The new 4G. Get ready.

The new 4G presents new developments while preserving the existing 4G Series concept. Here it is.

Power consumption 0.1 w
With low exoergic/ energy saving circuit
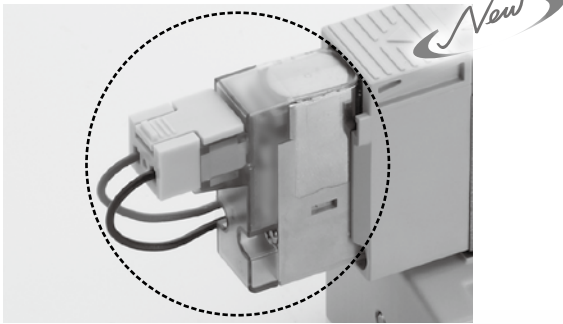4GAB

Power consumption 0.35 w
Standard products

■ Environmental performance

Continuous energizing OK
(With low exoergic/energy saving circuit)
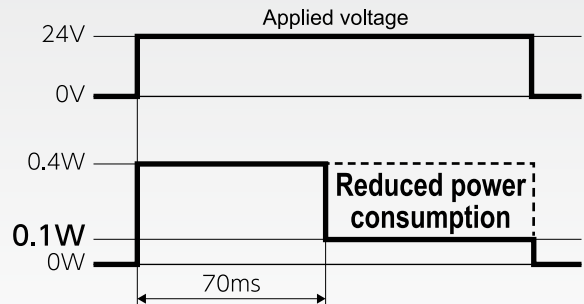
Uses a new coil actuator.   **4GAB**   *New*

Reduced power consumption   **4GAB**
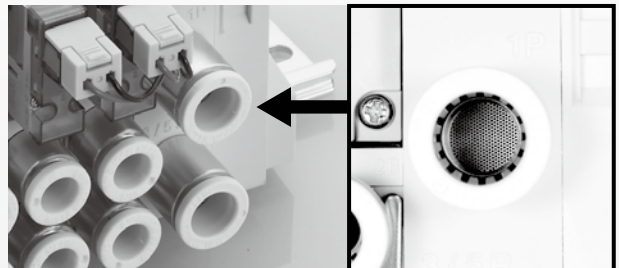
Energy saving waveform

Applied voltage

24V
0V
0.4W
Reduced power consumption
0.1W
0W
70ms

■ Safety

Prevents manual misoperation

Manual override has a protective cover.

Helps prevent misoperation problems

[Exhaust check valve]
Equipped as standard with both metal base and resin block.

Exhaust
Air supply
CKD

Prevents problems with foreign matter
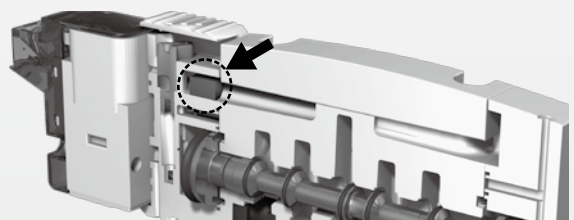
● Air supply filter equipped as standard
(A/B ports equipped as option)
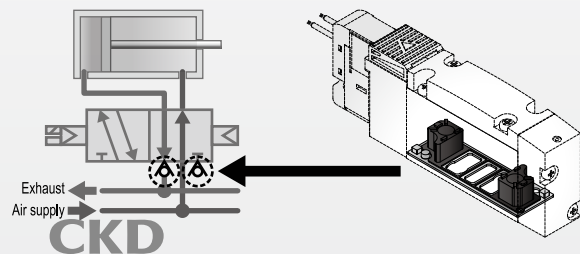
● Internal pilot filter equipped as standard.

2

Reliable

Low sliding/long service life realized *1

Superb main valve sliding mechanism realizes low sliding/long service life. **4GAB**

Optimized seal function through CAE analysis

Special surface processing of the sliding packing

Special surface processing of the body interior
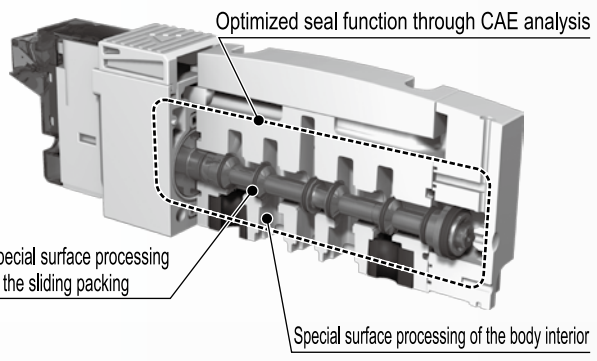
New

**Durability count
More than
100 million
operations**
Single solenoid, under our
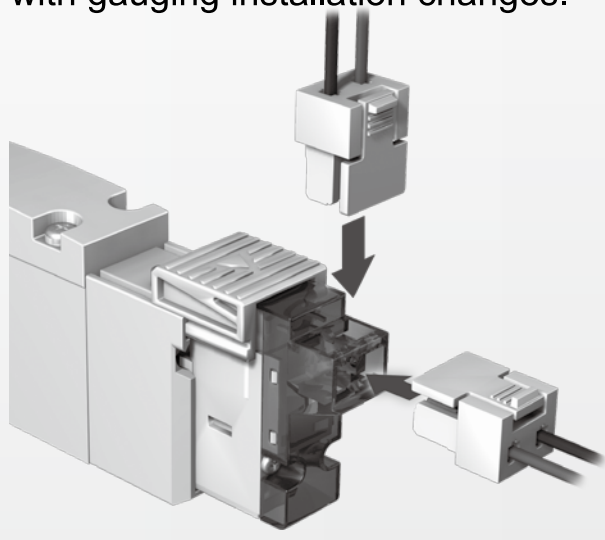regulated conditions
4GAB

**Response time
12±2 ms**
4G1

Improved responsivity after a shutdown *2

Smooth start even after time off. **4GAB**
Effective for Monday morning troubles and
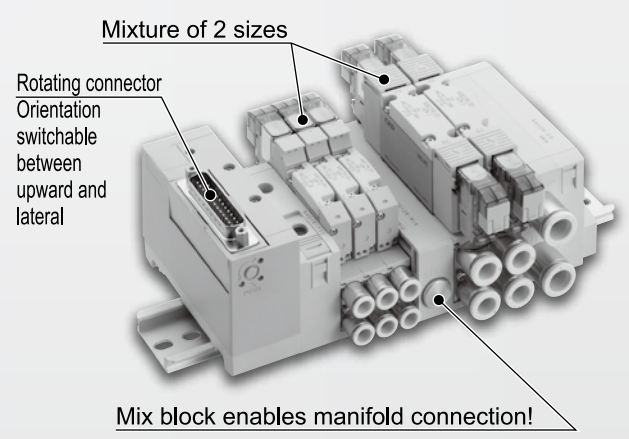unexplained stoppages.

Easy to use

Wiring connector upward/lateral common

Easier to select. Also compatible
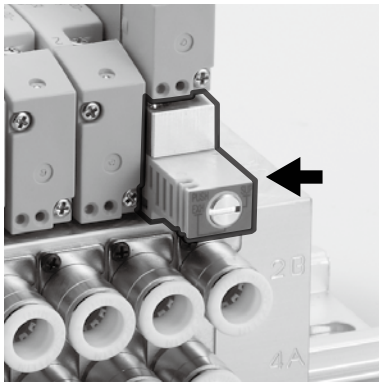with gauging installation changes.

Uses a rotating connector *New*

Orientation can be switched between upward and lateral.

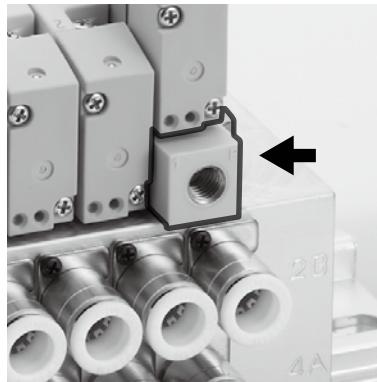## Mixture of 2 sizes

Mix block enables manifold connection.

Mixture of 2 sizes

Rotating connector
Orientation
switchable
between
upward and
lateral

Mix block enables manifold connection!

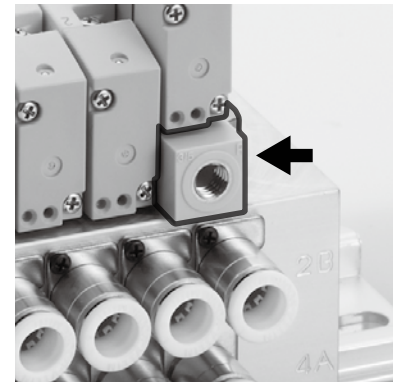**CKD**

Diverse options

In-stop valve spacer

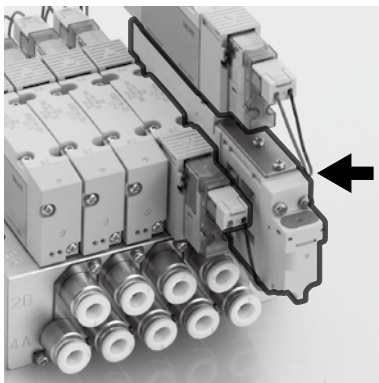Valves can be replaced individually without stopping production line operation!

Air supply spacer

Ideal for cylinder thrust adjustment by increasing/decreasing individual valve pressure!
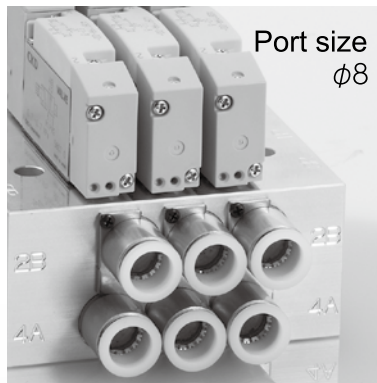

Exhaust spacer

Single acting cylinder malfunction prevention with individual exhaust!

Aggregated pilot check valve spacer

Ideal for cylinder position locking and braking over long periods!

Port size
$\phi 8$

Port size
$\phi 10$

4G1 metal manifold for C8, 4G2 metal manifold for C10

Larger fitting enables increased cylinder operation speed!

Voltage
(V)

— Surgeless option
--- Conventional surge suppressor

Approx. 1 V

Approx. 47 V

Time
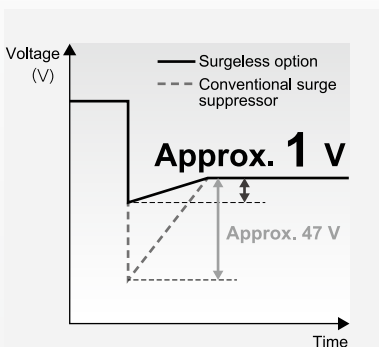
Voltage surgeless option

Coil surge voltage reduced by approx. 1 V to protect output contacts!
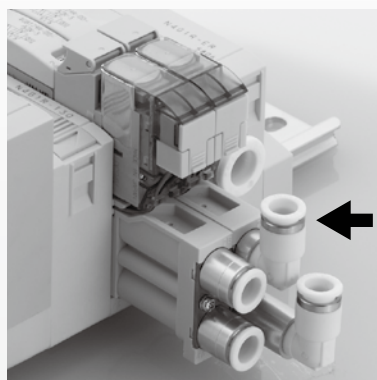
Pipe adaptor option for block manifold

Added piping direction variations increase the flexibility of valve installation!

CKD

Communication variations

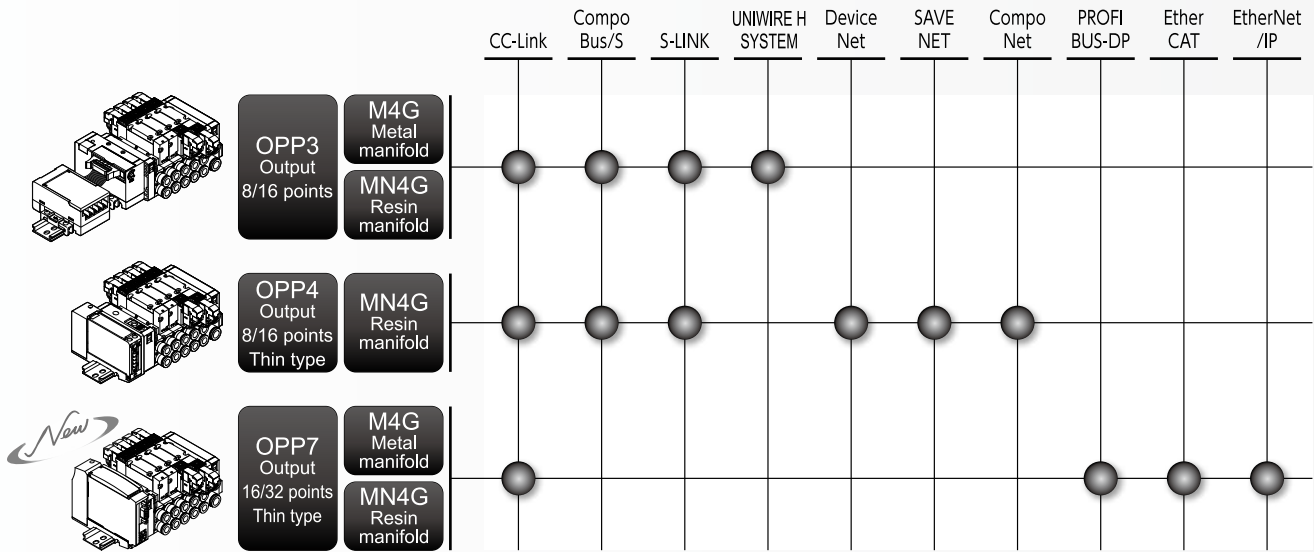|	CC-Link	Compo Bus/S	S-LINK	UNIWIRE H SYSTEM	Device Net	SAVE NET	Compo Net	PROFI BUS-DP	Ether CAT	EtherNet /IP
OPP3 Output 8/16 points — M4G Metal manifold / MN4G Resin manifold	●	●	●	●						
OPP4 Output 8/16 points Thin type — MN4G Resin manifold	●	●	●		●	●	●			
New **OPP7** Output 16/32 points Thin type — M4G Metal manifold / MN4G Resin manifold	●							●	●	●

4G1/B, 4GD/E: Comparison of applications/environments

Look for: "Air quality and required options"

		High-function **4GA/B R**	Standard **4GD/E R**
Reliable — Air quality	Ultra dry air/N2	◉ *1	○
	Dry air	◉ *1	○
	Oil-infiltrated air/low ozone	○	○
	Drain air	◉ *1	○
	Easy start-ups after long shutdown	◉ *2	○
	Low vacuum	○	
Safety	Exhaust check function	○	○
	Manual misoperation prevention function	○	○
	Prevents problems with foreign matter	○	○
Easy to use	Piping direction change	○	
	External pilot	○	
	Piping connector upward/lateral common	○	○
	Tools not required for manual override	○	○

◉ Ideal ○ Compatible