

Modular Design with Uniform Body Style

Better visibility & environmental resistance



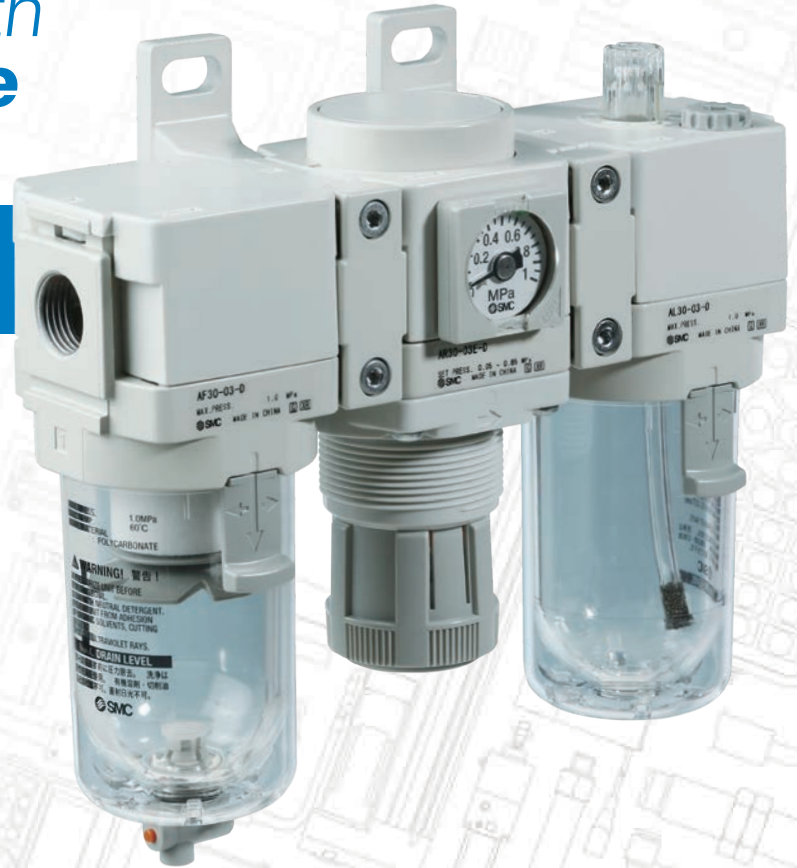
The bowl is covered with a transparent bowl guard!

* Body sizes 30 and larger

- The inside is visible from 360°.
- The inner bowl is protected from the environment, allowing for improved safety.

Inner bowl
Material: Polycarbonate

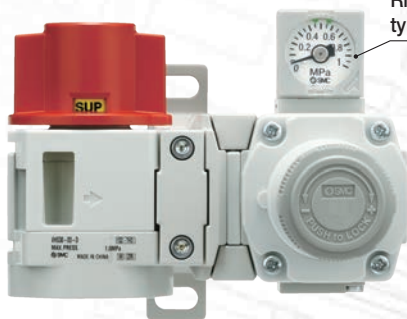
Transparent bowl guard
Material: Polycarbonate



A right angle square type pressure gauge and various attachments have been added.

Right Angle Square Type Pressure Gauge [p. 8](#)

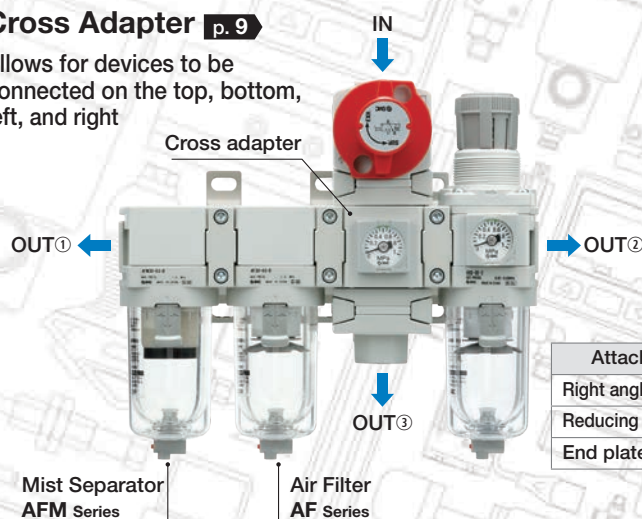
Allows for pressure confirmation from the knob side



Right angle square type pressure gauge

Cross Adapter [p. 9](#)

Allows for devices to be connected on the top, bottom, left, and right



Mist Separator AFM Series

Air Filter AF Series

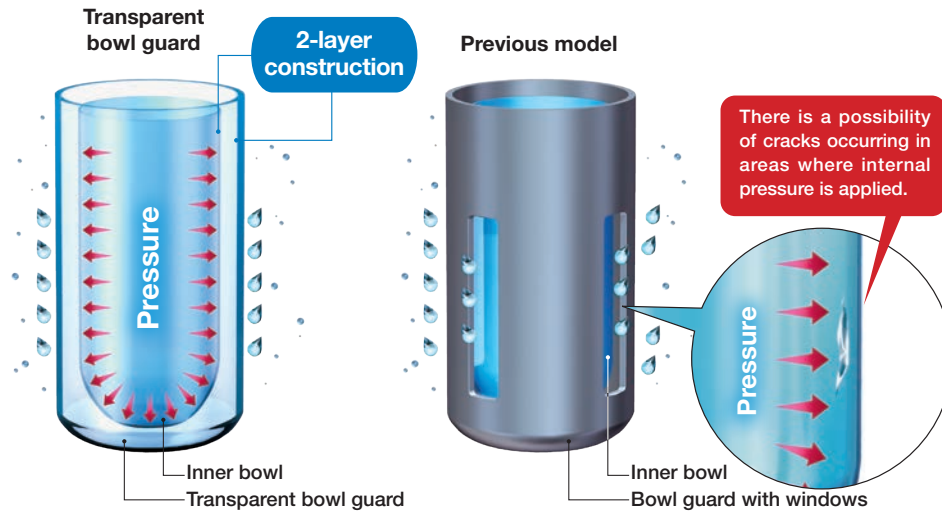
Attachment	Page
Right angle adapter	7
Reducing adapter	10
End plate	70

AC Series

Transparent bowl guard

13 Better environmental resistance: The transparent bowl guard protects the inner bowl!

The bowl guard with windows has been replaced with a **polycarbonate transparent bowl guard**. Now, even if the environment changes and the bowl is exposed to corrosive chemical or oil splash, **the foreign matter will not come into direct contact with the pressurized bowl**. This can reduce the risk of bowl breakage.

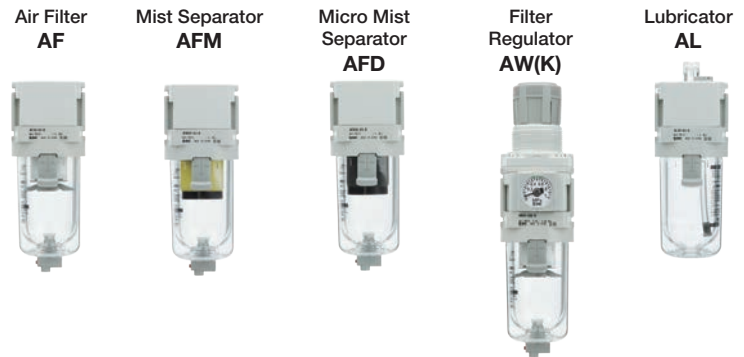


13 Better visibility: 360°

The transparent bowl guard allows for easy checking of the condensate level inside the filter bowl and the remaining oil amount in the lubricator from any direction.



Applicable model * Body sizes 30 and larger



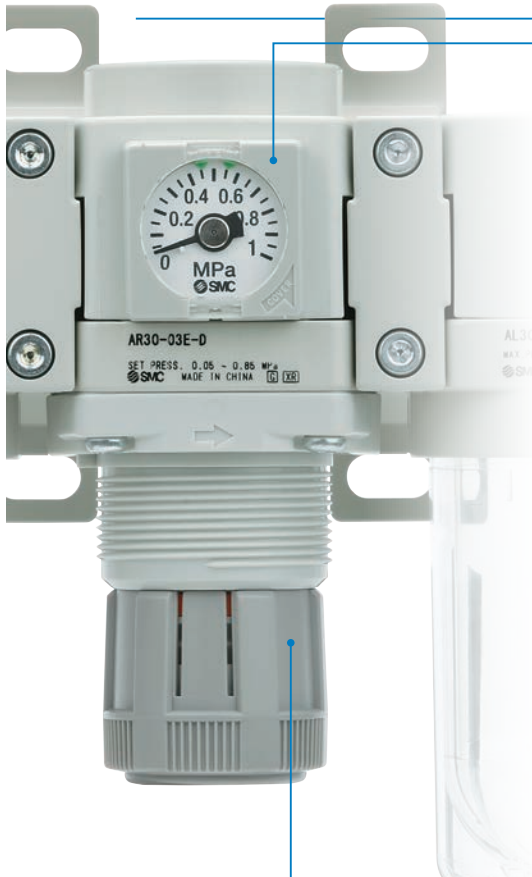
No tools are required.

Easier replacement of the element

* AF20-D to AF40-D only



Selection of pressure gauges



(Right angle)
Square embedded
type pressure gauge



Round type
pressure gauge



Digital pressure switch

Open/close type gauge cover

① Open the gauge cover.



Open the gauge cover in the direction of the arrow with your fingertips.

② Adjust the indicator to a specified position.



Adjust the indicator using a flat blade screwdriver.

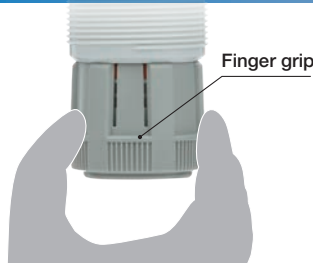
③ Close the gauge cover.



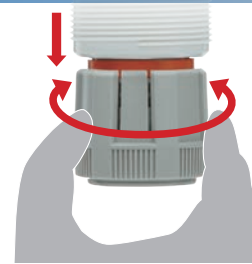
Close the gauge cover in the direction of the arrow and push it in until it clicks in place.

Easy to handle

Easy to hold when unlocked



Locked



Pressure regulation
while unlocked

Mounting (Single unit)

- The mounting pitch for panel mounting is interchangeable between the AR20(K)-D to AR40(K)-06-D and the AR(K)-B series and between the AW20(K)-D to AW40(K)-06-D and the AW(K)-B series. The brackets and set nuts are the same for both existing and new products.

Series	Body size					Details
	20	30	40	50	60	
AF						p. 75
AFM AFD						p. 86
AR(K)						p. 95
AW(K)						p. 116
AL						p. 107

Series Configuration

AC20 to AC60 Series

Air Filter +
 Regulator +
 Lubricator
AF AR AL



	Port size					
	1/8	1/4	3/8	1/2	3/4	1
Size 20	●	●				
Size 30		●	●			
Size 40		●	●	●		
Size 40-06					●	
Size 50					●	●
Size 60						●

AC20A to AC60A Series

Filter Regulator +
 Lubricator
AW AL



	Port size					
	1/8	1/4	3/8	1/2	3/4	1
Size 20	●	●				
Size 30		●	●			
Size 40		●	●	●		
Size 40-06					●	
Size 50					●	●
Size 60						●

AC20B to AC60B Series

Air Filter +
 Regulator
AF AR



	Port size				
	1/8	1/4	3/8	1/2	3/4
Size 20	●	●			
Size 30		●	●		
Size 40		●	●	●	
Size 40-06					●
Size 50					●
Size 60					●

AC20C to AC40C Series

Air Filter +
 Mist Separator +
 Regulator
AF AFM AR



	Port size				
	1/8	1/4	3/8	1/2	3/4
Size 20	●	●			
Size 30		●	●		
Size 40		●	●	●	
Size 40-06					●

AC20D to AC40D Series

Filter Regulator +
 Mist Separator
AW AFM



	Port size			
	1/8	1/4	3/8	1/2
Size 20	●	●		
Size 30		●	●	
Size 40		●	●	●
Size 40-06				●

Table of Modular F.R.L. Unit Combinations for AC Assembly

Air Filter
AF Series

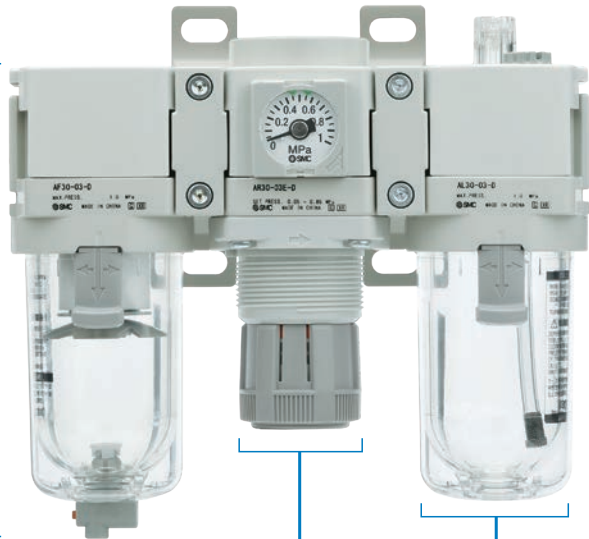


	Port size					
	1/8	1/4	3/8	1/2	3/4	1
Size 20	●	●				
Size 30		●	●			
Size 40		●	●	●		
Size 40-06					●	
Size 50					●	●
Size 60						●

Mist Separator
Micro Mist Separator
AFM/AFD Series



	Port size				
	1/8	1/4	3/8	1/2	3/4
Size 20	●	●			
Size 30		●	●		
Size 40		●	●	●	
Size 40-06					●
Size 50					●
Size 60					●



Regulator
AR Series



	Port size					
	1/8	1/4	3/8	1/2	3/4	1
Size 20	●	●				
Size 30		●	●			
Size 40		●	●	●		
Size 40-06					●	
Size 50					●	●
Size 60						●

Regulator with Backflow Function
AR[®]K Series



	Port size					
	1/8	1/4	3/8	1/2	3/4	1
Size 20	●	●				
Size 30		●	●			
Size 40		●	●	●		
Size 40-06					●	
Size 50					●	●
Size 60						●

Filter Regulator
AW Series



	Port size					
	1/8	1/4	3/8	1/2	3/4	1
Size 20	●	●				
Size 30		●	●			
Size 40		●	●	●		
Size 40-06					●	
Size 50					●	●
Size 60						●

Filter Regulator with Backflow Function
AW[®]K Series



	Port size					
	1/8	1/4	3/8	1/2	3/4	1
Size 20	●	●				
Size 30		●	●			
Size 40		●	●	●		
Size 40-06					●	
Size 50					●	●
Size 60						●

New Spacer



Interchangeable with the existing model

- The new spacer can be connected to the existing AF-A, AR-B, AL-A, and AW-B series.

Lubricator
AL Series



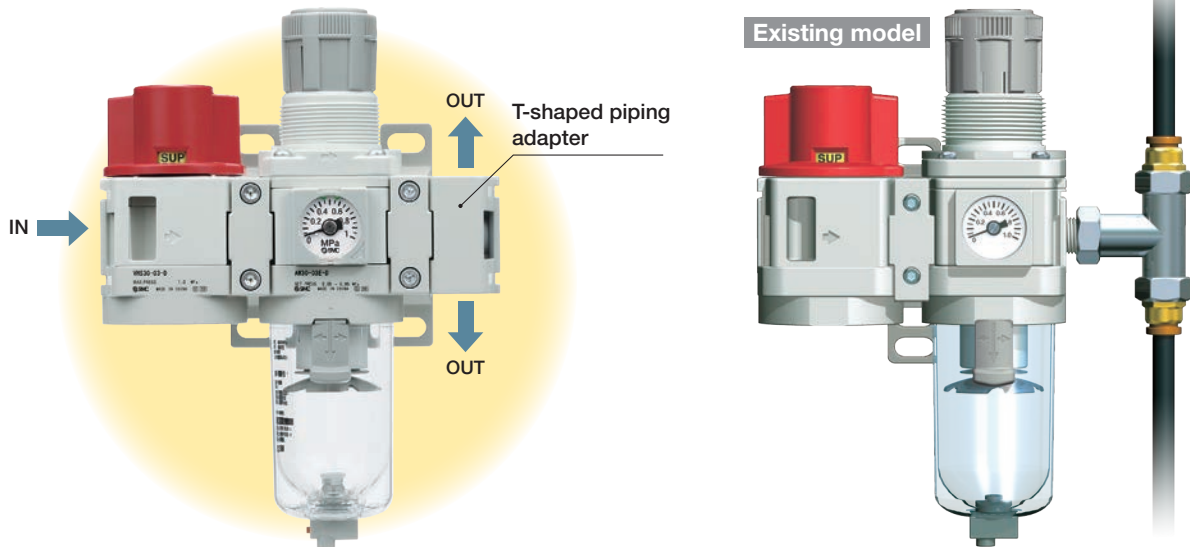
	Port size					
	1/8	1/4	3/8	1/2	3/4	1
Size 20	●	●				
Size 30		●	●			
Size 40		●	●	●		
Size 40-06					●	
Size 50					●	●
Size 60						●

Improved piping design flexibility

T-shaped Piping Adapter

Air can be released either upward or downward.

* Size: 20 to 60

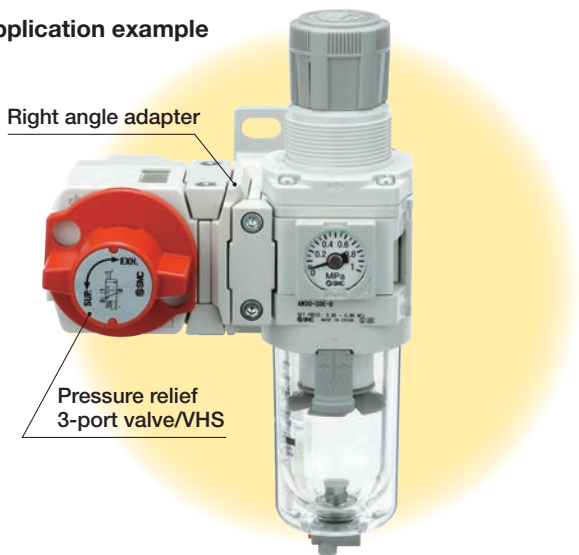


Right Angle Adapter

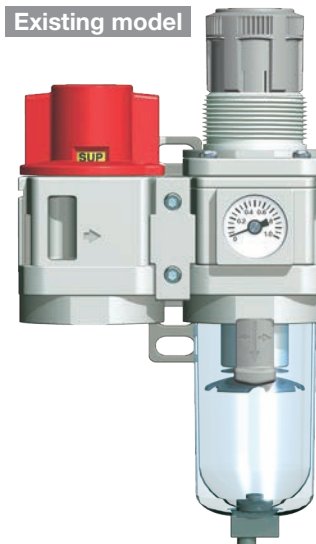
Modular connection with the product rotated 90 degrees is possible.

* Size: 20 to 40

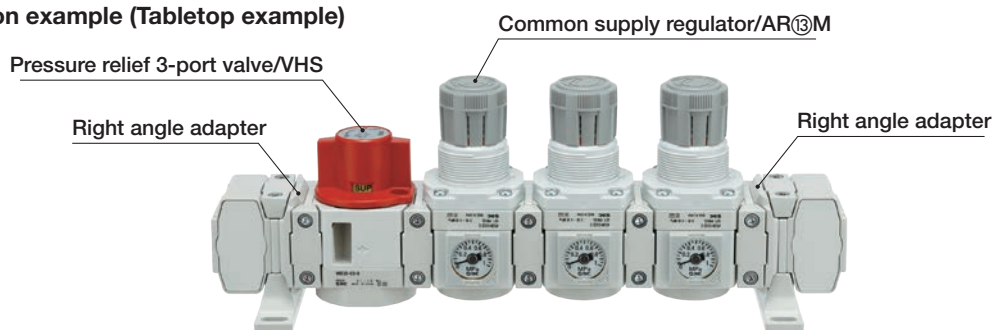
Application example



Existing model



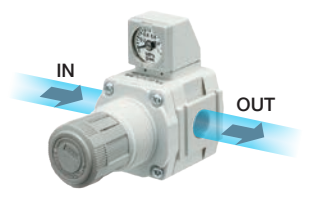
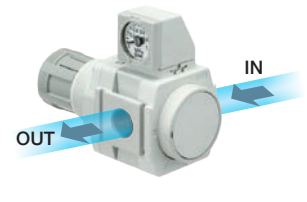
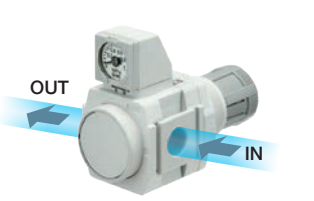
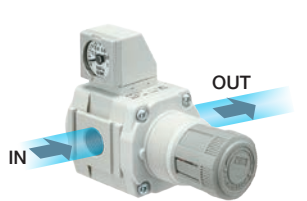
Application example (Tabletop example)

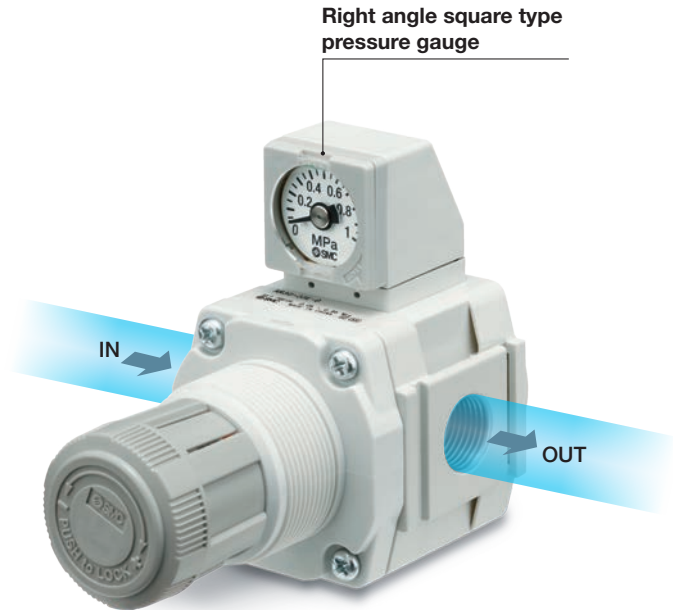


The direction the pressure gauge faces can be changed freely.

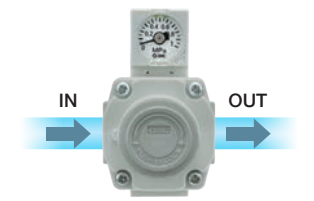
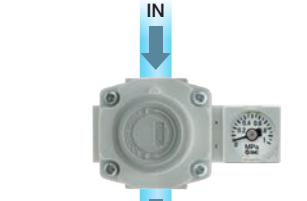
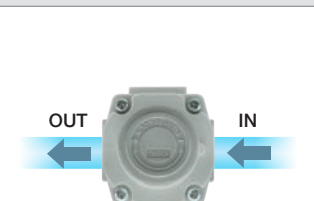
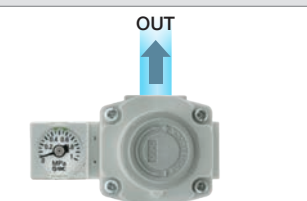
Right Angle Square Type Pressure Gauge

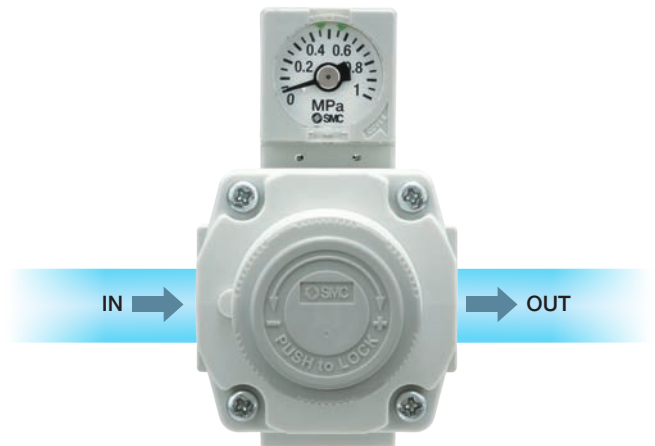
The direction the pressure gauge faces can be changed in 90° increments depending on where the pressure gauge needs to be viewed from.

Pressure gauge direction	
Standard direction (At the time of shipment)	Direction 1
	
Direction 2	Direction 3
	



The direction the pressure gauge scale plate faces can also be changed in 90° increments depending on the piping direction.

Scale plate direction	
Standard direction (At the time of shipment)	Direction 1
	
Direction 2	Direction 3
	

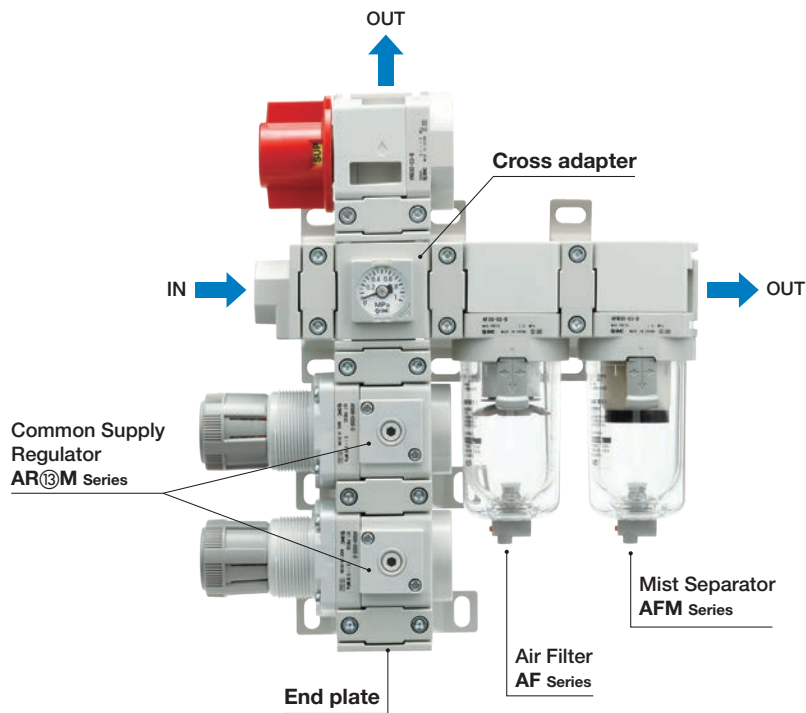


Improved piping design flexibility

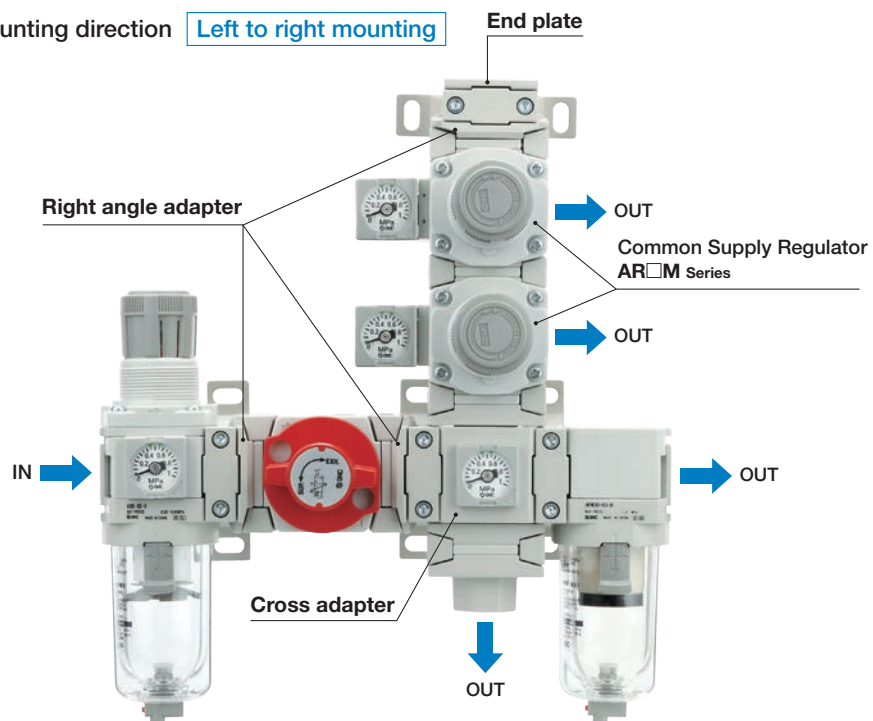
Cross Adapter

Allows for devices to be connected on the top, bottom, left, and right with the use of a spacer between the product and each device

Top/bottom spacer mounting direction **Front to back mounting**



Top/bottom spacer mounting direction **Left to right mounting**



Size conversion is possible Flow capacity UP Extended maintenance cycle

Reducing Adapter

Modular connection with products 1 size larger (or 1 size smaller) is possible.

Convertible sizes

Size 20 ⇄ Size 30

Size 30 ⇄ Size 40

Example of connection with an air preparation filter 1 size larger

When using the reducing adapter AR30 + AFF40 + AM40 + AMD40

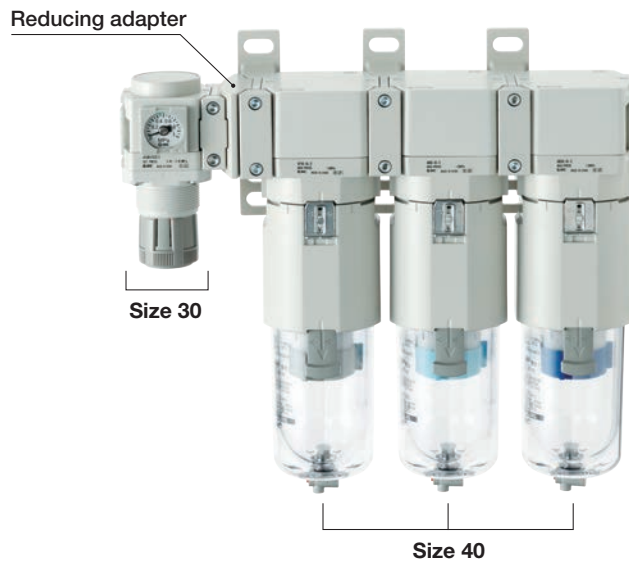
1500 L/min (ANR)*1



Existing model

AR30 + AFF30 + AM30 + AMD30

750 L/min (ANR)*1



*1 When at the max. flow capacity

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 (additional machining, accessory assembly, or the designing of a modular unit) and deliver your personalized products as quickly as standard products.

Repeat orders

Once we receive a simple special part number from one of your previous orders, we will process the order, manufacture the product, and deliver it to you as quickly as possible.

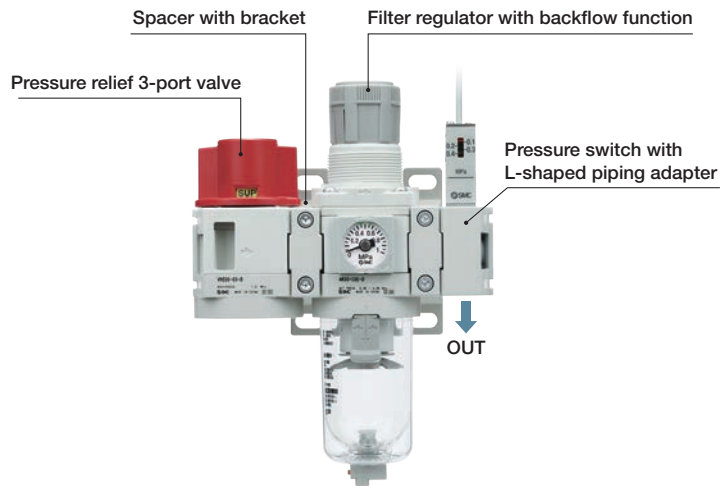
Please contact your local sales representative for more details.

Examples of Simple Specials

Combination example ①

* Please contact your local sales representative for ordering procedures.

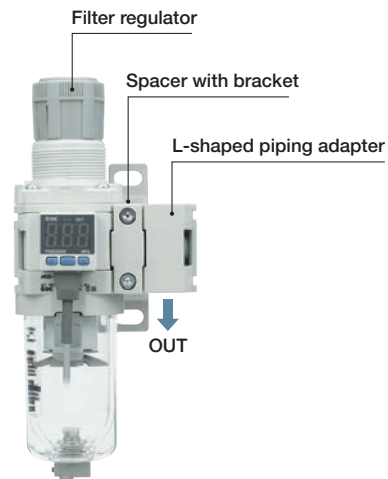
- Pressure relief 3-port valve
VHS30-03-D 1 pc.
- Spacer with bracket
Y300T-D 2 pcs.
- Filter regulator with backflow
function
AW30K-03E-D 1 pc.
- Pressure switch with
L-shaped piping adapter
IS10L-30-03-D 1 pc.



Combination example ②

* Please contact your local sales representative for ordering procedures.

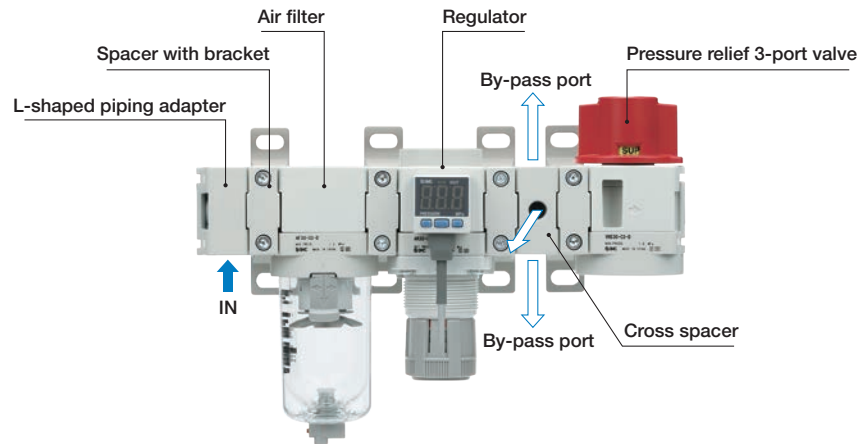
- Filter regulator
AW30-03E1-D 1 pc.
- Spacer with bracket
Y300T-D 1 pc.
- L-shaped piping adapter
E300L-03-D 1 pc.



Combination example ③

* Please contact your local sales representative for ordering procedures.

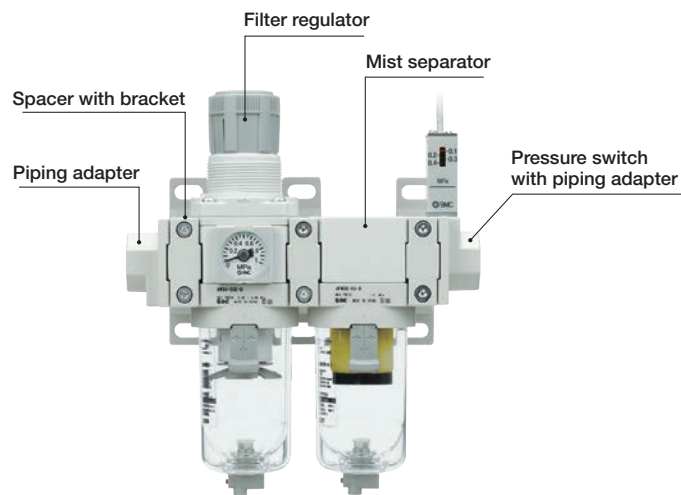
L-shaped piping adapter E300L-03-D	1 pc.
Spacer with bracket Y300T-D	4 pcs.
Air filter AF30-03-D	1 pc.
Regulator AR30-03E1-D	1 pc.
Cross spacer Y34-03-D	1 pc.
Pressure relief 3-port valve VHS30-03-D	1 pc.



Combination example ④

* Please contact your local sales representative for ordering procedures.

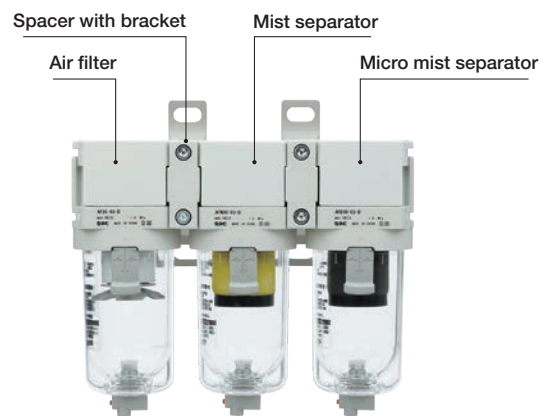
Piping adapter E300-03-D	1 pc.
Spacer with bracket Y300T-D	3 pcs.
Filter regulator AW30-03E-D	1 pc.
Mist separator AFM30-03-D	1 pc.
Pressure switch with piping adapter IS10E-30-03-D	1 pc.

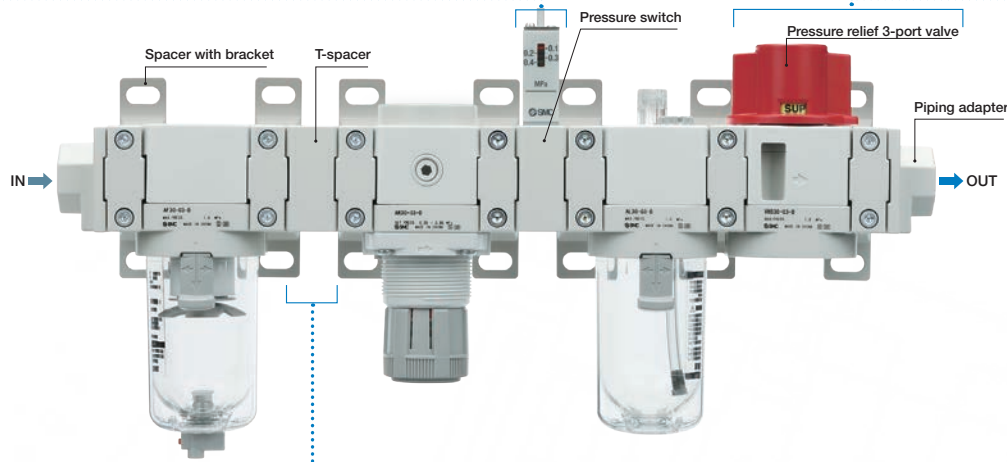


Combination example ⑤

* Please contact your local sales representative for ordering procedures.

Air filter AF30-03-D	1 pc.
Spacer with bracket Y300T-D	2 pcs.
Mist separator AFM30-03-D	1 pc.
Micro mist separator AFD30-03-D	1 pc.








Spacers

T-Spacer Y1310 Series	Cross Spacer Y134 Series	Spacer Y1313 Series	Spacer with Bracket Y1313T Series
Piping in 2 directions is possible (upward or downward).  Slim type*1	Piping in all 4 directions is possible.  Front and back port selectable type*1		







*1 The mounting pitch is interchangeable with the existing attachment.

Pressure Switches


A compact, integrated pressure switch can be easily installed to facilitate the pressure detection of the line.

Pressure Switch with T-Spacer IS10T Series	Pressure Switch with L-Shaped Piping Adapter IS10L Series	Pressure Switch IS10M Series	Pressure Switch with Piping Adapter IS10E Series
The OUT side piping can be branched downward. 	OUT side piping: Downward 	 Slim type*1	A piping adapter allows for the installation/removal of the component without removing the piping. 

Piping Adapters

Piping Adapter E1300 Series	L-Shaped Piping Adapter E1300L Series	T-Shaped Piping Adapter E1300T Series
A piping adapter allows for the installation/removal of the component without removing the piping. 	Upward or downward piping is possible on the inlet side and the outlet side of F.R.L. units. 	Both upward and downward piping are possible on the inlet and outlet sides of F.R.L. units. 
New Right Angle Adapter E1310T Series	New Reducing Adapter E1310R Series	New Cross Adapter Y134M Series
Allows for modular connection with the product rotated 90 degrees 	Allows for modular connection with products 1 body size larger or smaller 	Allows for devices to be connected on the top, bottom, left, and right 

Pressure Relief 3-Port Valve

Pressure Relief 3-Port Valve VHS Series
By using a pressure relief 3-port valve, pressure left in the line can be easily exhausted. 

New End Plate E1300E Series
For blocking the unused piping ports on sides without a modular connection 

