Номер для заказа				
	резьба	Отвод конденсат	а вручную	Автоматич. отвод конденсата		
		0.05 ~ 0.7 MΠa	0.05 ~ 0.85 M∏a	0.05 ~ 0.7 M∏a	0.05 ~ 0.85 M∏a	
10	M5	AC10A-M5-A	-	AC10A-M5C-A	-	
20	G1/8	AC20A-F01-A	AC20A-F01-B	AC20A-F01C-A	AC20A-F01C-B	
	G1/4	AC20A-F02-A	AC20A-F02-B	AC20A-F02C-A	AC20A-F02C-B	
30	G1/4	AC30A-F02-A	AC30A-F02-B	AC30A-F02D-A	AC30A-F02D-B	
	G3/8	AC30A-F03-A	AC30A-F03-B	AC30A-F03D-A	AC30A-F03D-B	
40	G1/4	AC40A-F02-A	AC40A-F02-B	AC40A-F02D-A	AC40A-F02D-B	
	G3/8	AC40A-F03-A	AC40A-F03-B	AC40A-F03D-A	AC40A-F03D-B	
	G1/2	AC40A-F04-A	AC40A-F04-B	AC40A-F04D-A	AC40A-F04D-B	
50	G3/4	-	AC50A-F06-B	-	AC50A-F06D-B	
	G1	-	AC50A-F10-B	-	AC50A-F10D-B	
60	G1	-	AC60A-F10-B	-	AC60A-F10D-B	

Принадлежности (заказываются отдельно)

Обозначение		Типоразмер	/ Номер для заказа					
		10	20	30	40	50	60	
Промежуточный отво	од с обрат. клапаном ¹⁾	-	AKM2000-F01-A	AKM3000-F02-A	AKM4000-F03-A	-	-	
Переходная деталь		Y100-A	Y200-A	Y300-A	Y400-A	Y600-A	Y600-A	
Промежуточный отвод 1)		Y110-M5-A	Y210-F01-A	Y310-F02-A	Y410-F03-A	Y610-F03-A	Y610-F04-A	
Промежуточный отвод с 4 выходами 1)		Y14-M5-A	Y24-F01-A, Y24-F02-A	Y34-F01-A, Y34-F02-A	Y44-F02-A, Y44-F03-A	-	-	
Ручной запорный клапан ¹⁾		-	VHS20-F01A VHS20-F02A	VHS30-F02A VHS30-F03A	VHS40-F02A VHS40-F03A VHS40-F04A	VHS50-F06A	-	
Реле давления	IS10M	-	IS10M-20-6L-A	IS10M-30-6L-A	IS10M-40-6L-A IS10M-60-6L-A			
	IS10E	-	IS10E-20F01-6L-A IS10E-20F02-6L-A IS10E-20F03-6L-A	IS10E-30F02-6L-A IS10E-30F03-6L-A IS10E-30F04-6L-A	IS10E-40F02-6L-A IS10E-40F03-6L-A IS10E-40F04-6L-A IS10E-40F06-6L-A	-	-	
Реле давления с N	PN выход, разъем снизу/сверху	ISE35-N-25	-MLA / ISE35-R-25-ML	A				
цифр. индикацией ⁴⁾ Рі	NP выход, разъем снизу/сверху	ISE35-N-65	-MLA / ISE35-R-65-ML	.A				
Стакан с автомат.	H.O.	-	-	AD38-A	AD48-A	AD48-A	AD48-A	
отводом конденсата	²⁾ H.3.	AD17-A	AD27-A	AD37-A	AD47-A	AD47-A	AD47-A	
Переходник ¹⁾ Е100-М		E100-M5-A	E200-F01-A E200-F02-A E200-F03-A	E300-F02-A E300-F03-A E300-F04-A	E400-F02-A E400-F03-A E400-F04-A E400-F06-A	E600-F06-A E600-F10-A	E600-F06-A E600-F10-A	
Манометр 1.0 МПа	Круглый	G27-10-R1	G36-10-01		G46-10-01			
	Встраив. квадрат. 3)	-	GC3-10AS					
0.2МПа	Круглый	G27-10-R1	G36-4-01	· · · · · · · · · · · · · · · · · · ·		G46-4-01		
	Встраив. квадрат. 3)	-	GC3-4AS					

- 1) Для монтажа требуются отдельные переходные детали
 2) Минимальное рабочее давление: Н.О. 0.1 МПа. Н.З. 0.15 МПа (AD17/27)
 3) Только для исполнения В. Прилагаются одно уплотнительное кольцо и два установочных винта
 4) Только для исполнения В. Комплект включает кабель (2 м) с разъемом, адаптер, фиксатор, кольцевую прокладку (1 шт.) и монтажные винты (2 шт.)

Принадлежности для модульного монтажа

Переходная деталь



Номер для заказа	Для типоразмера
Y100-A	AC10, AC10A
Y200-A	AC20, AC20A
Y300-A	AC30, AC30A
Y400-A	AC40, AC40A
Y600-A	AC60, AC50 AC60A, AC50A

Переходная деталь с крепежным угольником формы Т



Y200Т О Ремкомплекты
PEMKUMIDIEKTЫ

Номер для заказа	за Для типоразмера		
Y100T-A	AC10, AC10A		
Y200T-A	AC20, AC20A		
Y300T-A	AC30, AC30A		
Y400T-A	AC40, AC40A		
Y600T-A	AC50, AC60 AC60A, AC50A		

Наименование	Материал	Номер для заказа					
		Y100, Y100T	Y200, Y200T	Y300, Y300T	Y400, Y400T	Y600, Y600T	
Уплотнение	HNBR*	Y120P-050AS	Y220P-050S	Y320P-050S	Y420P-050S	Y620P-050S	

^{*} NBR для типоразмера 10

Примечание: 1) Y100 и Y100Т поставляются с двумя уплотнительными кольцами

Промежуточный отвод

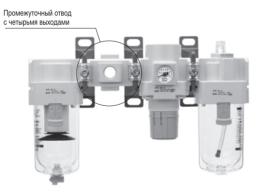




Номер для заказа	Присоедини- тельная резьба	Для типоразмера
Y110-M5-A	M5	AC10, AC10A
Y210-F01-A	G1/8	AC20, AC20A
Y210-F02-A	G1/4	
Y310-F01-A	G1/8	AC30, AC30A
Y310-F02-A	G1/4	
Y410-F02-A	G1/4	AC40, AC40A
Y410-F03-A	G3/8	
Y610-F03-A G3/8		AC50, AC60
Y610-F04-A	G1/2	AC60A, AC50A

Промежуточный отвод с четырьмя выходами

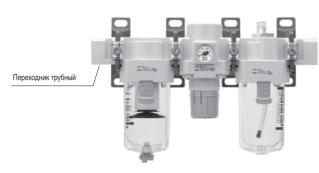
Y14 - Y44



Номер для заказа	Присоедини- тельная резьба	Для типоразмера
Y14-M5-A	M5	AC10, AC10A
Y24-F01-A G1/8		AC20, AC20A
Y24-F02-A	G1/4	
Y34-F01-A	G1/8	AC30, AC30A
Y34-F02-A G1/4		
Y44-F02-A	G1/4	AC40, AC40A
Y44-F03-A	G3/8	

Переходник





Номер для заказа	Присоедини- тельная резьба	Для устройств
E100-M5-A	M5	AC10, AC10A
E200-F01-A	G1/8	AC20, AC20A
E200-F02-A	G1/4	
E200-F03-A	G3/8	
E300-F02-A	G1/4	AC30, AC30A
E300-F03-A	G3/8	
E300-F04-A	G1/2	
E400-F02-A	G1/4	AC40, AC40A
E400-F03-A	G3/8	
E400-F04-A	G1/2	
E400-F06-A	G3/4	
E600-F06-A	G3/4	AC50, AC60
E600-F10-A G1		AC60A, AC50A

Компания SMC сохраняет за собой право на внесение технических и размерных изменений

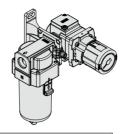
Принадлежности для модульного монтажа

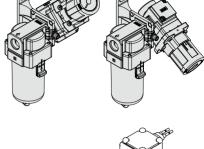
Резьбовой переходник Е210, Е310, Е410

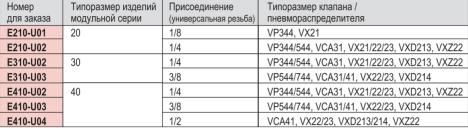
Предназначен для присоединения изделий с внутренней резьбой к устройствам модульной системы

- Соединяет устройства разных типоразмеров. например, AF30 и ARG20
- Позволяет варьировать угол установки



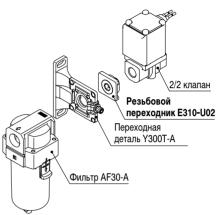






Ремкомплекты

Наименование	Материал	Номер для заказа				
		E210-U01	E210-U02	E310-U02 E410-U02	E310-U03 E410-U03	E410-U04
Уплотнение	NBR	E210P-040S	E210P-030S	E210P-030S	E310P-030S	E410P-030S
			E210P-050S	-	-	-



Реле давления IS10

Реле давления IS10 применяется для контроля давления сжатого воздуха

- Ресурс 5 млн циклов
- Пригодно для модульного монтажа

Реле давления IS10M Монтируется между двумя устройствами

- Варианты монтажа:на выходе блока подготовки сжатого воздуха, между устройствами подготовки сжатого воздуха, самостоятельный монтаж
- Исполнения с диапазоном срабатывания (0.1 ~ 0.4) МПа, с кабелем 0.5 м или 5 м - по запросу

Технические характеристики

Рабочая среда		Сжатый воздух	
Испытательное да	авление (МПа)	1.0	
Макс. рабочее да	вление (МПа)	0.7	
Давление срабат	ывания (МПа)	0.1 ~ 0.6	
Гистерезис (МПа)		0.08	
Воспроизводимо	сть (МПа)	0.05	
Тип коммутации		Нормально-разомкнутый *	
Рабочее напряже	ние, ток	12 ~ 100 В (AC/DC), 50 мА	
Максимальная	постоянный ток (Вт)	2	
нагрузка	переменный ток (ВА)	2	
Время переключе	ения (мс)	1.2	
Стойкость к ударі	ным нагрузкам (G)	30	
Соединительный	кабель	двухпроводной, длина 3 м	
Диапазон рабочи	х температур (°C)	-5 ~ 60	
Присоединение		R 1/8	
Степень защиты		IP40	

* при отсутствии давления электрическая цепь размыкается

Номер для заказа	Типоразмер для модульного монтажа	
IS10M-20-6L-A	AC20, AC20A	
IS10M-30-6L-A	AC30, AC30A	
IS10M-40-6L-A	AC40, AC40A	
IS10M-60-6L-A	AC50, AC60, AC50A, AC60A	

Примечание: для монтажа требуются отдельные переходные детали.

Реле давления IS10E

Монтируется на выходе устройства подготовки сжатого воздуха



Номер для заказа		Типоразмер для
Монтаж справа	Монтаж слева	модульного монтажа
IS10E-20F01-6L-A	IS10E-20F01-6LR-A	AC20, AC20A
IS10E-20F02-6L-A	IS10E-20F02-6LR-A	
IS10E-20F03-6L-A	IS10E-20F03-6LR-A	
IS10E-30F02-6L-A	IS10E-30F02-6LR-A	AC30, AC30A
IS10E-30F03-6L-A	IS10E-30F03-6LR-A	
IS10E-30F04-6L-A	IS10E-30F04-6LR-A	
IS10E-40F02-6L-A	IS10E-40F02-6LR-A	AC40, AC40A
IS10E-40F03-6L-A	IS10E-40F03-6LR-A	
IS10E-40F04-6L-A	IS10E-40F04-6LR-A	
IS10E-40F06-6L-A	IS10E-40F06-6LR-A	

Примечание: для монтажа требуется отдельная переходная деталь

Реле давления IS10-01



Номер	Присоед.
для заказа	резьба
IS10-01-6L	R1/8

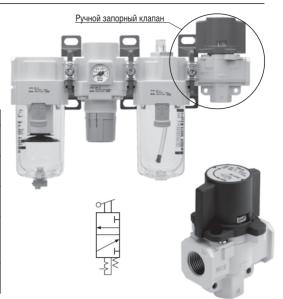
Принадлежности для модульного монтажа

Ручной запорный клапан VHS20-50

Предназначен для подачи и выпуска сжатого воздуха из пневмосистемы

- Визуальный контроль состояния SUP/EXH (Вкл./Выкл.)
- Пригоден для модульного монтажа

Типо-	Номер	Присоед.	Эквивалентное		д. Эквивалентное Принадлежности (заказываются отдел		ываются отдельно)
размер	для заказа	резьба	сечение (мм²)		Варианты крепежа для	Пневмоглушитель	
			ВКЛВЫКЛ. ВЫКЛВКЛ.		модульного монтажа		
20	VHS20-F01A	G1/8	10 11 14 16		Y200-A, Y200T-A	AN10-01	
	VHS20-F02A	G1/4					
30	VHS30-F02A	G1/4	16	14	Y300-A, Y300T-A	AN20-02	
	VHS30-F03A	G3/8	31 29				
40	VHS40-F02A	G1/4	27	36	Y400-A, Y400T-A	AN30-03	
	VHS40-F03A	G3/8	38 40				
	VHS40-F04A	G1/2	55 42				
50	VHS50-F06A	G3/4	82 50		Y600-A, Y600T-A	AN40-04	
	VHS50-F10A	G1	125	53			

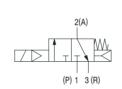


3/2 запорный клапан с электромагнитным управлением VP500/700

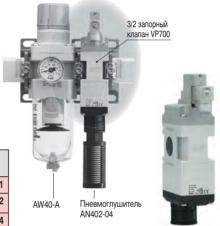
Предназначен для подачи и выпуска сжатого воздуха из пневмосистемы

- Компактный. Пригоден для модульного монтажа
- Потребляемая мощность 0.35 Вт (без индикатора)
- Давление до 1 МПа

Типоразмер для	Присоед. резьба	Напряж. питания	Номер для заказа	Принадлежности (заказываются отдельно	
модульного монтажа				Крепления для модульного монтажа	Пневмо- глушитель
AC30□-A	G3/8	24 VDC	VP517KY-5YO1	Y300-A	AN30-03
AC25□-A		220 VAC	VP517KY-4YO1	Y300T-A E300-F03-A	AN302-03
AC40□-A	G1/2	24 VDC	VP717KY-5YO1	Y400-A	AN40-04
		220 VAC	VP717KY-4YO1	Y400T-A E400-F04-A	AN402-04



Ответная часть DIN-разъема (заказывается отдельно)								
0~250 V без индикации К41								
С индикацией и защитой	24 VDC	K42						
от скачков напряжения	230 VAC	K44						
Tidi iprimorium								



Промежуточный отвод с обратным клапаном АКМ2000-4000

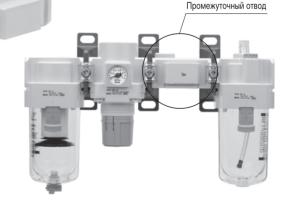
Применяется для предотвращения обратного течения маслосодержащего воздуха из маслораспылителя в промежуточный отвод



Показатели расхода

-	• • • • • • • • • • • • • • • • • • • •
Тип	Эквивалентное сечение (мм²)
AKM2000	28
AKM3000	55
AKM4000	111

Номер для заказа	Присоедини- тельная резьба	Типоразмер для модульного монтажа
AKM2000-F01-A	G1/8	AC20, AC20A
AKM2000-F02-A	G1/4	
AKM3000-F01-A	G1/8	AC30, AC30A
AKM3000-F02-A	G1/4	
AKM4000-F02-A	G1/4	AC40, AC40A
AKM4000-F03-A	G3/8	



Блокиратор установочной ручки регулятора давления

Предотвращает несанкционированное изменение настройки регулятора давления





Замок не входит в комплект поставки

Номер	Совместимые серии
для заказа	регуляторов давления
AR20P-580AS	AC20□-B, AR20(K)-B, AW20(K)-B
AR25P-580AS	AC25□-B, AR25(K)-B
AR30P-580AS	AC30□-B, AR30(K)-B, AW30(K)-B
AR40P-580AS	AC40□(-06)-B, AR40(K)(-06)-B, AW40(K)(-06)-B

Совместим только с регуляторами серии В (с выходным давлением $0.05{\sim}0.85~\text{M}\text{Ta}$)

Modular F.R.L. Units

Replacement

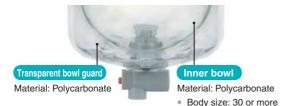
in hand!



► Better visibility & environmental resistance

The bowl is covered with Double layer a transparent bowl quard! design

- The inside is visible from 360°.
- The bowl is completely protected from the environment. Safety improved

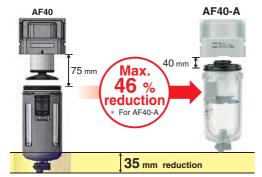


Easy replacement of the element

The element and the bowl are in one piece. Replacement can be done in hand.



Reduced required maintenance space



Selection of pressure gauges







Square embedded type pressure gauge

Round type pressure gauge

Digital pressure switch

Interchangeability

Interchangeable with the previous AR series by panel mounting



AR K regulator with backflow function added.

New Made to order added.

- Long bowl (-X64)
- 0.4 MPa setting (-X406)
- With element service indicator (-X2141)
- High pressure (-X425)
- Low temperature (-X430)
- High temperature (-X440)
- Clean series (10-)
- Copper, fluorine and silicone-free + Low particle generation (21-)



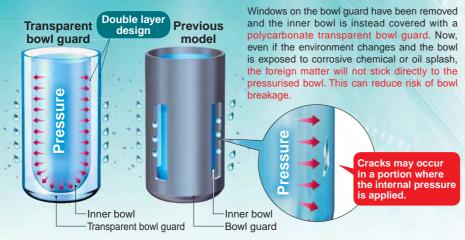


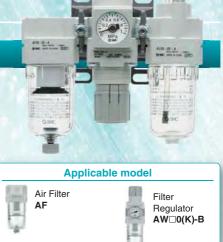


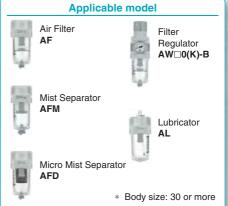
Transparent bowl guard

Better environmental resistance:

Transparent bowl guard can protect the inner bowl!

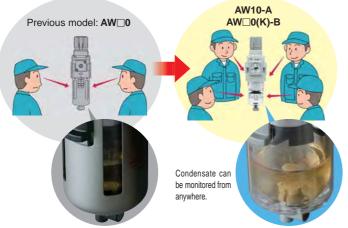




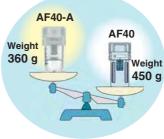


Better visibility: 360°

Use of transparent bowl guard makes it possible to check the condensate inside the filter bowl and the remaining oil amount in the lubricator from the entire periphery.



Light weight: Max. 90 g reduction * Except AW



Metal related corrosion does not occur.



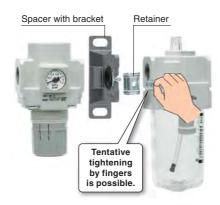
Resin body does not rust.

New Spacer

Modular connection

Step 1

- Mount the product by lining up the mating surface of the new spacer with bracket.
- Insert the retainer into the spacer bolt and tighten the nut. (temporary assembling)



Step ②

• Tighten the nut with the hexagon wrench.

Interchangeable with previous model

- New spacer can be connected to the previous AF, AR, AL, AW series.

 Previous assessment to appropriate the series APET A APET
- Previous spacer can be connected to the new AF□-A, AR□(K)-B, AL□-A, AW□(K)-B series.



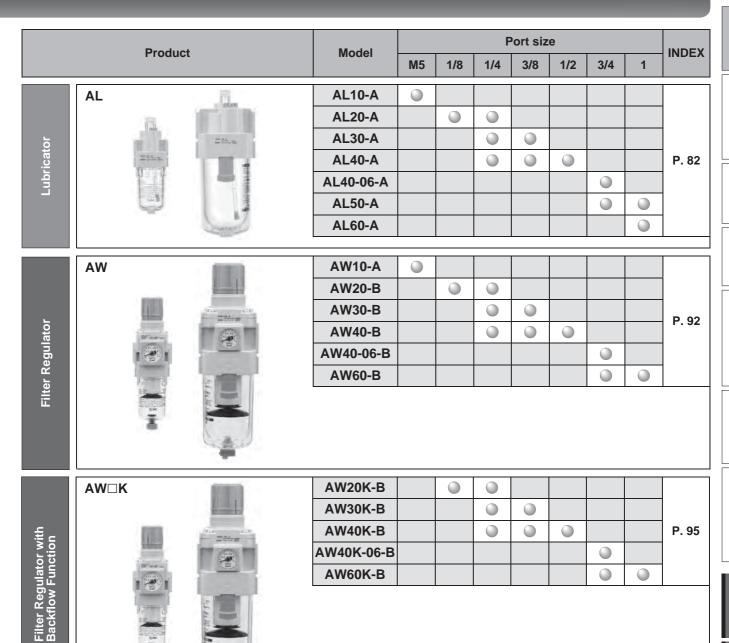


AC Series

Series Configuration											
					P	ort siz	ze				
	Product	Model	M5	1/8	1/4	3/8	1/2	3/4	1	INDEX	
	Air Filter • Regulator • Lubricator	AC10-A	0								
	AF AR AL	AC20-B		0	0						
	2-24	AC25-B									
		AC30-B				0					
		AC40-B								P. 7	
		AC40-06-B						0			
		AC50-B						0			
		AC55-B							0		
		AC60-B							0		
	Filter Regulator 😛 Lubricator	AC10A-A	0								
	AW AL	AC20A-B		•							
		AC30A-B									
		AC40A-B			0	0	0			P. 15	
	and a state of	AC40A-06-B						0	_		
		AC50A-B						0	0		
	***	AC60A-B									
	*										
uo	Air Filter 😛 Regulator	AC10B-A									
	AF AR	AC20B-B									
nati		AC25B-B									
nbi		AC30B-B			0					P. 21	
Air Combination	- B-	AC40B-B			0	0	0				
Air		AC40B-06-B						0			
		AC50B-B						0	0		
		AC55B-B) (
		AC60B-B							0		
	Air Filter	AC20C-B		0	0						
	AF AFM AR	AC25C-B			0	0					
	F 12	AC30C-B			0	0				P. 27	
		AC40C-B			0	0	0				
		AC40C-06-B									
	Filter Regulator + Mist Separator	AC20D-B		0	0						
	AW AFM	AC30D-B			0	0					
		AC40D-B			0		0			P. 31	
		AC40D-06-B						0			

Series Configuration

						F	ort siz	е			INDEX
	Proc	auct	Model	M5	1/8	1/4	3/8	1/2	3/4	1	INDEX
	AF	Sec. 10.	AF10-A	0							
			AF20-A		0	0					
	214.		AF30-A			0	0				•
ilte		š 🔳	AF40-A			0	0	0			P. 43
Air Filter			AF40-06-A						0		
			AF50-A						0	0	
			AF60-A							0	
					•	•	•				•
	AFM		AFM20-A		0	0					
<u>_</u>	1000	100 (10.0 Text)	AFM30-A			0	0				P. 55
rato	COMM.	5 THE 1	AFM40-A			0					1.33
eba		£ =	AFM40-06-A								
Mist Separator	*										
	AFD		AFD20-A		0	0					
jo.			AFD30-A			0	0				
arat	The latest	Market.	AFD40-A			0	0	0			P. 55
Sep	107	E MINISTER 1	AFD40-06-A						0		
Micro Mist Separator											
	AR		AR10-A	0							
		1000	AR20-B		0	0					
_	1250		AR25-B			0	0				
Regulator			AR30-B			0	0				D 04
nɓə	730		AR40-B			0	0				P.64
~	100	11.7	AR40-06-B								
			AR50-B						0	0	
			AR60-B							0	
	AR□K		AR20K-B		0	0					
ion	1000		AR25K-B			0	0				1
/ith unct			AR30K-B			0	0				
Regulator with Backflow Function	State of the last	Cor good	AR40K-B			0	0	0			P.67
julat kflo		11	AR40K-06-B						0		
Reg Bac			AR50K-B								
			AR60K-B								
3			SMC								



Simple Specials System

A system designed to respond quickly and easily to your special ordering needs



Short lead times

This system enables us to respond to your special needs, such as additional machining, accessory assembly, or modular unit, and deliver such special products as quickly as standard products.

Repeat orders

Once we receive a Simple Special part number from your previous order, we will process the order, manufacture the product, and deliver it to you.

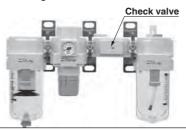
Please contact your local sales representative for more details.

Attachment List

Check valve

Page 34

■A check valve with intermediate branch port can be easily installed to prevent a backflow of lubricant when branching the air flow and releasing the air on the outlet side of the regulator.

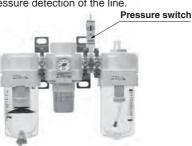


- · Air Filter + Regulator + Lubricator (AC20-B to AC40-B)
- · Filter Regulator + Lubricator (AC20A-B to AC40A-B)
- * Port size: Except 06

Pressure switch

Page 35

■ A compact integrated pressure switch can be easily installed and facilitates the pressure detection of the line.



- · Air Filter + Regulator + Lubricator (AC20-B to AC60-B)
 - · Filter Regulator + Lubricator (AC20A-B to AC60A-B)
 - · Air Filter + Regulator (AC20B-B to AC60B-B)
- · Air Filter + Mist Separator + Regulator (AC20C-B to AC60C-B)
- · Filter Regulator + Mist Separator (AC20D-B to AC60D-B)

T-spacer

Page 35

■ Using a T-shaped spacer facilitates the branching of air flow.



- · Air Filter + Regulator + Lubricator (AC10-A to AC60-B)
- · Air Filter + Regulator (AC10B-A to AC60B-B)
- · Air Filter + Mist Separator + Regulator (AC20C-B to AC40C-B)

Pressure relief 3 port valve

Page 36

With the use of a pressure relief 3 port valve, pressure left in the line can be easily exhausted.

Pressure relief 3 port valve



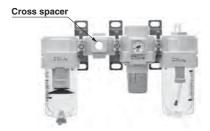
- · Air Filter + Regulator + Lubricator (AC20-B to AC50-B)
- · Filter Regulator + Lubricator (AC20A-B to AC50A-B)
- · Air Filter + Regulator (AC20B-B to AC50B-B)
- · Air Filter + Mist Separator + Regulator (AC20C-B to AC40C-B)
- Filter Regulator + Mist Separator (AC20D-B to AC40D-B)

Cross spacer

policable

Page 36

■ Pipings are possible in all 4 directions.



* Needs to be ordered separately

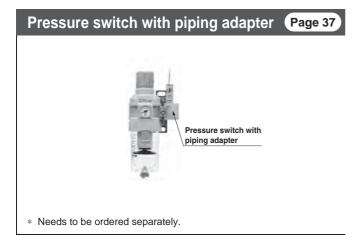
Piping adapter

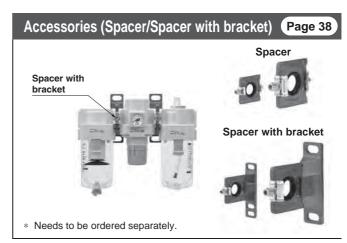
Page 37

A piping adapter allows installation/removal of the component without removing the piping and thus makes maintenance easier.

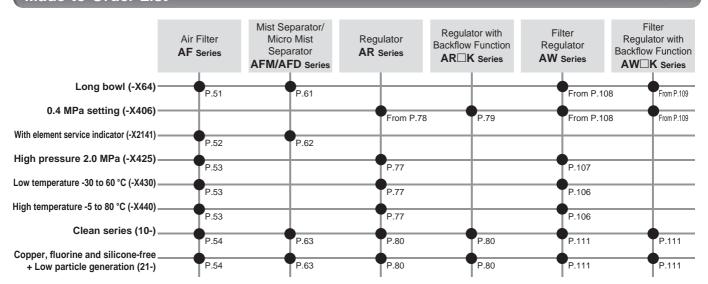


* Needs to be ordered separately.

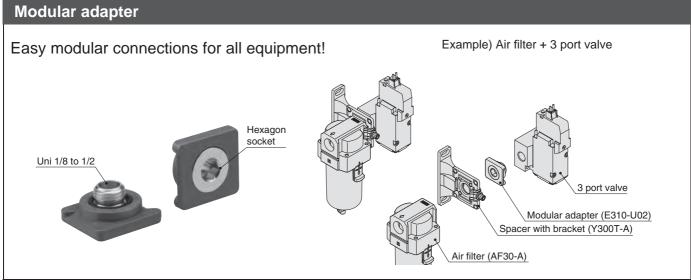




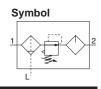
Made-to-Order List



Related Product

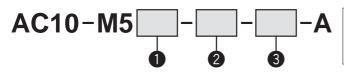


Air Filter + Regulator + Lubricator AC10-A



How to Order

Refer to page 9 for size 20 to 60.



- Option/Semi-standard: Select one each for a to h.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.

Example) AC10-M5CG-T-12NR-A

		_		Symbol	Description
		а	Float type auto drain	_	Without auto drain
	ion			C*1	N.C. (Normally closed) Drain port is closed when pressure is not applied.
U	Option			+	Without procesure govern
		b	Pressure gauge	G*2	Without pressure gauge Round type pressure gauge (without limit indicator)
				+	Nound type pressure gauge (without littlit indicator)
				<u> </u>	Without attachment
2		At	ttachment (T-spacer) *3	Т	Mounting position: AF+ T +AR+AL
				+	<u> </u>
			2 / */	_	0.05 to 0.7 MPa setting
		С	Set pressure *4	1	0.02 to 0.2 MPa setting
				+	
					Polycarbonate bowl
		d	Bowl *5	2	Metal bowl
				6	Nylon bowl
				+	
	lard	е	Lubricator lubricant	_	Without drain cock
3	tanc		exhaust port	3	Lubricator with drain cock
	Semi-standard			+	
	Se	f	Exhaust mechanism	_	Relieving type
				N	Non-relieving type
				+	12
		g	Flow direction		Flow direction: Left to right
				R	Flow direction: Right to left
				+	Name plate solution plate for house and processes govern in Clumita, MD-
		h	Pressure unit		Name plate, caution plate for bowl, and pressure gauge in SI units: MPa Name plate, caution plate for bowl, and pressure gauge in imperial units: psi, °F
					name plate, caution plate for bowl, and pressure gauge in imperial units: psi, "F

^{*1} When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl.



Releasing the residual condensate before ending operations for the day is recommended.

*2 A 1.0 MPa pressure gauge will be fitted. It is not assembled and supplied loose at the time of shipment.

*3 The bracket position varies depending on the T-spacer mounting.

^{*4} Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.

^{*5} Refer to chemical data on page 46 for chemical resistance of the bowl.



Standard Specifications

	Air Filter [AF]	AF10-A				
Component	Regulator [AR]	AR10-A				
	Lubricator [AL]	AL10-A				
Port size	·	M5 x 0.8				
Pressure gauge	port size [AR]	1/16				
Fluid		Air				
Ambient and flui	d temperature	-5 to 60 °C (with no freezing)				
Proof pressure		1.5 MPa				
Maximum operat	ing pressure	1.0 MPa				
Set pressure ran	ge [AR]	0.05 to 0.7 MPa				
Nominal filtration	n rating [AF]	5 μm				
Recommended I	ubricant [AL]	Class 1 turbine oil (ISO VG32)				
Bowl material [A	F/AL]	Polycarbonate				
Construction [A	R]	Relieving type				
Weight [kg]		0.27				

Specific Product Precautions

I Be sure to read this before handling the products. Refer to the back cover for safety instructions. For F.R.L. units I precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual", http://www.smc.eu

Selection

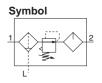
∕!∖ Caution

- 1. When releasing air at the intermediate position using a T-spacer on the inlet side of the lubricator, lubricant may back flow. Therefore, releasing air that does not contain traces of lubricant is not possible.
- 2. An F.R.L. unit shipped from the plant has its model number labelled. However, components that are combined together during the distribution process do not have a label on them.



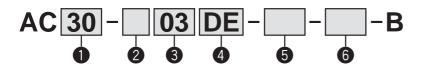
Air Filter + Regulator + Lubricator

AC20-B to AC60-B



How to Order

Refer to page 7 for size 10.



- Option/Semi-standard: Select one each for a to m.
- Option/Attachment/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order. Example) AC30-F03DE1-KSTV-136NR-B

		_							0			
				Symbol	Description				ody siz			
						20	25	30	40	50	55	60
				_	Rc	•	•	•	•	•	•	
2		Pipe	thread type	N *1	NPT	•	•	•	•	•	•	•
				F*2	G	•	•	•	•	•	•	•
				+								
				01	1/8		_	_	_	_	_	_
				02	1/4		•	•	•	_	_	_
3			Port size	03	3/8		•	•	•	_	_	
9			1 011 3120	04	1/2	_	_	_	•	_	_	_
				06	3/4		_		•	•	_	_
				10	1	_	_				•	
				+								
			Float type	_	Without auto drain		•	•	•	•	•	
		а	auto drain	C*4	N.C. (Normally closed) Drain port is closed when pressure is not applied.	•	•	•	•	•	•	•
				D *5	N.O. (Normally open) Drain port is open when pressure is not applied.			•			•	
				+			_	_				
	ო *				Without pressure gauge		•	•	•	•	•	•
4	ion		Pressure	E	Square embedded type pressure gauge (with limit indicator)		•	•	•	•	•	•
	Option		gauge *6	G	Round type pressure gauge (with limit indicator)		•	•	•	•	•	
		b		M	Round type pressure gauge (with colour zone)		•	•	•	•	•	
			Digital	E1	Output: NPN output, Electrical entry: Wiring bottom entry	•	•	•	•	•	•	•
			pressure	E2	Output: NPN output, Electrical entry: Wiring top entry	•	•	•	•	•	•	•
			switch	E3	Output: PNP output, Electrical entry: Wiring bottom entry		•	•	•	•	•	•
				E4	Output: PNP output, Electrical entry: Wiring top entry			•	•	•		
				+	Mith and other home and							
		С	Check valve		Without attachment				*7		•	
				K	Mounting position: AF+AR+ K +AL				**			
			D	T	Without attachment							
	j t	d	Pressure switch									
B	Attachment		SWITCH	+	Mounting position: AF+AR+ S +AL							
6	tack				Without attachment			•	•	•	•	
	Att	е	T-spacer	T *8	Mounting position: AF+T+AR+AL							
				+	Modifiling position. AF+1+AR+AL							
			Pressure relief		Without attachment							
		f	3 port valve	V	Mounting position: AF+AR+AL+ V							
			o port vario	+	Modifiling position. At TAINTALT							
			Set	<u> </u>	0.05 to 0.85 MPa setting							
		g	pressure *9	1	0.02 to 0.2 MPa setting		•	•				
	٥		p. cocoure	+	old to old iii a dotting							
	dar			_	Polycarbonate bowl		•	•	•	•		
6	Semi-standard			2	Metal bowl		•	•	•	•		
	ni-s			6	Nylon bowl		•	•	•	•	•	•
	Sen	h	Bowl *10	8	Metal bowl with level gauge		•	•	•	•	•	•
				C	With bowl guard		*11	*11	*11	*11	*11	*11
				6C	With bowl guard (Nylon bowl)		*12	*12	*12	*12	*12	*12
				00	THE SOM GUARA (TAYIOTI DOWN)				_			

Air Combination AC20-B to AC60-B Series



				Symbol Description					0			
			Symbol	Description			В	ody siz	e			
						20	25	30	40	50	55	60
				_	With drain cock	•	•	•	•	•	•	•
	l II.		Air filter	.]*14	Drain guide 1/8	•		_		_	_	_
		'	drain port *13	J	Drain guide 1/4	_	•	•	•	•	•	•
				W *15	Drain cock with barb fitting (for Ø 6 x Ø 4 nylon tube)	_	•	•	•	•	•	•
				+								
	p [:	Lubricator lubricant	_	Without drain cock		•	•	•	•	•	•
		J	exhaust port	3 *16	Lubricator with drain cock		•	•	•	•	•	•
	Semi-standard			+								
6	sta	k	Exhaust	_	Relieving type	•	•	•	•	•		•
	Ë	^	mechanism	N	Non-relieving type		•	•	•	•	•	•
	Se											
			Flow direction		Flow direction: Left to right		•			•	•	
		'	Flow direction	R	Flow direction: Right to left	•	•	•	•	•		•
				+								
				_	Name plate, caution plate for bowl, and pressure gauge in SI units: MPa		•	•	•	•	•	•
		m	Pressure unit	Z *17	Name plate, caution plate for bowl, and pressure gauge in imperial units: psi, °F	○*19	O*19	O*19	O*19	O*19	O*19	○*19
				ZA *18	Digital pressure switch: With unit selection function	△*20	△*20	△*20	△*20	△*20	△*20	△*20
<u>-1</u> Г)rain o	ســــــ	is NPT 1/8 (annlicabl	lo to the A	C20-B) and pressure gauge will be fitted for standard (0.85 MPa)	±15 T	ho com	hination	of mot	al bawl:	2 and	8 is not

- *1 Drain guide is NPT 1/8 (applicable to the AC20-B) and NPT 1/4 (applicable to the AC25-B to AC60-B).
- The auto drain port comes with Ø 3/8" One-touch fitting (applicable to the AC25-B to AC60-B).
- *2 Drain guide is G 1/8 (applicable to the AC20-B) and G 1/4 (applicable to the AC25-B to AC60-B).
 *3 Options G, M are not assembled and supplied loose at
- *3 Options G, M are not assembled and supplied loose at the time of shipment.
- *4 When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl. Releasing the residual condensate before ending operations for the day is recommended.
- *5 If the compressor is small (0.75 kW, discharge flow is less than 100 l/min[ANR]), air leakage from the drain cock may occur during start of operations. N.C. type is recommended.
- *6 When the pressure gauge is attached, a 1.0 MPa

- pressure gauge will be fitted for standard (0.85 MPa) type. 0.4 MPa pressure gauge for 0.2 MPa type.
- *7 Not available with piping port size: 06
- *8 The bracket position varies depending on the T-spacer or pressure switch mounting.
- *9 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.
- *10 Refer to chemical data on page 46 for chemical resistance of the bowl.
- *11 A bowl guard is provided as standard equipment (polycarbonate).
- *12 A bowl guard is provided as standard equipment (nylon).
- *13 The combination of float type auto drain: C and D is not available.
- *14 Without a valve function

- *15 The combination of metal bowl: 2 and 8 is not available.
- *16 When choosing with W: Filter drain port, the drain cock of a lubricator will be with barb fittings.
- *17 For pipe thread type: NPT.
 Cannot be used with M: Round type pressure gauge
 - Cannot be used with which could type pressure gauge (with colour zone). Available by request for special. The digital pressure switch will be equipped with the unit selection function, setting to psi initially.
- *18 For options: E1, E2, E3, E4.
- *19 \bigcirc : For pipe thread type: NPT only
- *20 \triangle : Select with options: E1, E2, E3, E4.

Standard Specifications

N	Model	AC20-B	AC25-B	AC30-B	AC40-B	AC40-06-B	AC50-B	AC55-B	AC60-B			
	Air Filter [AF]	AF20-A	AF30-A	AF30-A	AF40-A	AF40-06-A	AF50-A	AF60-A	AF60-A			
Component	Regulator [AR]	AR20-B	AR25-B	AR30-B	AR40-B	AR40-06-B	AR50-B	AR50-B	AR60-B			
	Lubricator [AL]	AL20-A	AL30-A	AL30-A	AL40-A	AL40-06-A	AL50-A	AL60-A	AL60-A			
Port size		1/8, 1/4	1/4, 3/8	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	1	1			
Pressure gaug	ge port size [AR] *1	1/8										
Fluid		Air										
Ambient and f	fluid temperature *2	-5 to 60 °C (with no freezing)										
Proof pressu	re	1.5 MPa										
Maximum op	erating pressure	1.0 MPa										
Set pressure	range [AR]	0.05 to 0.85 MPa										
Nominal filtra	ation rating [AF]	5 µm										
Recommende	ed lubricant [AL]	Class 1 turbine oil (ISO VG32)										
Bowl materia	I [AF/AL]				Polyca	rbonate						
Bowl guard [AF/AL]	Semi-standard (Steel) Standard (Polycarbonate)										
Construction	[AR]	Relieving type										
Weight [kg]		0.39	0.70	0.78	1.39	1.53	3.43	3.71	3.76			

^{*1} Pressure gauge connection threads are not available for F.R.L. unit with a square embedded type pressure gauge or with a digital pressure switch.

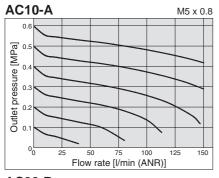


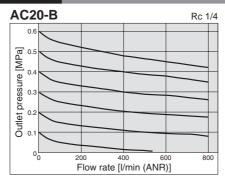
^{*2 -5} to 50 °C for the products with the digital pressure switch.

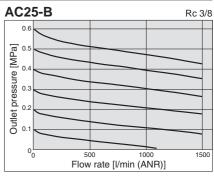
AC10-A Series AC20-B to AC60-B Series

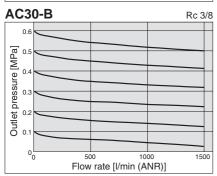
Flow Rate Characteristics (Representative values)

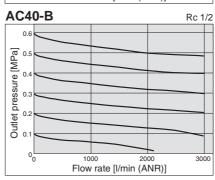
Condition: Inlet pressure of 0.7 MPa

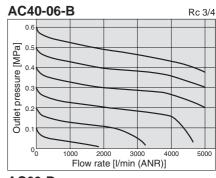


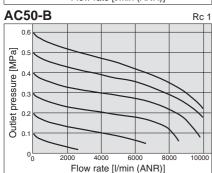


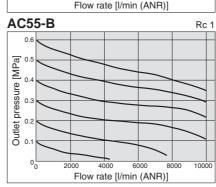


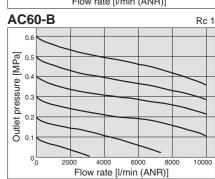






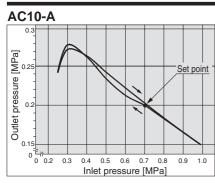


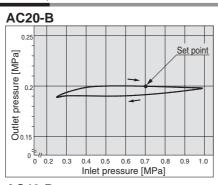


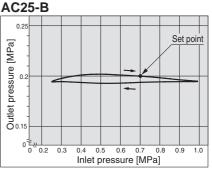


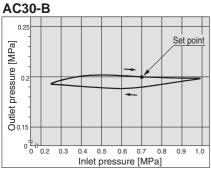
Pressure Characteristics (Representative values)

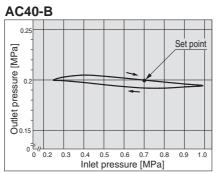
Conditions: Inlet pressure of 0.7 MPa, Outlet pressure of 0.2 MPa, Flow rate 20 l/min (ANR) $\,$

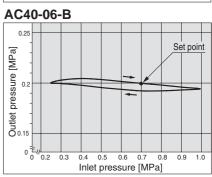








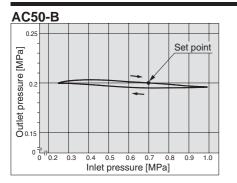


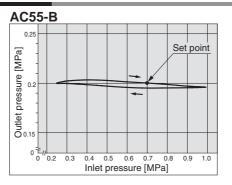


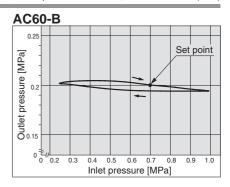
Air Combination AC10-A Series Air Combination AC20-B to AC60-B Series

Pressure Characteristics (Representative values)

Conditions: Inlet pressure of 0.7 MPa, Outlet pressure of 0.2 MPa, Flow rate 20 I/min (ANR)







⚠ Specific Product Precautions

Be sure to read this before handling the products. Refer to the back cover for safety instructions. For F.R.L. units I precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual", http://www.smc.eu

Mounting/Adjustment

⚠ Caution

1. A knob cover is available to prevent careless operation of the knob. Refer to page 112 for details.

Piping

Marning

1. When mounting a check valve, make sure the arrow (IN side) points in the correct direction of air flow.

Air Supply

↑ Caution

1. Use an air filter with 5 μm or less filtration rating on the inlet side of the valve to avoid any damage to the seat caused by dust when mounting a pressure relief 3 port valve on the inlet side.

Mounting/Adjustment

∧ Caution

1. When the bowl is installed on the air filter, filter regulator, lubricator, mist separator, or micro mist separator (AC25-B to AC60-B), install them so that the lock button lines up to the groove of the front (or the back) of the body to avoid drop or damage of the bowl.



Selection

Marning

1. Float type auto drain

Operate under the following conditions to avoid malfunction. <N.O. type>

 Operating compressor: 0.75 kW (100 l/min (ANR)) or more.
 When using 2 or more auto drains, multiply the value above by the number of auto drains to find the capacity of the compressors you will need.

For example, when using 2 auto drains, 1.5 kW (200 l/min (ANR)) of the compressor capacity is required.

- Operating pressure: 0.1 MPa or more
- <N.C. type>
- Operating pressure for AD27-A: 0.1 MPa or more
 Operating pressure for AD37-A/AD47-A: 0.15 MPa or more
- 2. Use a regulator or filter regulator with backflow function when mounting a pressure release 3 port valve on the inlet side to ensure the release of the residual pressure. Otherwise, residual pressure will not be fully released.

↑ Caution

 When releasing air at the intermediate position using a T-spacer on the inlet side of the lubricator, lubricant may back flow. Therefore, releasing air that does not contain traces of lubricant is not possible.

To release air that does not contain traces of lubricant, use a check valve (AKM series) on the inlet side of the lubricator to prevent a backflow of the lubricant.

- 2. If a pressure relief 3 port valve is mounted on the inlet side of the lubricator, causing a backflow of air, it can result in a backflow of oil or damage to internal parts. Do not use it in this fashion.
- **3.** An F.R.L. unit shipped from the plant has its model number labeled. However, components that are combined together during the distribution process do not have a label on them.

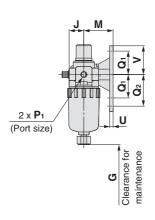


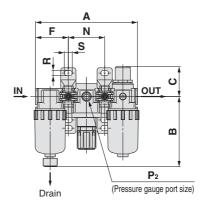
AC10-A Series

AC20-B to AC60-B Series

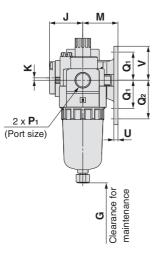
Dimensions

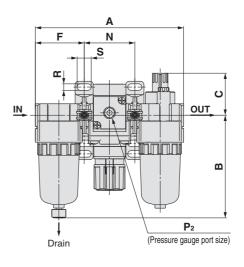
AC10-A



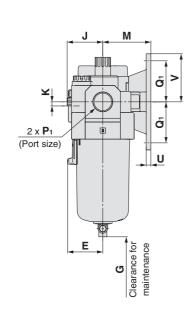


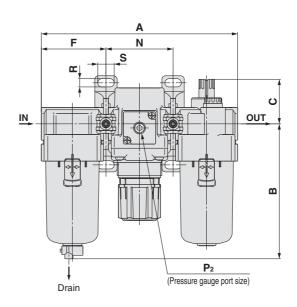
AC20-B



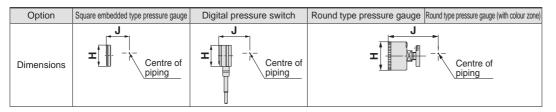


AC25-B to AC60-B





Air Combination AC10-A Series Air Combination AC20-B to AC60-B Series



Applicable model	AC10)-A		AC25-B to AC60-B			
Optional/Semi-standard specifications			With auto drain	Metal bowl	With drain guide	Metal bowl with drain guide	With auto drain (N.O./N.C.)
Dimensions	B		M5 x 0.8	B	Width across flats 14 1/8	Width across flats 14	N.O.: Black N.C.: Grey Thread type/Rc, G: Ø 10 One-touch fitting Thread type/NPT: Ø 3/8" One-touch fitting

Applicable model			AC	25-B to AC60-B		
Optional/Semi-standard specifications	Metal bowl	Metal bowl with drain guide	Metal bowl with level gauge	Metal bowl with level gauge, with drain guide	With drain guide	Drain cock with barb fitting
Dimensions	8	Width across flats 17	B	Width across flats 17	Width across flats 17	Barb fitting applicable tubing: T0604

		Standard specifications																
Model	P1	P ₂	Α	В	С	Е	F	G		К				Bracke	t mount			
	F1	F2	A	В	C	_	Г	G	J	, r	M	N	Q ₁	Q2	R	S	U	V
AC10-A	M5 x 0.8	1/16	87	59.9	25.5	_	28	35	12.5	_	25	31	20	27	4.5	6.8	3	24.5
AC20-B	1/8, 1/4	1/8	126.4	87.6	35.9	_	41.6	60	28.5	2 *1	30	43.2	24	33	5.5	12	3.5	29
AC25-B	1/4, 3/8	1/8	167.4	115.1	38.1	30	55.1	80	27.5	0	41	57.2	35	_	7	14	4	41
AC30-B	1/4, 3/8	1/8	167.4	115.1	38.1	30	55.1	80	29.4	3.5	41	57.2	35	_	7	14	4	41
AC40-B	1/4, 3/8, 1/2	1/8	220.4	147.1	39.8	38.4	72.6	110	33.8	3.5	50	75.2	40	_	9	18	5	48
AC40-06-B	3/4	1/8	235.4	149.1	37.8	38.4	77.6	110	33.8	3	50	80.2	40	_	9	18	5	48
AC50-B	3/4, 1	1/8	282.4	220.1	41.2	_	93.1	110	43.3	3.2	70	96.2	50	_	11	20	6	60
AC55-B	1	1/8	292.4	234.1	44.7	_	98.1	110	43.3	3.2	70	96.2	50	_	11	20	6	60
AC60-B	1	1/8	297.4	234.1	44.7	_	98.1	110	43.3	3.2	70	101.2	50	_	11	20	6	60

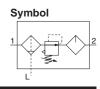
				Option	al specific	cations						Semi-star	ndard specific	ations	
Model	embedo	lare ded type e gauge	Digital p			d type e gauge	Round pressure (with cold	e gauge	With auto drain	With barb fitting	With drain guide	Metal bowl	Metal bowl with drain guide	Metal bowl with level gauge	Metal bowl with level gauge, with drain guide
	H J H		J	Н	J	Н	J	В	В	В	В	В	В	В	
AC10-A	_	_	_	_	Ø 26	26	_	_	77.9	_	_	59.3	_	_	_
AC20-B	□28	29.5	□27.8	40	Ø 37.5	65	Ø 37.5	66	104.9	_	91.4	87.4	93.9	_	_
AC25-B	□28	28.5	□27.8	39	Ø 37.5	64	Ø 37.5	65	156.8	123.6	121.9	117.6	122.1	137.6	142.1
AC30-B	□28	30.4	□27.8	40.9	Ø 37.5	65.9	Ø 37.5	66.9	156.8	123.6	121.9	117.6	122.1	137.6	142.1
AC40-B	□28	34.8	□27.8	45.3	Ø 42.5	71.3	Ø 42.5	71.3	186.9	155.6	153.9	149.6	154.1	169.6	174.1
AC40-06-B	□28	34.8	□27.8	45.3	Ø 42.5	71.3	Ø 42.5	71.3	188.9	157.6	155.9	151.6	156.1	171.6	176.1
AC50-B	□28	44.3	□27.8	54.8	Ø 42.5	80.8	Ø 42.5	80.8	259.9	228.6	226.9	222.6	227.1	242.6	247.1
AC55-B	□28	44.3	□27.8	54.8	Ø 42.5	80.8	Ø 42.5	80.8	273.9	242.6	240.9	236.6	241.1	256.6	261.1
AC60-B			80.8	Ø 42.5	80.8	273.9	242.6	240.9	236.6	241.1	256.6	261.1			

^{*1} For the AC20-B only, the position of the pressure gauge is above the centre of the piping.



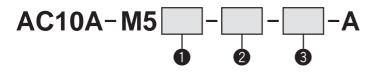
Filter Regulator + Lubricator

AC10A-A



How to Order

Refer to page 17 for size 20 to 60.



• Option/Semi-standard: Select one each for a to h. \bullet Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order. Example) AC10-M5CG-T-12NR-A

				Symbol	Description
		а	Float type auto drain	_	Without auto drain
	_	a	rioat type auto diairi	C*1	N.C. (Normally closed) Drain port is closed when pressure is not applied.
0	Option			+	
		b	Pressure gauge		Without pressure gauge
			T 1033urc gauge	G *2	Round type pressure gauge (without limit indicator)
				+	
2		Δt	tachment (T-spacer) *3		Without attachment
9		710	taoriment (1 spacer)	Т	Mounting position: AW+T+AL
				+	
		С	Set pressure *4		0.05 to 0.7 MPa setting
			Oct prossure	1	0.02 to 0.2 MPa setting
				+	
					Polycarbonate bowl
		d	Bowl *5	2	Metal bowl
				6	Nylon bowl
				+	
	lard	е	Lubricator lubricant		Without drain cock
8	Semi-standard		exhaust port	3	Lubricator with drain cock
•	ni-s			+	
	Se	f	Exhaust mechanism		Relieving type
			Exhaust moonamom	N	Non-relieving type
				+	
		g	Flow direction		Flow direction: Left to right
		9	Tiow direction	R	Flow direction: Right to left
				+	
		h	Pressure unit	_	Name plate, caution plate for bowl, and pressure gauge in SI units: MPa
			r rossure unit	Z	Name plate, caution plate for bowl, and pressure gauge in imperial units: psi, °F

^{*1} When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl.



Releasing the residual condensate before ending operations for the day is recommended.

*2 A 1.0 MPa pressure gauge will be fitted. It is not assembled and supplied loose at the time of shipment.

^{*3} The bracket position varies depending on the T-spacer mounting.

^{*4} Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.

^{*5} Refer to chemical data on page 46 for chemical resistance of the bowl.

Air Combination AC10A-A Series



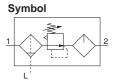
AC10A-A

Standard Specifications

Component	Filter Regulator [AW]	AW10-A
Component	Lubricator [AL]	AL10-A
Port size		M5 x 0.8
Pressure gauge por	t size [AW]	1/16
Fluid		Air
Ambient and fluid te	mperature	-5 to 60 °C (with no freezing)
Proof pressure		1.5 MPa
Maximum operating	pressure	1.0 MPa
Set pressure range	[AW]	0.05 to 0.7 MPa
Nominal filtration ra	ting [AW]	5 μm
Recommended lubri	icant [AL]	Class 1 turbine oil (ISO VG32)
Bowl material [AW/A	\L]	Polycarbonate
Construction [AW]		Relieving type
Weight [kg]		0.2

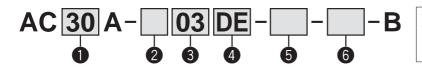
Filter Regulator + Lubricator

AC20A-B to AC60A-B



How to Order

Refer to page 15 for size 10.



- Option/Semi-standard: Select one each for a to I.
- Option/Attachment/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) AC30A-F03DE1-KSV-136NR-B

	\							0		
				Symbol	Description			Body size		
						20	30	40	50	60
				_	Rc	•	•	•	•	•
2		Pipe	thread type	N*1	NPT	•	•	•	•	•
				F *2	G	•	•	•	•	•
				+						
				01	1/8		_	_	_	_
				02	1/4	•	•	•	_	_
9			Port size	03	3/8	_	•	•	_	_
3			FUIT SIZE	04	1/2	_	_	•	_	_
				06	3/4	_	_	•	•	_
				10	1	_	_	_	•	•
				+						
				_	Without auto drain					
		а	Float type auto drain	C*4	N.C. (Normally closed) Drain port is closed when pressure is not applied.					
			auto diam	D *5	N.O. (Normally open) Drain port is open when pressure is not applied.	_	•	•		•
				+						
	۳ *			_	Without pressure gauge					
	* uc		Pressure	E	Square embedded type pressure gauge (with limit indicator)		•	•	•	•
4	Option		gauge *6	G	Round type pressure gauge (with limit indicator)	•	•	•	•	
		b		M	Round type pressure gauge (with colour zone)	•	•	•	•	•
		D	D: ::	E1	Output: NPN output, Electrical entry: Wiring bottom entry	•		•	•	•
			Digital pressure	E2	Output: NPN output, Electrical entry: Wiring top entry	•	•	•	•	•
			switch	E3	Output: PNP output, Electrical entry: Wiring bottom entry	•	•	•	•	•
			OWNOR	E4	Output: PNP output, Electrical entry: Wiring top entry		•	•		•
				+						
		С	Check valve	_	Without attachment					
		C	Crieck valve	K	Mounting position: AW+K+AL		•	●*7	_	_
	l su			+						
6	ŭ	d	Pressure	_	Without attachment					
U	Attachment	u	switch	S*8	Mounting position: AW+S+AL			•	•	
	At			+						
		е	Pressure relief	_	Without attachment	•	•	•	•	•
		٥	3 port valve	V	Mounting position: AW+AL+V	•		•	•	_
				+						
		f	Set	_	0.05 to 0.85 MPa setting	•	•	•	•	•
			pressure *9	1	0.02 to 0.2 MPa setting			•	•	
				+						
					Polycarbonate bowl	•	•	•	•	•
	ا ح			2	Metal bowl	•	•	•	•	
	dar	g	Bowl *10	6	Nylon bowl	•	•	•	•	•
6	tan	9	20	8	Metal bowl with level gauge		•	•	•	•
9	ni-s			С	With bowl guard	•	*11	*11	*11	*11
	Semi-standard			6C	With bowl guard (Nylon bowl)	•	*12	*12	<u></u> *12	*12
	,			+						
					With drain cock	•	•	•	•	•
		h	Filter regulator	J *14	Drain guide 1/8	•	-			
		•	drain port *13		Drain guide 1/4		•	•	•	•
				W *15	Drain cock with barb fitting: For Ø 6 x Ø 4 nylon tube	_		•	•	

Air Combination AC20A-B to AC60A-B Series



	\	\		Symbol	Description		ı	1 Body size		
						20	30	40	50	60
		:	Lubricator lubricant	_	Without drain cock	•	•	•	•	•
		'	exhaust port	3 *16	Lubricator with drain cock	•	•	•	•	•
				+						
	_		Exhaust	_	Relieving type	•	•	•	•	•
	Semi-standard	J	mechanism	N	Non-relieving type	•	•	•	•	•
6	anc			+						
O	ii-st	k	Flow direction	_	Flow direction: Left to right	•	•	•	•	•
	em	ĸ	riow direction	R	Flow direction: Right to left	•	•	•	•	•
	0)			+						
				_	Name plate, caution plate for bowl, and pressure gauge in SI units: MPa	•	•	•	•	•
		1	Pressure unit	Z *17	Name plate, caution plate for bowl, and pressure gauge in imperial units: psi, °F	O*19	○*19	○*19	○*19	○*19
				ZA *18	Digital pressure switch: With unit selection function	△*20	△*20	△*20	△*20	△*20
*1 D	rain	auide	is NPT 1/8 (applica	hle to the	AC20A-B) pressure gauge will be fitted for standard (0.85 MPa)	*15 The	combinatio	n of metal	howl: 2 an	d 8 is not

- and NPT 1/4 (applicable to the AC30A-B to AC60A-B). The auto drain port comes with Ø 3/8" One-touch fitting (applicable to the AC30A-B to AC60A-B). *2 Drain guide is G 1/8 (applicable to the AC20A-B) and G 1/4
- (applicable to the AC30A-B to AC60A-B).
- *3 Options G, M are not assembled and supplied loose at the time of shipment.
- *4 When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl. Releasing the residual condensate before ending operations for the day is recommended.
- *5 If the compressor is small (0.75 kW, discharge flow is less than 100 l/min[ANR]), air leakage from the drain cock may occur during start of operations. N.C. type is recommended.
- *6 When the pressure gauge is attached, a 1.0 MPa

- type. 0.4 MPa pressure gauge for 0.2 MPa type.
- *7 Not available with piping port size: 06
- *8 The bracket position varies depending on the pressure switch mounting.
- *9 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range
- *10 Refer to chemical data on page 46 for chemical resistance of the bowl.
- *11 A bowl guard is provided as standard equipment (polycarbonate)
- *12 A bowl guard is provided as standard equipment (nylon).
- *13 The combination of float type auto drain: C and D is not available
- *14 Without a valve function

- available.
- *16 When choosing with W: Filter drain port, the drain cock of a lubricator will be with barb fittings.
- *17 For pipe thread type: NPT. Cannot be used with M: Round type pressure gauge (with colour zone). Available by request for special. The digital pressure switch will be equipped with the unit selection function, setting to psi initially.
- *18 For options: E1, E2, E3, E4.
- *19 O: For pipe thread type: NPT only *20 \triangle : Select with options: E1, E2, E3, E4.

Standard Specifications

Standard Specifications Model AC20A-B AC30A-B AC40A-B AC40A-06-B AC50A-B AC60A													
N	Model	AC20A-B	AC30A-B	AC40A-B	AC40A-06-B	AC50A-B	AC60A-B						
Component	Filter Regulator [AW]	AW20-B	AW30-B	AW40-B	AW40-06-B	AW60-B	AW60-B						
Component	Lubricator [AL]	AL20-A	AL30-A	AL40-A	AL40-06-A	AL50-A	AL60-A						
Port size		1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	1						
Pressure gaug	ge port size [AW] *1	1/8											
Fluid				А	ir								
Ambient and	fluid temperature *2			-5 to 60 °C (wi	th no freezing)								
Proof pressu	re	1.5 MPa											
Maximum op	erating pressure	1.0 MPa											
Set pressure	range [AW]			0.05 to 0	.85 MPa								
Nominal filtra	tion rating [AW]			5 <u>j</u>	ım								
Recommende	ed lubricant [AL]			Class 1 turbine	oil (ISO VG32)								
Bowl materia	I [AW/AL]	Polycarbonate											
Bowl guard [AW/AL]	Semi-standard (Steel)		Sta	ndard (Polycarbona	ate)							
Construction	[AW]			Relievi	ng type								
Weight [kg]		0.33	0.63	1.15	1.25	3.21	3.36						

^{*1} Pressure gauge connection threads are not available for F.R.L. unit with a square embedded type pressure gauge or with a digital pressure switch.



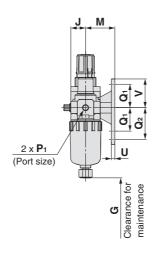
^{*2 -5} to 50 °C for the products with the digital pressure switch.

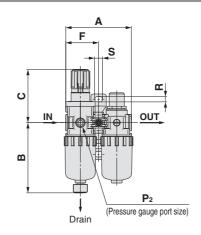
AC10A-A Series

AC20A-B to AC60A-B Series

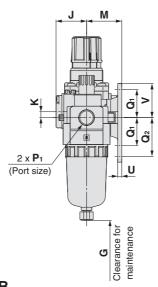
Dimensions

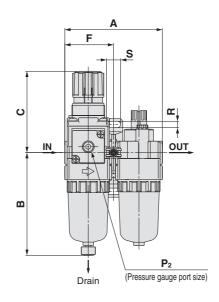
AC10A-A



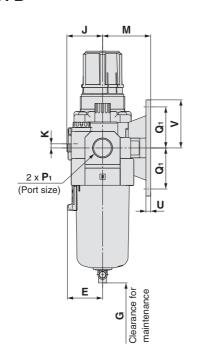


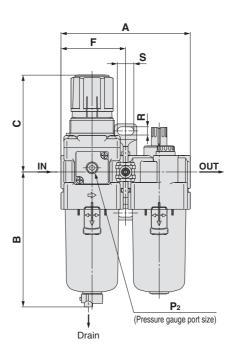
AC20A-B



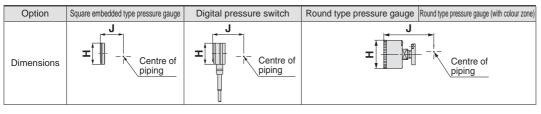


AC30A-B to AC60A-B





Air Combination AC10A-A Series Air Combination AC20A-B to AC60A-B Series



Applicable model					AC20A-B		AC30A-B to AC60A-B
Optional/Semi-standard specifications	With auto drain	Metal bowl	With auto drain	Metal bowl	With drain guide	Metal bowl with drain guide	With auto drain (N.O./N.C.)
Dimensions	B		M5 × 0.8	B	Width across flats 14 1/8	Width across flats 14	N.O.: Black N.C.: Grey Thread type/Rc, G: Ø 10 One-touch fitting Thread type/NPT: Ø 3/8" One-touch fitting

Applicable model			AC3	0A-B to AC60A-B		
Optional/Semi-standard specifications	Metal bowl	Metal bowl with drain guide	Metal bowl with level gauge	Metal bowl with level gauge, with drain guide	With drain guide	Drain cock with barb fitting
Dimensions	•	Width across flats 17	a v	Width across flats 17	Width across flats 17	Barb fitting applicable tubing: T0604

							S	tandard	specifica	tions							
Model	P ₁	P ₂	^	В	C*1	Е	F	G		К			Bra	acket mo	unt		
	F1	F2	Α	В	C			G	J	, r	M	Q ₁	Q ₂	R	S	U	V
AC10A-A	M5 x 0.8	1/16	56	59.9	47.4	_	28	25	12.5	_	25	20	27	4.5	6.8	3	24.5
AC20A-B	1/8, 1/4	1/8	83.2	87.6	72.4	_	41.6	60	28.5	5	30	24	33	5.5	12	3.5	29
AC30A-B	1/4, 3/8	1/8	110.2	115.1	85.6	30	55.1	80	29.4	3.5	41	35	_	7	14	4	41
AC40A-B	1/4, 3/8, 1/2	1/8	145.2	147.1	91.7	38.4	72.6	110	33.8	1.5	50	40	_	9	18	5	48
AC40A-06-B	3/4	1/8	155.2	149.1	93.2	38.4	77.6	110	33.8	1.2	50	40	_	9	18	5	48
AC50A-B	3/4, 1	1/8	191.2	220.1	175.5	_	93.1	110	43.3	3.2	70	50	_	11	20	6	60
AC60A-B	1	1/8	196.2	234.1	175.5	_	98.1	110	43.3	3.2	70	50	_	11	20	6	60

				Option	al specific	cations						Semi-star	ndard specific	ations	
Model	Squ embedo pressure	led type	Digital p		Round	,,	Round pressure (with cold	e gauge	With auto drain	With barb fitting	With drain guide	Metal bowl	Metal bowl with drain guide	Metal bowl with level gauge	Metal bowl with level gauge, with drain guide
	H J		Н	J	Н	J	Н	J	В	В	В	В	В	В	В
AC10A-A			_	_	Ø 26	26	_	_	77.9	_	_	59.3	_	_	_
AC20A-B	□28	27	□27.8	37.5	Ø 37.5	62.5	Ø 37.5	63.5	104.9	_	91.4	87.4	93.9	_	_
AC30A-B	□28	30	□27.8	40.9	Ø 37.5	66.9	Ø 37.5	67.9	156.8	123.6	121.9	117.6	122.1	137.6	142.1
AC40A-B	□28	38.4	□27.8	48.8	Ø 42.5	75.7	Ø 42.5	75.7	186.9	155.6	153.9	149.6	154.1	169.6	174.1
AC40A-06-B	□28	38.4	□27.8	48.8	Ø 42.5	75.7	Ø 42.5	75.7	188.9	157.6	155.9	151.6	156.1	171.6	176.1
AC50A-B	□28	44.3	□27.8	61.3	Ø 42.5	80.8	Ø 42.5	80.8	259.9	228.6	226.9	222.6	227.1	242.6	247.1
AC60A-B	□28	44.3	□27.8	61.3	Ø 42.5	80.8	Ø 42.5	80.8	273.9	242.6	240.9	236.6	241.1	256.6	261.1

 $[\]ast 1$ The dimension of C is the length when the filter regulator knob is unlocked.

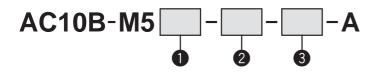
Air Filter + Regulator

AC10B-A



How to Order

Refer to page 23 for size 20 to 60.



- \bullet Option/Semi-standard: Select one each for \boldsymbol{a} to $\boldsymbol{g}.$
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.

Example) AC10B-M5CG-T-12NR-A

		_		Symbol	Description
	Option	а	Floot type outs drain	-	Without auto drain
			Float type auto drain	C *1	N.C. (Normally closed) Drain port is closed when pressure is not applied.
0				+	
		b	Pressure gauge		Without pressure gauge
			Flessule gauge	G *2	Round type pressure gauge (without limit indicator)
				+	
2		Δ	ttachment (T-spacer) *3	_	Without attachment
9			macriment (1-spacer)	Т	Mounting position: AF+ T +AR
				+	
		С	Set pressure *4		0.05 to 0.7 MPa setting
			Oct pressure	1	0.02 to 0.2 MPa setting
				+	
		d	Bowl *5		Polycarbonate bowl
				2	Metal bowl
	ō			6	Nylon bowl
	Semi-standard			+	
3	-sta	е	Exhaust mechanism	_	Relieving type
	emi		Exhaust moonamom	N	Non-relieving type
	O)			+	
		f	Flow direction		Flow direction: Left to right
			1 low direction	R	Flow direction: Right to left
				+	
		a	Pressure unit		Name plate, caution plate for bowl, and pressure gauge in SI units: MPa
		9	g Pressure unit		Name plate, caution plate for bowl, and pressure gauge in imperial units: psi, °F

^{*1} When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl. Releasing the residual condensate before ending operations for the day is recommended.

^{*2} A 1.0 MPa pressure gauge will be fitted. It is not assembled and supplied loose at the time of shipment.

^{*3} The bracket position varies depending on the T-spacer mounting.
*4 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.

^{*5} Refer to chemical data on page 46 for chemical resistance of the bowl.

Air Combination AC10B-A Series



AC10B-A

Standard Specifications

Component	Air Filter [AF]	AF10-A
Component	Regulator [AR]	AR10-A
Port size		M5 x 0.8
Pressure gauge por	rt size [AR]	1/16
Fluid		Air
Ambient and fluid to	emperature	-5 to 60 °C (with no freezing)
Proof pressure		1.5 MPa
Maximum operating	g pressure	1.0 MPa
Set pressure range	[AR]	0.05 to 0.7 MPa
Nominal filtration ra	ating [AF]	5 μm
Bowl material [AF]		Polycarbonate
Construction [AR]		Relieving type
Weight [kg]		0.16

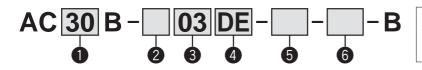
Air Filter + Regulator

AC20B-B to AC60B-B



How to Order

Refer to page 21 for size 10.



- Option/Semi-standard: Select one each for a to j.
- Option/Attachment/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) AC30B-F03DE1-SV-16NR-B

					0									
				Symbol Description			Body size							
						20	25	30	40	50	55	60		
					Rc						•			
2	2 Pipe thread type			N*1	NPT		•	•	•	•	•			
9				F *2	G		•	•	•	•	•			
				+										
				01	1/8		I —	T —	_	T	_			
				02	1/4		•	•	•	_	_			
				03	3/8	_	•	•	•	_	_			
8			Port size	04	1/2	_	_	_	•	_	_	_		
				06	3/4	_	_	_	•	•	_	_		
				10	1	_	_	_	_	•	•	•		
				+										
			Floot tymo	_	Without auto drain		•	•	•		•			
		а	Float type auto drain	C*4	N.C. (Normally closed) Drain port is closed when pressure is not applied.		•	•	•		•			
			auto diairi	D *5	N.O. (Normally open) Drain port is open when pressure is not applied.	_	•	•	•	•	•			
				+										
	e ش				Without pressure gauge		•	•	•	•	•	•		
4	Option *3		Pressure	E	Square embedded type pressure gauge (with limit indicator)	•	•	•	•	•	•	•		
•) Dti	b		gauge *6	G	Round type pressure gauge (with limit indicator)	•	•	•	•	•	•		
				M	Round type pressure gauge (with colour zone)	•	•	•	•	•	•	•		
			Digital	E1	Output: NPN output, Electrical entry: Wiring bottom entry	•	•	•	•	•	•	•		
			pressure	E2	Output: NPN output, Electrical entry: Wiring top entry		•	•	•	•	•			
			switch	E3	Output: PNP output, Electrical entry: Wiring bottom entry	•	•	•	•	•	•	•		
				E4	Output: PNP output, Electrical entry: Wiring top entry		•		•	•	•			
			_	+	Med									
		С	Pressure switch		Without attachment		•							
	ti			S*7 T*7	Mounting position: AF+ S +AR			•		•	•			
A	Attachment		T-spacer	+	Mounting position: AF+ T +AR									
6	tack	d		T	Without attachment			•	•	•	•			
	Att		Pressure relief	V	Mounting position: AF+AR+V		•							
			3 port valve	V1*8	Mounting position: V+AF+AR□K							\vdash		
				+	Wouthing position. • TALTAILLIN						l			
			Set	<u> </u>	0.05 to 0.85 MPa setting									
		е	pressure *9	1	0.02 to 0.2 MPa setting		•		•		•			
			•	+	0.02 to 0.2 a cottaing									
				_	Polycarbonate bowl		•	•	•		•			
				2	Metal bowl		•	•	•	•	•	•		
	ard		5 . *10	6	Nylon bowl		•	•	•	•	•			
	and	f	Bowl *10	8	Metal bowl with level gauge		•	•	•	•	•	•		
6	i-st			С	With bowl guard	•	*11	*11	*11	*11	*11	*11		
	Semi-standard			6C	With bowl guard (Nylon bowl)	•	*12	*12	*12	*12	*12	*12		
	S			+	- , , , ,					1				
				_	With drain cock		•	•	•	•	•			
		g	Air filter	J*14	Drain guide 1/8	•	_	_	_	_	_			
			drain port *13	J	Drain guide 1/4		•	•	•	•	•	•		
				W *15	Drain cock with barb fitting: For Ø 6 x Ø 4 nylon tube		•	•	•	•	•			

₹

Air Combination AC20B-B to AC60B-B Series



	\	_			2				0										
				Symbol	Description			В	ody siz	:e									
						20	25	30	40	50	55	60							
		h	Exhaust	_	Relieving type	•	•	•	•	•	•	•							
		"	mechanism	N	Non-relieving type	•	•	•	•	•	•	•							
	II			+															
	standard		Flow direction	_	Flow direction: Left to right	•	•	•	•	•	•	•							
6	sta	'	riow direction	R	Flow direction: Right to left	•	•	•	•	•	•	•							
	∃.			+															
	Semi			_	Name plate, caution plate for bowl, and pressure gauge in SI units: MPa	•	•	•	•	•	•	•							
		j	j	j	j	j	j	j	j	Pressure unit	Z *16	Name plate, caution plate for bowl, and pressure gauge in imperial units: psi, °F	O*18						
				ZA *17	Digital pressure switch: With unit selection function	△*19	△*19	△*19	△*19	△*19	△*19	△*19							
*1 D	rain (guide	is NPT 1/8 (applica	able to the	AC20B-B) *6 When the pressure gauge is attached, a 1.0 MPa	*13 T	he comb	ination o	f float ty	pe auto	drain: C	and D is							

- and NPT 1/4 (applicable to the AC25B-B to AC60B-B). The auto drain port comes with Ø 3/8" One-touch fitting (applicable to the AC25B-B to AC60B-B).
- *2 Drain guide is G 1/8 (applicable to the AC20B-B) and G 1/4 (applicable to the AC25B-B to AC60B-B).
- *3 Options G, M are not assembled and supplied loose at the time of shipment.
- *4 When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl. Releasing the residual condensate before ending operations for the day is recommended.
- *5 If the compressor is small (0.75 kW, discharge flow is less than 100 l/min[ANR]), air leakage from the drain cock may occur during start of operations. N.C. type is recommended.
- pressure gauge will be fitted for standard (0.85 MPa) type. 0.4 MPa pressure gauge for 0.2 MPa type.

 *7 The bracket position varies depending on the T-spacer
- or pressure switch mounting.
- *8 Make sure that the outlet pressure is released to atmospheric pressure using a pressure gauge.
- *9 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.
- *10 Refer to chemical data on page 46 for chemical resistance of the bowl
- *11 A bowl guard is provided as standard equipment (polycarbonate).
- *12 A bowl guard is provided as standard equipment (nylon).

- not available.
- *14 Without a valve function
- *15 The combination of metal bowl: 2 and 8 is not available.
- *16 For pipe thread type: NPT.

Cannot be used with M: Round pressure gauge (with colour zone). Available by request for special. The digital pressure switch will be equipped with the unit selection function, setting to psi initially.

- *17 For options: E1, E2, E3, E4.
- *18 O: For pipe thread type: NPT only
- *19 \(\triangle\): Select with options: E1, E2, E3, E4.

Standard Specifications

Model		AC20B-B	AC25B-B	AC30B-B	AC40B-B	AC40B-06-B	AC50B-B	AC55B-B	AC60B-B			
C	Air Filter [AF]	AF20-A	AF30-A	AF30-A	AF40-A	AF40-06-A	AF50-A	AF60-A	AF60-A			
Component	Regulator [AR]	AR20-B	AR25-B	AR30-B	AR40-B	AR40-06-B	AR50-B	AR50-B	AR60-B			
Port size							1	1				
Pressure gau	ge port size [AR] *1		1/8									
Fluid			Air									
Ambient and fluid temperature *2		-5 to 60 °C (with no freezing)										
Proof pressu	re	1.5 MPa										
Maximum op	erating pressure	1.0 MPa										
Set pressure	range [AR]	0.05 to 0.85 MPa										
Nominal filtra	ation rating [AF]	5 μm										
Bowl material [AF]		Polycarbonate										
Bowl guard [AF]	Semi-standard (Steel) Standard (Polycarbonate)										
Construction	[AR]	Relieving type										
Weight [kg]		0.27	0.45	0.53	0.91	0.99	2.27	2.40	2.45			

^{*1} Pressure gauge connection threads are not available for F.R.L. unit with a square embedded type pressure gauge or with a digital pressure switch.



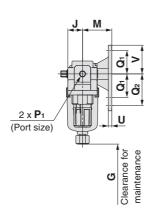
^{*2 -5} to 50 °C for the products with the digital pressure switch.

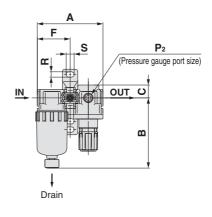
AC10B-A Series

AC20B-B to AC60B-B Series

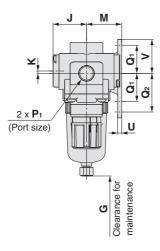
Dimensions

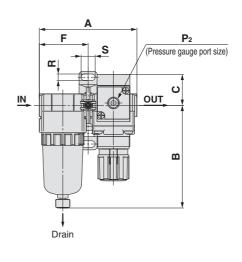
AC10B-A



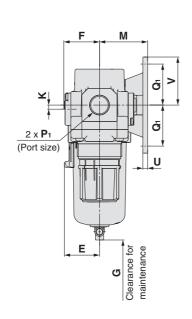


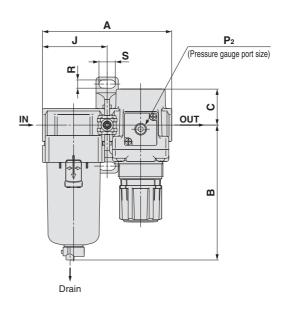
AC20B-B



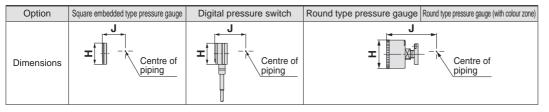


AC25B-B to AC60B-B





Air Combination AC10B-A Series Air Combination AC20B-B to AC60B-B Series



Applicable mode					AC20B-B		AC25B-B to AC60B-B
Optional/Semi-standa specifications	With auto drain	Metal bowl	With auto drain	Metal bowl	With drain guide	Metal bowl with drain guide	With auto drain (N.O./N.C.)
Dimensions	B	<u> </u>	M5 x 0.8	m	Width across flats 14 1/8	Width across of 1/8	N.O.: Black N.C.: Grey Thread type/Rc, G: Ø 10 One-touch fitting Thread type/NPT: Ø 3/8" One-touch fitting

Applicable model			AC2	5B-B to AC60B-B		
Optional/Semi-standard specifications	Metal bowl	Metal bowl with drain guide	Metal bowl with level gauge	Metal bowl with level gauge, with drain guide	With drain guide	Drain cock with barb fitting
Dimensions	B	Width across flats 17	a v	Width across flats 17	Width across flats 17	Barb fitting applicable tubing: T0604

							S	tandard	specifica	tions							
Model	P1	P ₂		В	С	Е	F	G		К			Bra	acket mo	unt		
	P1	P2	A	В	C	-		G	J	ı n	M	Q ₁	Q2	R	S	U	V
AC10B-A	M5 x 0.8	1/16	56	59.9	11	_	28	25	12.5	_	25	20	27	4.5	6.8	3	24.5
AC20B-B	1/8, 1/4	1/8	83.2	87.6	26.5	_	41.6	25	28.5	2 *1	30	24	33	5.5	12	3.5	29
AC25B-B	1/4, 3/8	1/8	110.2	115.1	28	30	55.1	35	27.5	0	41	35	_	7	14	4	41
AC30B-B	1/4, 3/8	1/8	110.2	115.1	30.7	30	55.1	35	29.4	3.5	41	35	_	7	14	4	41
AC40B-B	1/4, 3/8, 1/2	1/8	145.2	147.1	35.8	38.4	72.6	40	33.8	3.5	50	40	_	9	18	5	48
AC40B-06-B	3/4	1/8	155.2	149.1	35.8	38.4	77.6	40	33.8	3	50	40	_	9	18	5	48
AC50B-B	3/4, 1	1/8	186.2	220.1	43	_	93.1	30	43.3	3.2	70	50	_	11	20	6	60
AC55B-B	1	1/8	191.2	234.1	43	_	98.1	30	43.3	3.2	70	50	_	11	20	6	60
AC60B-B	1	1/8	196.2	234.1	46	_	98.1	30	43.3	3.2	70	50	_	11	20	6	60

				Option	al specific	cations						Semi-star	dard specific	ations	
Model	Squ embedo pressure	led type	Digital p			d type e gauge	Round pressure (with cold	e gauge	With auto drain	With barb fitting	With drain guide	Metal bowl	Metal bowl with drain guide	Metal bowl with level gauge	Metal bowl with level gauge, with drain guide
	Н	J	Н	J	Н	J	Н	J	В	В	В	В	В	В	В
AC10B-A	_	_	_	_	Ø 26	26	_	_	77.9	_	_	59.3	_	_	_
AC20B-B	□28	29.5	□27.8	40	Ø 37.5	65	Ø 37.5	66	104.9	_	91.4	87.4	93.9	_	_
AC25B-B	□28	28.5	□27.8	39	Ø 37.5	64	Ø 37.5	65	156.8	123.6	121.9	117.6	122.1	137.6	142.1
AC30B-B	□28	30.4	□27.8	40.9	Ø 37.5	65.9	Ø 37.5	66.9	156.8	123.6	121.9	117.6	122.1	137.6	142.1
AC40B-B	□28	34.8	□27.8	45.3	Ø 42.5	71.3	Ø 42.5	71.3	186.9	155.6	153.9	149.6	154.1	169.6	174.1
AC40B-06-B	□28	34.8	□27.8	45.3	Ø 42.5	71.3	Ø 42.5	71.3	188.9	157.6	155.9	151.6	156.1	171.6	176.1
AC50B-B	□28	44.3	□27.8	54.8	Ø 42.5	80.8	Ø 42.5	80.8	259.9	228.6	226.9	222.6	227.1	242.6	247.1
AC55B-B	□28	44.3	□27.8	54.8	Ø 42.5	80.8	Ø 42.5	80.8	273.9	242.6	240.9	236.6	241.1	256.6	261.1
AC60B-B	□28	44.3	□27.8	54.8	Ø 42.5	80.8	Ø 42.5	80.8	273.9	242.6	240.9	236.6	241.1	256.6	261.1

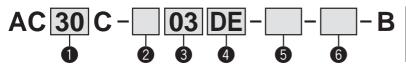
^{*1} For the AC20B-B only, the position of the pressure gauge is above the centre of the piping.

Air Filter + Mist Separator + Regulator

AC20C-B to AC40C-B



How to Order



- Option/Semi-standard: Select one each for a to j.
- Option/Attachment/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) AC30C-F03DE1-SV-16NR-B

							1		
				Symbol	Description		Body		
						20	25	30	40
				_	Rc	•	•		•
2		Pipe	thread type	N*1	NPT	•	•	•	•
				F *2	G	•	•	•	•
				+					
				01	1/8		_	_	_
_				02	1/4	•	•	•	•
3			Port size	03	3/8	_	•	•	•
				04	1/2	_	_	_	•
				06	3/4		_	_	•
				+					
			Float type		Without auto drain	•	•	•	•
		а	auto drain	C*4	N.C. (Normally closed) Drain port is closed when pressure is not applied.	•	•	•	•
				D *5	N.O. (Normally open) Drain port is open when pressure is not applied.	_	•	•	•
				+	1				
	ო *				Without pressure gauge	•	•	•	
4	Option *		Pressure	E	Square embedded type pressure gauge (with limit indicator)	•	•	•	•
	Opt		gauge *6	G	Round type pressure gauge (with limit indicator)	•	•	•	•
		b		M	Round type pressure gauge (with colour zone)	•	•	•	•
			Digital	E1	Output: NPN output, Electrical entry: Wiring bottom entry	•	•	•	•
			pressure	E2	Output: NPN output, Electrical entry: Wiring top entry	•	•	•	•
			switch	E3	Output: PNP output, Electrical entry: Wiring bottom entry	•	•	•	•
				E4	Output: PNP output, Electrical entry: Wiring top entry	•	•	•	•
			D	+	Without attachment				
		С	Pressure switch		Mounting position: AF+AFM+ S +AR				
	ant	C	T-spacer	T *7	Mounting position: AF+AFM+ T +AR				
6	Attachment		1-5расеі	+	Modifiling position. At TAT WIT I TAK				
U	tack				Without attachment				
	At	d	Pressure relief	V	Mounting position: AF+AFM+AR+V	•		•	
			3 port valve	V1*8	Mounting position: V+AF+AFM+AR□K			•	
				+			_		
			Set		0.05 to 0.85 MPa setting	•		•	•
		е	pressure *9	1	0.02 to 0.2 MPa setting	•		•	•
				+	0			-	
				_	Polycarbonate bowl	•	•		•
				2	Metal bowl	•	•	•	•
			David*10	6	Nylon bowl	•	•	•	•
	ō	f	Bowl *10	8	Metal bowl with level gauge	_	•	•	•
	nda			С	With bowl guard	•	*11	*11	*11
6	stal			6C	With bowl guard (Nylon bowl)	•	*12	*12	<u></u> *12
	Semi-standard			+				<u>"</u>	
	Se		A to City		With drain cock	•	•	•	•
		~	Air filter Mist separator	J*14	Drain guide 1/8	•	_		
		g	drain port *13	J	Drain guide 1/4		•	•	•
			a.a.ii poit	W *15	Drain cock with barb fitting: For Ø 6 x Ø 4 nylon tube		•	•	•
				+					
		h	Exhaust	_	Relieving type	•	•	•	•
		"	mechanism	N	Non-relieving type		•	•	•

40

AB

Air Combination AC20C-B to AC40C-B Series



		_		Symbol	Description	20
			Flore Constant	_	Flow direction: Left to right	•
	standard	'	Flow direction	R	Flow direction: Right to left	•
	anc			+		
6	ii-st			_	Name plate, caution plate for bowl, and pressure gauge in SI units: MPa	•
	Semi-	j	Pressure unit	Z *16	Name plate, caution plate for bowl, and pressure gauge in imperial units: psi, °F	O*1
	0)			ZA *17	Digital pressure switch: With unit selection function	△*1
	,	_	is NPT 1/8 (applica		,	*13 The

- and NPT 1/4 (applicable to the AC25C-B to AC40C-B). The auto drain port comes with Ø 3/8" One-touch fitting (applicable to the AC25C-B to AC40C-B).
- *2 Drain guide is G 1/8 (applicable to the AC20C-B) and G 1/4 (applicable to the AC25C-B to AC40C-B).
- *3 Options G, M are not assembled and supplied loose at the time of shipment.
- *4 When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl. Releasing the residual condensate before ending operations for the day is recommended.
- *5 If the compressor is small (0.75 kW, discharge flow is less than 100 l/min [ANR]), air leakage from the drain cock may occur during start of operations. N.C. type is recommended.
- pressure gauge will be fitted for standard (0.85 MPa) type. 0.4 MPa pressure gauge for 0.2 MPa type.
- *7 The bracket position varies depending on the T-spacer or pressure switch mounting.
- *8 Make sure that the outlet pressure is released to atmospheric pressure using a pressure gauge.
- *9 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.
- *10 Refer to chemical data on page 46 for chemical resistance of the bowl.
- *11 A bowl guard is provided as standard equipment (polycarbonate)
- *12 A bowl guard is provided as standard equipment (nylon).

0 Body size

30

O*18

25

O*18

- △^{*19} △*19 △*19 △*19 The combination of float type auto drain: C and D is not available.
- *14 Without a valve function

○*18

- *15 The combination of metal bowl: 2 and 8 is not available.
- *16 For pipe thread type: NPT. Cannot be used with M: Round type pressure gauge (with colour zone). Available by request for special. The digital pressure switch will be equipped with the unit selection function, setting to psi initially.
- *17 For options: E1, E2, E3, E4.
- *18 O: For pipe thread type: NPT only
- *19 A: Select with options: E1, E2, E3, E4.

Standard Specifications

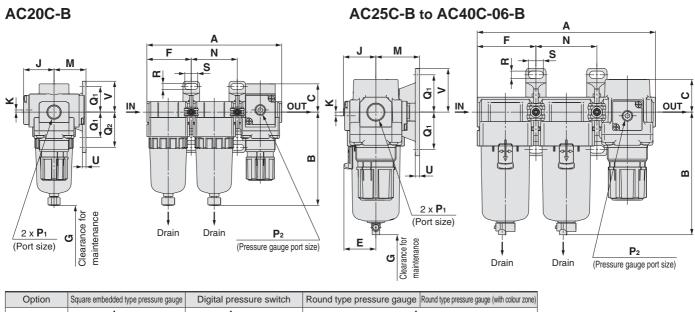
Otanaara (Specifications											
	Model	AC20C-B	AC25C-B	AC30C-B	AC40C-B	AC40C-06-B						
	Air Filter [AF]	AF20-A	AF30-A	AF30-A	AF40-A	AF40-06-A						
Component	Mist Separator [AFM]	AFM20-A	AFM30-A	AFM30-A	AFM40-A	AFM40-06-A						
	Regulator [AR]	AR20-B	AR25-B	AR30-B	AR40-B	AR40-06-B						
Port size		1/8, 1/4	1/4, 3/8	1/4, 3/8	1/4, 3/8, 1/2	3/4						
Pressure gau	uge port size [AR] *1	·		1/8								
Fluid				Air								
Ambient and	fluid temperature *2		-5 to	60 °C (with no freez	ing)							
Proof pressu	ire	1.5 MPa										
Maximum op	erating pressure			1.0 MPa								
Set pressure	range [AR]	0.05 to 0.85 MPa										
Nominal filtra	ation rating [AF/AFM]		AF: 5 μm, AFM:	0.3 μm (99.9 % filter	ed particle size)							
Rated flow [l/	/min(ANR)] [AFM] *3	200	450	450	1100	1100						
Outlet side oil m	ist concentration [AFM] *4 *5	Max.1.0 mg/m³ (ANR) (≈0.8 ppm)										
Bowl materia	al [AF/AFM]	Polycarbonate										
Bowl guard [AF/AFM]	Semi-standard (Steel) Standard (Polycarbonate)										
Construction	n [AR]	Relieving type										
Weight [kg]		0.38	0.69	0.77	1.39	1.53						

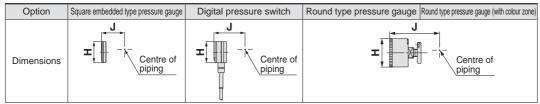
- *1 Pressure gauge connection threads are not available for F.R.L. unit with a square embedded type pressure gauge or with a digital pressure switch.
- *2 -5 to 50 °C for the products with the digital pressure switch.
- Conditions: Mist separator inlet pressure: 0.7 MPa; The rated flow varies depending on the inlet pressure. Keep the air flow within the rated flow to prevent an outflow of lubricant to the outlet side.
- *4 When the compressor oil mist discharge concentration is 30 mg/m³ (ANR).
- *5 Bowl seal and other O-rings are slightly lubricated.

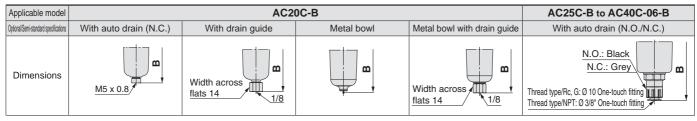


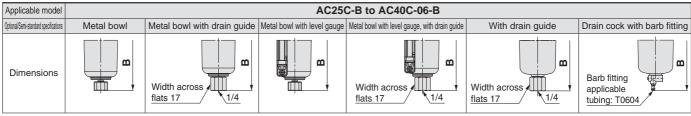
AC20C-B to AC40C-B Series

Dimensions









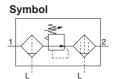
								Stand	ard spec	cification	S							
Model	P1	P ₂	_	В	_	Е	_	G		K				Bracke	t mount			
	FI	F2	Α	Ь	C	_	Г	G	J	, r	M	N	Q ₁	Q2	R	S	U	V
AC20C-B	1/8, 1/4	1/8	126.4	87.6	26.5	_	41.6	40	28.5	2 *1	30	43.2	24	33	5.5	12	3.5	29
AC25C-B	1/4, 3/8	1/8	167.4	115.1	28	30	55.1	50	27.5	0	41	57.2	35	_	7	14	4	41
AC30C-B	1/4, 3/8	1/8	167.4	115.1	30.7	30	55.1	50	29.4	3.5	41	57.2	35	_	7	14	4	41
AC40C-B	1/4, 3/8, 1/2	1/8	220.4	147.1	35.8	38.4	72.6	75	33.8	3.5	50	75.2	40	_	9	18	5	48
AC40C-06-B	3/4	1/8	235.4	149.1	35.8	38.4	77.6	75	33.8	3	50	80.2	40	_	9	18	5	48

	Square Model embedded type			Option	al specific	cations						Semi-star	dard specific	ations	
Model	Model embedde		Digital p	ressure tch	Round type pressure gauge		' pressure gauge		With auto drain	With barb fitting	With drain guide	Metal bowl	Metal bowl with drain guide	Metal bowl with level gauge	Metal bowl with level gauge, with drain guide
	H J		Н	J	Н	J	Н	J	В	В	В	В	В	В	В
AC20C-B			□27.8	40	Ø 37.5	65	Ø 37.5	66	104.9	_	91.4	87.4	93.9	_	_
AC25C-B	□28	28.5	□27.8	39	Ø 37.5	64	Ø 37.5	65	156.8	123.6	121.9	117.6	122.1	137.6	142.1
AC30C-B	C30C-B □28 30.4		□27.8	40.9	Ø 37.5	65.9	Ø 37.5	66.9	156.8	123.6	121.9	117.6	122.1	137.6	142.1
AC40C-B	□28	34.8	□27.8	45.3	Ø 42.5	71.3	Ø 42.5	71.3	186.9	155.6	153.9	149.6	154.1	169.6	174.1
AC40C-06-B	□28	34.8	□27.8	45.3	Ø 42.5	71.3	Ø 42.5	71.3	188.9	157.6	155.9	151.6	156.1	171.6	176.1

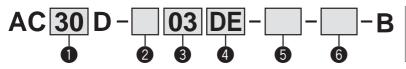
^{*1} For the AC20C-B only, the position of the pressure gauge is above the centre of the piping.

Filter Regulator + Mist Separator

AC20D-B to AC40D-B



How to Order



- Option/Semi-standard: Select one each for a to j.
- Option/Attachment/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) AC30D-F03DE1-SV-16NR-B

							0	
				Symbol	Description		Body size	
						20	30	40
					Rc		•	•
2		Pine	e thread type	N*1	NPT		•	•
9		pc	o unoda typo	F*2	G		•	•
				+	, and the second			
				01	1/8	•	_	_
				02	1/4	•	•	•
3			Port size	03	3/8	_	•	•
				04	1/2	_	_	•
				06	3/4	_	_	•
				+				
			Float type	_	Without auto drain	•	•	•
		а	auto drain	C*4	N.C. (Normally closed) Drain port is closed when pressure is not applied.	•	•	•
				D *5	N.O. (Normally open) Drain port is open when pressure is not applied.	_	•	•
				+				
	ო *				Without pressure gauge	•	•	•
4	Option *		Pressure	Е	Square embedded type pressure gauge (with limit indicator)	•	•	•
	Spt		gauge *6	G	Round type pressure gauge (with limit indicator)	•	•	•
		b		M	Round type pressure gauge (with colour zone)	•	•	•
			Digital	E1	Output: NPN output, Electrical entry: Wiring bottom entry	•	•	•
			pressure	E2	Output: NPN output, Electrical entry: Wiring top entry	•	•	•
			switch	E3	Output: PNP output, Electrical entry: Wiring bottom entry		•	•
				E4	Output: PNP output, Electrical entry: Wiring top entry		•	•
			Dunnanuna	+	Without attachment			
	ᆂ	С	Pressure switch		Mounting position: AW+S+AFM			
	Attachment		SWITCH	+	Woulding position. AWTOTALIVI			
6	chr				Without attachment			
	Atta	d	Pressure relief	V	Mounting position: AW+AFM+V		•	
		_	3 port valve	V1*8	Mounting position: V+AW□K+AFM	•	•	•
				+	mounting poolition of the control of			
			Set	_	0.05 to 0.85 MPa setting	•	•	•
		е	pressure *9	1	0.02 to 0.2 MPa setting	•	•	•
				+			1	
				_	Polycarbonate bowl	•	•	•
				2	Metal bowl	•	•	•
		f	Bowl *10	6	Nylon bowl	•	•	•
		•	DOWI	8	Metal bowl with level gauge	_	•	•
	٦			С	With bowl guard	•	*11	*11
	dar			6C	With bowl guard (Nylon bowl)	•	*12	*12
6	tan			+				
	Semi-standard		Filter regulator	_	With drain cock		•	•
	Ser	g	Mist separator	J*14	Drain guide 1/8	•		
		J	drain port *13	385045	Drain guide 1/4	_	•	•
				W*15	Drain cock with barb fitting: For Ø 6 x Ø 4 nylon tube		•	•
			-	+	Deliania a trac			
		h	Exhaust mechanism	— N	Relieving type		•	•
			IIIEGIAIIISIII	N +	Non-relieving type	•	•	•
				-	Flow direction: Left to right			
		i	Flow direction	R	Flow direction: Left to right Flow direction: Right to left			
31				IX	Flow direction. Right to left			•

Air Combination AC20D-B to AC40D-B Series





AC20D-B

AC40D-B

	\	_		Symbol	Description		Body size	
					,	20	30	40
	dard			_	Name plate, caution plate for bowl, and pressure gauge in SI units: MPa	•	•	•
6	-stano	j	Pressure unit	Z *16	Name plate, caution plate for bowl, and pressure gauge in imperial units: psi, °F	○*18	○*18	○*18
6	Semi			ZA *17	Digital pressure switch: With unit selection function	△*19	△*19	△*19
		uide	is NPT 1/8 (applicable	e to the AC	20D-B) and *6 When the pressure gauge is attached, a 1.0 MPa	*13 The combina	tion of float type au	to drain: C and

- NPT 1/4 (applicable to the AC30D-B/AC40D-B).
- The auto drain port comes with Ø 3/8" One-touch fitting (applicable to the AC30D-B/AC40D-B).
- *2 Drain guide is G 1/8 (applicable to the AC20D-B) and G 1/4 (applicable to the AC30D-B/AC40D-B).
- *3 Options G, M are not assembled and supplied loose at the time of shipment.
- *4 When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl. Releasing the residual condensate before ending operations for the day is recommended.
- *5 If the compressor is small (0.75 kW, discharge flow is less than 100 l/min [ANR]), air leakage from the drain cock may occur during start of operations. N.C. type is recommended
- pressure gauge will be fitted for standard (0.85 MPa) type. 0.4 MPa pressure gauge for 0.2 MPa type.
- *7 The bracket position varies depending on the pressure switch mounting.
- *8 Make sure that the outlet pressure is released to atmospheric pressure using a pressure gauge.
- *9 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.
- *10 Refer to chemical data on page 46 for chemical resistance of the bowl.
- *11 A bowl guard is provided as standard equipment (polycarbonate)
- *12 A bowl guard is provided as standard equipment (nylon).

- and D is not available.
- *14 Without a valve function
- *15 The combination of metal bowl: 2 and 8 is not available.
- *16 For pipe thread type: NPT.

Cannot be used with M: Round type pressure gauge (with colour zone). Available by request for special. The digital pressure switch will be equipped with the unit selection function, setting to psi initially.

- *17 For options: E1, E2, E3, E4.
- *18 O: For pipe thread type: NPT only
- *19 \(\triangle:\) Select with options: E1, E2, E3, E4,

Standard Specifications

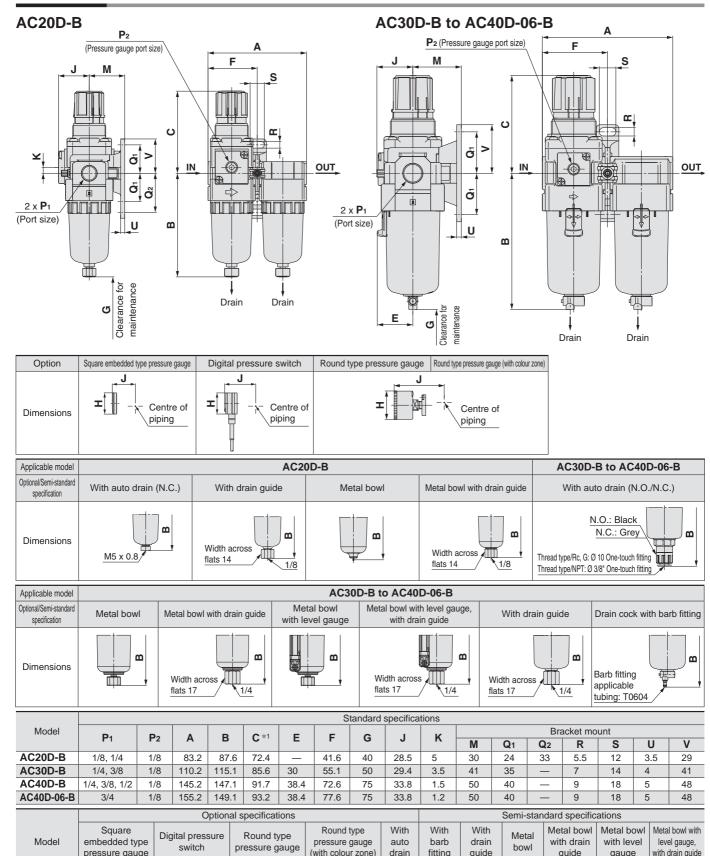
Juliana a	peomodiions			1								
	Model	AC20D-B	AC30D-B	AC40D-B	AC40D-06-B							
Campanant	Filter Regulator [AW]	AW20-B	AW30-B	AW40-B	AW40-06-B							
Component	Mist Separator [AFM]	AFM20-A	AFM30-A	AFM40-A	AFM40-06-A							
Port size		1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4							
Pressure gau	uge port size [AW] *1		1,	/8								
Fluid		Air										
Ambient and	fluid temperature *2		-5 to 60 °C (with no freezing)									
Proof pressu	ire		1.5 MPa									
Maximum op	erating pressure		1.0 MPa									
Set pressure	range [AW]	0.05 to 0.85 MPa										
Nominal filtra	ation rating [AW/AFM]		AW: 5 μm, AFM: 0.3 μm (9	99.9 % filtered particle size)								
Rated flow [la	/min(ANR)] [AFM] *3	150	330	800	800							
Outlet side oil m	ist concentration [AFM] *4 *5		Max.1.0 mg/m ³ (ANR) (≈0.8 ppm)								
Bowl materia	il [AW/AFM]	Polycarbonate										
Bowl guard [AW/AFM]	Semi-standard (Steel) Standard (Polycarbonate)										
Construction	[AW]		Relievi	ng type								
Weight [kg]		0.32	0.62	1.15	1.25							

- *1 Pressure gauge connection threads are not available for F.R.L. unit with a square embedded type pressure gauge or with a digital pressure switch.
- $*2\,$ -5 to 50 °C for the products with the digital pressure switch.
- *3 Conditions: Mist separator inlet pressure: 0.5 MPa; The rated flow varies depending on the inlet pressure.
- Keep the air flow within the rated flow to prevent an outflow of lubricant to the outlet side.
- *4 When the compressor oil mist discharge concentration is 30 mg/m³ (ANR).
- *5 Bowl seal and other O-rings are slightly lubricated.



AC20D-B to AC40D-B Series

Dimensions



gauge

В

137.6

169.6

171.6

В

142.1

174.1

176.1

Н

□27.8

□27.8

□27.8

Н

Ø 37.5

Ø 37.5

Ø 42.5

Ø 42.5

37.5

40.9

48.8

48.8

Н

Ø 37.5

Ø 37.5

Ø 42.5

Ø 42.5

62.5

66.9

75.7

75.7

В

104.9

156.8

186.9

188.9

63.5

67.9

75.7

SMC

В

123.6

155.6

157.6

В

91.4

121.9

153.9

155.9

В

87.4

117.6

149.6

151.6

В

93.9

122.1

154.1

156.1

Н

□28

□28

□28

□28

30

38.4

38.4

AC20D-B

AC30D-B

AC40D-B

33

AC40D-06-B

^{□27.8} *1 The dimension of C is the length when the filter regulator knob is unlocked.

Air Combination AC Series **Options/Attachments**

Options/Attachments/Part No.

								Part no.							
				For AC10-A	For AC20-B	For AC25-B	For AC30-B		For AC40-06-B	For AC50-B	For AC55-B	For AC60-B			
Section			Model	For AC10A-A		_			For AC40A-06-B			For AC60A-B			
ect						For AC25B-B					For AC55B-B	For AC60B-B			
S		Descript	ion					For AC40C-B		_	_	_			
				_	For AC20D-B	_		For AC40D-B		_	_	_			
	*	Round	Standard	G27-10-R1		G36-10-□01			G46-10-□01						
	gauge *1	type	0.02 to 0.2 MPa setting	G27-10-R1		G36-4-□01				G46-4-□01					
	gal	Round type (with colour	Standard	_		G36-10-□01-L				G46-10-□01-L					
	Pressure	zone)	0.02 to 0.2 MPa setting			G36-4-□01-L		G46-4-□01-L							
_ ا	SS	Square embedded	Standard	l			GC3-10AS	GC3P-010AS (Pressure gauge cover only)]							
Option	Pr	type *2	0.02 to 0.2 MPa setting	_					ressure gauge	7/4					
Ö	۱,		NPN output, Wiring bottom entry						25-M (Switch bo						
	10	ASSIIFA	NPN output, Wiring top entry	_		ISE35-R-25-MLA [ISE35-R-25-M (Switch body only)] *3									
		vitch	PNP output, Wiring bottom entry			ISE35-N-65-MLA [ISE35-N-65-M (Switch body only)] *3									
			PNP output, Wiring top entry				ISE35-R-65-MLA [ISE35-R-65-M (Switch body only)] *3								
		oat type	N.O.	_		AD3	-			AD48-A					
_		to drain *4	N.C.	AD17-A	AD27-A	AD3				AD47-A					
		oacer		Y100-A	Y200-A	Y30		Y400-A	Y500-A		Y600-A				
	S	oacer with	bracket	Y100T-A	Y200T-A	Y30		Y400T-A	Y500T-A		Y600T-A	_			
	C	heck valve	e *5 *6	_	AKM2000-□01-A	AKM3000	` '	AKM4000-(□02)-A	_	_	_	_			
	Ŀ		14 1 40		(□02)-A	1040	□02-A	□03-A	104014 50 4		104014.00.4				
	Pi	ressure sv	witch *o		IS10M-20-A Y210-□01-A	IS10N		IS10M-40-A	IS10M-50-A	Y610-□03-A	IS10M-60-A	702) A			
	T-	spacer *5	*6	Y110-M5-A	Y210-⊔01-A (□02)-A	Y310-(⊒01)-A ⊒02-A	Y410-(□02)-A	Y510-(□02)-A		Y610-([⊒03)-A ⊒04-A			
	\vdash				(⊔02)-A		_102-A	□03-A □02A	□03-A	(□04)-A	L	_04-A			
ŧ	Pi	essure re	lief		VHS20-□01A	VHS30	-□02A	U2A VHS40-□03A	VHS40-□06A	VHS50-□06A					
nei	3	port valve	*6	_	□02A		□03A		VH340-⊟00A	□10A	_	_			
Attachment	\vdash							□04A □02-A				1			
tta					□01-A		□02-A	E400-□03-A			E600-□06-A				
×	Pi	ping adap	oter *6	E100-M5-A	E200-□02-A	E300-		□04-A	E500-□06-A		□10-A				
					□03-A		□04-A	□06-A			□10 /\				
	H							□02-A				1			
	Pi	essure sv	witch with		□01-A	10.405	□02-A	IS10E-40□03-A							
	pi	ping adap	oter *6	_	IS10E-20□02-A IS10E-30□03-A		□04-A	_			_				
	ľ	i i Sample			□03-A □04-A		⊔04-A	□06-A							
		Cross spacer *6		Y14-M5-A	Y24-□01-A	Y34-[]01-A	Y44-□02-A	Y54-□03-A						
		ross spac	er ····	1 14-IVI5-A	□02-A	[□02-A	□03-A	□04-A	_		_			

^{*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 one O-ring and 2 mounting screws
 *3 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 Catalogue**. *4 Minimum 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.
- *5 For F.R.L. units, port sizes without () are standard specifications. *6 Separate spacers are required for modular unit.

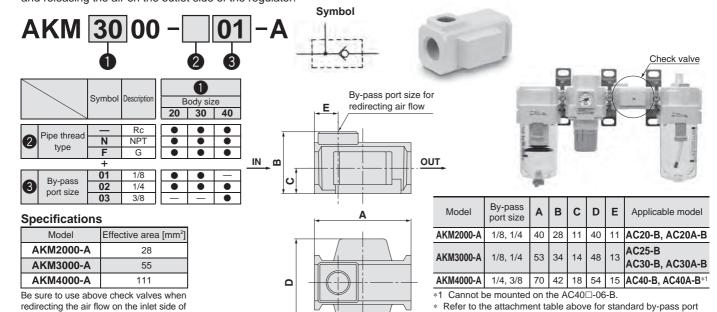
sizes applicable to the AC.

Check Valve: (K) 1/8, 1/4, 3/8

the lubricator. Threads for IN and OUT

ports are not machined.

A check valve with intermediate air release port can be easily installed to prevent a backflow of lubricant when redirecting the air flow and releasing the air on the outlet side of the regulator.



SMC

AC Series

Pressure Switch: (S)

A compact integrated pressure switch can be easily installed and facilitates the pressure detection of the line.



- Semi-standard: Select one each for a to c.
- Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order. Example) IS10M-30-6LP

				Symbol	Description	Body size					
						20	30	40	50	60	
		а	Set pressure	_	0.1 to 0.4 MPa	•	•	•	•	•	
	0	а	range	6*1	0.1 to 0.6 MPa	•	•	•	•		
	a			+							
_	nd		Lead wire	_	0.5 m		•	•	•	•	
2	staı	b	length	L	3 m			•	•		
			lengui	Z	5 m		•	•	•		
	Semi			+	_						
	S	С	Pressure unit of		MPa						
		C	the scale plate	P *2	MPa/psi dual scale		•	•	•		

*1 Set pressure range of 6P (L, Z) is 0.2 to 0.6 MPa (30 to 90 psi).



Fluid	Air
Ambient and fluid temperature	-5 to 60 °C (with no freezing)
Proof pressure	1.0 MPa
Maximum operating pressure	0.7 MPa
Set pressure range (when OFF)	0.1 to 0.4 MPa
Hysteresis	0.08 MPa or less

Switch Characteristics

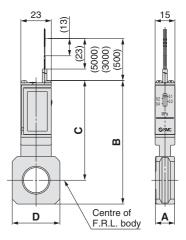
Contact point configuration	1a
Maximum contact point capacity	2 VA (AC), 2 W (DC)
Operating voltage: AC, DC	100 V or less
Maximum operating current	12 V to 24 V AC, DC: 50 mA 48 V AC, DC: 40 mA 100 V AC, DC: 20 mA

^{*} For detailed specifications on the IS10 series, refer to the IS10 series section of the SMC website: http://www.smc.eu

Symbol





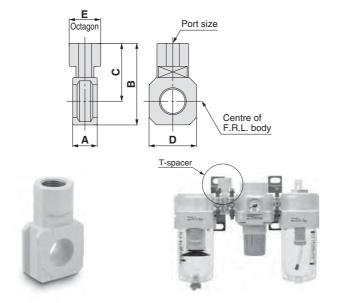


Model	Α	В	С	D	Applicable model
IS10M-20-A	10.6	74.2	64.4	28	AC20□-B
IS10M-30-A	12.6	84.5	70.5	30	AC25□-B, AC30□-B
IS10M-40-A	14.6	93.3	75.3	36	AC40□-B
IS10M-50-A	16.6	97.3	77.3	44	AC40□-06-B
IS10M-60-A	22	92.5	68.5	53	AC50□-B, AC55□-B, AC60□-B

^{*} Separate spacers are required for modular unit.

T-Spacer: (T) M5 x 0.8, 1/8, 1/4, 3/8, 1/2

Using a T-spacer facilitates the branching of air flow.



Model *1	Port size	Α	В	С	D	Ε	Applicable model
Y110-M5-A	M5 x 0.8	11.2	19	12	14	8	AC10-A, AC10B-A
Y210-□01-A	1/8	14.6	41.8	32	28	19	AC20-B, AC20B-B
Y210-□02-A	1/4	14.0	41.0	32	20	19	AC20C-B
Y310-□01-A	1/8	14.6	52.7	38.7	30	19	AC25-B, AC25B-B
Y310-□02-A	1/4	14.0				13	AC25C-B, AC30C-B
Y410-□02-A	1/4	18.6	62	44	36		AC40-B, AC40B-B
Y410-□03-A	3/8	10.0	02	44			AC40C-B
Y510-□02-A	1/4	18.6	66	46	44	24	AC40-06-B, AC40B-06-B
Y510-□03-A	3/8	10.0	00	40	‡	4	AC40C-06-B
Y610-□03-A	3/8	22	81	57	53	20	AC50-B, AC55-B, AC60-B,
Y610-□04-A	1/2	22	8.1	5/		30	AC50B-B, AC55B-B, AC60B-B

- *1 $\;\square$ in model numbers indicates a pipe thread type. No indication is necessary for Rc; however, indicate N for NPT, and F for G.
- Separate spacers are required for modular unit.
- * Refer to the attachment table on page 34 for standard port sizes when using with the AC.

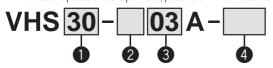
Caution on Mounting

If a T-spacer is used on the inlet side of the lubricator, lubricant may be mixed. Use the AKM series check valve to avoid such possibility.



Pressure Relief 3 Port Valve: (V)

With the use of a pressure relief 3 port valve, pressure left in the line can be easily exhausted.



- Semi-standard: Select one each for a to b.
- Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) VHS30-03A-RZ

				Symbol	Description	Body size 20 30 40 50				
					Rc			•		
2	Pi	oe thr	ead type	N*1	NPT					
				F*1	G		•	•	•	
	•									
				01	1/8	•	_	_	_	
				02	1/4		•	•	_	
3		Port	size	03	3/8		•	•	_	
9		1 011	3120	04	1/2		_	•	_	
				06	3/4		_	•	•	
				10	1		_	_	•	
			_	+						
	ard	а	Flow	_	Flow direction: Left to right			•	•	
	nda	а	direction	R	Flow direction: Right to left	•	•	•	•	
(4)	Semi-standard		_	+						
	ä	b	Pressure	_	Name plate in SI units: MPa			•	•	
	က္က	D	unit	7 *1	Name plate in imperial units: psi		•	•		

^{*1} For pipe thread type: NPT only.

Flow Rate Characteristics

- 10 11 11410 01141140101101100												
	Port s	size	Flow rate characteristics									
Model	IN. OUT	EXH	IN -	→ OUT		OUT → EXH						
	IIV, OUT		C(dm ³ /s·bar)	b	Cv	C(dm3/s·bar)	b	Cv				
VHS20	1/8	1/8	2.4	0.43	0.65	2.5	0.39	0.69				
VII320	1/4	1/0	3.3	0.40	0.88	3.1	0.51	0.84				
VHS30	1/4	1/4	6.4	0.45	1.7	6.2	0.38	1.7				
VII330	3/8	1/4	8.3	0.41	2.3	7.0	0.41	1.9				
	1/4		7.3	0.49	2.0	8.5	0.35	2.3				
VHS40	3/8	3/8	10.9	0.45	3.0	11.6	0.40	3.1				
	1/2		14.2	0.39	3.8	13.3	0.43	3.6				
VHS40-06	3/4	1/2	18.3	0.31	5.0	17.7	0.37	4.8				
VHS50	3/4	1/2	23.8	0.41	6.4	21.8	0.41	5.9				
V11330	1	1/2	31.9	0.33	8.6	23.5	0.44	6.4				

Pressure relief 3 port valve	
	Symbol 3 1
IN (Port size) P2 (Port size)	OUT
Key can be mounted when residual pressure is released.	E D C

Model	Standard specifications										
Model	P1	P ₂	Α	В	С	D	Е	F	G	Н	I
VHS20	1/8, 1/4	1/8	66.4	22.3	40	37.5	14	46.6	33.6	28	43
VHS30	1/4, 3/8	1/4	80.3	29.4	53	49	19	52	38	30	49
VHS40	1/4, 3/8, 1/2	3/8	104.9	38.5	70	63	22	58	44	36	63
VHS40-06	3/4	1/2	110.4	42	75	63	22	58	44	44	63
VHS50	3/4, 1	1/2	134.3	53	90	76	26	76	61	53	81

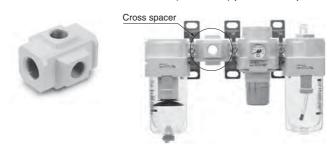
^{*} Use an air filter on the inlet side for operating protection.

Cross Spacer: M5 x 0.8, 1/8, 1/4, 3/8, 1/2

Pipings are possible in all 4 directions.

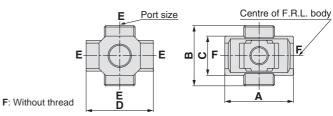
IN/OUT ports are not machined for threads.

Please contact SMC if threaded (machined) ports are required.



Caution on Mounting

- When mounting a cross spacer directly on the IN side of the lubricator, be sure to use the AKM series check valve between the lubricator and cross spacer.
- Factory mounting of a cross spacer on the AC model is available as a special order.



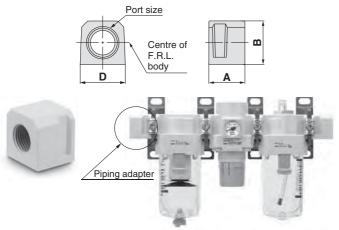
Model *1	E (Port size)	Α	В	С	D	Applicable model
Y14-M5-A	M5	23	16	14	25	AC10□-A
Y24-□01-A	1/8	40	40	22	40	AC20□-B
Y24-□02-A	1/4	4	4	22	4	AC20 - B
Y34-□01-A	1/8	49	43	28	48	AC25□-B. AC30□-B
Y34-□02-A	1/4	7	43	20	4	AC23B, AC30B
Y44-□02-A	1/4	60	48	36	54	AC40□-B
Y44-□03-A	3/8	60	40	30	54	AC4UL-D
Y54-□03-A	3/8	72	62	40	62	AC40□-06-B
Y54-□04-A	1/2		02	AC40		

- *1 ☐ in model numbers indicates a pipe thread type. No indication is necessary for Rc; however, indicate N for NPT, and F for G.
 - * If threaded IN/OUT ports are required, they are available as a special order. Please contact SMC.
 - * Two hexagon socket head plugs are included in the package.



Piping Adapter: M5 x 0.8, 1/8, 1/4, 3/8, 1/2, 3/4, 1

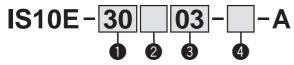
A piping adapter allows installation/removal of the component without removing the piping and thus makes maintenance easier.



Model *1	Port size	Α	В	D	Applicable model
E100-M5-A	M5 x 0.8	10	14	14	AC10□-A
E200-□01-A	1/8				
E200-□02-A	1/4	29.8	23.5	28	AC20□-B
E200-□03-A	3/8				
E300-□02-A	1/4				
E300-□03-A	3/8	31.8	30	30	AC25□-B, AC30□-B
E300-□04-A	1/2				
E400-□02-A	1/4				
E400-□03-A	3/8	31.8	36	36	AC40□-B
E400-□04-A	1/2	31.0	36	30	AC40□-B
E400-□06-A	3/4				
E500-□06-A	3/4	31.8	40	44	AC40□-06-B
E600-□06-A	3/4	35	48	53	AC50-B, AC55-B, AC60-B, AC50A-B, AC60A-B, AC50B-B,
E600-□10-A	1	33	40	33	AC55B-B, AC60B-B

- *1 ☐ in model numbers indicates a pipe thread type. No indication is necessary for Rc; however, indicate N for NPT, and F for G.
- * Separate spacers are required for modular unit.
- * Factory mounting of a piping adapter on the AC models is available as a special order

Pressure Switch with Piping Adapter



- Semi-standard: Select one each for a to d.
- Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) IS10E-30N03-6PRZ

	_	_		Symbol	Description	80 20	10 ody si 30	ze 40
		D:	46	— N*2	Rc NPT	•	•	•
2		Pipe	thread type	F*2	G			
				+	Ü		_	
				01	1/8	•		_
_				02	1/4	•	•	•
3		F	Port size	03	3/8	•	•	•
				04	1/2	_	•	•
				06	3/4	_	_	
				+				
		а	Set pressure	_	0.1 to 0.4 MPa	•	•	
		а	range	6*1	0.1 to 0.6 MPa			
				+				
	D G		Lead wire		0.5 m	•	•	
	daı	b	length	L	3 m	•	•	
4	tan		14119	Z	5 m			
0	i-S			+				
	Semi-standard	С	Pressure unit of	_	MPa	•	•	•
	0)	Ů	the scale plate	P *2	MPa/psi dual scale			
				+				
		d	Mounting	_	Right	•	•	•
		u	position	R	Left		•	

- *1 Set pressure range of 6P (L, R, Z) is 0.2 to 0.6 MPa (30 to 90 psi).
- *2 For pipe thread type: NPT only.

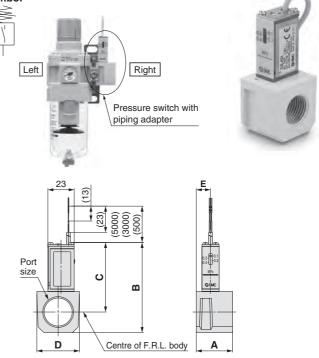
Specifications

opoomoanomo	
Fluid	Air
Ambient and fluid temperature	-5 to 60 °C (with no freezing)
Proof pressure	1.0 MPa
Maximum operating pressure	0.7 MPa
Set pressure range (when OFF)	0.1 to 0.4 MPa
Hysteresis	0.08 MPa or less

Switch Characteristics

SWILCH CHAIACLEHSLICS	
Contact point configuration	1a
Maximum contact point capacity	2 VA (AC), 2 W (DC)
Operating voltage: AC, DC	100 V or less
Maximum operating current	12 V to 24 V AC, DC: 50 mA 48 V AC, DC: 40 mA 100 V AC, DC: 20 mA





Model *1	Port size	Α	В	C	D	Е	Applicable model
IS10E-20□01-A	1/8						
IS10E-20□02-A	1/4	29.8	66.3	55.3	28	16	AC20□-B
IS10E-20□03-A	3/8						
IS10E-30□02-A	1/4						ACOF D
IS10E-30□03-A	3/8	31.8	72.8	58.8	30	13	AC25□-B, AC30□-B
IS10E-30□04-A	1/2						A030 🗆 - B
IS10E-40□02-A	1/4						
IS10E-40□03-A	3/8	31.8	78.8	60.8	37	12.5	*2
IS10E-40□04-A	1/2	31.0	10.0	00.0	31	12.5	AC40□-B
IS10E-40□06-A	3/4						

- *1 ☐ in the model numbers indicates a pipe thread type. No indication is necessary for Rc; however, indicate N for NPT, and F for G.
- *2 Cannot be mounted on the AC40□-06-B.
- * Separate spacers are required for modular unit.
- The pressure switch on the AC40□-06-B can be mounted by screwing IS10-01S into the piping adapter E500-□06-A-X501 (with top-face thread Rc 1/8). Products with a premounted switch are available as a special order. Please contact SMC regarding their availability.

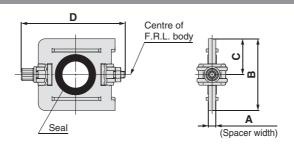


AB

AC Series

Accessories (Spacers/Brackets)

Spacer



Model	Α	В	С	D	Applicable model
Y100-A	6	17.9	9	35.4	AC10□-A
Y200-A	3.2	31.2	15.6	44.9	AC20□-B
Y300-A	4.2	43.4	21.7	57.9	AC25□-B, AC30□-B
Y400-A	5.2	53	26.5	68.5	AC40□-B
Y500-A	5.2	57	28.5	75.6	AC40□-06-B
Y600-A	6.2	67.6	33.8	92.5	AC50□-B, AC55□-B, AC60□-B

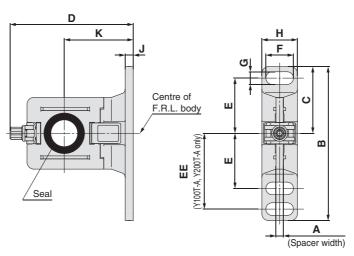


Y200-A Y400-A

Replacement Parts

Description	Material			Par	t no.		
Description	ivialeriai	Y100-A	Y200-A	Y300-A	Y400-A	Y500-A	Y600-A
Seal	HNBR (NBR) *1	Y120P-050AS *2	Y220P-050S	Y320P-050S	Y420P-050S	Y520P-050S	Y620P-050S

Spacer with Bracket



Model	Α	В	C	D	Е	EE	F	G	Η	7	K	Applicable model
Y100T-A	6	56	24.5	43.6	20	27	6.8	4.5	13	3	25	AC10□-A
Y200T-A	3.2	67	29	53.4	24	33	12	5.5	15.5	3.5	30	AC20□-B
Y300T-A	4.2	82	41	71.5	35	_	14	7	19	4	41	AC25□-B, AC30□-B
Y400T-A	5.2	96	48	86.1	40	_	18	9	26	5	50	AC40□-B
Y500T-A	5.2	96	48	89.6	40	_	18	9	26	5	50	AC40□-06-B
Y600T-A	6.2	120	60	118	50		20	11	31.2	6	70	AC50□-B, AC55□-B,
10001-A	0.2	120	00	110	50		20	- ' '	31.2	U	70	AC60□-B



Y200T-A Y400T-A

Replacement Parts

Description	Material			Part	no.		
Description	Material	Y100T-A	Y200T-A	Y300T-A	Y400T-A	Y500T-A	Y600T-A
Seal	HNBR (NBR) *1	Y120P-050AS *2	Y220P-050S	Y320P-050S	Y420P-050S	Y520P-050S	Y620P-050S

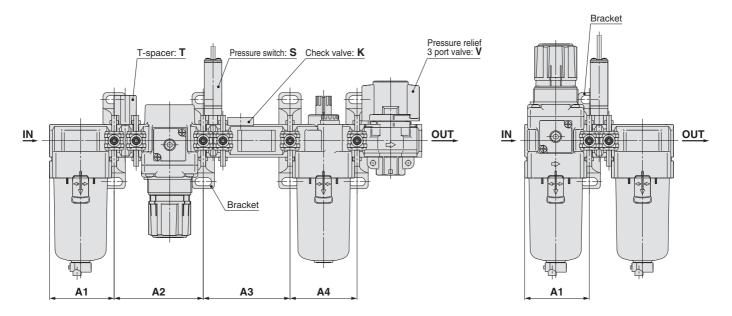


^{*1 ():} Size 10 *2 Assembly of 2 O-rings

^{*1 ():} Size 10 *2 Assembly of 2 O-rings

AC Series

Mounting Position for Spacer with Bracket



						r		·													Y		
Attachment		K		;	3	1	Γ		V			KS			KT			K	V			KST	
Model	A1	A2	A3	A1	A2	A1	A2	A1	A2	A3	A1	A2	A3	A1	A2	A3	A1	A2	A3	A4	A1	A2	A3
AC10-A	_	_	_	—	_	28	48.2	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
AC20-B	41.6	43.2	43.2	41.6	43.2	41.6	61	41.6	43.2	43.2	41.6	43.2	57	41.6	61	43.2	41.6	43.2	43.2	43.2	41.6	61	57
AC25-B	55.1	57.2	57.2	55.1	57.2	55.1	76	55.1	57.2	57.2	55.1	57.2	74	55.1	76	57.2	55.1	57.2	57.2	57.2	55.1	76	74
AC30-B	55.1	57.2	57.2	55.1	57.2	55.1	76	55.1	57.2	57.2	55.1	57.2	74	55.1	76	57.2	55.1	57.2	57.2	57.2	55.1	76	74
AC40-B	72.6	75.2	75.2	72.6	75.2	72.6	99	72.6	75.2	75.2	72.6	75.2	95	72.6	99	75.2	72.6	75.2	75.2	75.2	72.6	99	95
AC40-06-B	_	_	_	77.6	80.2	77.6	104	77.6	80.2	80.2	_	_	_	_	_	_	_	_	_	_	_		_
AC50-B	_	_	_	93.1	96.2	93.1	124	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
AC55-B	_	_	_	98.1	96.2	98.1	124	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
AC60-B	-	_	-	98.1	101.2	98.1	129	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_

Attachment		KS	SV			K ⁻	ΓV			KS	TV		S	T		SV			STV			TV	
Model	A1	A2	A3	A4	A1	A2	A3	A4	A1	A2	A3	A4	A1	A2	A1	A2	A3	A1	A2	A3	A1	A2	A3
AC10-A	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
AC20-B	41.6	43.2	57	43.2	41.6	61	43.2	43.2	41.6	61	57	43.2	41.6	61	41.6	43.2	57	41.6	61	57	41.6	61	43.2
AC25-B	55.1	57.2	74	57.2	55.1	76	57.2	57.2	55.1	76	74	57.2	55.1	76	55.1	57.2	74	55.1	76	74	55.1	76	57.2
AC30-B	55.1	57.2	74	57.2	55.1	76	57.2	57.2	55.1	76	74	57.2	55.1	76	55.1	57.2	74	55.1	76	74	55.1	76	57.2
AC40-B	72.6	75.2	95	75.2	72.6	99	75.2	75.2	72.6	99	95	75.2	72.6	99	72.6	75.2	95	72.6	99	95	72.6	99	75.2
AC40-06-B		_	_	_	_	_	_	_	_	_	_	_	77.6	104	77.6	80.2	102	77.6	104	102	77.6	104	80.2
AC50-B	_	_	_	_	_	_	_	_	_	_	_	_	93.1	124	93.1	189.3	124	93.1	124	124	93.1	124	96.2
AC55-B		_	_	_	_	_	_	_	_	_	_	_	98.1	124	_	_	_	_	_	_		_	_
AC60-B	_	_	_	_	_	_	_	_	_	_	_	_	98.1	129	_	_	_	_	_	_	_	_	_

Attachment	ŀ	(S	V		K	S		K۷			KSV		SV		
Model	A1	A2	A1	A1	A2	A1	A2	A1	A2	A3	A1	A2	A3	A1	A2	
AC20A-B	41.6	43.2	41.6	41.6	43.2	41.6	57	41.6	43.2	43.2	41.6	57	43.2	41.6	57	
AC30A-B	55.1	57.2	55.1	55.1	57.2	55.1	74	55.1	57.2	57.2	55.1	74	57.2	55.1	74	
AC40A-B	72.6	75.2	72.6	72.6	75.2	72.6	95	72.6	75.2	75.2	72.6	95	75.2	72.6	95	
AC40A-06-B	_	_	77.6	77.6	80.2	_	_	_	_	_	_	_	_	77.6	102	
AC50A-B	_		93.1	93.1	96.2	_	_	_	_	_	_	_		93.1	124	
AC60A-B	_	_	98.1	_	_	_	_	_	_	_	_	_	_	_	_	

Attachment	S	Т	'	/	V	1	S	٧	S	V1	Т	٧	T	V1	
Model	A1	A1	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	
AC10B-A	_	28	_	_	_	_	_	_	_	_	_	_	_		
AC20B-B	41.6	41.6	41.6	43.2	41.6	43.2	41.6	57	41.6	43.2	41.6	61	41.6	43.2	
AC25B-B	55.1	55.1	55.1	57.2	55.1	57.2	55.1	74	55.1	57.2	55.1	76	55.1	57.2	
AC30B-B	55.1	55.1	55.1	57.2	55.1	57.2	55.1	74	55.1	57.2	55.1	76	55.1	57.2	
AC40B-B	72.6	72.6	72.6	75.2	72.6	75.2	72.6	95	72.6	75.2	72.6	99	72.6	75.2	
AC40B-06-B	77.6	77.6	77.6	80.2	77.6	80.2	77.6	102	77.6	80.2	77.6	104	77.6	80.2	
AC50B-B	93.1	93.1	93.1	189.3	93.1	96.2	93.1	124	93.1	96.2	93.1	124	93.1	96.2	
AC55B-B	98.1	98.1	_		_	_	_	_	_	_	_	_	_	_	
AC60B-B	98.1	98.1		_			_		_	_			_	_	

Attachment		3	7	Γ		٧			V1			SV			SV1			TV			TV1	
Model	A1	A2	A1	A2	A1	A2	A3	A1	A2	A3	A1	A2	A3	A1	A2	A3	A1	A2	A3	A1	A2	A3
AC20C-B	41.6	43.2	41.6	43.2	41.6	43.2	43.2	41.6	43.2	43.2	41.6	43.2	57	41.6	43.2	43.2	41.6	43.2	61	41.6	43.2	43.2
AC25C-B	55.1	57.2	55.1	57.2	55.1	57.2	57.2	55.1	57.2	57.2	55.1	57.2	74	55.1	57.2	57.2	55.1	57.2	76	55.1	57.2	57.2
AC30C-B	55.1	57.2	55.1	57.2	55.1	57.2	57.2	55.1	57.2	57.2	55.1	57.2	74	55.1	57.2	57.2	55.1	57.2	76	55.1	57.2	57.2
AC40C-B	72.6	75.2	72.6	75.2	72.6	75.2	75.2	72.6	75.2	75.2	72.6	75.2	95	72.6	75.2	75.2	72.6	75.2	99	72.6	75.2	75.2
AC40C-06-B	77.6	80.2	77.6	80.2	77.6	80.2	80.2	77.6	80.2	80.2	77.6	80.2	102	77.6	80.2	80.2	77.6	80.2	104	77.6	80.2	80.2

	Attachment S		V		V1		S	٧	SV1	
Mode	el	A1	A1	A2	A1	A2	A1	A2	A1	A2
AC2	0D-B	41.6	41.6	43.2	41.6	43.2	41.6	57	41.6	43.2
AC3	0D-B	55.1	55.1	57.2	55.1	57.2	55.1	74	55.1	57.2
AC4	0D-B	72.6	72.6	75.2	72.6	75.2	72.6	95	72.6	75.2
AC40	D-06-B	77.6	77.6	80.2	77.6	80.2	77.6	102	77.6	80.2

- A1: Dimension from the end of the IN side to the centre of the mounting hole for the first bracket.

 A2: Mounting hole pitch between the first and the analysis are also as a side of the side of the
 - A2: Mounting hole pitch between the first and the second brackets.
 - A3: Mounting hole pitch between the second and the third brackets.
 - A4: Mounting hole pitch between the third and the fourth brackets.

Modular Type Air Filters AF/AFM/AFD Series

Air Filter AF Series	Model	Port size	Filtration μm	Options
	AF10-A	M5 x 0.8		
	AF20-A	1/8, 1/4		
Tel.	AF30-A	1/4, 3/8		Bracket (Except AF10-A)
	AF40-A	1/4, 3/8, 1/2	5	
	AF40-06-A	3/4		Float type auto drain
-	AF50-A	3/4, 1		
Pages 43 to 54	AF60-A	1		
Mist Separator AFM Series	AFM20-A	1/8, 1/4		
man.	AFM30-A	1/4, 3/8	0.3	Bracket
	AFM40-A	1/4, 3/8, 1/2	0.3	Float type auto drain
Pages 55 to 63	AFM40-06-A	3/4		
Micro Mist Separator AFD Series	AFD20-A	1/8, 1/4		
The same	AFD30-A	1/4, 3/8	0.01	Bracket
	AFD40-A	1/4, 3/8, 1/2	0.01	Float type auto drain
Pages 55 to 63	AFD40-06-A	3/4		

Air Filter

AF10-A to AF60-A

Symbol

Air Filter

Air Filter with Auto Drain









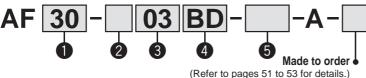


How to Order

AF10-A

A AF20-A

AF40-A



Option/Semi-standard: Select one each for a to f.

 Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) AF30-03BD-R-A

Example) AF30-036D-

	_	_						(
				Symbol	Description			Body	size		
						10	20	30	40	50	60
					Metric thread (M5)	•	_	_	_	_	
		D:	there and to make	_	Rc	_	•	•		•	•
2		Pipe	thread type	N*1	NPT	_	•	•		•	•
				F *2	G	_	•	•		•	•
				+							
				M5	M5 x 0.8		_	_	_	_	_
				01	1/8	_		_	_	_	_
				02	1/4	_				_	_
3		- 1	Port size	03	3/8	_	_			_	_
				04	1/2	_	_	_		_	_
				06	3/4	_	_	_	•	•	_
				10	1	_	_	_	_	•	
				+							
		а	Mounting	_	Without mounting option						
	_	а	wounting	B *3	With bracket	_					
4	Option			+							
4	g		Float type		Without auto drain			•			
		b	auto drain	C*4	N.C. (Normally closed) Drain port is closed when pressure is not applied.						
			auto diani	D *5	N.O. (Normally open) Drain port is open when pressure is not applied.	_	_				
		_		+							
				_	Polycarbonate bowl						
				2	Metal bowl				•		
		С	Bowl *6	6	Nylon bowl						
			DOWI	8	Metal bowl with level gauge	_	_				
				С	With bowl guard	_		<u></u> *7	*7	*7	*7
	~			6C	With bowl guard (Nylon bowl)	_		*8	*8	*8	*8
	larc			+							
	Semi-standard				With drain cock	•	•	•	•	•	•
6	sts	d	Drain port *9	J *10	Drain guide 1/8			_	_	_	_
	Ë	u	Diam port	_	Drain guide 1/4	_	_			•	
	Se			W *11	Drain cock with barb fitting	_	_				
				+							
		е	Flow direction	_	Flow direction: Left to right			•	•		
		Ŭ	1 15W GITCOUOTT	R	Flow direction: Right to left						
				+							
		f	Pressure unit		Name plate and caution plate for bowl in SI units: MPa	•	•	•	•	•	
				Z *12	Name plate and caution plate for bowl in imperial units: psi, °F	○*13	○*13	○*13	○*13	○*13	○*13

- *1 Drain guide is NPT 1/8 (applicable to the AF20-A) and NPT 1/4 (applicable to the AF30-A to AF60-A). The auto drain port comes with Ø 3/8" One-touch fitting (applicable to the AF30-A to AF60-A).
- *2 Drain guide is G 1/8 (applicable to the AF20-A) and G 1/4 (applicable to the AF30-A to AF60-A). The auto drain port comes with Ø 10 One-touch fitting (applicable to the AF30-A to AF60-A).
- *3 Option B is not assembled and supplied loose at the time of shipment. Assembly of a bracket and 2 mounting screws.
- *4 When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl. Releasing the residual condensate before ending operations for the day is recommended.
- *5 If the compressor is small (0.75 kW, discharge flow is less than 100 l/min [ANR]), air leakage from the drain cock may occur during start of operations. N.C. type is recommended.
- *6 Refer to chemical data on page 46 for chemical resistance of the bowl.
- *7 A bowl guard is provided as standard equipment (polycarbonate).
- *8 A bowl guard is provided as standard equipment (nylon).
- *9 The combination of float type auto drain: C and D is not available.
- *10 Without a valve function

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- *11 The combination of metal bowl: 2 and 8 is not available.
- *12 For pipe thread type: M5, NPT
- *13 O: For pipe thread type: M5, NPT only



Standard Specifications

Model	AF10-A	AF20-A	AF30-A	AF40-A	AF40-06-A	AF50-A	AF60-A	
Port size	M5 x 0.8	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	1	
Fluid			<u> </u>	Air				
Ambient and fluid temperature			-5 to 6	0 °C (with no fre	ezing)			
Proof pressure				1.5 MPa				
Maximum operating pressure				1.0 MPa				
Nominal filtration rating				5 μm				
Drain capacity [cm³]	2.5	8	25		4	5		
Bowl material				Polycarbonate				
Bowl guard	_	Semi-standard (Steel)	Standard (Polycarbonate)					
Weight [kg]	0.06	0.08	0.18	0.36	0.41	0.87	1.00	

Air Filter AF10-A to AF60-A Series

Option/Part No.

Optional specifications	Model								
Optional specifications	AF10-A	AF20-A	AF30-A	AF40-A	AF40-06-A	AF50-A	AF60-A		
Bracket assembly *1	_	AF22P-050AS	AF32P-050AS	AF42P-050AS	AF42P-070AS	AF52P	-050AS		

^{*1} Assembly of a bracket and 2 mounting screws

Bowl Assembly/Part No.

David	Drain					Mode	el			
Bowl material	discharge mechanism	Drain port	Other	C1SF-A	AF40-06-A	AF50-A	AF60-A			
		With drain cock	_	C1SF-A	C2SF-A	_	<u> </u>			
		With drain cock	With bowl guard	_	C2SF-C-A	C3SF-A		C4SF-A		
	Manual	Drain cock with barb fitting	With bowl guard	_	_	C3SF-W-A		C4SF	-W-A	
Polycarbonate		With drain guide	_	_	C2SF□-J-A	_	_			
Polycarbonale		(without valve function)	With bowl guard	_	C2SF□-CJ-A	C3SF□-J-A		C4SF	□-J-A	
	A 1	Normally aloned (N.C.)	_	AD17-A	AD27-A	_		A AF40-06-A AF50-A		
	(Auto drain)	Normally closed (N.C.)	With bowl guard	_	AD27-C-A	AD37□-A	AD47□-A			
	(Auto diairi)	Normally open (N.O.)	With bowl guard	_	_	AD38□-A	AD48□-A			
	Manual	With drain cock	_	C1SF-6-A	C2SF-6-A	_	_			
		With drain cock	With bowl guard	_	C2SF-6C-A	C3SF-6-A		C4SI	-6-A	
		Drain cock with barb fitting	With bowl guard	_	_	C3SF-6W-A		C4SF	-6W-A	
Nylon		With drain guide	_	_	C2SF□-6J-A	_		_	_	
INVIOIT		(without valve function)	With bowl guard	_	C2SF□-6CJ-A	C3SF□-6J-A		C4SF	⊒-6J-A	
	A	Normally closed (N.C.)	_	AD17-6-A	AD27-6-A	_		_	_	
	(Auto drain)	Normally closed (N.C.)	With bowl guard	_	AD27-6C-A	AD37□-6-A		AD47	□-6-A	
	(Auto diairi)	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		C4SI	2-A	
	Manual	With drain cock	With level gauge	_	_	C3LF-8-A		C4LF	-8-A	
	Iviariuai	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	
ivietai		Normally closed (N.C.)		AD17-2-A	AD27-2-A	AD37□-2-A		AD47	□-2-A	
	Automatic *1	INOTHIAITY CIUSEU (N.C.)	With level gauge		_	AD37□-8-A		AD47	□-8-A	
	(Auto drain)	Normally open (N.O.)	_	_	_	AD38□-2-A		AD48	□-2-A	
		inormally open (N.O.)	With level gauge	_	_	AD38□-8-A		AD48	□-8-A	

^{*1} Minimum 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). Bowl assembly for the AF20-A to AF60-A models comes with a bowl seal.

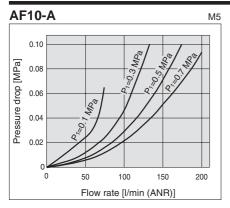
□ in bowl assembly part numbers indicates a pipe thread type (applicable tubing for auto drain).

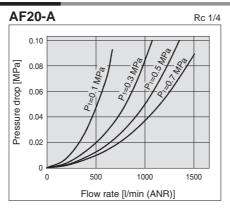
No indication is necessary for Rc thread; however, indicate N for NPT thread, and F for G thread. (For auto drain, —: Ø 10, N: Ø 3/8") Please consult with SMC separately for psi and °F unit display specifications.

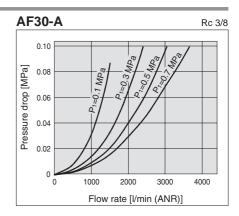


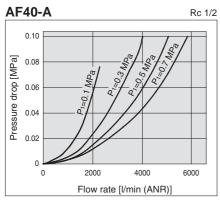
AF10-A to AF60-A Series

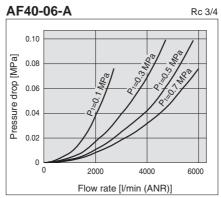
Flow Rate Characteristics (Representative values)

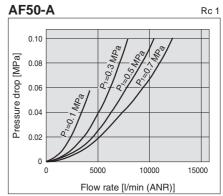


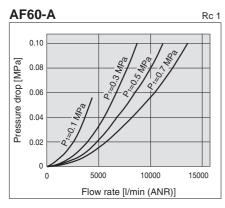












Be sure to read this before handling the products. Refer to the back cover for safety instructions. For F.R.L. units precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual", http://www.smc.eu

Design/Selection

Marning

 The standard bowl for the air filter, filter regulator, and lubricator, as well as the sight dome for the lubricator are made of polycarbonate. Do not use in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.

Effects of atmosphere of organic solvents and chemicals, and where these elements are likely to adhere to the equipment.

Chemical data for substances causing degradation (Reference)

			Mat	erial
Туре	Chemical name	Application examples	Polycar- bonate	Nylon
Acid	Hydrochloric acid Sulfuric acid, Phosphoric acid Chromic acid	Acid washing liquid for metals	Δ	×
Alkaline	Sodium hydroxide (Caustic soda) Potash Calcium hydroxide (Slack lime) Ammonia water Carbonate of soda	Degreasing of metals Industrial salts Water-soluble cutting oil	×	0
Inorganic salts	Sodium sulfide Potassium nitrate Sulfate of soda	_	×	Δ
Chlorine solvents	Carbon tetrachloride Chloroform Ethylene chloride Methylene chloride	Cleansing liquid for metals Printing ink Dilution	×	Δ
Aromatic series	Benzene Toluene Paint thinner	Coatings Dry cleaning	×	Δ
Ketone	Acetone Methyl ethyl ketone Cyclohexane	Photographic film Dry cleaning Textile industries	×	×
Alcohol	Ethyl alcohol IPA Methyl alcohol	Antifreeze Adhesives	Δ	×
Oil	Gasoline Kerosene	_	×	0
Ester	Phthalic acid dimethyl Phthalic acid diethyl Acetic acid	Synthetic oil Anti-rust additives	×	0
Ether	Methyl ether Ethyl ether	Brake oil additives	×	0
Amino	Methyl amino	Cutting oil Brake oil additives Rubber accelerator	×	×
Others	Thread-lock fluid Seawater Leak tester	-	×	Δ

When the above factors are present, or there is some doubt, use a metal bowl for safety.

Maintenance

Marning

1. Replace the element every 2 years or when the pressure drop becomes 0.1 MPa, whichever comes first, to prevent damage to the element.

Mounting/Adjustment

∧ Caution

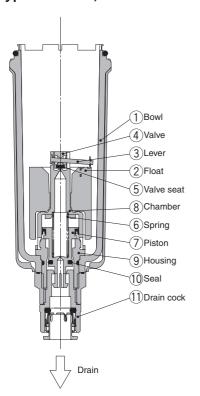
 When the bowl is installed on the air filter (AF30-A to AF60-A), install them so that the lock button lines up to the groove of the front (or the back) of the body to avoid drop or damage of the bowl.



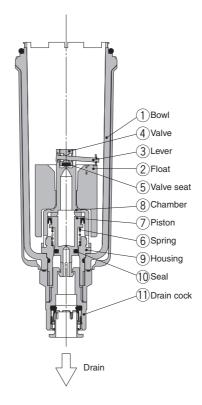
AF10-A to AF60-A Series

Working Principle: Float Type Auto Drain

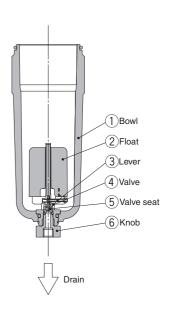
N.O. type: AD38-A, AD48-A



N.C. type: AD37-A, AD47-A



Compact auto drain N.C. type: AD17-A, AD27-A



When pressure inside the bowl is released:

When pressure is released from the bowl ①, the piston ⑦ is lowered by the spring ⑥.

The sealing action of the seal 10 is interrupted, and the outside air flows inside the bowl 1 through the housing hole 9 and the drain cock 11

Therefore, if there is an accumulation of condensate in the bowl 1, it will drain out through the drain cock.

When pressure is applied inside the bowl:

When pressure is 0.1 MPa or more, the force of the piston ⑦ surpasses the force of the spring ⑥, and the piston goes up.

This pushes seal 0 up so that it creates a seal, and the inside of the bowl 1, is shut off from the outside air.

If there is no accumulation of condensate in the bowl $\widehat{\ \ }$ at this time, the float $\widehat{\ \ }$ will be pulled down by its own weight, causing the valve $\widehat{\ \ }$, which is connected to the lever $\widehat{\ \ }$, to seal the valve seat $\widehat{\ \ }$).

When there is an accumulation of condensate in the bowl:

The float ② rises due to its own buoyancy and the seal at the valve seat ⑤ is interrupted.

This allows the pressure inside the bowl 1 to enter the chamber 8. The result is that the combined pressure inside the chamber 8 and the force of the spring 6 lowers the piston 7.

This causes the sealing action of the seal 10 to be interrupted, and the accumulated condensate in the bowl 1 drains out through the drain cock 11.

Turning the drain cock ① manually counter-clockwise lowers the piston ②, and causes the seal created by the seal ⑩ to be interrupted, thus allowing the condensate to drain out.

• When pressure inside the bowl is released:

Even when pressure inside the bowl 1 is released, spring 6 keeps the piston 7 in its upward position.

This keeps the seal created by the seal 1 in place; thus, the inside of the bowl 1 is shut off from the outside air.

Therefore, even if there is an accumulation of condensate in the bowl ①, it will not drain out.

When pressure is applied inside the bowl:

Even when pressure is applied inside the bowl ①, the combined force of the spring ⑥ and the pressure inside the bowl ① keeps the piston ⑦ in its upward position.

This maintains the seal created by the seal 1 in place; thus, the inside of the bowl 1 is shut off from the outside air.

If there is no accumulation of condensate in the bowl ① at this time, the float ② will be pulled down by its own weight, causing the valve ④, which is connected to the lever ③, to seal the valve seat ⑤.

When there is an accumulation of condensate in the bowl:

The float ② rises due to its own buoyancy and the seal at the valve seat ⑤ is interrupted. This allows the pressure inside the bowl ① to enter the chamber ⑧.

The result is that the pressure inside the chamber ® surpasses the force of the spring ® and pushes the piston ⑦ downward.

This causes the sealing action of the seal 0 to be interrupted and the accumulated condensate in the bowl 1 drains out through the drain cock 1. Turning the drain cock 1 manually counterclockwise lowers the piston 7, and causes the seal created by the seal 1 to be interrupted, thus allowing the condensate to drain out.

When pressure inside the bowl is released:

Even when pressure inside the bowl $\widehat{\ }$ is released, the weight of the float $\widehat{\ }$ causes the valve $\widehat{\ }$, which is connected to the lever $\widehat{\ }$, to seal the valve seat $\widehat{\ }$. As a result, the inside of the bowl $\widehat{\ }$ is shut off from the outside air.

Therefore, even if there is an accumulation of condensate in the bowl ①, it will not drain out.

When pressure is applied inside the howl.

Even when pressure is applied inside the bowl 1, the weight of the float 2 and the differential pressure that is applied to the valve 4 cause the valve 4 to seal the valve seat 5, and the outside air is shut off from the inside of the bowl 1.

When there is an accumulation of condensate in the bowl:

The float ② rises due to its own buoyancy and the seal at the valve seat ⑤ is interrupted.

The condensate inside the bowl ① drains out through the knob ⑥.

Turning the knob [®] manually counterclockwise lowers it and causes the sealing action of the valve seat [®] to be interrupted, which allows the condensate to drain out.



Operating State and Proper Use of Float Type Auto Drain

Auto drain	When pressure is not applied	When pressu	ure is applied	Minimum operating pressure
Auto diain	(After exhausting residual pressure)	Before drain accumulates	When drain accumulates	(Outlet pressure)
	Drain discharged (Open)	Drain not discharged (Close)	Drain discharged (Open)	
N.O. Normally open	Float Piston Orifice			0.1 MPa or more AF30-A to AF60-A
N.C. Normally closed	Drain not discharged (Close) Float Piston Orifice			0.1 MPa or more AF10-A to AF20-A 0.15 MPa or more AF30-A to AF60-A

Air Filter AF10-A to AF60-A Series

For both N.O. and N.C., the drain can be discharged manually by turning the drain cock to the "O" position. (Except for medium air pressure, AFF75B, AM□850, and free standing type)



Compressor	Proper Use When pressure is not applied (After exhausting residual pressure)	Cold climates		Recommended auto drain
0.75 kW or more	Drain not accumulated Do not want to accumulate drain generated at the inlet side when pressure is not applied.	Want to prevent troubles caused by freezing.	\Rightarrow	N.O. ^{Note)} Normally open
Less than 0.75 kW	Drain accumulated		\Rightarrow	N.C. Normally closed

Note) For N.O. (Normally open) type, the drain discharge passage is open when pressure is not applied. For this reason, the drain exhaust port is not closed completely in a compressor with a small supply amount (less than 0.75 kW) and the air will ceaselessly blow out.



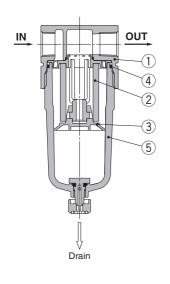
AF10-A to AF60-A Series

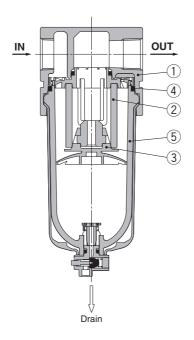
Construction

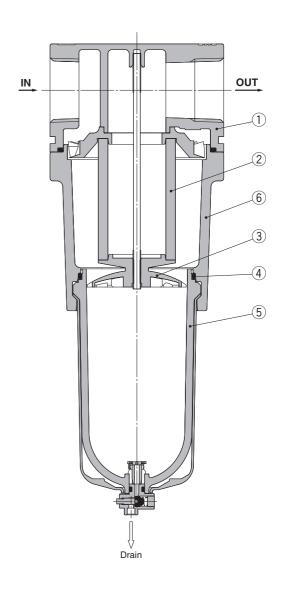
AF10-A/AF20-A

AF30-A to AF40-06-A

AF50-A/AF60-A







Component Parts

0011	ipononii i arto				
No.	Description	Material	Model	Colour	
1	Body	Zinc die-cast		White	
'	Бойу	Aluminium die-cast	AF20-A to AF60-A	write	
6	Housing	Aluminium die-cast	AF50-A/AF60-A	White	

Replacement Parts

No.	Description	Material	Part no.								
INO.	Description		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 *2	AF22P-040S	AF32P-040S	AF42F	P-040S	AF50P-040S	AF60P-040S		
4	Bowl seal	NBR	C1SFP-260S	C2SFP-260S	C32FP-260S	C42FP-260S					
5	Bowl assembly *1	Polycarbonate	C1SF-A	C2SF-A	C3SF-A	C4SF-A					

^{*1} Bowl seal is included for the AF20-A to AF60-A. Please contact SMC regarding the supply of bowl assembly with psi and °F unit specifications.

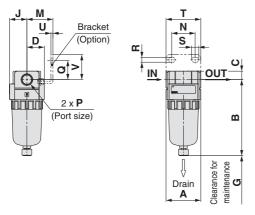


^{*2} The baffle material for the AF10-A (AF10P-040S) only is polyacetal.

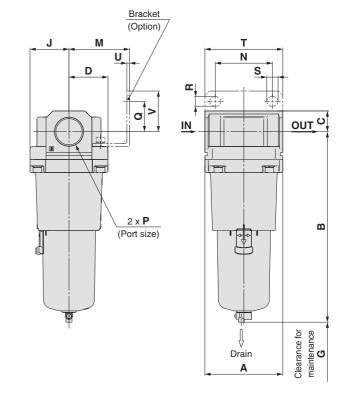
AC

Dimensions

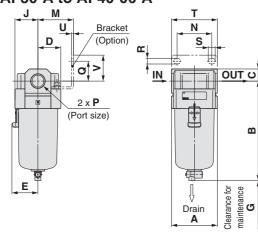




AF50-A/AF60-A



AF30-A to AF40-06-A



Applicable model	AF10-A	/AF20-A	AF2	20-A	AF30-A to AF60-A
Optional/Semi-standard specifications	With auto drain (N.C.)	Metal bowl	With drain guide	Metal bowl with drain guide	With auto drain (N.O./N.C.)
Dimensions	M5 x 0.8	8	Width across	Width across flats 14	N.O.: Black N.C.: Grey Thread type/Rc, G: Ø 10 One-touch fitting Thread type/NPT: Ø 3/8" One-touch fitting

Applicable model			AF	30-A to AF60-A			
Optional/Semi-standard specifications	Metal bowl	Metal bowl with drain guide	Metal bowl with level gauge	Metal bowl with level gauge, with drain guide	With drain guide	Drain cock with barb fitting	
Dimensions	B	Width across flats 17		Width across flats 17	Width across flats 17	Barb fitting applicable tubing: T0604	

											(Option	al spe	cifica	tions				Semi-	standar	d specific	cations	
Model		S	Standard	d speci	ificatio	ns					E	Bracke	t moui	nt			With auto drain	With barb fitting	With drain guide	Metal bowl	Metal bowl with drain guide	Metal bowl with level gauge	Metal bowl with level gauge, with drain guide
	Р	Α	В	С	D	Е	G	J	М	N	Q	R	S	Т	U	٧	В	В	В	В	В	В	В
AF10-A	M5 x 0.8	25	59.9	7	12.5	_	25	12.5	_	_	_	_	_	_	_	_	77.9	_	_	59.3	_	_	_
AF20-A	1/8, 1/4	40	87.6	9.8	20	_	25	20	30	27	22	5.4	8.4	40	2.3	28	104.9	_	91.4	87.4	93.9	_	_
AF30-A	1/4, 3/8	53	115.1	14	26.7	30	35	26.7	41	35	23	6.5	13	53	2.3	30	156.8	123.6	121.9	117.6	122.1	137.6	142.1
AF40-A	1/4, 3/8, 1/2	70	147.1	18	35.5	38.4	40	35.5	50	52	26	8.5	12.5	70	2.3	35	186.9	155.6	153.9	149.6	154.1	169.6	174.1
AF40-06-A	3/4	75	149.1	20	35.5	38.4	40	35.5	50	52	25	8.5	12.5	70	2.3	34	188.9	157.6	155.9	151.6	156.1	171.6	176.1
AF50-A	3/4, 1	90	220.1	24	45	_	30	45	70	66	35	11	13	90	3.2	47	259.9	228.6	226.9	222.6	227.1	242.6	247.1
AF60-A	1	95	234.1	24	47.5	_	30	47.5	70	66	35	11	13	90	3.2	47	273.9	242.6	240.9	236.6	241.1	256.6	261.1

AF10-A to AF60-A Air Filter Made to Order



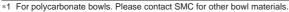
Please contact SMC for detailed dimensions, specifications and lead times.

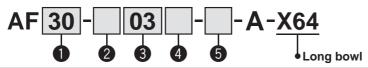
① Long Bowl

Drain capacity is greater than that of standard models.

Applicable Model/Drain Capacity

Model	AF10-A	AF20-A	AF30-A	AF40-A	AF40-06-A	AF50-A	AF60-A
Port size	M5	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	1
Drain capacity [cm ³]	9	19	43		8	8	
B dimension [mm] *1	81.6	108.6	137.1	167.2	169.2	240.2	254.2





- Semi-standard: Select one each for a to d.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) AF30-03B-2R-A-X64









	_	_						1			
				Symbol	Description			Body	size		
						10	20	30	40	50	60
					Metric thread (M5)	•	_	_	_	_	_
		Dina	thread type		Rc	_	•	•	•	•	•
2		ripe	tillead type	N *1	NPT	_	•	•	•	•	•
				F *2	G	_	•	•	•	•	•
				+							
				M5	M5	•	_	_	_	_	_
				01	1/8	_	•	_	_	_	_
		02		02	1/4	_	•	•	•	_	
3			Port size	03	3/8	_	_	•	•	_	_
	04 06		04	1/2	_	_	_	•	_ [_	
			06	3/4	_	_	_	•	•	_	
	10		10	1	_	_	_	_	•	•	
				+							
		Ontic	on (Mounting)	_	Without mounting option	•	•	•	•	•	•
4	Option (Mounting) B*3		B *3	With bracket	_	•	•	•	•	•	
				+							
				_	Polycarbonate bowl			•	•		•
				2	Metal bowl			•	•		
	a Bowl*4 6			Nylon bowl	•	•	•	•	•	•	
	C			With bowl guard	_	•	<u></u> *5	*5	*5	—* ⁵	
	6C		6C	With bowl guard (Nylon bowl)	_	•	—*6	—* ⁶	*6	—* ⁶	
	7			+							
	dar			_	With drain cock	•	•	•	•	•	•
6	b Drain port J*7 W*8		I *7	Drain guide 1/8	_	•	_	_	_	_	
9			J	Drain guide 1/4	_	_	•	•	•	•	
	serr	W*8		W *8	Drain cock with barb fitting (for Ø 6 x Ø 4 nylon tube)	_	_	•	•		•
	0)			+							
		c Flow direction R			Flow direction: Left to right	•	•	•	•	•	•
				R	Flow direction: Right to left	•	•	•	•	•	•
				+							
		Ч	Pressure unit	_	Name plate and caution plate for bowl in SI units: MPa	•	•	•	•	•	•
	d Pressure unit Z		Z *9	Name plate and caution plate for bowl in imperial units: psi, °F	○*10	○*10	○*10	○*10	○*10	○*10	

- *1 Drain guide is NPT 1/8 (applicable to the AF20-A) and NPT 1/4 (applicable to the AF30-A to AF60-A).
 - The auto drain port comes with Ø 3/8" One-touch fitting (applicable to the AF30-A to AF60-A).
- *2 Drain guide is G 1/8 (applicable to the AF20-A) and G 1/4 (applicable to the AF30-A to AF60-A).
- *3 Option B is not assembled and supplied loose at the time of shipment. Assembly of a bracket and 2 mounting screws.
- *4 Refer to chemical data on page 46 for chemical resistance of the bowl.
- *5 A bowl guard is provided as standard equipment (polycarbonate).
- *6 A bowl guard is provided as standard equipment (nylon).
- *7 Without a valve function
- $\ast 8\,$ The combination of metal bowl: 2 is not available.
- *9 For pipe thread type: NPT.
- *10 O: For pipe thread type: NPT only



AF20-A to AF60-A Air Filter **Made to Order**

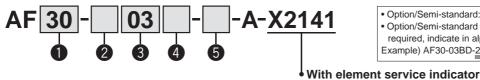
Please contact SMC for detailed dimensions, specifications and lead times.

2 With Element Service Indicator

Clogging status of elements can be checked visually.

Applicable Model

Model	AF20-A	AF30-A	AF40-A	AF40-06-A	AF50-A	AF60-A
Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	1



- Option/Semi-standard: Select one each for a to f.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.

Example) AF30-03BD-2R-A-X2141

A special body type is required to mount the element service indicator. It cannot be mounted on a standard body.

	\	\		Symbol	Description			O Rady size		
				Cymbol	Description	20	30	Body size	50	60
				—	Rc	•	•	•	•	
2		Pipe	thread type	N *1	NPT	•	•	•	•	•
			,,	F *2	G	•	•	•	•	•
				+						
				01	1/8	•		_		_
				02	1/4	•	•	•		_
3			Port size	03	3/8	_	•	•		_
9			1 011 3120	04	1/2			•		_
				06	3/4			•	•	_
	10				1	_			•	
				+				_		
		а	Mounting		Without mounting option	•	•	•	•	•
	L			B *3	With bracket		•	•	•	
4	Option			+				_		
	Ŏ		Float type		Without auto drain	•	•	•	•	
		b	auto drain	C*4 D*5	N.C. (Normally closed) Drain port is closed when pressure is not applied.	•	•	•	•	
					N.O. (Normally open) Drain port is open when pressure is not applied.	_	•		•	
				+	Polycarbonate bowl					
				2	Metal bowl					
		С	Bowl *6	6	Nylon bowl	•	•			
				8	Metal bowl with level gauge					
				+	Wetar bown with level gauge					
	5			_	With drain cock		•	•	•	
	nda			•	Drain guide 1/8	•				
6	star	d	Drain port *7	J *8	Drain guide 1/4		•	•	•	•
	Semi-standard			W *9	Drain cock with barb fitting (for Ø 6 x Ø 4 nylon tube)	_	•	•	•	•
	Ser			+						
		e Flow direction R		_	Flow direction: Left to right	•	•	•	•	•
				R	Flow direction: Right to left	•	•	•	•	•
	+									
		f	Pressure unit	_	Name plate and caution plate for bowl in SI units: MPa	•	•	•	•	•
Z*10 Name plate and caution plate for bowl in imperial units: psi, °F						O*11	○*11	O*11	○*11	○*11

- *1 Drain guide is NPT 1/8 (applicable to the AF20-A) and NPT 1/4 (applicable to the AF30-A to AF60-A). The auto drain port comes with Ø 3/8" One-touch fitting (applicable to the AF30-A to AF60-A).

 *2 Drain guide is G 1/8 (applicable to the AF20-A) and G 1/4 (applicable to the AF30-A to AF60-A).
- *3 Option B is not assembled and supplied loose at the time of shipment. Assembly of a bracket and 2 mounting screws.
- *4 When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl. Releasing the residual condensate before ending operations for the day is recommended.
- *5 If the compressor is small (0.75 kW, discharge flow is less than 100 l/min [ANR]), air leakage from the drain cock may occur during start of operations. N.C. type is recommended.
- *6 Refer to chemical data on page 46 for chemical resistance of the bowl.
- The combination of float type auto drain: C and D is not available.
- *8 Without a valve function
- *9 The combination of metal bowl: 2 and 8 is not available.
- *10 For pipe thread type: NPT.
- *11 O: For pipe thread type: NPT only



AF20-A to AF60-A Air Filter Made to Order



Please contact SMC for detailed dimensions, specifications and lead times.

③ Special Temperature Environment

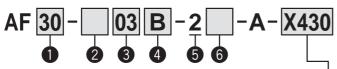
Special materials are used in the manufacturing of seals and resin parts to allow them to withstand various temperature conditions in cold or tropical (hot) climates.

Specifications

Made-to	order part no.	-X430	-X440
Environn	nent	Low temperature	High temperature
Ambient temperature [°C]		-30 to 60	-5 to 80
Fluid ten	perature [°C]	-5 to 60 (with	no freezing)
Material Rubber parts		Special NBR	FKM
Main parts		Metal (Aluminiu	m die-cast, etc.)

Applicable Model

Model	AF30-A	AF40-A	AF40-06-A	AF50-A	AF60-A
Port size	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	1



- Semi-standard: Select one each for a to c.
- Semi-standard symbol: When more than one specification is required, indicate in alphabetic order.

Example) AF30-03B-2R-A-X430

For high/low temperature

X430	Low temperature
X440	High temperature

	\	_		Symbol	Description		Body	size	
					·	30	40	50	60
	_			_	Rc	•	•	•	•
2	P		thread	N*1	NPT	•	•	•	•
		ιy	pe	F *2	G	•	•	•	•
				+					
				02	1/4	•	•	_	_
				03	3/8	•	•	_	_
3		Port	size	04	1/2	_	•	_	_
				06	3/4	_	•	•	_
				10	1	_	_	•	•
		Op	tion		Without mounting option	•	•	•	•
4	(1	Mou	ınting)	B *3	With bracket	•	•	•	
				+					
<u> </u>		Bo	wl*4	2	Metal bowl		•	•	•
		_		+					
		а	Drain		With drain cock	•	•	•	•
		_	port	J *5	Drain guide 1/4		•	•	
	ام			+					
	dar	b	Flow		Flow direction: Left to right	•	•	•	•
6	tan		direction	R	Flow direction: Right to left		•	•	
U	=								
	b Flow direction Pressure		_	Name plate and caution plate for bowl in SI units: MPa	•	•	•	•	
		C	unit	Z *6	Name plate and caution plate for bowl in imperial units: psi, °F	O*7	O*7	0*7	0*7

- *1 Drain guide is NPT 1/4.
- *2 Drain guide is G 1/4.
- *3 A bracket is not assembled and supplied loose at the time of shipment. Including 2 mounting screws
- *4 Only metal bowl 2 is available.
- *5 Without a valve function
- *6 For pipe thread type: NPT.
- *7 O: For pipe thread type: NPT only

4 High Pressure

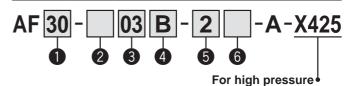
Strong materials are used in the manufacturing of air filters intended for high pressure operation.

Specifications

Made-to-order part no.	-X425
Proof pressure [MPa]	3.0
Maximum operating pressure [MPa]	2.0
Ambient and fluid temperature [°C]	-5 to 60 (with no freezing)

Applicable Model

Model	AF20-A	AF30-A	AF40-A	AF40-06-A	AF50-A	AF60-A
Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	1



- Semi-standard: Select one each for a to c.
- Semi-standard symbol: When more than one specification is required, indicate in alphabetic order.

Example) AF30-03B-2R-A-X425

	апр	ne)	AF30-03	D-ZK-A	-^425					
	_							0		
				Symbol	Description		В	ody si	ze	
						20	30	40	50	60
				_	Rc		•		•	
2	P		thread	N*1	NPT		•	•	•	•
	F *2			F *2	G		•	•	•	•
				+						
				01	1/8		_	_	_	
				02	1/4		•	•	_	_
<u>_</u>		Don	t size	03	3/8	_	•	•	_	_
3		POI	l Size	04	1/2	_	_	•	_	_
				06	3/4	_	_	•	•	_
				10	1	_	_	_	•	•
				+			•			
		Op	tion	—	Without mounting option		•	•	•	
4	(Μοι	ınting)	B *3	With bracket				•	
				+						
6		Ro	wl*4	2	Metal bowl		•	•	•	
U		Ъ	VVI	8	Metal bowl with level gauge	_	•	•	•	•
				+						
			Drain		With drain cock		•	•	•	•
		а	port	J *5	Drain guide 1/8		_	_	_	
			F		Drain guide 1/4		•		•	
	ard	_		+						
	lug	b	Flow		Flow direction: Left to right		•	•	•	
6	-sta	~	direction	R	Flow direction: Right to left		•		•	
	Semi-standard			+						
	Š		Pressure	_	Name plate and caution plate for bowl in SI units: MPa	•	•	•	•	•
	c ressure		Z *6	Name plate and caution plate for bowl in imperial units: psi, °F	0*7	0*7	0*7	0*7	0*7	

- *1 Drain guide is NPT 1/8 (applicable to the AF20-A) and NPT 1/4 (applicable to the AF30-A to AF60-A).
- *2 Drain guide is \acute{G} 1/8 (applicable to the AF20-A) and G 1/4 (applicable to the AF30-A to AF60-A).
- *3 A bracket is not assembled and supplied loose at the time of shipment. Including 2 mounting screws
- *4 Only metal bowl 2 and 8 are available.
- *5 Without a valve function
- *6 For pipe thread type: NPT.
- *7 O: For pipe thread type: NPT only



A





5 Clean Series

For details, refer to the Clean Series/Low Particle Generation section of the Web Catalogue.



Please contact SMC if a product with pressure gauge is desired.

• Clean series

6 Copper, Fluorine and Silicone-free + Low Particle Generation

For details, refer to the Clean Series/Low Particle Generation section of the Web Catalogue.

Standard model no.

Copper, fluorine and silicone-free + Low particle generation

Mist Separator

AFM20-A to AFM40-A Micro Mist Separator

AFD20-A to AFD40-A Micro Mist Separator

• AFM Series Nominal filtration rating: 0.3 μ m

• AFD Series Nominal filtration rating: 0.01 μm

How to Order

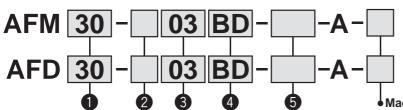






AFM20-A

AFD40-A



Option/Semi-standard: Select one each for a to f.
 Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) AFM30-03BD-R-A

Made to order

(Refer to pages 61 and 62 for details.)

					(ixeler to pages o		,	
	\						0	
				Symbol	Description		Body size	
						20	30	40
				_	Rc	•	•	•
2		Pipe	thread type	N*1	NPT	•	•	•
		·	,,	F *2	G	•	•	•
				+			1	
				01	1/8	•	_	_
				02	1/4	•	•	•
3		1	Port size	03	3/8	_	•	•
				04	1/2	_	_	•
				06	3/4	_	_	•
				+				
		а	Mounting	_	Without mounting option	•	•	•
	_	а	Wounting	B *3	With bracket	•	•	•
4	Option			+				
	Q		Float type		Without auto drain	•	•	•
		b	auto drain	C*4	N.C. (Normally closed) Drain port is closed when pressure is not applied.	•	•	•
				D *5	N.O. (Normally open) Drain port is open when pressure is not applied.		•	•
				+	Debendance to be and			
				_	Polycarbonate bowl	•	•	•
				2	Metal bowl	•	•	
		С	Bowl *6	6	Nylon bowl	_	•	•
				8	Metal bowl with level gauge	_	*7	*7
				C 6C	With bowl guard	•	*8	*8
	0			+	With bowl guard (Nylon bowl)	•		
	Semi-standard				With drain cock	•	•	•
6	tan				Drain guide 1/8			
•	Ji-S	d	Drain port *12	J *9	Drain guide 1/4		•	•
	Sen			W *13	Drain cock with barb fitting (for Ø 6 x Ø 4 nylon tube)	_	•	•
				+	Brain cook with barb fitting (for \$0 x \$0 4 hylon tabe)			
				_	Flow direction: Left to right	•	•	•
		е	Flow direction	R	Flow direction: Right to left	•	•	•
				+	5	<u> </u>		
		£	Droopies init	_	Name plate and caution plate for bowl in SI units: MPa	•	•	•
		f	Pressure unit	Z *10	Name plate and caution plate for bowl in imperial units: psi, °F	○*11	○*11	○*11
								,

^{*1} Drain guide is NPT 1/8 (applicable to the AFM20-A, AFD20-A) and NPT 1/4 (applicable to the AFM30-A/40-A, AFD30-A/40-A). The auto drain port comes with Ø 3/8" One-touch fitting (applicable to the AFM30-A/40-A, AFD30-A/40-A).

*2 Drain guide is G 1/8 (applicable to the AFM20-A, AFD20-A) and G 1/4 (applicable to the AFM30-A/40-A, AFD30-A/40-A).

*3 A bracket is not assembled and supplied loose at the time of shipment. Including 2 mounting screws

*5 If the compressor is small (0.75 kW, discharge flow is less than 100 l/min [ANR]), air leakage from the drain cock may occur during start of operations. N.C. type is recommended.

*6 Refer to chemical data on page 58 for chemical resistance of the bowl.

- *7 A bowl guard is provided as standard equipment (polycarbonate).
- *8 A bowl guard is provided as standard equipment (nylon).
- *9 Without a valve function
- *10 For pipe thread type: NPT.
- *11 O: For pipe thread type: NPT only
- *12 The combination of float type auto drain: C and D is not available.
- *13 The combination of metal bowl: 2 and 8 is not available.

^{*4} When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl. Releasing the residual condensate before ending operations for the day is recommended.

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

Standard Specifications

Model		AFM20-A AFD20-A	AFM30-A AFD30-A	AFM40-A AFD40-A	AFM40-06-A AFD40-06-A		
Port size		1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4		
Fluid			A	ir			
Ambient and fluid temperature	9		-5 to 60 °C (wi	th no freezing)			
Proof pressure			1.5 [MРа			
Maximum operating pressure			1.0 l	MРа			
Minimum operating pressure			0.05	MPa			
Nominal filtration rating	AFM20-A to AFM40-06-A	0.3 μm (99.9 % filtered particle size)					
Nominal intration rating	AFD20-A to AFD40-06-A		0.01 μm (99.9 % fil	tered particle size)			
Outlet side oil mist	AFM20-A to AFM40-06-A	- 3					
concentration	AFD20-A to AFD40-06-A	Max. 0.1 mg/m³ (ANR) (Before saturated with oil 0.01 mg/m³ (ANR) or less ≈ 0.008 ppm) *2 *3					
Rated flow [I/min (ANR)] *1	AFM20-A to AFM40-06-A	200	450	11	00		
Rated flow [i/iiiii (ANK)]	AFD20-A to AFD40-06-A	120	240	600			
Drain capacity [cm³]		8 25 45					
Bowl material		Polycarbonate					
Bowl guard	·	Semi-standard (Steel)	St	Standard (Polycarbonate)			
Weight [kg]		0.09	0.19	0.38	0.43		

^{*1} Conditions: Inlet pressure: 0.7 MPa; The rated flow varies depending on the inlet pressure. Keep the air flow within the rated flow to prevent an outflow of lubricant to the outlet side.

Options/Part No.

optionor art itor									
			Model						
Optional specifications	AFM20-A AFD20-A	AFM30-A AFD30-A	AFM40-A AFD40-A	AFM40-06-A AFD40-06-A					
Bracket assembly *1	AF22P-050AS	AF32P-050AS	AF42P-050AS	AF42P-070AS					
Float type auto drain *2 *3	AD27-A	AD37-A	AD4	17-A					
Float type auto uralli	N.O.	_	AD38-A	AD4	18-A				

^{*1} Assembly of a bracket and 2 mounting screws

Bowl Assembly/Part No.

Bowl	Drain				Mod	del		
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	C4SF-A		
	Manual	Drain cock with barb fitting	With bowl guard	_	C3SF-W-A	C4SF-W-A		
Polycarbonate		With drain guide	_	C2SF□-J-A	_	-	_	
Folycalbollate		(without valve function)	With bowl guard	C2SF□-CJ-A	C3SF□-J-A	C4SF	□-J-A	
	Automatic *1	Normally closed (N.C.)	_	AD27-A	_	-	_	
	(Auto drain)	Normally closed (N.C.)	With bowl guard	AD27-C-A	AD37□-A	AD4	7□-A	
	(Auto diairi)	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	Drain cock with barb fitting	With bowl guard	_	C3SF-6W-A	C4SF	-6W-A	
Nylon		With drain guide	_	C2SF□-6J-A	_	-	_	
INVIOL		(without valve function)	With bowl guard	C2SF□-6CJ-A	C3SF□-6J-A	C4SF	□-6J-A	
	Automatic *1	Normally closed (N.C.)	_	AD27-6-A	_	-	_	
	(Auto drain)	TNOTTHAILY Closed (TN.C.)	With bowl guard	AD27-6C-A	AD37□-6-A	AD47	′□-6-A	
	(Auto diairi)	Normally open (N.O.)	With bowl guard	_	AD38□-6-A	AD48	□-6-A	
		With drain cock	_	C2SF-2-A	C3SF-2-A	C4S	F-2-A	
	Manual		With level gauge	_	C3LF-8-A		F-8-A	
	Ivialiuai	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	
ivictal		Normally closed (N.C.)	_	AD27-2-A	AD37□-2-A	AD47	′□-2-A	
	Automatic *1	Tromainy Glosca (Tr.C.)	With level gauge	_	AD37□-8-A		′□-8-A	
	(Auto drain)	Normally open (N.O.)	_	_	AD38□-2-A	AD48	□-2-A	
		rvormany open (iv.o.)	With level gauge	_	AD38□-8-A	AD48	□-8-A	

^{*1} Minimum 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). Bowl assembly for the AFM20-A to AFM40-06-A, AFD20-A to AFD40-06-A models comes with a bowl seal.



^{*2} When the compressor oil mist discharge concentration is 30 mg/m³ (ANR).

^{*3} Bowl seal and other O-rings are slightly lubricated.

^{*2} Minimum 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.

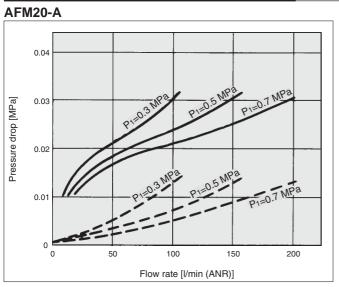
^{*3} Please consult with SMC for details on drain piping to fit NPT or G port sizes.

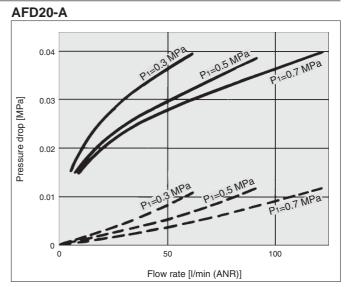
[🗆] in bowl assembly part numbers indicates a pipe thread type (applicable tubing for auto drain). No indication is necessary for Rc thread; however, indicate N for NPT thread, and F for G thread. (For auto drain, —: Ø 10, N: Ø 3/8")
Please consult with SMC separately for psi and °F unit display specifications.

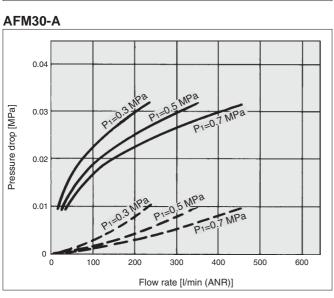
AFM20-A to AFM40-A Series AFD20-A to AFD40-A Series

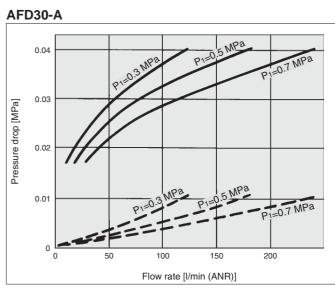
Flow Rate Characteristics (Representative values)

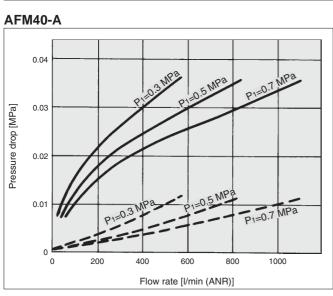
When saturated with oil Initial state

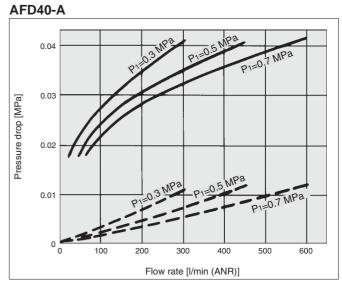












Mist Separator AFM20-A to AFM40-A Series Micro Mist Separator AFD20-A to AFD40-A Series

Specific Product Precautions

I Be sure to read this before handling the products. Refer to the back cover for safety instructions. For F.R.L. units I precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual", http://www.smc.eu

Design/Selection

⚠ Warning

1. The standard bowl for the air filter, filter regulator, and lubricator, as well as the sight dome for the lubricator are made of polycarbonate. Do not use in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.

Effects of atmosphere of organic solvents and chemicals, and where these elements are likely to adhere to the equipment. Chemical data for substances causing degradation (Reference)

			Mate	erial
Туре	Chemical name	Application examples	Polycar- bonate	Nylon
Acid	Hydrochloric acid Sulfuric acid, Phosphoric acid Chromic acid	Acid washing liquid for metals	Δ	×
Alkaline	Sodium hydroxide (Caustic soda) Potash Calcium hydroxide (Slack lime) Ammonia water Carbonate of soda	Degreasing of metals Industrial salts Water-soluble cutting oil	×	0
Inorganic salts	Sodium sulfide Potassium nitrate Sulfate of soda	_	×	Δ
Chlorine solvents	Carbon tetrachloride Chloroform Ethylene chloride Methylene chloride	Cleansing liquid for metals Printing ink Dilution	×	Δ
Aromatic series	Benzene Toluene Paint thinner	Coatings Dry cleaning	×	Δ
Ketone	Acetone Methyl ethyl ketone Cyclohexane	Photographic film Dry cleaning Textile industries	×	×
Alcohol	Ethyl alcohol IPA Methyl alcohol	Antifreeze Adhesives	Δ	×
Oil	Gasoline Kerosene	_	×	0
Ester	Phthalic acid dimethyl Phthalic acid diethyl Acetic acid	Synthetic oil Anti-rust additives	×	0
Ether	Methyl ether Ethyl ether	Brake oil additives	×	0
Amino	Methyl amino	Cutting oil Brake oil additives Rubber accelerator	×	×
Others	Thread-lock fluid Seawater Leak tester	_	×	Δ

When the above factors are present, or there is some doubt, use a metal bowl for safety

Air Supply

∕!\ Caution

- 1. Install an air filter (AF series) as a pre-filter on the inlet side of the mist separator to prevent premature clogging.
- 2. Install a mist separator (AFM series) as a pre-filter on the inlet side of the micro mist separator to prevent premature clogging.
- 3. Do not install on the inlet side of the dryer as this can cause premature clogging of the element.

Maintenance

🛝 Warning

1. Replace the element every 2 years or when the pressure drop becomes 0.1 MPa, whichever comes first, to prevent damage to the element.

Mounting/Adjustment

∖ Caution

1. When the bowl is installed on the mist separator (AFM30-A/AFM40-A), or micro mist separator (AFD30-A/AFD40-A), install them so that the lock button lines up to the groove of the front (or the back) of the body to avoid drop or damage of the bowl.



Design

∕ Caution

1. Design the system so that the mist separator is installed in a pulsation-free location. The difference between internal and external pressure inside the element should be kept within 0.1 MPa, as exceeding this value could cause damage.

Selection

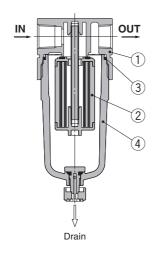
∕!\ Caution

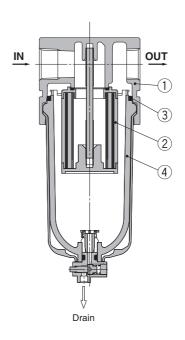
- 1. Do not allow air flow that exceeds the rated flow. If the air flow is allowed outside the range of the rated flow even momentarily, drainage and lubricant may splash at the outlet side or cause damage to the component.
- 2. Do not use in a low pressure application (such as a blower). An F.R.L. unit has its own minimum operating pressure depending on the equipment and is designed specifically to function with compressed air. If used below the minimum operating pressure, a loss of performance and malfunction can occur. Please contact SMC if an application under such conditions cannot be avoided.

AFM20-A to AFM40-A Series AFD20-A to AFD40-A Series

Construction

AFM20-A AFD20-A AFM30-A to AFM40-06-A AFD30-A to AFD40-06-A





Component Parts

No.	Description	Material	Model	Colour
1	Body	Aluminium die-cast	AFM20-A to AFM40-06-A AFD20-A to AFD40-06-A	White

Replacement Parts

59

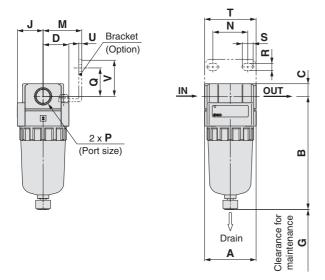
	No. Description			Part no.						
No.			Material	AFM20-A AFD20-A	AFM30-A AFD30-A	AFM40-A AFD40-A	AFM40-06-A AFD40-06-A			
			AFM20 to 40 —		AFM30P-060AS	AFM40F	P-060AS			
2	Element assembly	AFD20 to 40	_	AFD20P-060AS	AFD30P-060AS	AFD40F	P-060AS			
3	3 Bowl seal		NBR	C2SFP-260S	C32FP-260S	C42FF	P-260S			
4	4 Bowl assembly *1		Polycarbonate	C2SF-A	C3SF-A	C45	SF-A			

^{*1} Bowl seal is included. Please contact SMC regarding the supply of bowl assembly with psi and °F unit display specifications.

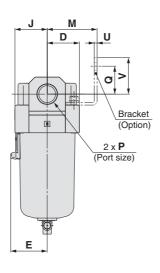
Mist Separator AFM20-A to AFM40-A Series Micro Mist Separator AFD20-A to AFD40-A Series

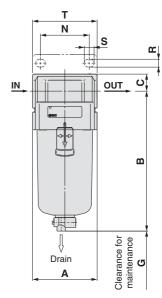
Dimensions

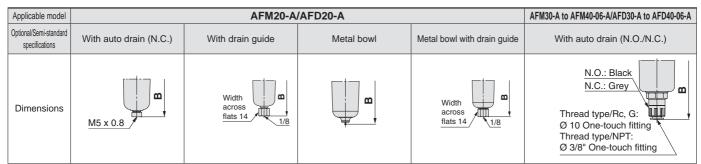
AFM20-A AFD20-A



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







Applicable model		AFM30-A to AFM40-06-A/AFD30-A to AFD40-06-A										
Optional/Semi-standard specifications	Metal bowl	Metal bowl with drain guide	Metal bowl with level gauge	Metal bowl with level gauge, with drain guide	With drain guide	Drain cock with barb fitting						
Dimensions	a	Width across flats 17	a v	Width across flats 17	Width across flats 17	Barb fitting applicable tubing:						

	Standard specifications									Optio	onal spe	cificatio	ns				
Model	otandard specifications							Bracket mount						With auto drain			
	Р	Α	В	С	D	Е	G	J	M	N	Q	R	S	Т	U	٧	В
AFM20-A/AFD20-A	1/8, 1/4	40	87.6	9.8	20	_	40	20	30	27	22	5.4	8.4	40	2.3	28	104.9
AFM30-A/AFD30-A	1/4, 3/8	53	115.1	14	26.7	30	50	26.7	41	35	23	6.5	13	53	2.3	30	156.8
AFM40-A/AFD40-A	1/4, 3/8, 1/2	70	147.1	18	35.5	38.4	75	35.5	50	52	26	8.5	12.5	70	2.3	35	186.9
AFM40-06-A/AFD40-06-A	3/4	75	149.1	20	35.5	38.4	75	35.5	50	52	25	8.5	12.5	70	2.3	34	188.9

	Semi-standard specifications									
Model	With barb fitting With drain gu		Metal bowl	Metal bowl with drain guide	Metal bowl with level gauge	Metal bowl with level gauge, with drain guide				
	В	В	В	В	В	В				
AFM20-A/AFD20-A	_	91.4	87.4	93.9	_	_				
AFM30-A/AFD30-A	123.6	121.9	117.6	122.1	137.6	142.1				
AFM40-A/AFD40-A	155.6	153.9	149.6	154.1	169.6	174.1				
AFM40-06-A/AFD40-06-A	157.6	155.9	151.6	156.1	171.6	176.1				

AFM20-A to AFM40-06-A Mist Separator AFD20-A to AFD40-06-A Micro Mist Separator

Made to Order

Please contact SMC for detailed dimensions, specifications and lead times.

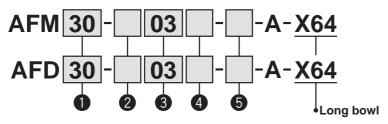
① Long Bowl

Drain capacity is greater than that of standard models.

Applicable Model/Drain Capacity

Model	AFM20-A, AFD20-A	AFM30-A, AFD30-A	AFM40-A, AFD40-A	AFM40-06-A, AFD40-06-A		
Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4		
Drain capacity [cm³]	19	43		88		
B dimension [mm]*1	108.6	137.1	167.2	169.2		

*1 For polycarbonate bowls. Please contact SMC for other bowl materials.



AFM20-A AFD20-A AFM30 to 40-06-A AFD30 to 40-06-A





- Semi-standard: Select one each for a to d.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order. Example) AFM30-03B-2R-A-X64

	Symbol		0	Description .	0			
			Symbol	Description	20	Body size	40	
						20	30	40
		Pipe thread type			Rc	•	•	•
2				N *1	NPT	•	•	•
			F *2	G	•	•	•	
				+				
				01	1/8	•	_	
	Port size		02	1/4	•	•	•	
3			03	3/8	_	•	•	
			04	1/2		_	•	
			06	3/4	_	_	•	
				+				
	Option (Mounting)		on (Mounting)		Without mounting option	•	•	•
			B *3	With bracket	•	•	•	
				+				
		а	Bowl*4	_	Polycarbonate bowl	•	•	•
				2	Metal bowl	•	•	•
				6	Nylon bowl	•	•	•
				С	With bowl guard	•	*5	*5
				6C	With bowl guard (Nylon bowl)	•	*6	*6
	0	+						
	dar	b	Drain port	_	With drain cock	•	•	•
6	tan			J *7	Drain guide 1/8	•	_	
9	i-S				Drain guide 1/4	_	•	•
	Semi-standard			W *8	Drain cock with barb fitting (for Ø 6 x Ø 4 nylon tube)	_	•	•
	0)	+						
		С	Flow direction	_	Flow direction: Left to right	•	•	•
				R	Flow direction: Right to left	•	•	•
				+				
		d Pressure unit	Dressure unit	_	Name plate and caution plate for bowl in SI units: MPa	•	•	•
			Z *9	Name plate and caution plate for bowl in imperial units: psi, °F	○*10	○*10	○*10	

- *1 Drain guide is NPT 1/8 (applicable to the AFM20-A, AFD20-A) and NPT 1/4 (applicable to the AFM30-A to AFM40-06-A, AFD30-A to AFD40-06-A).
- *2 Drain guide is G 1/8 (applicable to the AFM20-A, AFD20-A) and G 1/4 (applicable to the AFM30-A to AFM40-06-A, AFD30-A to AFD40-06-A).
- *3 A bracket is not assembled and supplied loose at the time of shipment. Including 2 mounting screws.
- *4 Refer to chemical data on page 58 for chemical resistance of the bowl.
- *5 A bowl guard is provided as standard equipment (polycarbonate).
- *6 A bowl guard is provided as standard equipment (nylon).
- *7 Without a valve function
- *8 The combination of metal bowl: 2 is not available.
- *9 For pipe thread type: NPT
- *10 O: For pipe thread type: NPT only



AFM20-A to AFM40-06-A Mist Separator AFD20-A to AFD40-06-A Micro Mist Separator

Made to Order

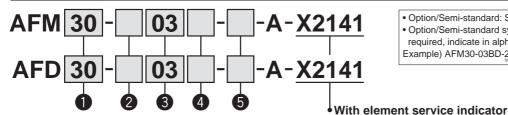
Please contact SMC for detailed dimensions, specifications and lead times.

2 With Element Service Indicator

Clogging status of elements can be checked visually.

Applicable Model

Model	AFM20-A, AFD20-A	AFM30-A, AFD30-A	AFM40-A, AFD40-A	AFM40-06-A, AFD40-06-A
Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4



- Option/Semi-standard: Select one each for a to f.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
- Example) AFM30-03BD-2R-A-X2141

A special body type is required to mount the element service indicator. It cannot be mounted on a standard body.

\						0	
		Symbol Description		Description		Body size	
					20	30	40
Pipe thread type		_	Rc	•	•	•	
	Pipe	thread type	N*1	NPT	•	•	•
			F *2	G	•	•	•
			+				
			01	1/8	•	_	_
			02	1/4	•	•	•
	I	Port size	03	3/8	_	•	•
			04	1/2	_	_	•
			06	3/4			•
			+				
	а	Mountina		Without mounting option	•	•	•
	Mounting	B *3	With bracket	•	•	•	
ligi			+				
Option		Float type	_	Without auto drain	•	•	•
	b	auto drain	C*4	N.C. (Normally closed) Drain port is closed when pressure is not applied.	•	•	•
		auto drain	D *5	N.O. (Normally open) Drain port is open when pressure is not applied.	_	•	•
			+	, ,			
			_	Polycarbonate bowl	•	•	•
			2	Metal bowl	•	•	•
	c	Bowl *6	6	Nylon bowl	•	•	
	•	DOWI		Metal bowl with level gauge	_		
				With bowl guard	•	*7	*7
ō			6C	With bowl guard (Nylon bowl)	•	*8	*8
Semi-standard	l		+				
tan				With drain cock	•	•	•
i-S	d	Drain port *12		Drain guide 1/4	•	•	•
en				Drain cock with barb fitting (for Ø 6 x Ø 4 nylon tube)			•
ഗ	l		+				
	е	Flow direction		Flow direction: Left to right	•	•	•
			R	Flow direction: Right to left	•		•
			+	<u> </u>			
	f	Pressure unit	-	Name plate and caution plate for bowl in SI units: MPa	•	*11	
			Z *10	Name plate and caution plate for bowl in imperial units: psi, °F	•	U*''	O*11

- (applicable to the AFM30-A/40-A, AFD30-A/40-A). The auto drain port comes with Ø 3/8" One-touch fitting (applicable to the AFM30-A/40-A, AFD30-A/40-A).
- *2 Drain guide is G 1/8 (applicable to the AFM20-A, AFD20-A) and G 1/4 (applicable to the AFM30-A/40-A, AFD30-A/40-A).
- *3 A bracket is not assembled and supplied loose at the time of shipment. Including 2 mounting screws
- *4 When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl. Releasing the residual condensate before ending operations for the day is recommended.
- [ANR]), air leakage from the drain cock may occur during start of operations. N.C. type is recommended.
- *6 Refer to chemical data on page 58 for chemical resistance of the bowl.
- *7 A bowl guard is provided as standard equipment (polycarbonate).
- *8 A bowl guard is provided as standard equipment (nylon).
 *9 Without a valve function
- *10 For pipe thread type: NPT
- *11 O: For pipe thread type: NPT only
- *12 The combination of float type auto drain: C and D is not available.
- *13 The combination of metal bowl: 2 and 8 is not available.



AFM20-A to AFM40-06-A Mist Separator AFD20-A to AFD40-06-A Micro Mist Separator Made to Order

Please contact SMC for detailed dimensions, specifications and lead times.



③ Clean Series

For details, refer to the Clean Series/Low Particle Generation section of the Web Catalogue.

Standard model no.

Please contact SMC if a product with pressure gauge is desired.

Clean series

4 Copper, Fluorine and Silicone-free + Low Particle Generation

For details, refer to the Clean Series/Low Particle Generation section of the Web Catalogue.

Standard model no.

Copper, fluorine and silicone-free + Low particle generation

Modular Type Regulator AR Series

Regulator AR Series	Model	Port size	Set pressure	Options
	AR10-A	M5 x 0.8	0.05 to 0.7 MPa 0.02 to 0.2 MPa	Bracket Round type pressure gauge Set nut (for panel mount) *1
EMPLANT CONTRACTOR	AR20(K)-B	3 1/8, 1/4		Bracket
	AR25(K)-B	1/4, 3/8	Set nut (for panel mount)*1	
United State of State	AR30(K)-B	1/4, 3/0		Square embedded type pressure gauge
	AR40(K)-B	1/4, 3/8, 1/2	0.05 to 0.85 MPa 0.02 to 0.2 MPa	Digital pressure switch
	AR40(K)-06-B	3/4		Round type pressure gauge
	AR50(K)-B	3/4, 1		Bracket Square embedded type pressure gauge
Pages 65 to 80	AR60(K)-B	1		Digital pressure switch Round type pressure gauge

*1 Interchangeable with the previous AR series and panel mounting dimensions.

Regulator AR10-A

Symbol Regulator





How to Order

Refer to page 67 for size 20 to 60.



- Option/Semi-standard: Select one each for a to g.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.

Example) AR10-M5BG-1NR-A

	_			Symbol	Description
				_	Without mounting option
	_	а	Mounting	B *2	With bracket
•	Option *1			Н	With set nut (for panel mount)
	Opti			+	
		b	b Pressure gauge		Without pressure gauge
			1 1000ure gauge	G *3	Round type pressure gauge (without limit indicator)
				+	
		С	c Set pressure *4		0.05 to 0.7 MPa setting
			Oct prossure	1	0.02 to 0.2 MPa setting
				+	
		d	Exhaust mechanism	_	Relieving type
		u	Exhaust mechanism	N	Non-relieving type
	ard			+	
2	Semi-standard	е	Flow direction	_	Flow direction: Left to right
4	ni-s		I low direction	R	Flow direction: Right to left
	Ser			+	
		f	Knob	_	Downward
		•	KIIOD	Υ	Upward
				+	
		a	Pressure unit		Name plate and pressure gauge in SI units: MPa
		g	Flessule utilit	Z	Name plate and pressure gauge in imperial units: psi

- *1 Options are not assembled and supplied loose at the time of shipment.
- *2 Assembly of a bracket and set nuts
- *3 A 1.0 MPa pressure gauge will be fitted. It is not assembled and supplied loose at the time of shipment.
- *4 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.



Standard Specifications

Port size	M5 x 0.8
Pressure gauge port size *1	1/16
Fluid	Air
Ambient and fluid temperature	-5 to 60 °C (with no freezing)
Proof pressure	1.5 MPa
Maximum operating pressure	1.0 MPa
Set pressure range	0.05 to 0.7 MPa
Construction	Relieving type
Weight [kg]	0.06

^{*1} Use a bushing (part no.: 131368) when connecting the R 1/8 pressure gauge to the Rc 1/16.

Options/Part No.

Bracket assembly *1	AR12P-270AS		
Set nut	AR12P-260S		
Round type pressure gauge *2	G27-10-R1		

- *1 Assembly of a bracket and set nuts
- *2 1.0 MPa pressure gauge

⚠ Specific Product Precautions

sure to read this before handling the products. Refer to the back cover for safety instructions. For F.R.L. units I precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual", http://www.smc.eu

Selection

Warning

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

Maintenance

∕!\ Warning

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

Mounting/Adjustment

∕!\ Warning

- 1. Set the regulator while verifying the displayed values of the inlet and outlet pressure gauges. Turning the regulator knob excessively can cause damage to the internal parts.
- 2. Do not use tools on the pressure regulator knob as this may cause damage. It must be operated manually.

/ Caution

- 1. Be sure to unlock the knob before adjusting the pressure and lock it after setting the pressure. Failure to follow this procedure can cause damage to the knob and the outlet pressure may fluctuate.
 - Pull the pressure regulator knob to unlock. (You can visually verify this with the "orange mark" that appears in the gap.)
 - Push the pressure regulator knob to lock. When the knob is not easily locked, turn it left and right a little and then push it (when the knob is locked, the "orange mark", i.e., the gap will disap-
- 2. Pulsation will be generated when the difference between the inlet and the outlet pressure is large. In this case, reduce the pressure difference between the inlet and the outlet. Please consult with SMC if the pulsation problem is not resolved.

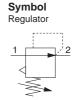


Regulator

AR20-B to AR60-B

Regulator with Backflow Function

AR20K-B to AR60K-B

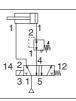


Regulator with Backflow Function



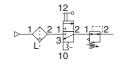
• With the backflow function, it incorporates a mechanism to exhaust the air pressure in the outlet side reliably and quickly.

Example 1) When the pressure in the rear and the front of the cylinder differs:



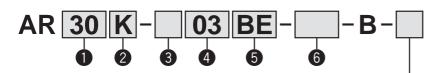
Example 2)

When the air supply is cut off and releasing the inlet pressure to the atmosphere, the residual pressure release of the outlet side can be ensured for a safety purpose.



How to Order

Refer to page 65 for size 10.



- Option/Semi-standard: Select one each for **a** to **g**.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) AR30K-03BE-1NR-B

Made to order

(Refer to pages 77 to 79 for details.)

								•			
				Symbol Description				Body	size		
						20	25	30	40	50	60
	With backflow			_	Without backflow function	•	•	•	•	•	•
				K *1	With backflow function	•	•	•	•	•	•
				+							
			_	Rc	•	•	•	•	•		
8		Pipe	thread type	N	NPT	•	•	•	•	•	•
				F	G	•	•	•	•	•	•
				+							
				01	1/8		_	_	_	_	_
				02	1/4		•	•		_	_
4			Port size	03	3/8	_	•	•		_	_
		ľ	- OIT SIZE	04	1/2	_	_	_	•	_	_
				06	3/4	_	_	_	•	•	_
				10	1		_	_	_	•	
				+							
				_	Without mounting option	•	•	•		•	
		а	Mounting	B *3	With bracket		•	•	•	•	
				Н	With set nut (for panel mount)		•	•	•	_	_
				+							
	*2			_	Without pressure gauge		•	•		•	
6	on		Pressure	E	Square embedded type pressure gauge (with limit indicator)	•	•	•	•	•	
9)pti	Option of	gauge *4	G	Round type pressure gauge (with limit indicator)		•	•	•	•	
				M	Round type pressure gauge (with colour zone)		•	•	•	•	
		5	Distrat	E1	Output: NPN output, Electrical entry: Wiring bottom entry	•	•	•	•	•	•
			Digital pressure	E2	Output: NPN output, Electrical entry: Wiring top entry	•	•	•	•	•	•
			switch *5	E3	Output: PNP output, Electrical entry: Wiring bottom entry	•	•	•	•	•	
				E4	Output: PNP output, Electrical entry: Wiring top entry	•	•	•	•	•	

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





AR20-B, AR20K-B

AR40-B, AR40K-B

	_	_						0)		
	Symbol		Symbol	Description	Body size						
							25	30	40	50	60
			Set	_	0.05 to 0.85 MPa setting	•	•	•	•	•	•
		С	pressure *6	1	0.02 to 0.2 MPa setting	•	•	•	•	•	•
				+							
		d	Exhaust	_	Relieving type	•	•	•	•	•	•
			mechanism N		Non-relieving type	•	•	•	•	•	•
	ard	+									
	nda	•	e Flow direction R	_	Flow direction: Left to right			•		•	•
6	Semi-standard	С		R	Flow direction: Right to left		•	•	•	•	•
	Ë			+							
	Se	f	Knob	_	Downward			•		•	•
		'	KIIOD	Υ	Upward		•	•	•	•	•
				+							
				_	Name plate and pressure gauge in SI units: MPa			•		•	•
		g	Pressure unit	Z *7	Name plate and pressure gauge in imperial units: psi	○*9	○*9	○*9	○*9	○*9	○*9
				ZA *8	Digital pressure switch: With unit selection function	△*10	△*10	△*10	△*10	△*10	△*10

- *1 Set the inlet pressure to at least 0.05 MPa higher than the set pressure.
- *2 Options B, G, H, M are not assembled and supplied loose at the time of shipment.
- *3 Assembly of a bracket and set nuts (applicable to the AR20(K)-B to AR40(K)-B). Including 2 mounting screws for the AR50(K)-B and AR60(K)-B
- *4 When the pressure gauge is attached, a 1.0 MPa pressure gauge will be fitted for standard (0.85 MPa) type. 0.4 MPa pressure gauge for 0.2 MPa type.
- *5 When choosing with H (panel mount), the installation space for lead wires will not be secured. In this case, select "wiring top entry" for the electrical entry. (Select "wiring bottom entry" when the semi-standard Y is chosen simultaneously.)
- *6 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.
- *7 For pipe thread type: NPT.
 - Cannot be used with M: Round type pressure gauge (with colour zone). Available by request for special.
- The digital pressure switch will be equipped with the unit selection function, setting to psi initially.
- *8 For options: E1, E2, E3, E4.
- *9 O: For pipe thread type: NPT only
- *10 \triangle : Select with options: E1, E2, E3, E4.

Standard Specifications

Model	AR20-B	AR25-B	AR30-B	AR40-B	AR40-06-B	AR50-B	AR60-B	
Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	1	
Pressure gauge port size *1	1/8							
Fluid	Air							
Ambient and fluid temperature *2	² -5 to 60 °C (with no freezing)							
Proof pressure				1.5 MPa				
Maximum operating pressure				1.0 MPa				
Set pressure range			(0.05 to 0.85 MP	а			
Construction Relieving type								
Weight [kg]	0.16	0.21	0.29	0.44	0.47	1.17	1.22	

^{*1} Pressure gauge connection threads are not available for F.R.L. unit with a square embedded type pressure gauge or with a digital pressure switch.

*2 -5 to 50 °C for the products with the digital pressure switch.



AR20-B to AR60-B Series AR20K-B to AR60K-B Series

Options/Part No.

Option	Model Option		AR20(K)-B	AR25(K)-B	AR30(K)-B	AR40(K)-B	AR40(K)-06-B	AR50(K)-B	AR60(K)-B
Brack	Bracket assembly *1		AR23P-270AS	AR28P-270AS	AR33P-270AS	AR43P-270AS		AR52P	-270AS
Set nu	ıt		AR23P-260S	AR28P-260S	AR33P-260S	AR43F	P-260S	_	*2
	Round	Standard		G36-10-□01			G46-1	0-□01	
	type *3	0.02 to 0.2 MPa setting		G36-4-□01			G46-4	I-□01	
Pressure	Round type *3	Standard	G36-10-□01-L			G46-10-□01-L			
gauge	(with colour zone)	0.02 to 0.2 MPa setting	G36-4-□01-L			G46-4-□01-L			
	Square *4	Standard		GC:	3-10AS [GC3P-0	010AS (Pressure gauge cover only)]			
	embedded type	0.02 to 0.2 MPa setting		GC	3-4AS [GC3P-0	10AS (Pressure	essure gauge cover only)]		
Digita	ı	NPN output, Wiring bottom entry		ISE35-N-25-MLA [ISE35-N-25-M (Switch body only)]					
pressi		NPN output, Wiring top entry		IS	E35-R-25-MLA [ISE35-R-25-M (Switch body onl	y)]	
switch		PNP output, Wiring bottom entry		IS	E35-N-65-MLA [ISE35-N-65-M (Switch body onl	y)]	
SWITCI	1	PNP output, Wiring top entry		IS	E35-R-65-MLA [[ISE35-R-65-M (Switch body only)]			

- *1 Assembly of a bracket and set nuts. Including 2 mounting screws for the AR50(K)-B and AR60(K)-B
- *2 Please consult with SMC regarding the set nuts for the AR50(K)-B and AR60(K)-B.
- *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.
- *4 Including one 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 screw (2 pcs.) are attached.

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

Specific Product Precautions

Be sure to read this before handling the products. Refer to the back cover for safety instructions. For F.R.L. units I precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual", http://www.smc.eu

Selection

∧ Warning

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

Maintenance

<u> Marning</u>

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

Mounting/Adjustment

- **1.** Set the regulator while verifying the displayed values of the inlet and outlet pressure gauges. Turning the regulator knob excessively can cause damage to the internal parts.
- **2.** Do not use tools on the pressure regulator knob as this may cause damage. It must be operated manually.

⚠ Caution

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



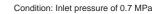
2. A knob cover is available to prevent careless operation of the knob. Refer to page 112 for details.

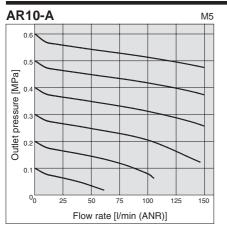


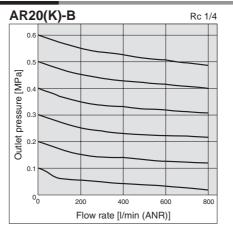
AB

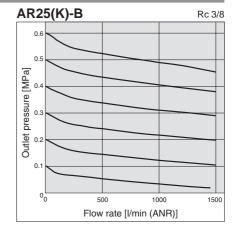
Regulator AR10-A Series Regulator AR20-B to AR60-B Series Regulator with Backflow Function AR20K-B to AR60K-B Series

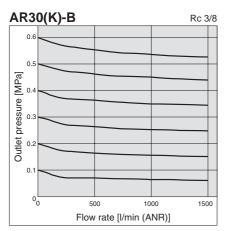


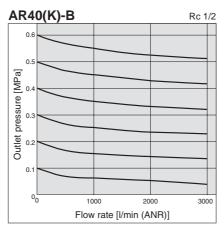


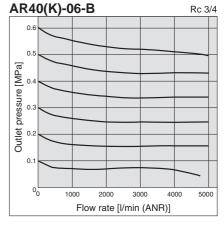


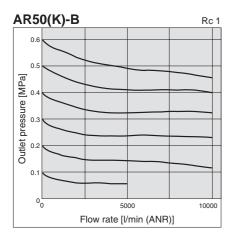


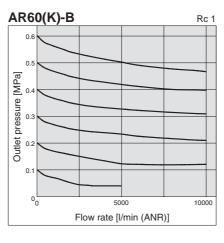








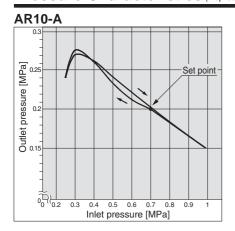


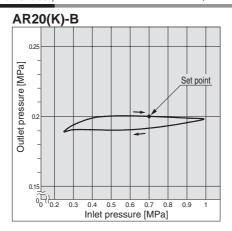


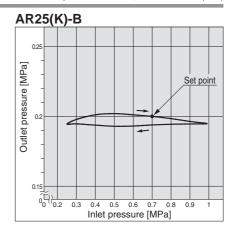
AR10-A Series AR20-B to AR60-B Series AR20K-B to AR60K-B Series

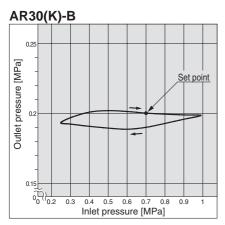
Pressure Characteristics (Representative values)

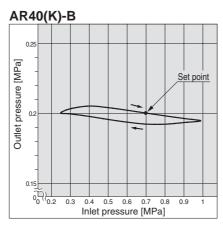
Conditions: Inlet pressure of 0.7 MPa, Outlet pressure of 0.2 MPa, Flow rate 20 l/min (ANR)

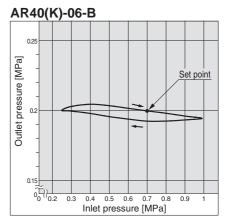


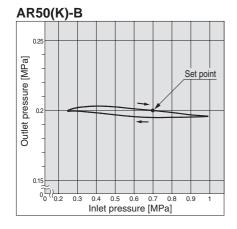


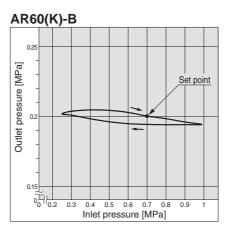








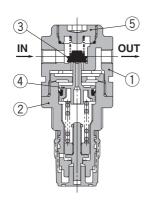




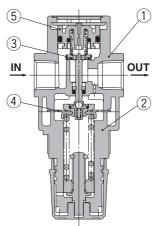
Regulator AR10-A Series Regulator AR20-B to AR60-B Series Regulator with Backflow Function AR20K-B to AR60K-B Series

Construction

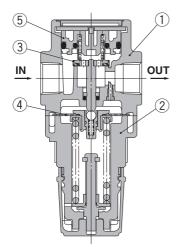
AR10-A



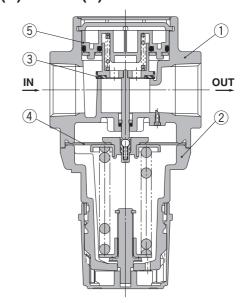
AR20(K)-B/AR25(K)-B



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



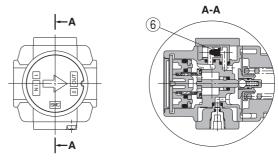
AR50(K)-B/AR60(K)-B



Component Parts

COII	iponent raits				
No.	Description	Material	Model	Colour	
1		Zinc die-cast			
	Body	Aluminium die-cast	AR20(K)-B to AR60(K)-B	White	
2			AR10-A	White	
	Bonnet	Polyacetal	AR20(K)-B to AR40(K)-B		
		Aluminium die-cast	AR50(K)-B/ AR60(K)-B		

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



Replacement Parts [AR10-A]

No.	Description	Material	Part no.
3	Valve	HNBR	AR10P-090S
4	Piston assembly	Polyacetal	AR10P-150AS
5	Valve guide assembly	Polyacetal	131329

ĮAK	R20(K)-B to AR60(K)-B]												
No.	Description	Material		Part no.									
INO.	Description		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	S AR40P-050AS AR50P-050A		AR50P-050AS	AR60P-050AS				
6	Check valve assembly *1	_	AR23KP-020AS										

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



AR10-A Series AR20K-B to AR60K-B Series

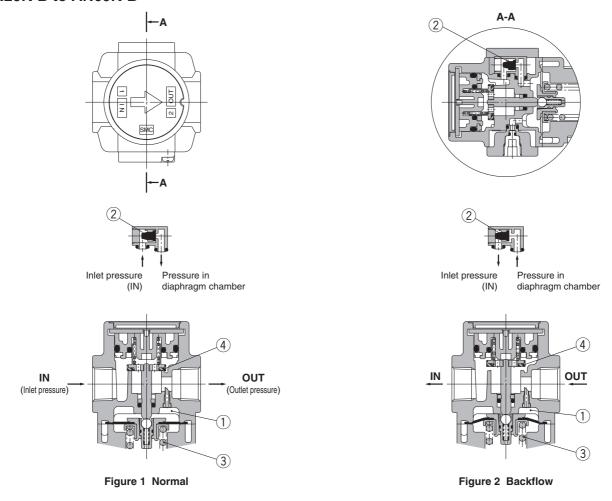
Working Principle (Regulator with Backflow Function)

AR10-A



When the inlet pressure is higher than the regulating pressure, the check valve operates as a normal regulator (Figure 1). When the inlet pressure is shut off and exhausted, any inlet pressure applied to the valve ① will be lost. The force for seating the valve ① is the valve spring force ② only. When the valve ① is opened using the outlet force, the outlet pressure will be exhausted at the inlet side (Figure 2). When the set pressure is 0.15 MPa or less, the valve ① may not open due to the valve spring ② force.

AR20K-B to AR60K-B

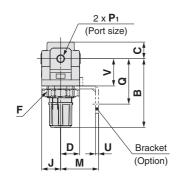


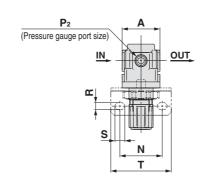
When the inlet pressure is higher than the regulating pressure, the check valve ② closes and operates as a normal regulator (Figure 1). When the inlet pressure is shut off and released, the check valve ② opens and the pressure in the diaphragm chamber ① is released into the inlet side (Figure 2). This lowers the pressure in the diaphragm chamber ① and the force generated by the spring ③ lifts the diaphragm. The valve ④ opens through the stem, and the outlet pressure is released to the inlet side (Figure 2).

AR10-A Series AR20-B to AR60-B Series AR20K-B to AR60K-B Series

Dimensions

AR10-A



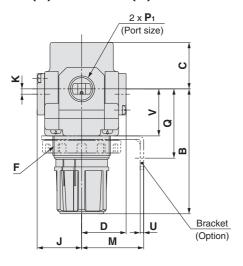


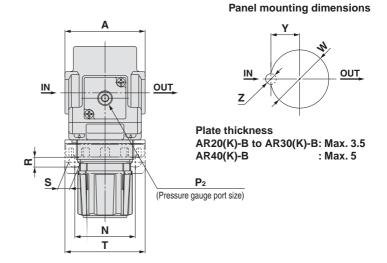
Panel mounting dimensions



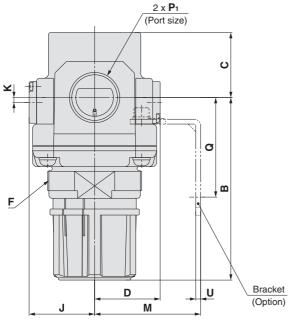
Plate thickness AR10-A: Max. 3.5

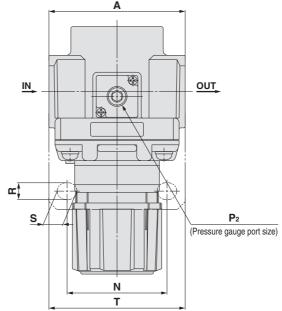
AR20(K)-B to AR40(K)-06-B





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





Regulator AR10-A Series Regulator AR20-B to AR60-B Series Regulator with Backflow Function AR20K-B to AR60K-B Series

Option	Square embedded type pressure gauge	Digital pressure switch	Round type pressure gauge Round type pressure gauge (with colour zone)
Dimensions	Centre of piping	Centre of piping	Centre of piping

											Optional specifications						
Model		Standard specifications								Square embedded type pressure gauge		Digital pressure switch		Round type pressure gauge		Round type pressure gauge (with colour zone)	
	P ₁	P ₂	Α	B*1	С	D	F	J	K	Н	J	Н	J	Н	J	Н	J
AR10-A	M5 x 0.8	1/16	25	47.4	11	12.5	M18 x 1	12.5	_	_	_	_	_	Ø 26	26	_	_
AR20(K)-B	1/8, 1/4	1/8	40	67.4	26.5	28.5	M28 x 1	28.5	2*2	□28	29.5	□27.8	40	Ø 37.5	65	Ø 37.5	66
AR25(K)-B	1/4, 3/8	1/8	53	71.9	28	27.5	M32 x 1.5	27.5	0	□28	28.5	□27.8	39	Ø 37.5	64	Ø 37.5	65
AR30(K)-B	1/4, 3/8	1/8	53	85.6	30.7	29.4	M38 x 1.5	29.4	3.5	□28	30.4	□27.8	40.9	Ø 37.5	65.9	Ø 37.5	66.9
AR40(K)-B	1/4, 3/8, 1/2	1/8	70	91.7	35.8	33.8	M42 x 1.5	33.8	3.5	□28	34.8	□27.8	45.3	Ø 42.5	71.3	Ø 42.5	71.3
AR40(K)-06-B	3/4	1/8	75	93.2	35.8	33.8	M42 x 1.5	33.8	3	□28	34.8	□27.8	45.3	Ø 42.5	71.3	Ø 42.5	71.3
AR50(K)-B	3/4, 1	1/8	90	125.2	43	43.3	M62 x 1.5	43.3	3.2	□28	44.3	□27.8	54.8	Ø 42.5	80.8	Ø 42.5	80.8
AR60(K)-B	1	1/8	95	129.6	46	43.3	M62 x 1.5	43.3	3.2	□28	44.3	□27.8	54.8	Ø 42.5	80.8	Ø 42.5	80.8

		Optional specifications														
Model			Bra	Panel mount												
	М	N	Q	R	S	Т	U	V	W	Υ	Z					
AR10-A	25	28	30	4.5	6.5	40	2	18	18.5	_	_					
AR20(K)-B	30	34	43.9	5.4	15.4	55	2.3	24.7	28.5	14	6					
AR25(K)-B	30	34	43.9	5.4	15.4	55	2.3	25.7	32.5	16	6					
AR30(K)-B	41	40	45.8	6.5	8	53	2.3	31.1	38.5	19	7					
AR40(K)-B	50	54	54	8.5	10.5	70	2.3	35.5	42.5	21	7					
AR40(K)-06-B	50	54	55.5	8.5	10.5	70	2.3	37	42.5	21	7					
AR50(K)-B	70	66	65.8	11	13	90	3.2	_	_	_	_					
AR60(K)-B	70	66	65.8	11	13	90	3.2	_	_	_	_					

^{*1} The dimension of B is the length when the filter regulator knob is unlocked.
*2 For the AR20(K)-B only, the position of the pressure gauge is above the centre of the piping.

AR20-B to AR60-B Regulator **Made to Order**

Please contact SMC for detailed dimensions, specifications and lead times.



AR30-03-B-X430/440/425

(1) Special Temperature Environment

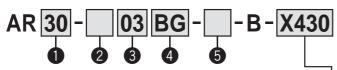
Special materials are used in the manufacturing of seals and resin parts to allow them to withstand various temperature conditions in cold or tropical (hot) climates.

Specifications

Made-to-	order part no.	-X430	-X440			
Environn	nent	Low temperature	High temperature			
Ambient t	emperature [°C]	-30 to 60	-5 to 80			
Fluid tem	perature [°C]	-5 to 60 (with no freezing)				
Material	Rubber parts	Special NBR	FKM			
Materiai	Main parts	Metal (Aluminium die-cast, etc.)				

Applicable Model

Model	AR25-B	AR30-B	AR40-B	AR40-06-B	AR50-B	AR60-B
Port size	1/4, 3/8	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	1



- Option/Semi-standard: Select one each for a to g.
- · Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.

Example) AR30-03BG-1NR-B-X430

For high/low • temperature

A-30	Low temperature
X440	Low temperature High temperature

				Symbol	Description	25	Во 30	ody siz	ze 50	60
				_	Rc					
2	Pic	e thi	read type	N	NPT		•	•	•	•
9	1			F	G		•	•	•	•
	-			+						
				02	1/4	•	•	•	_	_
				03	3/8	•	•	•	_	_
(3		Por	t size	04	1/2	_	_	•	_	_
				06	3/4	_	_	•	•	_
				10	1	_	_	_	•	•
				+						
				_	Without mounting option	•	•	•	•	•
			Mounting	B *2	With bracket	•	•	•	•	•
_	*	а	iviounting	н	With set nut					
4	j j			п	(for panel mount)	•	•	•	_	_
	Option *1			+						
		b	Pressure gauge	G *3	Round type pressure gauge (without limit indicator)	•	•	•	•	•
_				+	,					
			Set	_	0.05 to 0.85 MPa setting		•		•	
		С	pressure	1*4	0.02 to 0.2 MPa setting	•	•	•	•	•
				+						
		d	Exhaust	_	Relieving type	•	•	•	•	
		a	mechanism	N	Non-relieving type	•	•	•	•	•
	ō			+						
	Semi-standard	е	Flow	_	Flow direction: Left to right	•	•	•	•	•
5	ä	е	direction	R	Flow direction: Right to left	•	•	•	•	•
9	i-St			+						
	em	f	Knob		Downward		•	•	•	
	ြဟ		KIIOD	Υ	Upward	•	•	•	•	
				+						
		-	Pressure	_	Name plate and pressure gauge in SI units: MPa	•	•	•	•	•
		g	unit	Z *5	Name plate and pressure gauge in imperial units: psi	○*6	○*6	O*6	○*6	○*6

- *1 Options B. G. H are not assembled and supplied loose at the time of shipment.
- *2 Assembly of a bracket and set nuts (AR25-B to AR40-B)
- Including 2 mounting screws for the AR50-B and AR60-B

 *3 Mounting thread for pressure gauge: 1/8, Pressure gauge type: G43

 *4 The only difference from the standard specifications is the spring for the regulator. It does not restrict the setting of 0.2 MPa or more. When the pressure gauge is attached, a 0.4 MPa pressure gauge will be fitted.
- *5 For pipe thread type: NPT.
- *6 O: For pipe thread type: NPT only

2 High Pressure

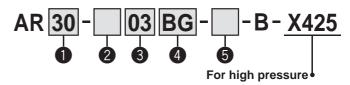
Strong materials are used in the manufacturing of regulators intended for high pressure operation. Also, construction modification allows a wider set pressure range.

Specifications

_ •					
Made-to-order part no.	-X425				
Proof pressure [MPa]	3.0				
Maximum operating pressure [MPa]	2.0				
Set pressure range [MPa]	0.1 to 1.7				
Ambient and fluid temperature [°C]	-5 to 60 (with no freezing)				

Applicable Model

Model	AR20-B	AR25-B	AR30-B	AR40-B	AR40-06-B	AR50-B	AR60-B
Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	1



- Option/Semi-standard: Select one each for a to f.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphabetic order. Example) AR30-03BG-NR-B-X425

Ex	am	ple)	AR30-03	BG-NR	-B-X425						
	\	_		Symbol	Description			_			
				Symbol	Description	20	25	Body 30	size	50	60
					Rc		•	•	•	•	
2	Pip	e th	read type	N	NPT	•	•	•	•	•	ě
•			,,	F	G	•	•	•	•	•	•
	+										
				01	1/8	•	_	_	_	_	_
				02	1/4	•	•	•	•	_	_
9		Do	rt size	03	3/8		•	•	•	_	_
3		201	t Size	04	1/2				•		
				06	3/4	_	_	_	•	•	_
				10	1	_	_	_	_	•	•
				+							
				_	Without mounting option	•	•	•	•	•	•
		l a	Mounting	B *2	With bracket	•	•	•	•	•	•
4	Option *1	a	Wounting	Н	With set nut (for panel mount)	•	•	•	•	_	_
•	þ	_		+							
		b	Pressure gauge	G *3	Round type pressure switch (with limit indicator)	•	•	•	•	•	•
			,	+	,						
			Exhaust	_	Relieving type	•	•	•	•	•	•
		С	mechanism	N	Non-relieving type	•	•	•	•	•	•
				+							
		d	Flow	_	Flow direction: Left to right	•	•	•	•	•	•
	ard	u	direction	R	Flow direction: Right to left		•	•	•	•	•
	ü			+							
6	sta	е	Knob	_	Downward	•	•	•	•	•	•
	Semi-standard	٦	TATIOD	Υ	Upward	•	•	•	•	•	•
	Se			+							
			Pressure	_	Name plate and pressure gauge in SI units: MPa	•	•	•	•	•	•
		f	unit	Z *4	Name plate and pressure gauge in imperial	O*5	O*5	O*5	O*5	O*5	O*5

- *1 Options B, G, H are not assembled and supplied loose at the time of shipment. *2 Assembly of a bracket and set nuts (AR20-B to AR40-B)
- Including 2 mounting screws for the AR50-B and AR60-B

units: psi

- *3 Mounting thread for pressure gauge: 1/8, Pressure gauge type: G46-20-□
 *4 For pipe thread type: NPT.
 *5 ○: For pipe thread type: NPT only



AR10 Regulator **Made to Order**

Please contact SMC for detailed dimensions, specifications and lead times.



3 0.4 MPa Setting

The maximum set pressure is 0.4 MPa. When a pressure gauge is included, the display will show a range from 0 to 0.4 MPa.

Specifications

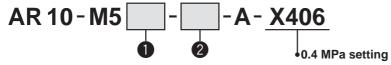
Made-to-order part no.	-X406				
Proof pressure [MPa]	1.5				
Maximum operating pressure [MPa]	1.0				
Set pressure range [MPa]	0.05 to 0.4				

△Caution

• The AR10 comes with a backflow function as a standard feature. When using the AR10 as with backflow function, backflow may not occur with the set pressure of 0.15 MPa or less.

Applicable Model

Model	AR10
Port size	M5



- ullet Option/Semi-standard: Select one each for ${f a}$ to ${f f}$.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphabetic order. Example) AR10-M5BG-NR-A-X406

	Symbo		Symbol	Description	Body size 10	
				_	Without mounting option	•
	*	а	Mounting	B *2	With bracket	•
4				Н	With set nut (for panel mount)	•
V	Option			+		
	$ \circ $	b	Pressure gauge *3	_	Without pressure gauge	•
		D	Pressure gauge	G	Round type pressure gauge (without limit indicator)	•
		С	Exhaust mechanism	_	Relieving type	•
	C Extraust mechanism		N	Non-relieving type	•	
				+		
	ar	d	Flow direction	_	Flow direction: Left to right	•
_	ğ	u	1 low direction	R	Flow direction: Right to left	•
2	Semi-standard			+		
	=	е	Knob		Downward	•
	Se		TUIOD	Υ	Upward	•
				+		
		f	Pressure unit		Name plate and pressure gauge in SI units: MPa	•
	i i ressure unit		1 1000are unit	Z	Name plate and pressure gauge in imperial units: psi	•

- *1 Options B, G, H are not assembled and supplied loose at the time of shipment.
- *2 Assembly of a bracket and set nuts.*3 A 1.0 MPa pressure gauge will be fitted.

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

Made to Order





3 0.4 MPa Setting

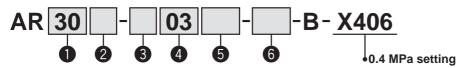
The maximum set pressure is 0.4 MPa. When a pressure gauge is included, the display will show a range from 0 to 0.4 MPa.

Specifications

Made-to-order part no.	-X406		
Proof pressure [MPa]	1.5		
Maximum operating pressure [MPa]	1.0		
Set pressure range [MPa]	0.05 to 0.4		

Applicable Model

Model	AR20(K)-B	AR25(K)-B	AR30(K)-B	AR40(K)-B	AR40(K)-06-B	AR50(K)-B	AR60(K)-B
Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	1



- Option/Semi-standard: Select one each for a to f.
- · Option/Semi-standard symbol: When more than one specification is required, indicate in alphabetic order. Example) AR30K-03BE-NR-B-X406

				Cumbel	Description			1			
				Symbol	Description	20	25	Body		F 0	
						20	25	30	40	50	60
2	2 With backflow function		_	Without backflow function	•	•	•	•	•	•	
			K *1	With backflow function		•	•	•	•	•	
				+							
					Rc		•	•	•	•	•
3	Pipe thread type		N	NPT	•	•	•	•	•	•	
				F	G		•	•	•	•	•
				+							
				01	1/8	•			_	_	
				02	1/4	•	•	•	•	_	
4			Port size	03	3/8	_	•	•	•	_	
				04	1/2	_		_	•	_	
				06	3/4	_			•	•	
				10	1	_	_		_	•	•
			I	+			_	_	-	_	_
				_	Without mounting option	•	•	•	•	•	•
		а	Mounting	B*3	With bracket	•	•	•	•	•	•
				Н	With set nut (for panel mount)		•	•	•	_	_
			ı	+			_				
	* %				Without pressure gauge	•	•	•	•	•	•
6	Option		Pressure gauge*4	E	Square embedded type pressure gauge (with limit indicator)	•	•	•	•	•	•
	pti			G	Round type pressure gauge (with limit indicator)	•	•	•	•	•	•
		b		M	Round type pressure gauge (with colour zone)	•	•	•	•	•	•
		_		E1*5	Output: NPN output, Electrical entry: Wiring bottom entry	•	•	•	•	•	•
			Digital pressure	E2 *5	Output: NPN output, Electrical entry: Wiring top entry	•	•	•	•	•	•
			switch	E3*5	Output: PNP output, Electrical entry: Wiring bottom entry	•	•	•	•	•	•
				E4 *5	Output: PNP output, Electrical entry: Wiring top entry				•	•	•
				+							
		С	Exhaust	_	Relieving type	•	•	•	•	•	•
		_	mechanism	N	Non-relieving type		•	•	•	•	•
			ı	+			_				
	5	d	Flow direction		Flow direction: Left to right	•	•	•	•	•	•
	g			R	Flow direction: Right to left		•	•	•	•	•
6	tar			+							
		e	Knob		Downward	•	•	•	•	•	•
	Semi-standard	_	14.00	Υ	Upward	•	•	•	•	•	•
	0)			+							
					Name plate and pressure gauge in SI units: MPa	•	•	•	•	•	•
		f	Pressure unit	Z *6	Name plate and pressure gauge in imperial units: psi	0*8	0*8	○*8	O*8	O*8	0*8
				ZA*7	Digital pressure switch: With unit selection function	△*9	△*9	△*9	△*9	△*9	△*9

- *1 Please set the inlet pressure to at least 0.05 MPa higher than the set pressure.
- *2 Options B, G, H are not assembled and supplied loose at the time of shipment.
- *3 Assembly of a bracket and set nuts. (AR20(K)-B to AR40(K)-B). Including 2 mounting screws for the AR50(K)-B and AR60(K)-B
- *4 A 0.7 MPa pressure gauge will be fitted.
 *5 When choosing with H (panel mount), the installation space for lead wires will not be secured. In this case, select "wiring top entry" for the electrical entry. (Select "wiring bottom entry" when the semi-standard Y is chosen simultaneously.)
- *6 For pipe thread type: NPT. The digital pressure switch will be equipped with the
- unit selection function, setting to psi initially. *7 For options: E1, E2, E3, E4.
- *8 O: For pipe thread type: NPT only *9 \(\triangle : \text{Select with options: E1, E2, E3, E4.}\)



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

Made to Order

Please contact SMC for detailed dimensions, specifications and lead times.



4 Clean Series

For details, refer to the Clean Series/Low Particle Generation section of the Web Catalogue.



Please contact SMC if a product with pressure gauge is desired.

Clean series



5 Copper, Fluorine and Silicone-free + Low Particle Generation

For details, refer to the Clean Series/Low Particle Generation section of the Web Catalogue.

Standard model no.

Copper, fluorine and silicone-free + Low particle generation

AC

AF+AR+AL

AW+AL

AF+AR

Attachment | AW+AFM | AF+AFM+AR

AB

F



Modular Type Lubricator **AL** Series

Lubricator AL Series	Model	Port size	Option
	AL10-A	M5 x 0.8	
.0.	AL20-A	1/8, 1/4	
	AL30-A	1/4, 3/8	
	AL40-A	1/4, 3/8, 1/2	Bracket (Except AL10-A)
	AL40-06-A	3/4	
	AL50-A	3/4, 1	
Pages 83 to 90	AL60-A	1	

Lubricator

AL10-A to AL60-A

Symbol







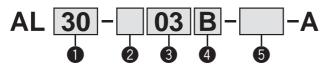


How to Order

AL10-A

AL20-A

AL40-A



- Option/Semi-standard: Select one each for a to d.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.

Example) AL30-03B-3RW-A

	_	_		Courselle sel	Description			(
	Symbol			Symbol	Description	40	20	Body		F 0	<u></u>
						10	20	30	40	50	60
					Metric thread (M5)		_	_	_	_	_
2		Dino	thread type		Rc		•	•	•	•	•
9		ripe	tilleau type	N	NPT		•	•	•	•	•
				F	G		•	•	•	•	•
				+							
				M5	M5 x 0.8		_	_	_	_	
				01	1/8		•	_	_	_	_
				02	1/4		•	•	•	_	_
8		١	Port size	03	3/8		_	•		_	
			04	1/2		_	_	•	_	_	
				06	3/4		_	_			_
				10	1	_	_	_	_		
				+							
	Option (Mounting)		on (Mounting)	_	Without mounting option		•	•			•
•			B *1	With bracket		•	•	•	•	•	
				+							
				_	Polycarbonate bowl		•	•			
				2	Metal bowl		•	•			
		2	Bowl *2 *3	6	Nylon bowl		•	•	•	•	
		а	DOWI	8	Metal bowl with level gauge		_	•	•	•	•
				С	With bowl guard		•	—* ⁴	_*4	*4	*4
7	_			6C	With bowl guard (Nylon bowl)	_		—* ⁵	—* ⁵	—* ⁵	<u></u> *5
ì				+		-					
	anc			_	Without drain cock	•	•	•	•	•	•
6	1 - -21	b	Lubricant exhaust port	3	With drain cock	•	•	•	•	•	•
8	semi-standard		extiaust port	3W*6	Drain cock with barb fitting		_	•	•	•	•
o	(1)	+									
			Flancisco et a c	_	Flow direction: Left to right	•	•	•	•	•	•
		С	Flow direction	R	Flow direction: Right to left	•	•	•	•	•	•
				+	-						
		al	D=====================================	_	Name plate and caution plate: MPa		•	•	•	•	•
		d	Pressure unit	Z *7	Name plate and caution plate: psi, °F	O*8	○*8	○*8	O*8	○*8	O*8

- *1 Option is not assembled and supplied loose at the time of shipment.
- *2 Refer to chemical data on page 86 for chemical resistance of the bowl.
- *3 Refer to page 89 for 1000 cm³ tanks.
- *4 A bowl guard is provided as standard equipment (polycarbonate).
- *5 A bowl guard is provided as standard equipment (nylon). *6 The combination of metal bowl: 2 and 8 is not available.
- *6 The combination of metal bowl: 2 and 8 is not a
 *7 For pipe thread type: M5, NPT.
- *8 O: For pipe thread type: M5, NPT only

A

Lubricator AL10-A to AL60-A Series

Standard Specifications

Model	AL10-A	AL20-A	AL30-A	AL40-A	AL40-06-A	AL50-A	AL60-A	
Port size	M5 x 0.8	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	1	
Fluid		Air						
Ambient and fluid temperature		-5 to 60 °C (with no freezing)						
Proof pressure				1.5 MPa				
Maximum operating pressure				1.0 MPa				
Minimum dripping flow rate			1/4: 30	1/4: 30				
[I/min (ANR)]*1	4	15	3/8: 40	3/8: 40 1/2: 50	50	190	220	
Oil capacity [cm³]	7	25	55		13	35		
Recommended lubricant			Class 1	turbine oil (ISO	VG32)			
Bowl material				Polycarbonate				
Bowl guard	_	Semi-standard (Steel)		Standard (Polycarbonate)				
Weight [kg]	0.07	0.10	0.20	0.38	0.43	0.94	1.09	

^{*1 •} The flow rate is 5 drops or greater/min under the following conditions: Inlet pressure of 0.5 MPa; Class 1 turbine oil (ISO VG32); Temperature at 20 °C; Oil adjustment valve fully open.

Option/Part No.

Optional specifications	Model							
	AL10-A	AL20-A	AL30-A	AL40-A	AL40-06-A	AL50-A	AL60-A	
Bracket assembly *1	_	AF22P-050AS	AF32P-050AS	AF42P-050AS	AF42P-070AS	AF52P	-050AS	

^{*1} Assembly of a bracket and 2 mounting screws

Bowl Assembly/Part No.

David	Lubricant		Model						
Bowl material	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	_		_	_	
Polycarbonate		With bowl guard	_	C2SL-C-A	C3SL-A		C4SL-A		
	With drain cock	_	C1SL-3-A	C2SL-3-A	_		_	_	
		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 cock	_	C1SL-6-A	C2SL-6-A	_	_			
		With bowl guard		C2SL-6C-A	C3SL-6-A	C4SL-6-A			
Nylon	With drain cock	_	C1SL-36-A	C2SL-36-A	_	-			
	With drain 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		C4SL-2-A		
Metal	Without drain cock	With level gauge	_	_	C3LL-8-A		C4LI	8-A	
ivielal	With drain cock	_	C1SL-23-A	C2SL-23-A	L-23-A C3SL-23-A C4		C4SL	-23-A	
		With level gauge	_	_	C3LL-38-A		C4LL	-38-A	

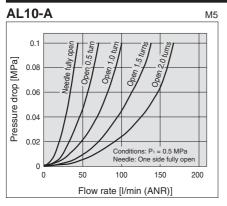
[·] Bowl seal is included for the AL20-A to AL60-A.

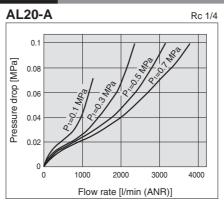
For a circuit that repeatedly turns ON and OFF on the outlet side, make the adjustment so that the average air consumption per minute becomes the minimum dripping flow rate or more.

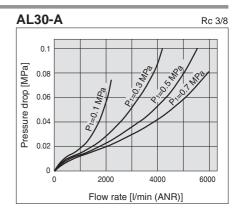
[·] Please consult with SMC separately for psi and °F unit display specifications.

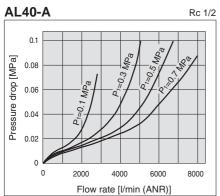
AL10-A to AL60-A Series

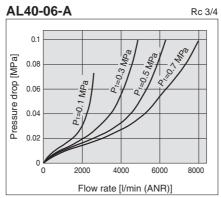
Flow Rate Characteristics (Representative values)

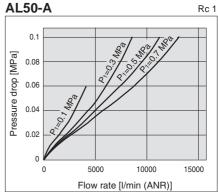


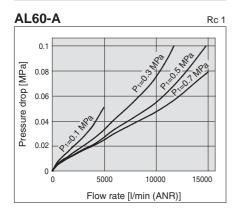




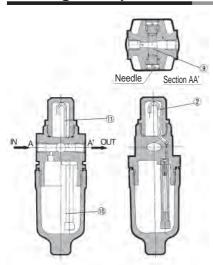








Working Principle: AL10



85

A portion of the air introduced from the IN side pressurises the lubricant inside the bowl. The remainder of the air passes through the needle ③, and flows to the OUT side. The differential pressure between the inside of the bowl and the inside of the sight dome ②, causes the lubricant inside the bowl into the oil passage ⑩. The lubricant drips from the dripping tube ⑪, and lubricates the OUT side. The amount of lubricant is adjusted by the needle ⑨ on the front face. Turning the needle clockwise increases the amount of the lubricant, and turning it counterclockwise until fully open shuts off the lubricant. The needle on the side that is not used should be left fully open.

⚠ Specific Product Precautions

Be sure to read this before handling the products. Refer to the back cover for safety instructions. For F.R.L. units precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual", http://www.smc.eu

Selection

∆Warning

- Do not introduce air from the outlet side as this can damage the bumper.
- The standard bowl for the air filter, filter regulator, and lubricator, as well as the sight dome for the lubricator are made of polycarbonate. Do not use in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.

Effects of atmosphere of organic solvents and chemicals, and where these elements are likely to adhere to the equipment.

Chemical data for substances causing degradation (Reference)

Type	Chemical name	Application examples	Material		
Type	Chemical name	Application examples	Polycarbonate	Nylon	
Acid	Hydrochloric acid Sulfuric acid, Phosphoric acid Chromic acid	Acid washing liquid for metals	Δ	×	
Alkaline	Sodium hydroxide (Caustic soda) Potash Calcium hydroxide (Slack lime) Ammonia water Carbonate of soda	Degreasing of metals Industrial salts Water-soluble cutting oil	×	0	
Inorganic salts	Sodium sulfide Potassium nitrate Sulfate of soda	_	×	Δ	
Chlorine solvents	Carbon tetrachloride Chloroform Ethylene chloride Methylene chloride	Cleansing liquid for metals Printing ink Dilution	×	Δ	
Aromatic series	Benzene Toluene Paint thinner	Coatings Dry cleaning	×	Δ	
Ketone	Acetone Methyl ethyl ketone Cyclohexane	Photographic film Dry cleaning Textile industries	×	×	
Alcohol	Ethyl alcohol IPA Methyl alcohol	Antifreeze Adhesives	Δ	×	
Oil	Gasoline Kerosene	_	×	0	
Ester	Phthalic acid dimethyl Phthalic acid diethyl Acetic acid	Synthetic oil Anti-rust additives	×	0	
Ether	Methyl ether Ethyl ether	Brake oil additives	×	0	
Amino	Methyl amino	Cutting oil Brake oil additives Rubber accelerator	×	×	
Others	Thread-lock fluid Seawater Leak tester	-	×	Δ	
O: Essentia	Illy safe △: Some effect	cts may occur. X: Effe	cts will o	ccur.	

When the above factors are present, or there is some doubt, use a metal bowl for safety.

Selection

1. Use a check valve (AKM series) to prevent back flow of the lubricant when redirecting the air flow before the lubricator.

Maintenance

△Warning

- For the AL10-A/AL20-A, replenish the lubricant after releasing the inlet pressure. Lubrication cannot take place under a pressurised condition.
- 2. Adjustment of the oil regulating valve for models from the AL20-A to AL60-A should be carried out manually. Turning it counterclockwise increases the dripping amount, and turning it clockwise reduces the dripping amount. The use of tools etc. can result in damage to the unit. From the fully closed position, three rotations will bring it to the fully open position. Do not rotate it any further than this. Note that the numbered scale markings are guidelines for adjusting the position, and not indicators of the dripping amount.

∧Caution

1. Check the dripping amount once a day. Drip failure can cause damage to the components that need lubrication.

Mounting/Adjustment

∧Caution

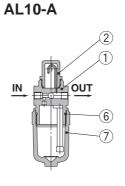
 When the bowl is installed on the AL30-A to AL60-A, install them so that the lock button lines up to the groove of the front (or the back) of the body to avoid drop or damage of the bowl.

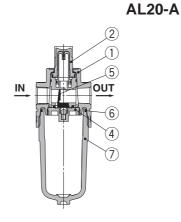


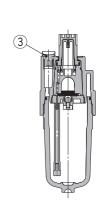


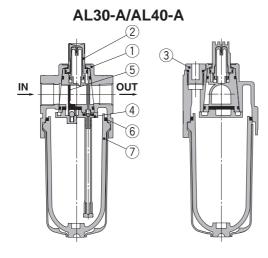
AL10-A to AL60-A Series

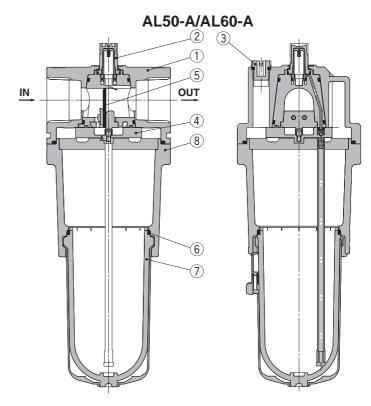
Construction











Component Parts

No.	Description	Material Model		Colour
1	Body	Zinc die-cast	AL10-A	White
1	Бойу	Aluminium die-cast	AL20-A to AL60-A	vvriite
8	Housing	Aluminium die-cast	AL50-A/AL60-A	White

Replacement Parts

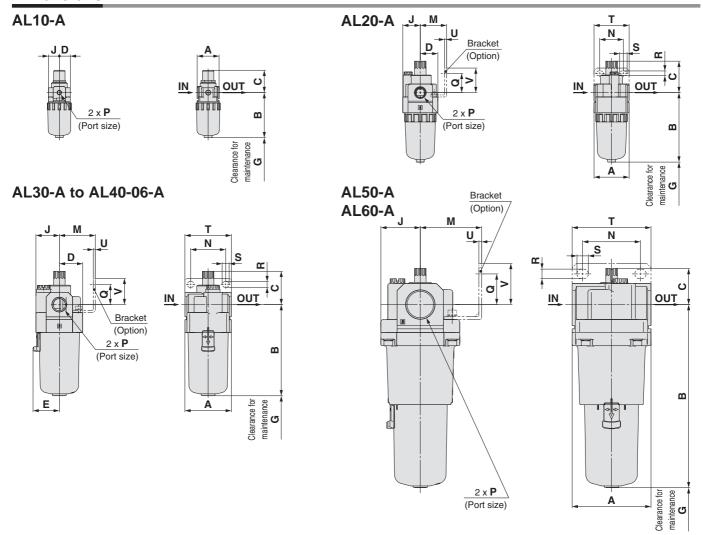
No.	Description	Material		Part no.								
INO.			AL10-A	AL20-A	AL30-A	AL40-A	AL40-06-A	AL50-A	AL60-A			
2	Sight dome assembly	Polycarbonate	AL10P-080AS	AS AL20P-080AS								
3	Lubrication plug assembly	_	_	AL22P-060AS	AL32P-060AS	AL42P-060AS						
4	Bumper retainer assembly	_	_	AL20P-030AS	AL30P-030AS	AL40P-030AS		AL50P-030AS	AL60P-030AS			
5	Bumper (assembly)	Synthetic resin	_	AL20P-040S	AL30P-040S	AL40F	P-040S	AL50P-040AS	AL60P-040AS			
6	Bowl seal	NBR	C1SFP-260S	C2SFP-260S	C32FP-260S	C42FP-260S						
7	Bowl assembly *1	Polycarbonate	C1SL-A	C2SL-A	C3SL-A	C4SL-A						

^{*1 ·} Bowl seal is included for the AL20-A to AL60-A. Please consult with SMC separately for psi and °F unit display specifications. · Bowl assembly for the AL30-A to AL60-A models comes with a bowl guard (Material: Polycarbonate).



AB

Dimensions



Applicable model			AL30-A to AL60-A	
Optional/Semi-standard specifications	With drain cock	Metal bowl	Metal bowl with drain cock	Metal bowl
Dimensions	B	a	B	B

Applicable model	AL30-A to AL60-A									
Optional/Semi-standard specifications	With drain cock	Metal bowl with level gauge	Metal bowl with drain cock	Metal bowl with level gauge, with drain cock	Drain cock with barb fitting					
Dimensions	a	В	a a	B	Barb fitting applicable tubing: T0604					

											Optio	onal sp	ecifica	ation	s		Semi-standard specifications					
Model		Standard specifications						Bracket mount				With drain cock	With barb fitting	Metal bowl	Metal bowl with drain cock	Metal bowl with level gauge	Metal bowl with level gauge, with drain cock					
	Р	Α	В	С	D	Е	G	J	М	N	Q	R	S	Т	U	٧	В	В	В	В	В	В
AL10-A	M5 x 0.8	25	51.5	25.5	12.5	_	35	12.5	_	_	_	_	_	_	_	_	59.9	_	56.3	59.3	_	
AL20-A	1/8, 1/4	40	79.3	35.9	20	_	60	20	30	27	22	5.4	8.4	40	2.3	28	87.7	_	84.5	87.5	_	_
AL30-A	1/4, 3/8	53	104.1	38.1	26.7	30	80	26.7	41	35	23	6.5	13	53	2.3	30	115.1	123.6	104.1	117.6	124.1	137.6
AL40-A	1/4, 3/8, 1/2	70	136.1	39.8	35.5	38.4	110	35.5	50	52	26	8.5	12.5	70	2.3	35	147.1	155.6	136.1	149.6	156.1	169.6
AL40-06-A	3/4	75	138.1	37.8	35.5	38.4	110	35.5	50	52	25	8.5	12.5	70	2.3	34	149.1	157.6	138.1	151.6	158.1	171.6
AL50-A	3/4, 1	90	209.1	41.2	45	_	110	45	70	66	35	11	13	90	3.2	47	220.1	228.6	209.1	222.6	229.1	246.2
AL60-A	1	95	223.1	44.7	47.5	_	110	47.5	70	66	35	11	13	90	3.2	47	234.1	242.6	223.1	236.6	243.1	256.6

Semi-standard Specifications: 1000 cm³ Tank

Lubricator

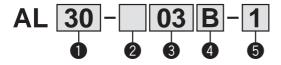
L30 to AL60

Available for previous models (AL30 to 60).

Symbol



How to Order



- \bullet Option/Semi-standard: Select one each for \boldsymbol{a} to $\boldsymbol{c}.$
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric

Example) AL30-03B-1R

					(
		Symbol	Description		Body	size	
				30	40	50	60
		_	Rc	•	•	•	•
2	Pipe thread type	N	NPT	•	•	•	•
		F	G	•	•	•	•
		+				·	
		02	1/4	•	•	_	_
		03	3/8	•	•	_	_
3	Port size	04	1/2	_	•	_	_
		06	3/4		•		_
		10	1	_	_		
		+					
	Option (Mounting)	_	Without mounting option		•		
	Option (Mounting)	B*1	With bracket		•		
		+					
	a Bowl *2	1	1000 cm ³ tank		•		
		+		_			
	b Flow direction	_	Flow direction: Left to right		•		
6	i low direction	R	Flow direction: Right to left		•		
		+					
	c Pressure unit	_	Name plate in SI units: MPa		•		
	T ressure unit	Z *3	Name plate in imperial units: psi	O*4	○*4	○*4	O*4

^{*1} Option B is not assembled and supplied loose at the time of shipment.

Semi-standard/Bowl Assembly Part No.

Semi-standard	specifications		Model								
	With	switch									
Bowl material	Lowest limit ON	Lowest limit OFF	AL30	AL40	AL40-06	AL50	AL60				
1000 cm ³ tank (Metal bowl with level gauge)	_	_			121538-1A						

[·] It is not possible to switch from a polycarbonate, nylon or metal bowl, or from a metal bowl with a level gauge to a 1000 cm3 tank. Please order the product separately.



^{*2} The standard bowl is a metal bowl with level gauge and lubricant discharge function. The material of the sight dome is polycarbonate resin. For chemical resistance, refer to the chemical data on page 463.

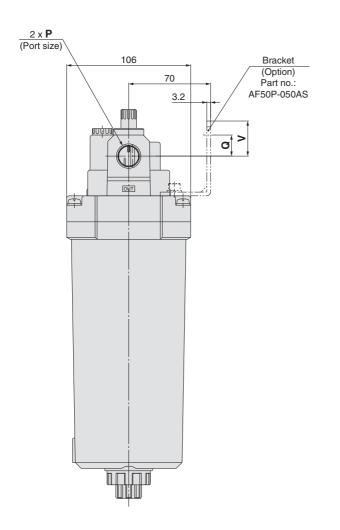
*3 For pipe thread type: M5, NPT. This product is for overseas use only according to the new Measurement Act. (The SI unit type is provided for use in Japan.)

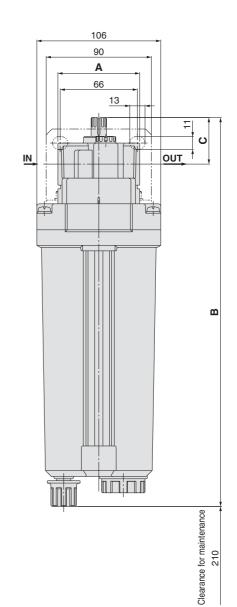
^{*4} O: For pipe thread type: M5, NPT only

[·] When adding a float switch to the 1000 cm³ tank, select IS400-1 or IS400-2.

[·] For other replacement parts, refer to the Operation Manual

Semi-standard specifications: 1000 cm³ tank





Model	Р	Α	В	С	Bracke	t mount	Float switch	
Wodel		_ ^			Q	V	В	
AL30	1/4, 3/8	53	324	38	25	_	374	
AL40	1/4, 3/8, 1/2	70	333	40	18	_	383	
AL40-06	3/4	75	333	38	16	_	383	
AL50	3/4, 1	90	332	41	35	47	382	
AL60	1	95	335	45	35	47	385	

ΑF

AB

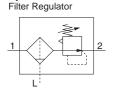
Modular Type Filter Regulator AW Series

Filter Regulator AW Series		Model	Port size	Set pressure	Options
		AW10-A	M5 x 0.8	0.05 to 0.7 MPa 0.02 to 0.2 MPa	Bracket Round type pressure gauge Set nut (for panel mount)*1
		AW20-B	1/8, 1/4		Bracket Set nut (for panel mount)*1
		AW30-B	1/4, 3/8		Float type auto drain
	N. 5.15 E.	AW40-B	1/4, 3/8, 1/2	0.05 to 0.85 MPa 0.02 to 0.2 MPa	Square embedded type pressure gauge Digital pressure switch
	4	AW40-06-B	3/4		Round type pressure gauge
		AW60-B	3/4, 1		Bracket Square embedded type pressure gauge Digital pressure switch
Pages 93 to 111					Round type pressure gauge

*1 Interchangeable with the previous AW series and panel mounting dimensions.

Filter Regulator AW10-A

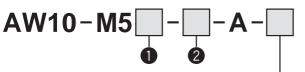
Symbol



• Integrated filter and regulator units save space and require less piping.

How to Order

Refer to page 95 for size 20 to 60.



- Option/Semi-standard: Select one each for a to h.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.

Example) AW10-M5CG-12NR-A

Made to order

(Refer to page 108 for details.)

				Symbol	Description					
		а	Mounting	<u>—</u> В Н	Without mounting option With bracket With set nut (for panel mount)					
	*			+	That so hat (or pane) mounty					
0	Option *1	b	Float type auto drain		Without auto drain N.C. (Normally closed) Drain port is closed when pressure is not applied.					
				+	то (то					
		_	5	_	Without pressure gauge					
		С	Pressure gauge	G *3	Round type pressure gauge (without limit indicator)					
	+									
		d	Set pressure *4	_	0.05 to 0.7 MPa setting					
		u	oct pressure	1	0.02 to 0.2 MPa setting					
				+						
				_	Polycarbonate bowl					
		е	Bowl *5	2	Metal bowl					
	Semi-standard			6	Nylon bowl					
	ng			+						
2	-sta	f	Exhaust mechanism		Relieving type					
	emi			N	Non-relieving type					
	Š			+						
		g	Flow direction		Flow direction: Left to right					
		3		R	Flow direction: Right to left					
				+						
		h	Pressure unit	<u> </u>	Name plate, caution plate, and pressure gauge in SI units: MPa					
				Z	Name plate, caution plate, and pressure gauge in imperial units: psi, °F					

- *1 Options B, G, H are not assembled and supplied loose at the time of shipment.
- *2 When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl. Releasing the residual condensate before ending operations for the day is recommended.
- *3 A 1.0 MPa pressure gauge will be fitted. It is not assembled and supplied loose at the time of shipment.

 *4 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.
- *5 Refer to chemical data on page 98 for chemical resistance of the bowl.





AW10-A

Standard Specifications

Port size	M5 x 0.8			
Pressure gauge port size	1/16			
Fluid	Air			
Ambient and fluid temperature	-5 to 60 °C (with no freezing)			
Proof pressure	1.5 MPa			
Maximum operating pressure	1.0 MPa			
Set pressure range	0.05 to 0.7 MPa			
Nominal filtration rating	5 μm			
Drain capacity [cm³]	2.5			
Bowl material	Polycarbonate			
Construction	Relieving type			
Weight [kg]	0.09			

Options/Part No.

Bracket assembly *1	AR12P-270AS
Set nut	AR12P-260S
Round type pressure gauge *2	G27-10-R1

^{*1} Assembly of a bracket and set nuts

Bowl Assembly/Part No.

Bowl material	Drain discharge mechanism	Drain port	Bowl part no.
Polycarbonate	Manual	With drain cock	C1SF-A
Folycarbonate	Automatic (Auto drain) *1	Normally closed (N.C.)	AD17-A
Nylon	Manual	With drain cock	C1SF-6-A
Nylon	Automatic (Auto drain) *1	Normally closed (N.C.)	AD27-6-A
Metal	Manual	With drain cock	C1SF-2-A
IVIELAI	Automatic (Auto drain) *1	Normally closed (N.C.)	AD17-2-A

^{*2 1.0} MPa pressure gauge

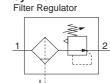
^{*1} Minimum operating pressure: 0.1 MPa

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

Filter Regulator

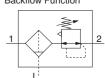
AW20-B to AW60-B

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



Symbol

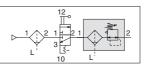
Filter Regulator with Backflow Function



- Integrated filter and regulator units save space and require less piping.
- With the backflow function, it incorporates a mechanism to exhaust the air pressure in the outlet side reliably and quickly.

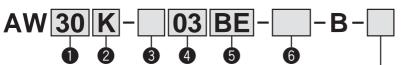
Example)

When the air supply is cut off and releasing the inlet pressure to the atmosphere, the residual pressure release of the outlet side can be ensured for a safety purpose.



How to Order

Refer to page 93 for size 10.



- Option/Semi-standard: Select one each for **a** to **i**.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order. Example) AW30K-03BE-1N-B

Made to order

					◆ Made to orde (Refer to pages 1		details.)			
					· · · ·		1			
	Ì		_	Symbol	Description	Body size				
					·	20	30	40	60	
A		Wi	th backflow	_	Without backflow function	•	•	•	•	
2			function	K *1	With backflow function	•	•	•	•	
				+						
				_	Rc	•	•	•	•	
3	Pipe thread type N*2 F*3				NPT		•	•	•	
					G		•			
				+						
				01	1/8	•	_	_	_	
				02	1/4	•	•	•	_	
4			Port size	03	3/8	_	•	•	_	
			. 511 0120	04	1/2			•	_	
				06	3/4			•	•	
				10	1			_	•	
				+		_				
			a Mounting		Without mounting option		•	•	•	
		а		B *5	With bracket		•	•	•	
				Н	With set nut (for panel mount)				_	
				+	Man					
		b	Float type auto drain	-	Without auto drain		•	•	•	
	Option *4			C*6	N.C. (Normally closed) Drain port is closed when pressure is not applied.	•	•	•	•	
				D *7	N.O. (Normally open) Drain port is open when pressure is not applied.	_		•	•	
6				+	MPdl and management					
			Pressure gauge *8	E	Without pressure gauge		•	•		
				G	Square embedded type pressure gauge (with limit indicator)	•				
				M	Round type pressure gauge (with limit indicator) Round type pressure gauge (with colour zone)					
		c		E1	Output: NPN output, Electrical entry: Wiring bottom entry					
			Digital pressure switch *9	E2	Output: NPN output, Electrical entry: Wiring bottom entry Output: NPN output, Electrical entry: Wiring top entry					
				E3	Output: PNP output, Electrical entry: Wiring top entry Output: PNP output, Electrical entry: Wiring bottom entry				•	
				E4	Output: PNP output, Electrical entry: Wiring bottom entry				•	
				+	Output: 1 Wi Output, Electrical entry. Willing top entry					
			Set		0.05 to 0.85 MPa setting					
		d	pressure *10	1	0.02 to 0.2 MPa setting					
			processing	+	old to old in a county					
					Polycarbonate bowl		•	•	•	
	_			2	Metal bowl	•	•	•	•	
	Semi-standard	е	44	6	Nylon bowl	•	•	•	•	
			Bowl *11	8	Metal bowl with level gauge	_	•	•	•	
6				C	With bowl guard	•	*12	*12	*12	
				6C	With bowl guard (Nylon bowl)	•	*13	*13	*13	
	Ñ			+	- ' '					
				_	With drain cock	•	•	•	•	
			Droin nort *14	J*15	Drain guide 1/8	•	_	_	_	
		f	Drain port *14	J*15	Drain guide 1/4	_	•	•	•	
				W *16	Drain cock with barb fitting	_	•	•	•	
95					_					

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



AW20-B, AW20K-B AW40-B, AW40K-B

	\	_					0)	
				Symbol	Description		Body	size	
						20	30	40	60
		a	Exhaust	_	Relieving type	•	•	•	•
	ard	g	mechanism	N	Non-relieving type	•	•	•	•
				+					
	tandard	h	Flow direction	_	Flow direction: Left to right	•	•	•	•
6	sta	"	riow direction	R	Flow direction: Right to left	•	•	•	•
	Ë			+					
	Semi-st			_	Name plate, caution plate for bowl, and pressure gauge in SI units: MPa	•	•	•	•
		i	Pressure unit	Z *17	Name plate, caution plate for bowl, and pressure gauge in imperial units: psi, °F	○*19	○*19	○*19	○*19
				ZA *18	Digital pressure switch: With unit selection function	△*20	△*20	△*20	△*20
*1 S	et the	inlet	pressure to at least	0.05 MPa	higher than *7 If the compressor is small (0.75 kW, discharge flow is	*14 The comb	ination of float ty	/pe auto drain: (C and D is no

- the set pressure.
- *2 Drain guide is NPT 1/8 (applicable to the AW20(K)-B) and NPT 1/4 (applicable to the AW30(K)-B to AW60(K)-B). The auto drain port comes with Ø 3/8" One-touch fitting (applicable to the AW30(K)-B to AW60(K)-B)
- *3 Drain guide is G 1/8 (applicable to the AW20(K)-B) and G 1/4 (applicable to the AW30(K)-B to AW60(K)-B).
- *4 Options B, G, H, M are not assembled and supplied loose at the time of shipment.
- *5 Assembly of a bracket and set nuts (applicable to the AW20(K)-B to AW40(K)-B). Including 2 mounting screws for the AW60(K)-B
- *6 When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl. Releasing the residual condensate before ending operations for the day is recommended.
- less than 100 l/min[ANR]), air leakage from the drain cock may occur during start of operations. N.C. type is recommended.
- *8 When the pressure gauge is attached, a 1.0 MPa pressure gauge will be fitted for standard (0.85 MPa) type. 0.4 MPa pressure gauge for 0.2 MPa type
- *9 When choosing with H (panel mount), the installation space for lead wires will not be secured. In this case, select "wiring top entry" for the electrical entry.
- *10 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.
- *11 Refer to chemical data on page 98 for chemical resistance of the bowl.
- *12 A bowl guard is provided as standard equipment (polycarbonate)
- *13 A bowl guard is provided as standard equipment (nvlon).

- available.
- *15 Without a valve function
- *16 The combination of metal bowl: 2 and 8 is not available.
- *17 For pipe thread type: NPT. Cannot be used with M: Round type pressure gauge (with colour zone). Available by request for special. The digital pressure switch will be equipped with the unit selection function, setting to psi initially.
- *18 For options: E1, E2, E3, E4.
- *19 O: For pipe thread type: NPT only
- *20 A: Select with options: E1, E2, E3, E4.

Standard Specifications

Model	AW20-B	AW30-B	AW40-B	AW40-06-B	AW60-B				
Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1				
Pressure gauge port size *1		1/8							
Fluid		Air							
Ambient and fluid temperature *2		-5 to 60 °C (with no freezing)							
Proof pressure		1.5 MPa							
Maximum operating pressure	1.0 MPa								
Set pressure range	0.05 to 0.85 MPa								
Nominal filtration rating	5 μm								
Drain capacity [cm³]	8 25 45								
Bowl material	Polycarbonate								
Bowl guard	Semi-standard (Steel) Standard (Polycarbonate)								
Construction		Relieving type							
Weight [kg]	0.20	0.36	0.66	0.72	2.05				

- *1 Pressure gauge connection threads are not available for F.R.L. unit with a square embedded type pressure gauge or with a digital pressure switch.
- *2 -5 to 50 °C for the products with the digital pressure switch.



AW20-B to AW60-B Series AW20K-B to AW60K-B Series

Options/Part No.

Optional specifications			Model						
	Optional spe	Cilications	AW20(K)-B	AW30(K)-B	AW40(K)-B	AW40(K)-06-B	AW60(K)-B		
Bracket assembly *1			AW23P-270AS	AR33P-270AS	AR43P-270AS		AW62P-270AS		
Set nut			AR23P-260S	AR33P-260S	AR43P-260S		*2		
Round type *3		Standard	G36-10-□01						
	Round type	0.02 to 0.2 MPa setting	G36-4	4-□01	G46-4-□01				
Pressure	Round type *3	Standard	G36-10)-□01-L	G46-10-□01-L				
gauge	(with colour zone)	0.02 to 0.2 MPa setting	g G36-4-□01-L G46-4-□01-L						
	Square embedded	Standard	GC3-10AS [GC3P-010AS (Pressure gauge cover only)]						
	type *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)]						
Digital pressure switch *5 PNP output, Wiring top entry PNP output, Wiring bottom entry PNP output, Wiring top entry		NPN output, Wiring top entry	y ISE35-R-25-MLA [ISE35-R-25-M (Switch body only)]						
		PNP output, Wiring bottom entry		ISE35-N-65-MLA	[ISE35-N-65-M (S	Switch body only)]			
		ISE35-R-65-MLA [ISE35-R-65-M (Switch body only)]							

- *1 Assembly of a bracket and set nuts. Including 2 mounting screws for the AW60(K)-B
- *2 Please consult with SMC regarding the set nuts for the AW60(K)-B.
- *3 \square 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 psi unit specifications.
- *4 Including one 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 screw (2 pcs.) are attached.
 - []: Switch body only. (Regarding how to order the digital pressure switch, refer to the Web Catalogue.)

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 No.

David	Drain			Model					
Bowl material	discharge mechanism	Drain port	Other	AW20-B	AW30-B	AW40-B	AW40-06-B	AW60-B	
		With drain cock	_	C2SF-A	_				
		Willi dialii cock	With bowl guard	C2SF-C-A	C3SF-A		C4SF-A		
	Manual	Drain cock with barb fitting	With bowl guard	_	C3SF-W-A		C4SF-W-A		
Polycarbonate		With drain guide	_	C2SF□-J-A	_	_			
olycarbonale		(without valve function)	With bowl guard	C2SF□-CJ-A	C3SF□-J-A		C4SF□-J-A		
	Automatic *1 (Auto drain)	Normally closed (N.C.)	_	AD27-A	_		_		
			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	_	_			
		Willi dialii cock	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 (without valve function)	_	C2SF□-6J-A	_	_			
INVIOIT			With bowl guard	C2SF□-6CJ-A	C3SF□-6J-A	C4SF□-6J-A			
	Automatic *1 (Auto drain)	Name all calacad (N.C.)	_	AD27-6-A	_	_			
		Normally closed (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		
	Manual	With drain cock	_	C2SF-2-A	C3SF-2-A				
		With drain cock	With level gauge	_	C3LF-8-A	C4LF-8-A			
		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		
ivietal	Automatic *1 (Auto drain)	Normally closed (N.C.)	_	AD27-2-A	AD37□-2-A	AD47□-2-A			
		Normally closed (N.C.)	With level gauge	_	AD37□-8-A	AD47□-8-A			
		Normally open (N.O.)	_	_	AD38□-2-A	AD48□-2-A			
		Normally open (N.O.)	With level gauge	_	AD38□-8-A	AD48□-8-A			

^{*1} Minimum 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). 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, —: Ø 10, N: Ø 3/8") Please consult with SMC separately for psi and °F unit display specifications.

Specific Product Precautions

I Be sure to read this before handling the products. Refer to the back cover for safety instructions. For F.R.L. units I precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual", http://www.smc.eu

Design/Selection

∕ Warning

- 1. Residual pressure disposal (outlet pressure removal) is not possible for the AW20-B to AW60-B even though the inlet pressure is exhausted. When the residual pressure disposal is performed, use the filter regulator with backflow function (AW20K-B to AW60K-B).
- 2. The standard bowl for the air filter, filter regulator, and lubricator, as well as the sight dome for the lubricator are made of polycarbonate. Do not use in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.

Effects of atmosphere of organic solvents and chemicals, and where these elements are likely to adhere to the equipment. Chemical data for substances causing degradation (Reference)

			Mate	erial
Type	Chemical name	Application examples	Polycarbonate	Nylon
Acid	Hydrochloric acid Sulfuric acid, Phosphoric acid Chromic acid	Acid washing liquid for metals	Δ	×
Alkaline	Sodium hydroxide (Caustic soda) Potash Calcium hydroxide (Slack lime) Ammonia water Carbonate of soda	Degreasing of metals Industrial salts Water-soluble cutting oil	×	0
Inorganic salts	Sodium sulfide Potassium nitrate Sulfate of soda	_	×	Δ
Chlorine solvents	Carbon tetrachloride Chloroform Ethylene chloride Methylene chloride	Cleansing liquid for metals Printing ink Dilution	×	Δ
Aromatic series	Benzene Toluene Paint thinner	Coatings Dry cleaning	×	Δ
Ketone	Acetone Methyl ethyl ketone Cyclohexane	Photographic film Dry cleaning Textile industries	×	×
Alcohol	Ethyl alcohol IPA Methyl alcohol	Antifreeze Adhesives	Δ	×
Oil	Gasoline Kerosene	_	×	0
Ester	Phthalic acid dimethyl Phthalic acid diethyl Acetic acid	Synthetic oil Anti-rust additives	×	0
Ether	Methyl ether Ethyl ether	Brake oil additives	×	0
Amino	Methyl amino	Cutting oil Brake oil additives Rubber accelerator	×	×
Others	Thread-lock fluid Seawater Leak tester	_	×	Δ

When the above factors are present, or there is some doubt, use a metal bowl

Maintenance

\land Warning

1. Replace the element every 2 years or when the pressure drop becomes 0.1 MPa, whichever comes first, to prevent damage to the element.

Mounting/Adjustment

∕!\ Warning

- 1. Set the regulator while verifying the displayed values of the inlet and outlet pressure gauges. Turning the regulator knob excessively can cause damage to the internal parts.
- 2. Do not use tools on the pressure regulator knob as this may cause damage. It must be operated manually.

Caution

- 1. Be sure to unlock the knob before adjusting the pressure and lock it after setting the pressure. Failure to follow this procedure can cause damage to the knob and the outlet pressure may fluctuate.
 - Pull the pressure regulator knob to unlock. (You can visually verify this with the "orange mark" that appears in the gap.)
 - · Push the pressure regulator knob to lock. When the knob is not easily locked, turn it left and right a little and then push it (when the knob is locked, the "orange mark", i.e., the gap will disappear).
- 2. A knob cover is available to prevent careless operation of the knob. Refer to page 112 for details.
- 3. When the bowl is installed on the AW30-B to AW60-B, install them so that the lock button lines up to the groove of the front (or the back) of the body to avoid drop or damage of the howl.



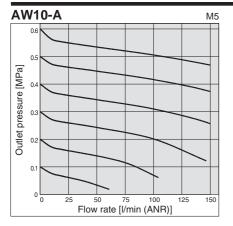


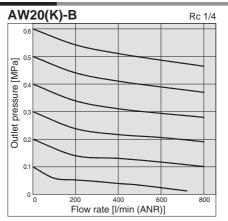


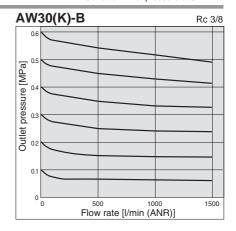
AW10-A Series AW20-B to AW60-B Series AW20K-B to AW60K-B Series

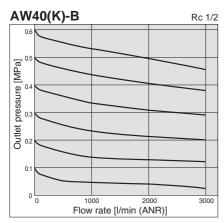
Flow Rate Characteristics (Representative values)

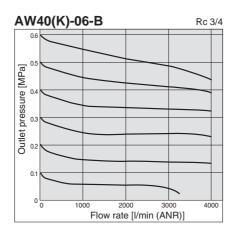
Condition: Inlet pressure of 0.7 MPa

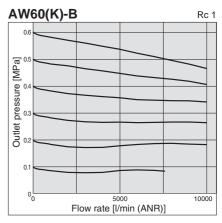






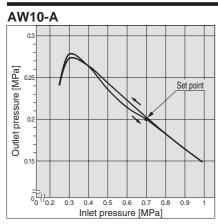


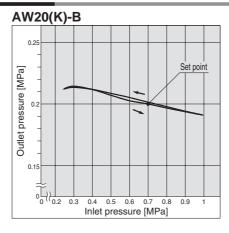


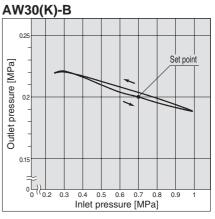


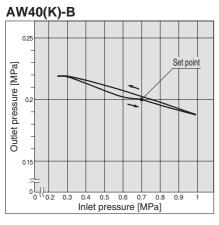
Pressure Characteristics (Representative values)

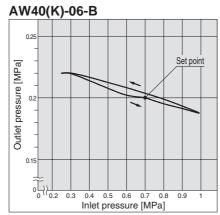
Conditions: Inlet pressure of 0.7 MPa, Outlet pressure of 0.2 MPa, Flow rate 20 I/min (ANR)

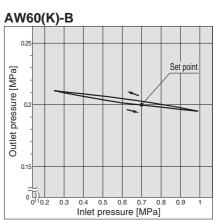






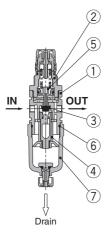






Construction

AW10-A



Component Parts

No.	Description	Material	Colour		
1	Body	Zinc die-cast	White		
2	Bonnet	Polyacetal	White		

Replacement Parts

No.	Description	Material	Part no.		
3	Valve	HNBR	AR10P-090S		
4	Filter element	Non-woven fabric	AF10P-060S		
5	Piston assembly	Polyacetal	AR10P-150AS		
6	Bowl O-ring	NBR	C1SFP-260S		
7	Bowl assembly	Polycarbonate	C1SF-A		

Working Principle (Filter Regulator with Backflow Function)

AW10-A



When the inlet pressure is higher than the regulating pressure, the check valve operates as a normal regulator (Figure 1). When the inlet pressure is shut off and exhausted, any inlet pressure applied to the valve ① will be lost. The force for seating the valve ① is the valve spring force ② only. When the valve ① is opened using the outlet force, the outlet pressure will be exhausted at the inlet side (Figure 2). When the set pressure is 0.15 MPa or less, the valve ① may not open due to the valve spring ② force.

AW20-B to AW60-B Series AW20K-B to AW60K-B Series

Construction

AW20(K)-B

AW30(K)-B/AW40(K)-B

AW60(K)-B

Drain

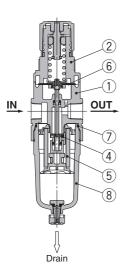
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(2)

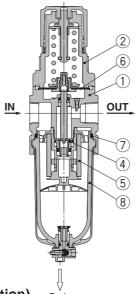
OUT

(4) (3)

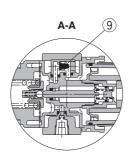
(8)











Component Parts

No.	Description	Material	Model	Colour		
1	Body	Aluminium die-cast	AW20-B to AW60-B	White		
2	Bonnet	Polyacetal	AW20-B to AW40-B	White		
2	Bonnet	Aluminium die-cast	AW60-B	White		
3	Housing	Aluminium die-cast	AW60-B	White		

Replacement Parts

No.	Description	Material -			Part no.				
INO.	Description	ivialeriai	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	AW60P-090AS			
5	Filter element	Non-woven fabric	AF20P-060S	AF30P-060S	AF40F	AW60P-060S			
6	Diaphragm assembly	Weatherable NBR	AR20P-150AS	AR30P-150AS	AR40P	AR50P-150AS			
7	Bowl seal	NBR	C2SFP-260S	C32FP-260S		C42FP-260S			
8	Bowl assembly *1	Polycarbonate	C2SF-A	C3SF-A*2	C4SF-A*2				
9	Check valve assembly *3	_	AR23KP-020AS						

^{*1} Bowl assembly includes the bowl O-ring.

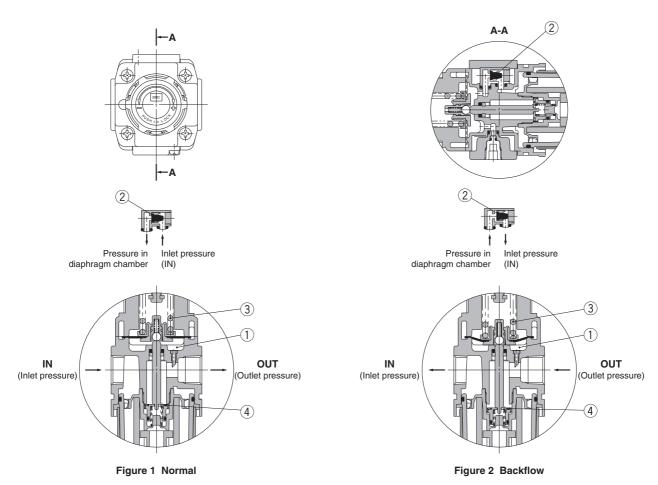
Please consult with SMC separately for psi and °F unit display specifications.

^{*2} Bowl assembly for the AW30(K)-B to AW60(K)-B models comes with a bowl guard (Material: Polycarbonate).
*3 Check valve assembly is applicable for a filter regulator with backflow function (AW20(K)-B to AW60(K)-B) only. Assembly of a check valve cover, check valve body assembly and 2 mounting screws



Working Principle (Filter Regulator with Backflow Function)

AW20K-B to AW60K-B



When the inlet pressure is higher than the regulating pressure, the check valve ② closes and operates as a normal regulator (Figure 1). When the inlet pressure is shut off and released, the check valve ② opens and the pressure in the diaphragm chamber ① is released into the inlet side (Figure 2). This lowers the pressure in the diaphragm chamber ① and the force generated by the spring ③ lifts the diaphragm. The valve 4 opens through the stem, and the outlet pressure is released to the inlet side (Figure 2).



AW10-A Series AW20-B to AW60-B Series AW20K-B to AW60K-B Series

Dimensions

AW10-A

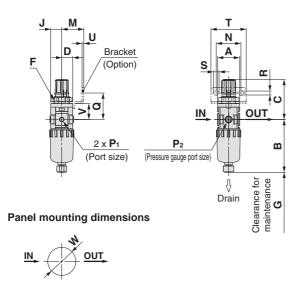
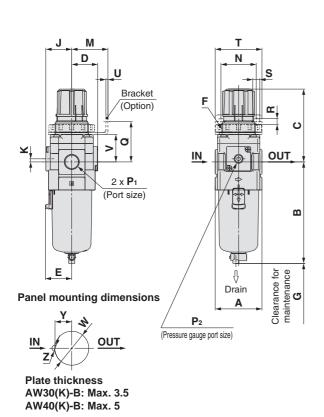


Plate thickness AW10-A: Max. 3.5

AW30(K)-B to AW40(K)-06-B



AW20(K)-B

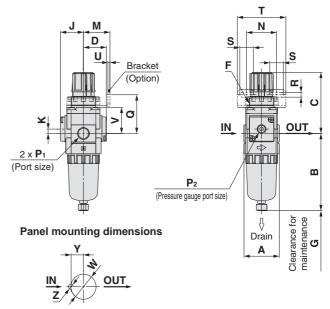
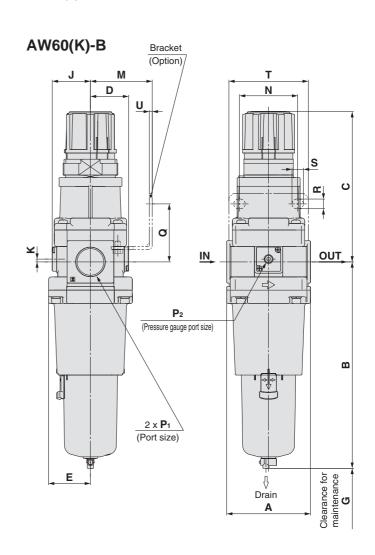
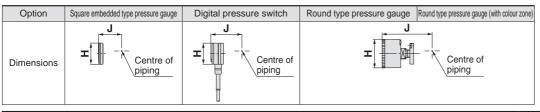


Plate thickness AW20(K)-B: Max. 3.5



Filter Regulator AW10-A Series Filter Regulator AW20-B to AW60-B Series Filter Regulator with Backflow Function AW20K-B to AW60K-B Series



Applicable model	AW10-A/A	W20(K)-B	AW20	(K)-B	AW30(K)-B to AW60(K)-B	
Optional/Semi-standard specifications	With auto drain (N.C.)	Metal bowl	With drain guide	Metal bowl with drain guide	With auto drain (N.O./N.C.)	
Dimensions	M5 x 0.8	a	Width across 1/8 flats 14	Width across flats 14	N.O.: Black N.C.: Grey Thread type/Rc, G: Ø 10 One-touch fitting Thread type/NPT: Ø 3/8" One-touch fitting	

Applicable model			AW30	(K)-B to AW60(K)-B		
Optional/Semi-standard specifications	Metal bowl	Metal bowl with drain guide	Metal bowl with level gauge	Metal bowl with level gauge, with drain guide	With drain guide	Drain cock with barb fitting
Dimensions	<u>a</u>	Width across flats 17	a v	Width across flats 17	Width across flats 17	Barb fitting applicable tubing: T0604

									Optional specifications										
Model		Standard specifications										Square embedded type pressure gauge		Digital pressure switch		Round type pressure gauge		Round type pressure gauge (with colour zone)	
	P 1	P ₂	Α	В	C*1	D	Е	F	G	J	K	Н	J	Н	J	Н	J	Н	J
AW10-A	M5 x 0.8	1/16	25	59.9	47.4	12.5	_	M18 x 1	25	12.5	_	_	_	_	_	Ø 26	26	_	_
AW20(K)-B	1/8, 1/4	1/8	40	87.6	72.4	26	_	M28 x 1	40	26	5	□28	27	□27.8	37.5	Ø 37.5	62.5	Ø 37.5	63.5
AW30(K)-B	1/4, 3/8	1/8	53	115.1	85.6	29.4	30	M38 x 1.5	55	29.4	3.5	□28	30.4	□27.8	40.9	Ø 37.5	65.9	Ø 37.5	66.9
AW40(K)-B	1/4, 3/8, 1/2	1/8	70	147.1	91.7	37.3	38.4	M42 x 1.5	80	37.3	1.5	□28	38.3	□27.8	48.8	Ø 42.5	74.8	Ø 42.5	74.8
AW40(K)-06-B	3/4	1/8	75	149.1	93.2	37.3	38.4	M42 x 1.5	80	37.3	1.2	□28	38.3	□27.8	48.8	Ø 42.5	74.8	Ø 42.5	74.8
AW60(K)-B	3/4, 1	1/8	95	234.1	175.5	43.3	47.5	_	20	43.3	3.2	□28	44.3	□27.8	61.3	Ø 42.5	80.8	Ø 42.5	80.8

					Opt	ional s	pecific	ations					Semi-standard specifications									
Model			Brad	cket m	ount				Panel mount				Panel mount			With auto drain	With barb fitting	With drain guide	Metal bowl	Metal bowl with drain guide	Metal bowl with level gauge	Metal bowl with level gauge, with drain guide
	М	N	Q	R	S	Т	U	٧	W	Υ	Z	В	В	В	В	В	В	В				
AW10-A	25	28	30	4.5	6.5	40	2	18	18.5	_	_	77.9	_	_	59.3	_	_	_				
AW20(K)-B	30	34	43.9	5.4	15.4	55	2.3	29.7	28.5	14	6	104.9	_	91.4	87.4	93.9	_	_				
AW30(K)-B	41	40	45.8	6.5	8	53	2.3	31.1	38.5	19	7	156.8	123.6	121.9	117.6	122.1	137.6	142.1				
AW40(K)-B	50	54	54	8.5	10.5	70	2.3	35.5	42.5	21	7	186.9	155.6	153.9	149.6	154.1	169.6	174.1				
AW40(K)-06-B	50	54	55.5	8.5	10.5	70	2.3	37	42.5	21	7	188.9	157.6	155.9	151.6	156.1	171.6	176.1				
AW60(K)-B	70	66	65.8	11	13	90	3.2	_		_	_	273.9	240.9	242.6	236.6	241.1	256.6	261.1				

^{*1} The dimension of C is the length when the filter regulator knob is unlocked.



AW30-B to AW60-B Filter Regulator **Made to Order**



Please contact SMC for detailed dimensions, specifications and lead times.

① Special Temperature Environment

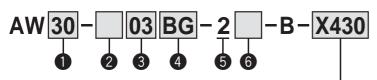
Special materials are used in the manufacturing of seals and resin parts to allow them to withstand various temperature conditions in cold or tropical (hot) climates.

Specifications

Made-to-	order part no.	-X430	-X440		
Environn	nent	Low temperature	High temperature		
Ambient to	emperature [°C]	-30 to 60	-5 to 80		
Fluid tem	perature [°C]	-5 to 60 (with	no freezing)		
Material	Rubber parts	Special NBR	FKM		
Wateriai	Main parts	Metal (Aluminiu	m die-cast, etc.)		

Applicable Model

Model	AW30-B	AW40-B	AW40-06-B	AW60-B
Port size	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1



For high/low temperature

	Low temperature
X440	High temperature

- 10
- 111



AW30-03-2-B-X440

- Option/Semi-standard: Select one each for a to g.
- · Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order. Example) AW30-03BG-2N-B-X430

	_					0	
	Symbo		Symbol	Description	Body size		
					30	40	60
_			_	Rc	•	•	•
Pipe thread type		N	NPT	•	•	•	
			F	G	•	•	•
			+				
			02	1/4	•	•	_
			03	3/8	•	•	
3		Port size	04	1/2	_	•	_
			06	3/4	_	•	•
			10	1	_	_	•
				· · · · · · · · · · · · · · · · · · ·			
				Without mounting option	•	•	•
*	a	Mounting	B*2	With bracket	•	•	•
Option*1			Н	With set nut (for panel mount)	•	•	_
	ا		+				
١٥	′ b	Pressure gauge		Without pressure gauge	•	•	•
		Troodure gaage	G *3	Round type pressure gauge (without limit indicator)	•	•	•
			+				
6		Bowl *4	2	Metal bowl	•	•	•
		•	+				
	l c	Set pressure		0.05 to 0.85 MPa setting	•	•	•
	١Ľ	301 p. 33333	1 *5	0.02 to 0.2 MPa setting	•	•	•
	I.—	•	+				
	l d	Drain port		With drain cock	•	•	•
p			J *6	Drain guide 1/4	•	•	•
9 Semi-standard		1	+				
\$ gr	l e	Exhaust mechanism		Relieving type	•	•	•
اج ا			N	Non-relieving type	•	•	•
Sen		1	+				
0,	l f	Flow direction		Flow direction: Left to right	•	•	•
			R	Flow direction: Right to left	•	•	•
	1—		+	[N 1			
	ll g	Pressure unit	—	Name plate, caution plate for bowl, and pressure gauge in SI units: MPa	0 **0	0 **0	0 40
			Z *7	Name plate, caution plate for bowl, and pressure gauge in imperial units: psi, °F	○*8	○*8	○*8

- *2 Assembly of a bracket and set nuts (AW30-B to AW40-B)
- Including 2 mounting screws for the AW60-B

 *3 Mounting thread for pressure gauge: 1/8, Pressure gauge type: G43

 *4 Only metal bowl 2 is available.
- *5 The only difference from the standard specifications is the spring for the regulator. It does not restrict the setting of 0.2 MPa or more. When the pressure gauge is attached, a 0.4 MPa pressure gauge will be fitted.
- *6 Without a valve function
- *7 For pipe thread type: NPT
- *8 O: For pipe thread type: NPT only



AW20-B to AW60-B Filter Regulator **Made to Order**





2 High Pressure

Strong materials are used in the manufacturing of filter regulators intended for high pressure operation. Also, construction modification allows a wider set pressure range.

Specifications

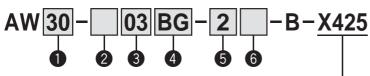
Made-to-order part no.	-X425
Proof pressure [MPa]	3.0
Maximum operating pressure [MPa]	2.0
Set pressure range [MPa]	0.1 to 1.7
Ambient and fluid temperature [°C]	-5 to 60 °C (with no freezing)

Applicable Model

_						
ſ	Model	AW20-B	AW30-B	AW40-B	AW40-06-B	AW60-B
ſ	Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1



AW30-03-2-B-X425



For high pressure

Option/Semi-standard: Select one each for a to f .	
Option/Semi-standard symbol: When more than one specification is	
required, indicate in alphanumeric order.	
Example) AW30-03BG- <u>2N</u> -B-X425	
	_

	_						1		
	_	_	_	Symbol	Description		Body		
				-,		20	30	40	60
=									
				_	Rc	•	•	•	•
2	Pipe thread type		thread type	N	NPT	•	•	•	•
				F	G	•	•	•	•
				+					
				01	1/8	•	_	_	_
				02	1/4	•	•	•	
3			Port size	03	3/8		•	•	_
9		FUIT SIZE		04	1/2	_	_	•	_
				06	3/4	_	_	•	•
				10	1	_	_	_	•
				+				<u> </u>	
				_	Without mounting option	•	•	•	•
	7	а	Mounting	B *2	With bracket	•	•	•	•
	٦			Η	With set nut (for panel mount)	•	•	•	_
4	Option *1			+					
	0	b	Pressure gauge	-	Without pressure gauge	•	•	•	•
		D	i ressure gauge	G *3	Round type pressure gauge (with limit indicator)	•	•	•	•
				+					
6			Bowl *4	2	Metal bowl	•	•	•	•
9			DOMI	8	Metal bowl with level gauge	_	•	•	•
				+					
			Exhaust mechanism	_	Relieving type	•	•	•	•
		С	Extraust intechanism	N	Non-relieving type	•	•	•	•
				+					
	ō			_	With drain cock	•	•	•	•
	dar	d	Drain port	J *5	Drain guide 1/8	•	_	_	_
	an			J3	Drain guide 1/4	_	•	•	•
6	Semi-standard			+					
	em		Flour direction	_	Flow direction: Left to right	•	•	•	•
	S	е	Flow direction	R	Flow direction: Right to left	•	•	•	•
				+					
		£	Drocoure unit	_	Name plate, caution plate for bowl, and pressure gauge in SI units: MPa	•	•	•	•
		'	Pressure unit	Z *6	Name plate, caution plate for bowl, and pressure gauge in imperial units: psi, °F	○*7	○*7	○*7	○*7

- *1 Options B, G, H are not assembled and supplied loose at the time of shipment. *2 Assembly of a bracket and set nuts (AW20-B to AW40-B)
- Including 2 mounting screws for the AW60-B
- *3 Mounting thread for pressure gauge: 1/8, Pressure gauge type: G46-20-□ *4 Only metal bowl 2 and 8 are available.
- *5 Without a valve function
- *6 For pipe thread type: NPT
- *7 O: For pipe thread type: NPT only



AW10 Filter Regulator **Made to Order**

Please contact SMC for detailed dimensions, specifications and lead times.



Refer to page 109 and after for size 20 or more.

3 0.4 MPa Setting

The maximum set pressure is 0.4 MPa. When a pressure gauge is included, the display will show a range from 0 to 0.4 MPa.

Specifications

_ •	
Made-to-order part no.	-X406
Proof pressure [MPa]	1.5
Maximum operating pressure [MPa]	1.0
Set pressure range [MPa]	0.05 to 0.4

4 Long Bowl

Drain capacity is greater than that of standard models.

Applicable Model/Drain Capacity

1000	
Model	AW10
Port size	M5
Drain capacity [cm³]	9
B dimension [mm] *1	81.6

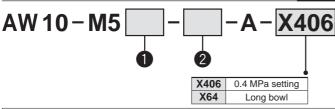


*1 For polycarbonate bowls. Please contact SMC for other bowl materials.

Applicable Model

Model	AW10
Port size	M5

How to Order



- Option/Semi-standard: Select one each for a to g.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order

∆Caution

• The AW10 comes with a backflow function as a standard feature. When using the AW10 as with backflow function, backflow may not occur with the set pressure of 0.15 MPa or less. Please set the inlet pressure to at least 0.05 MPa higher than the set pressure.

Example) AW10- <u>M5BG</u> -NR-A-X406				0.4 MPa Setting	Long Bowl	
	_		Symbol	Description	Body size 10	Body size 10
			_	Without mounting option	•	•
	а	Mounting	B *2	With bracket	•	•
			Н	With set nut (for panel mount)	•	•
*			+			
Option	b	Float type		Without auto drain	•	_
g	D	auto drain	С	Float type auto drain (N.C.)	•	_
		+				
	С	Pressure gauge *3		Without pressure gauge	•	•
			G	Round type pressure gauge (without limit indicator)	•	•
+						
			_	Polycarbonate bowl	•	•
	d	Bowl *4	2	Metal bowl	•	•
			6	Nylon bowl	•	•
व			+			
Semi-standard	е	Exhaust mechanism	_	Relieving type	•	•
stan		LAHAUSI HIGGHAHISHI	N	Non-relieving type	•	•
9 <u>-</u>			+			
eu	f	Flow direction	_	Flow direction: Left to right	•	•
\ \omega \		1 low direction	R	Flow direction: Right to left	•	•
			+			
	a	Pressure unit		Name plate, caution plate for bowl, and pressure gauge in SI units: MPa	•	•
	g	i ressure unit	Z	Name plate, caution plate for bowl, and pressure gauge in imperial units: psi, °F	•	•
Option	s B,	G, H are not as	sembled a	nd supplied loose at the time of shipment.		

- *2 Assembly of a bracket and set nuts.
- *3 A 1.0 MPa pressure gauge will be fitted.
- *4 Refer to chemical data on page 98 when selecting a bowl material.

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

Made to Order

Please contact SMC for detailed dimensions, specifications and lead times.



3 0.4 MPa Setting

The maximum set pressure is 0.4 MPa. When a pressure gauge is included, the display will show a range from 0 to 0.4 MPa.

Specifications

Made-to-order part no.	-X406
Proof pressure [MPa]	1.5
Maximum operating pressure [MPa]	1.0
Set pressure range [MPa]	0.05 to 0.4

Applicable Model

Model	AW20(K)-B	AW30(K)-B	AW40(K)-B	AW40(K)-06-B	AW60(K)-B
Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1

4 Long Bowl

Drain capacity is greater than that of standard models.

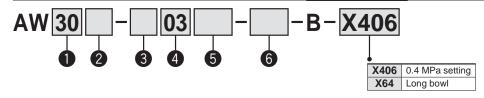
Applicable Model/Drain Capacity

Model	AW20(K)-B	AW30(K)-B	AW40(K)-B	AW40(K)-06-B	AW60(K)-B	
Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	
Drain capacity [cm³]	19	43		88		
B dimension [mm]*1	108.6	137.1	167.2	169.2	254.2	

*1 For polycarbonate bowls. Please contact SMC for other bowl materials.



How to Order



- Option/Semi-standard: Select one each for a to h.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.

Example) AW30K-03BE-2N-B-X406

0.4 MPa Setting

Long Bowl

	p.		VOOR CODE ZI	= 7.100									
Symbol Description			0			Body size							
	Symbol		Body size 20 30 40 60		60	20	30	40	60				
		With	backflow	_	Without backflow function	•	•	•	•	•	•	•	•
2			unction	K	With backflow function		•	•	•	•	•	•	•
			,	+									
				_	Rc	•	•	•	•	•	•	•	•
3	l l	Pipe t	thread type N*		NPT	•	•	•	•	•	•	•	•
				F *2	G	•	•	•	•	•	•	•	•
				+									
				01	1/8	•	_	_	_	•	_		_
				02	1/4	•	•	•	_	•	•	•	_
4		P	ort size	03	3/8	_	•	•	_	_	•	•	_
U		1 011 0120		04	1/2	_	_	•	_	_	_	•	_
				06	3/4		_	•		_	_	•	
				10	1				•	_	_		
				+									
			a Mounting		Without mounting option	•	•	•	•	•	•	•	•
		а		B*4	With bracket	•	•	•	•	•	•	•	•
				Н	With set nut (for panel mount)		•	•			•	•	
		+											
		b	Float type auto drain		Without auto drain	•	•	•		_	_		
				С	Float type auto drain (N.C.)	•	•	•	•	_	_		
	۳ *			D	Float type auto drain (N.O.)	_	•	•	•	_	_	_	
6	Option			+	I N.P.O.		_	_			_		
•	현				Without pressure gauge	•	•	•	•	•	•	•	•
			Pressure *5	E	Square embedded type pressure gauge (with limit indicator)	•	•	•	•	•	•	•	•
			gauge	G	Round type pressure gauge (with limit indicator)	•	•	•		•	•	•	•
		С		M	Round type pressure gauge (with colour zone)	•	•	•	•	•	•	•	•
			Digital	E1*6	Output: NPN output, Electrical entry: Wiring bottom entry	•	•	•		•	•	•	
			pressure	E2*6	Output: NPN output, Electrical entry: Wiring top entry	•	•	•	•	•	•	•	•
			switch	E3*6	Output: PNP output, Electrical entry: Wiring bottom entry	•	•	•		•	•	•	
				E4*6	Output: PNP output, Electrical entry: Wiring top entry	•	•	•	•	(IC) D (= A)	•	•	

- *1 Drain guide is NPT 1/8 (applicable to the AW20(K)-B) and NPT 1/4 (applicable to the AW30(K)-B to AW60(K)-B). The auto drain port comes with Ø 3/8" One-touch fitting (applicable to the AW30(K)-B to AW60(K)-B).
- *2 Drain guide is G 1/8 (applicable to the AW20(K)-B) and G 1/4 (applicable to the AW30(K)-B to AW60(K)-B).
- *3 Options B, G, H, M are not assembled and supplied loose at the time of shipment.
- *4 Assembly of a bracket and set nuts. (AW20(K)-B to AW40(K)-B). Including 2 mounting screws for the AW60(K)-B
- *5 A 0.7 MPa pressure gauge will be fitted for a 0.4 MPa setting (-X406).
 *6 When choosing with H (panel mount), the installation space for lead wires will not be secured. In this case, select "wiring down entry" for the electrical entry.



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

						0.4	4 MPa	Settin	ıg		_ong	Bowl	
Symbol Description		Description		Body size		Body size							
			20	30	40	60	20	30	40	60			
		d	Set pressure		0.05 to 0.85 MPa setting 0.02 to 0.2 MPa setting		_	_	_	•	•	•	•
				+									
				_	Polycarbonate bowl	•	•	•	•	•	•	•	•
				2	Metal bowl					•			
		е	Bowl *8	6	Nylon bowl	•	•	•		•		•	•
		-	DOWI	8	Metal bowl with level gauge	_	•	•	•	_	_	_	_
				С	With bowl guard	•	_	_	_	•	_	_	_
				6C	With bowl guard (Nylon bowl)	•	_	_	_		_	_	_
	힏		+										
	gal		*9 Drain port	_	With drain cock	•	•	•	•	•	•	•	•
6	tan	f		.]*10	Drain guide 1/8	•	_			•	_		
	- - -				Drain guide 1/4		•	•	•		•	•	•
	Semi-standard			W*11	Drain cock with barb fitting: For Ø 6 x Ø 4 nylon tube	_	•	•			•	•	•
	0,			+									
		g	Exhaust		Relieving type	•	•	•	•	•	•	•	•
		.	mechanism N		Non-relieving type	•	•	•	•	•	•	•	•
				+			_	_			_	_	
		h	Flow direction		Flow direction: Left to right	•	•	•	•	•	•	•	•
				R	Flow direction: Right to left	•	•	•	•	•	•	•	•
				+	Name plate continualists for head and account as in Classite. MDs								
		i	Pressure unit	– Z *12	Name plate, caution plate for bowl, and pressure gauge in SI units: MPa	O*14	● ○*14	● ○*14	● ○*14	● ○*14	● ○*14	● ○*14	● ○*14
				ZA*13	Name plate, caution plate for bowl, and pressure gauge in imperial units: psi, °F Digital pressure switch: With unit selection function							△*15	△*15
					specifications is the adjusting spring for the	△~15	△~15	△~13	△*13	\(\triangle \triangle \tr	△~13	Δ*13	△~15

- *7 The only difference from the standard specifications is the adjusting spring for the regulator. It does not restrict the setting of 0.2 MPa or more. When the pressure gauge is attached, a 0.4 MPa pressure gauge will be fitted.

 *8 Refer to chemical Data on page 98 when selecting a bowl material.
- *9 Float type auto drain: The combination of C and D is not possible. *10 Without a valve function
- *11 Metal bowl: The combination of 2 and 8 is not possible.
- *12 For pipe thread type: NPT. The digital pressure switch will be equipped with the unit selection function, setting to psi initially.
- *13 For options: E1, E2, E3, E4.
- *14 O: For pipe thread type: NPT only *15 \(\triangle \): Select with options: E1, E2, E3, E4.

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

Made to Order

Please contact SMC for detailed dimensions, specifications and lead times.

5 Clean Series

For details, refer to the Clean Series/Low Particle Generation section of the Web Catalogue.

10 - Standard model no.

* Please contact SMC if a product with pressure gauge is desired.

Clean Series



6 Copper, Fluorine and Silicone-free + Low Particle Generation

For details, refer to the Clean Series/Low Particle Generation section of the Web Catalogue.

21 - Standard model no.

Copper, fluorine and silicone-free + Low particle generation

AB

Option **Knob Cover**

Prevents careless knob operation.





Part no.	Applicable model
AR20P-580AS	AC20□-B, AR20(K)-B, AW20(K)-B
AR25P-580AS	AC25□-B, AR25(K)-B
AR30P-580AS	AC30□-B, AR30(K)-B, AW30(K)-B
AR40P-580AS	AC40□(-06)-B, AR40(K)(-06)-B, AW40(K)(-06)-B



⚠ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)*1), and other safety regulations.

Caution indicates a hazard with a low level of risk **⚠** Caution: which, if not avoided, could result in minor or moderate

Warning indicates a hazard with a medium level of risk **⚠** Warning: which, if not avoided, could result in death or serious

injury.

Danger indicates a hazard with a high level of risk Danger: which, if not avoided, will result in death or serious injury.

*1) ISO 4414: Pneumatic fluid power – General rules relating to systems. ISO 4413: Hydraulic fluid power - General rules relating to systems. IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)

ISO 10218-1: Manipulating industrial robots - Safety.

⚠ Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

- not service or attempt to remove product and machinery/equipment until safety is confirmed.
 - 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been
 - 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.
- 4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.
 - 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalogue.
 - 3. An application which could have negative effects on people, property, or animals requiring special safety analysis
 - 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation

Limited warranty and Disclaimer/ Compliance Requirements

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".

Read and accept them before using the product.

Limited warranty and Disclaimer

- 1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, wichever is first.*2) Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular
 - *2) Vacuum pads are excluded from this 1 year warranty.

A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

∕∴Caution

1. The product is provided for use in manufacturing industries.

The product herein described is basically provided for peaceful use in manufacturing

If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary

If anything is unclear, contact your nearest sales branch.

∕∴Caution

SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country. Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

Safety Instructions

Be sure to read "Handling Precautions for SMC Products" (M-E03-3) before using.

SMC Corporation (Europe)

Austria ** +43 (0)2262622800 www.smc.at office@smc.at Lithuania **3**+370 5 2308118 info@smclt.lt www.smclt.lt Belgium *****+32 (0)33551464 www.smcpneumatics.be info@smcpneumatics.be Netherlands *****+31 (0)205318888 www.smcpneumatics.nl info@smcpneumatics.nl **2** +359 (0)2807670 ***** +47 67129020 Bulgaria www.smc.bg office@smc.bg Norway www.smc-norge.no post@smc-norge.no ***** +385 (0)13707288 office@smc.hr Poland Croatia *****+48 222119600 office@smc.pl www.smc.hr www.smc.pl *****+420 541424611 postpt@smc.smces.es Czech Republic www.smc.cz office@smc.cz **Portugal ***+351 226166570 www.smc.eu Denmark *****+45 70252900 smc@smcdk.com Romania *****+40 213205111 www.smcdk.com www.smcromania.ro smcromania@smcromania.ro Estonia ***** +372 6510370 www.smcpneumatics.ee smc@smcpneumatics.ee Russia *****+7 8127185445 info@smc-pneumatik.ru www.smc-pneumatik.ru **2**+358 207513513 Finland smcfi@smc fi Slovakia ***** +421 (0)413213212 office@smc.sk www.smc.fi www.smc.sk France *****+33 (0)164761000 www.smc-france.fr info@smc-france.fr Slovenia *****+386 (0)73885412 www.smc.si office@smc.si Germany **2** +49 (0)61034020 www.smc.de info@smc.de Spain ***** +34 902184100 www.smc.eu post@smc.smces.es ***** +30 210 2717265 www.smchellas.gr sales@smchellas.gr Sweden **2** +46 (0)86031200 post@smc.nu Greece www.smc.nu Switzerland *****+41 (0)523963131 Hungary ***** +36 23511390 www.smc.hu office@smc.hu www.smc.ch info@smc.ch Ireland **2** +353 (0)14039000 www.smcpneumatics.ie sales@smcpneumatics.ie Turkey **212 489 0 440** www.smcpnomatik.com.tr info@smcpnomatik.com.tr Italy *****+39 0292711 www.smcitalia.it mailbox@smcitalia.it UK ** +44 (0)845 121 5122 www.smcpneumatics.co.uk sales@smcpneumatics.co.uk Latvia **3**+371 67817700 info@smclv.lv www.smclv.lv