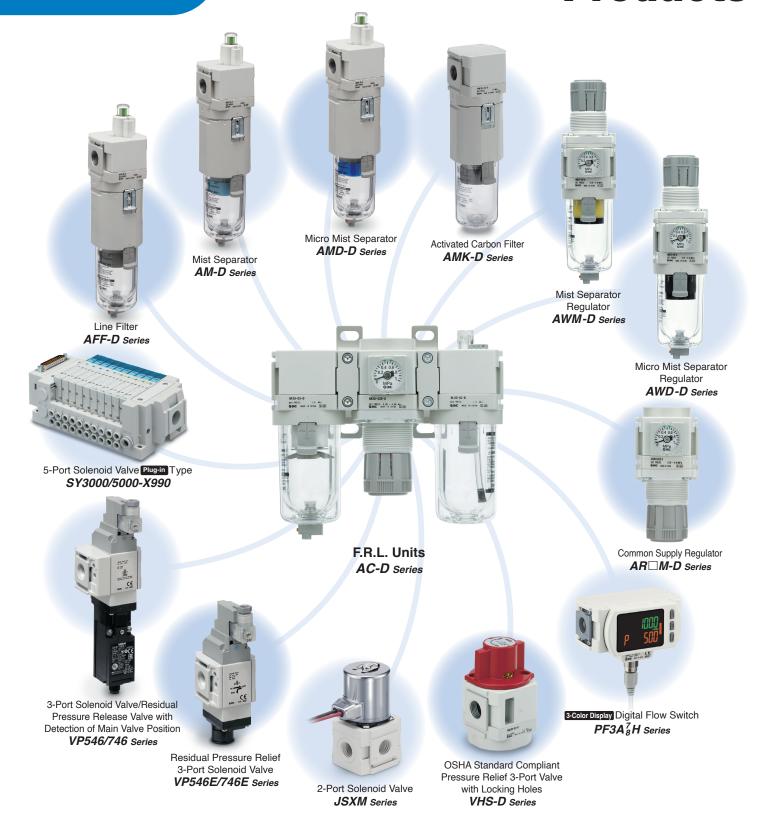


Modular Pneumatic Products



Assembly Components

Allows for space saving and reduced piping labor

Installation area: Max. 59% reduction

(356,970 mm² | 866,700 mm²)

Width Reduced by 255 mm (815 mm 4 1070 mm)

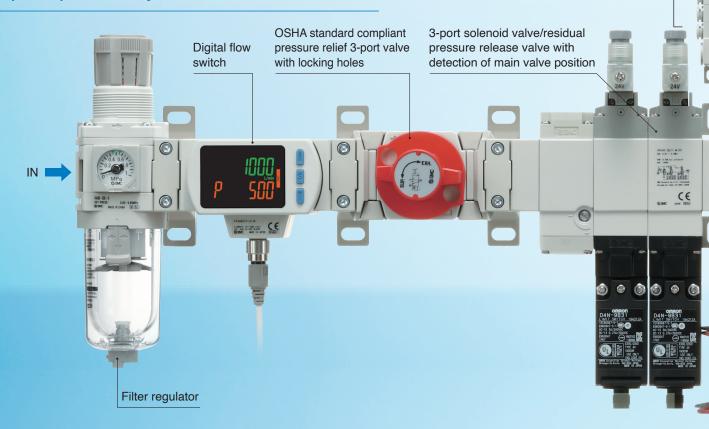
Height Reduced by 372 mm (438 mm 4 810 mm)

Connectable modular components

Various attachment options

- · Component and piping connection directions
- · Size conversion is possible

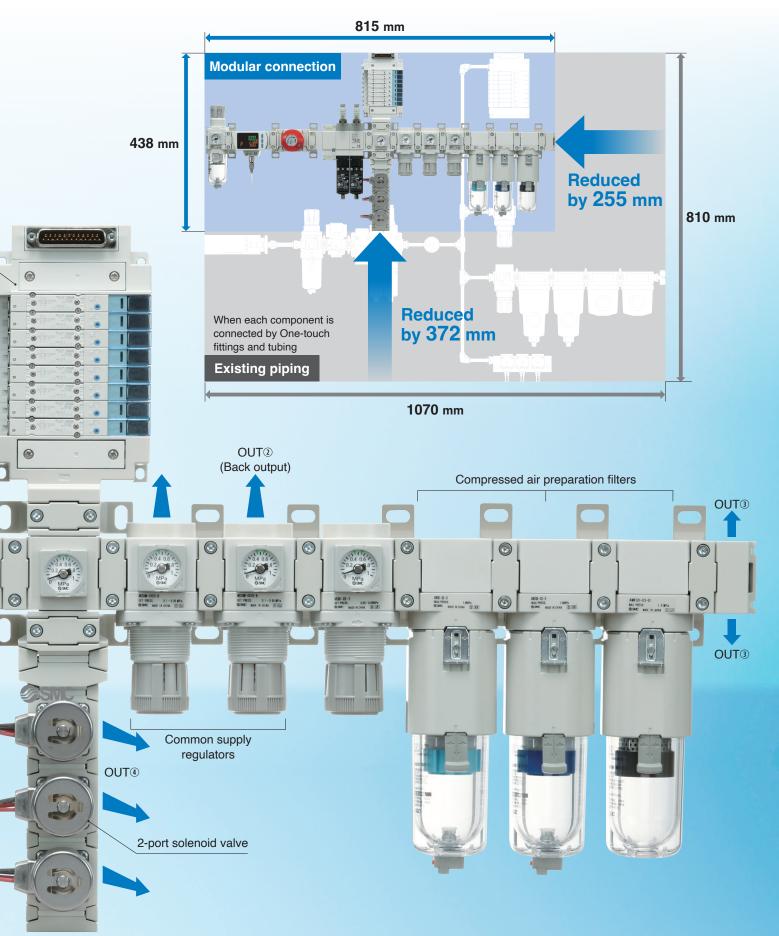
Simple Specials System



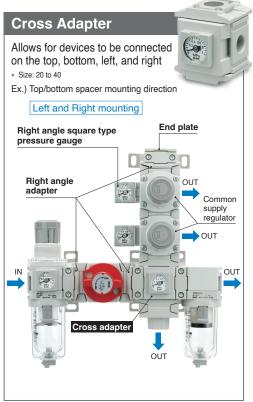
5-port solenoid valve

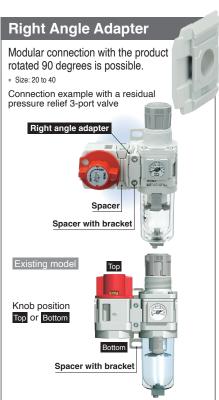
OUT₁

| OUT ^① | Output air from 5-port solenoid valve | OUT3 | Output air of required purity class |
|------------------|---|------|---------------------------------------|
| OUT@ | Output air from common air supply regulator | OUT4 | Output air from 2-port solenoid valve |



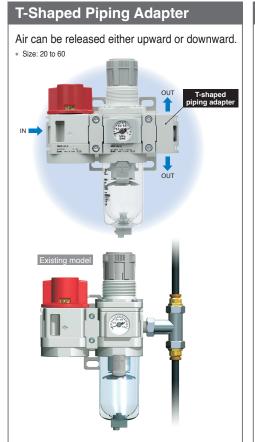
Component connection directions

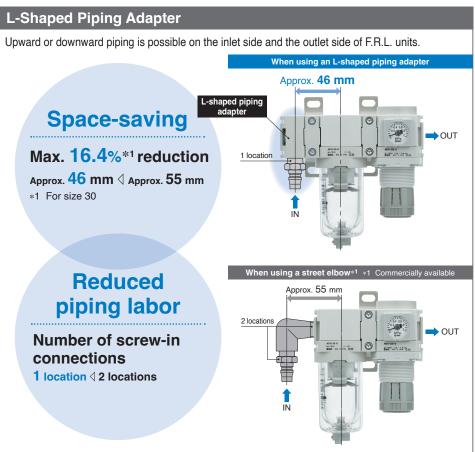






Piping connection directions Space-saving design and reduced piping labor





Various Attachment Options

A wide range of component types, sizes, connection directions, and piping directions are available.

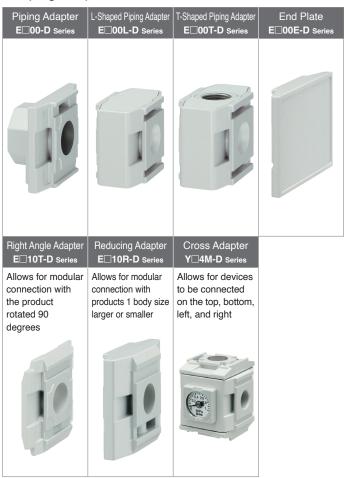
Pressure Switches



Spacers



Piping Adapters



Related Product (Modular System Components)



Air Management System AMS20/30/40/60 Series

- Air consumption: Max. 62% reduction
 Monitors the machine standby conditions (when production stops) and automatically decreases the pressure.

 Reduces unnecessary air consumption
- Simultaneous measurement of the (accumulated) flow rate, pressure, and temperature is possible.
- Supports industrial communication







· Compatible with SMC wireless systems

Connectable Modular Components

F.R.L. Units AC



- Modular design with uniform body style
- Better visibility & environmental resistance 2-layer construction: The bowl is covered with a transparent bowl guard. Better visibility: 360°
- No tools are required. Easier replacement of the element (AF-D only)

| Series | Port size |
|---|----------------------------|
| AC20 to 60-D Air filter, Regulator, Lubricator | |
| AC20A to 60A-D Filter regulator, Lubricator | 1/8, 1/4, 3/8, 1/2, 3/4, 1 |
| AC20B to 60B-D Air filter, Regulator | |
| AC20C to 40C-D Air filter, Mist separator, Regulator | 1/0 1/4 0/0 1/0 |
| AC20D to 40D-D Filter regulator, Mist separator | 1/8, 1/4, 3/8, 1/2 |

Common Supply Regulator AR□M(K)-D

- Supply different pressure for multiple applications
- OUT port is on the back of the product.
- Space-saving design and reduced piping labor
- Branch piping



| Series | Port size | Set pressure [MPa] |
|---|--------------------|-----------------------------|
| AR20M-D to AR40M-D | 1/8, 1/4, 3/8, 1/2 | 0.05 to 0.85 0.02 to 0.2 |
| AR20MK to AR40MK-D With backflow function | 1/8, 1/4, 3/8, 1/2 | 0.1 to 0.85 0.1 to 0.2 |

Mist Separator Regulator AWM-D Micro Mist Separator Regulator AWD-D

- Transparent bowl guard
 - Improved environmental durability due to 2-layer construction (Body sizes 30 and larger)
- Better visibility: 360°
- Lightweight: Max. 40.7% reduction (0.24 kg)



| Series | Port size | Set pressure [MPa] | Nominal filtration rating [µm] |
|---------------|--------------------|-----------------------------|--------------------------------|
| AWM20 to 40-D | 1/8, 1/4, 3/8, 1/2 | 0.05 to 0.85 0.05 to 0.2 | 0.3 |
| AWD20 to 40-D | 1/8, 1/4, 3/8, 1/2 | 0.05 to 0.85 0.05 to 0.2 | 0.01 |

3-Color Display Digital Flow Switch PF3A7/8 H(-L)



- Flow ratio 100:1 A wide range of flow measurement is possible with 1 product.
- IO-Link compatible (For "-L")
- A 4-screen display digital flow switch with pressure/temperature sensor is available. Simultaneous measurement of the (accumulated) flow rate, pressure, and temperature is possible. [For the PF3A8□H(-L)]

| Series | Applicable combinations | Flow range [L/min] |
|-------------------------|-------------------------|--------------------|
| PF3A701H(-L)/PF3A801H-L | AC30-D | 1000 |
| PF3A702H(-L)/PF3A802H-L | AC40-D | 2000 |

Compressed Air Preparation Filter -

Line Filter AFF | Mist Separator AM | Micro Mist Separator AMD | Activated Carbon Filter AMK •Compliant with ISO 8573-1 compressed air purity class •Transparent bowl guard •Face-to-face and depth dimensions reduced by up to 30% (2-layer construction) (E

- - (2-layer construction) (Body size: 30, 40)
- •Lightweight: Max. 50% reduction (0.19 kg)
- Color-identifiable elements
- Flow capacity: Max. 50% increase
- · A model with an element service indicator is also available. (AFF, AM, AMD)



| Series | Port size | Nominal filtration rating [[[m] | Oil concentration on the outlet side [mg/m³] |
|--|----------------|--|--|
| AFF20 to 60-D Line filter | 1/8, 1/4, 3/8, | 1.0 (Filtration efficiency: 99%) | - |
| AM20 to 60-D Mist separator | | 0.1 (Filtration efficiency: 99%) | Oil mist 1 (≈ 0.8 ppm) or less |
| AMD20 to 60-D Micro mist separator | 1/2, 3/4, 1 | 0.01 (Filtration efficiency: 99.9%) | Oil mist 0.1 (≈ 0.08 ppm) or less |
| AMK20 to 60-D Activated carbon filter | | _ | Oil vapor 0.003 (≈ 0.0025 ppm) or less |



OSHA Standard Compliant

Pressure Relief 3-Port Valve with Locking Holes

- Improved flow rate characteristics: Max. 88% increase (VHS40-04-D)
 Energy saving: Zero blow-by of the air during switching of the handle
- OSHA (Occupational Safety and Health Administration) standard compliant
- Lower pressure drop contributing to energy saving Pressure drop reduced by up to 73%



| Series | Port size | Applicable combinations |
|---------------|---------------|-------------------------|
| VHS20(W)-D | 1/8, 1/4 | AC20-D |
| VHS30(W)-D | 1/4, 3/8 | AC30-D |
| VHS40(W)-D | 1/4, 3/8, 1/2 | AC40-D |
| VHS40(W)-06-D | 3/4 | AC40-06-D |
| VHS50(W)-D | 3/4, 1 | AC50-D, AC60-D |

5-Port Solenoid Valve SY3000/5000-X990 •Allows for space saving and reduced piping labor •Flow rate characteristics C [dm³/(s·bar)]

- SY3000: 1.6, SY5000: 3.6 Top ported/Side ported



| Series | Applicable combinations |
|-------------|-------------------------|
| SY3000-X990 | AC30-D |
| SY5000-X990 | AC40-D |

Residual Pressure Relief 3-Port Solenoid Valve VP546E/746E



• A model with a soft start-up function is also available.

• Power consumption: 0.35 W (Without light)

• Features a check valve built into the pilot flow path

(Supports pilot pressure drops caused by pressure fluctuations on the inlet side)



| Series | Applicable combinations |
|--------|-------------------------|
| VP546E | AC30-D |
| VP746E | AC40-D |

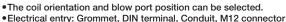
3-Port Solenoid Valve/Residual Pressure Release Valve with Detection of Main Valve Position VP546/746

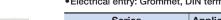


- With main valve position detection function The main valve position detection function is used to detect inconsistencies between input signals and valve operations.
- •Flow rate characteristics C [dm³/(s·bar)] VP546: 8.3 | VP746: 12.3
- A model with a soft start-up function is also available.

| Series | Applicable combinations |
|--------|-------------------------|
| VP546 | AC30-D |
| VP746 | AC40-D |

Direct Operated/Pilot Operated 2-Port Solenoid Valve JSX/JSX







| Series | Applicable combinations | Port size | Orifice diameter [mmø] |
|--------|-------------------------|---------------|------------------------|
| JSXM21 | AC20-D | 1/8, 1/4 | 3.2 |
| JSXM31 | AC30-D | 1/4, 3/8 | 4 |
| JSXM41 | AC40-D | 1/4, 3/8, 1/2 | 4 |



Simple Specials System



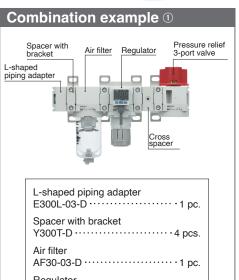
Short lead times

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.



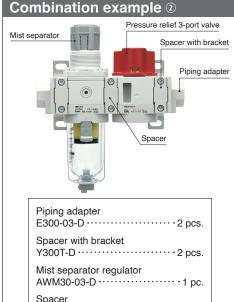
AR30-03E1-D1 pc.

Y34-03-D 1 pc.

VHS30-03-D1 pc.

Pressure relief 3-port valve

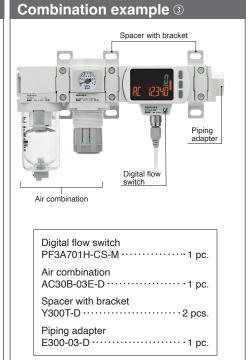
Cross spacer

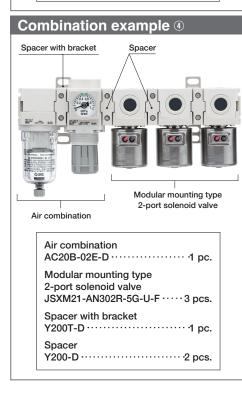


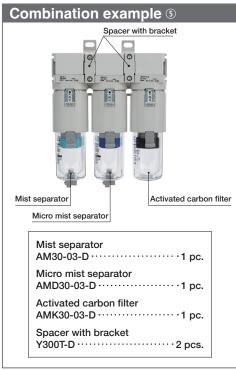
Y300-D 1 pc.

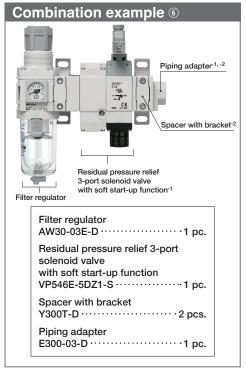
VHS30-03-D 1 pc.

Pressure relief 3-port valve









*1 Connection threads are not available for the residual pressure relief 3-port solenoid valve. Select a piping adapter.

*2 Refer to the **Web Catalog** for details on the spacer with bracket and piping adapter.

