

4GA/B

M4GA/B

MN4GA/B

4GA/B

(master)

4GB

With sensor

4GD/E

M4GD/E

MN4GD/E

4GA/B4

MN3E

MN4E

W4GA/B2

W4GB4

MN3S0

MN4S0

4SA/B0

4KA/B

4KA/B

(master)

4F

4F

(master)

PV5G

GMF

PV5

GMF

PV5S-0

3Q

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP

NVP

4G\*0EJ

4F\*0EX

4F\*0E

HNV

HSV

2QV

3QV

SKH

Silencer

TotAirSys

(Total Air)

TotAirSys

(Gamma)

Ending

# 4G's new era.

The 4G Series is evolving.  
With functions added for future use,  
the series responds to new  
demands while preserving the  
existing 4G Series concept.

Power consumption

**0.1w**With low exoergic/  
energy saving circuit**4GAB**

Power consumption

**0.35w**

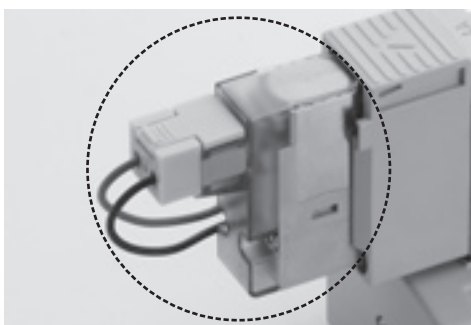
Standard products

## Environmental performance

Continuous energizing OK

(With low exoergic/energy saving circuit)

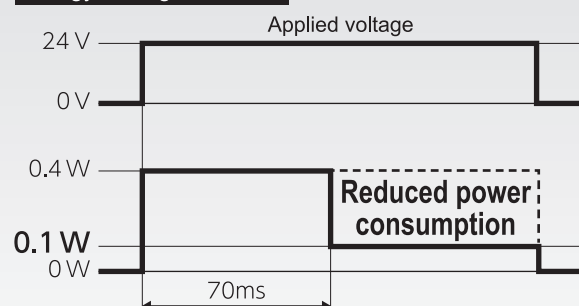
Uses a new coil actuator.

**4GAB**

Reduced power consumption

**4GAB**

Energy saving waveform



## Safety

Prevents manual misoperation

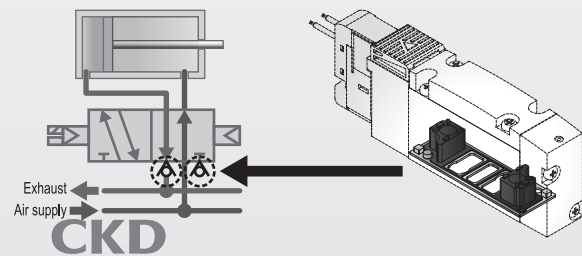
Manual override has a protective cover.



Helps prevent misoperation problems

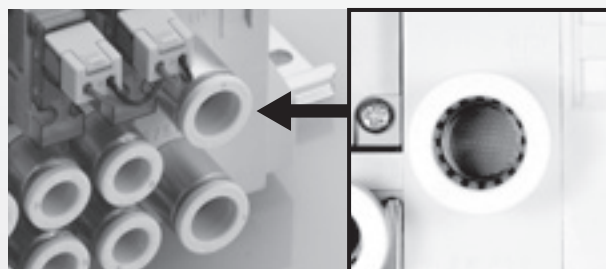
[Exhaust check valve]

Supports both metal base and resin block manifold (Model No. instructions)

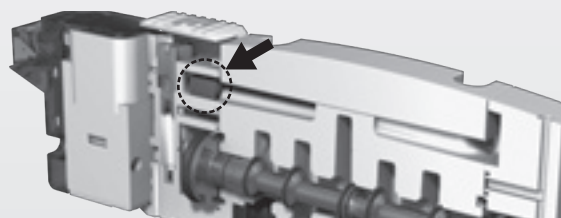


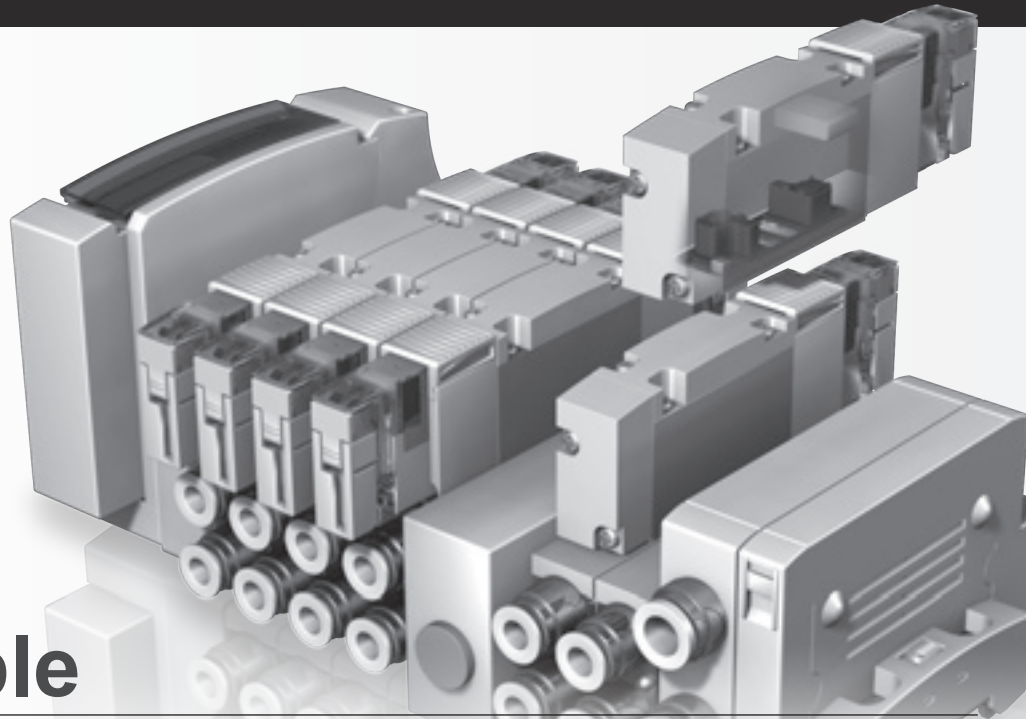
Prevents problems with foreign matter

- Air supply filter equipped as standard (A/B ports equipped as option)



- Internal pilot filter equipped as standard.





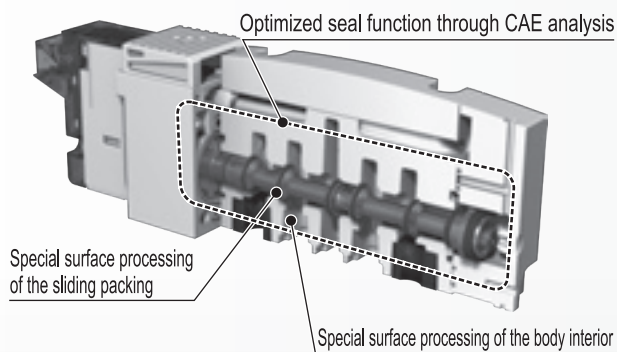
4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G
GMF
PV5
GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP
NVP
4G*0EJ
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

## Reliable

Low sliding/long service life realized

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

**4GAB**



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

Smooth start even after time off.

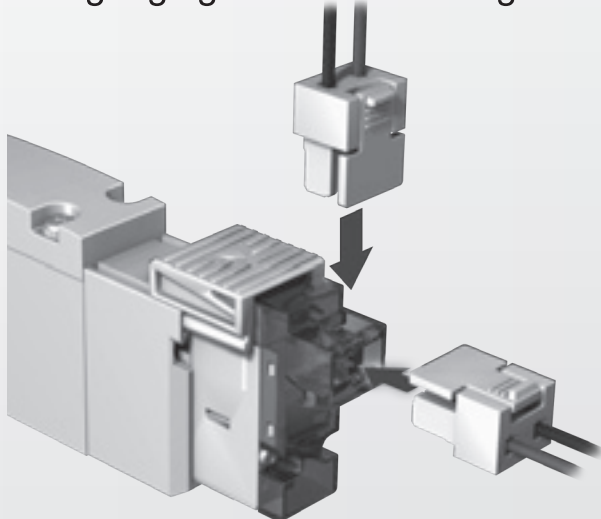
**4GAB**

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.

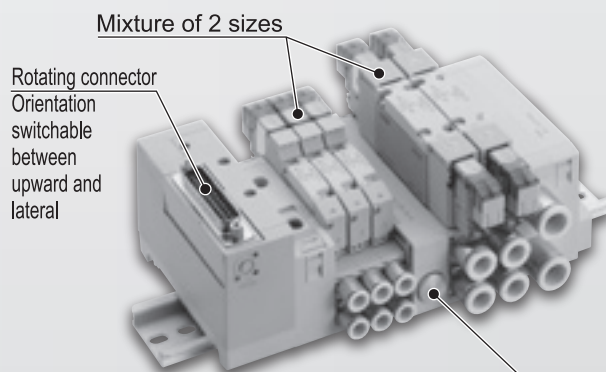


Uses a rotating connector

Orientation can be switched between upward and lateral.

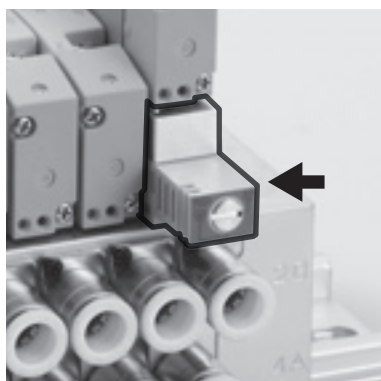
Mixture of 2 sizes

Mix block enables manifold connection.



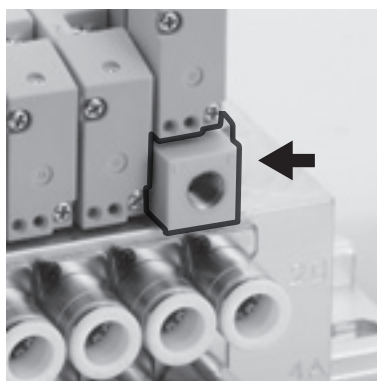
Mix block enables manifold connection!

# Diverse options



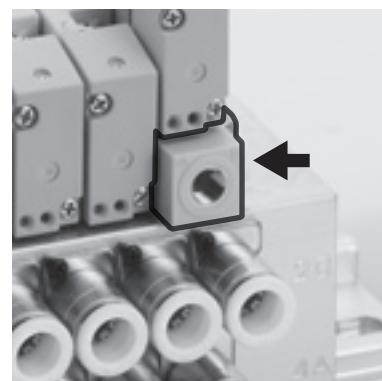
**In-stop valve spacer**

Valves can be replaced individually without stopping production line operation!



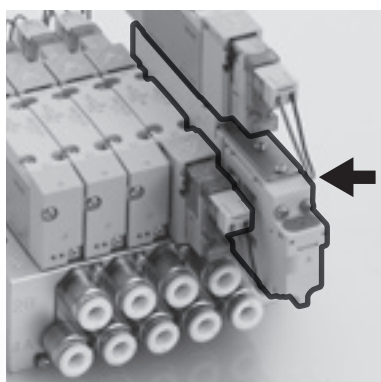
**Air supply spacer**

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!



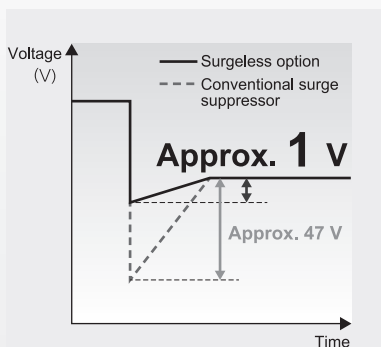
Port size  
ø8



Port size  
ø10

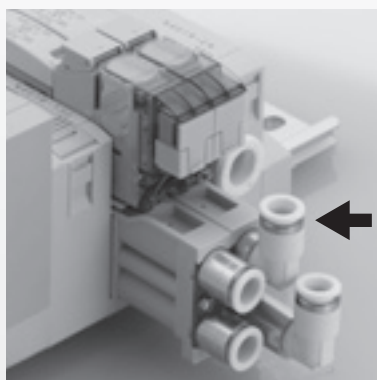
**4G1 metal manifold for C8, 4G2 metal manifold for C10**

Larger fitting enables increased cylinder operation speed!



**Voltage surgeless option**

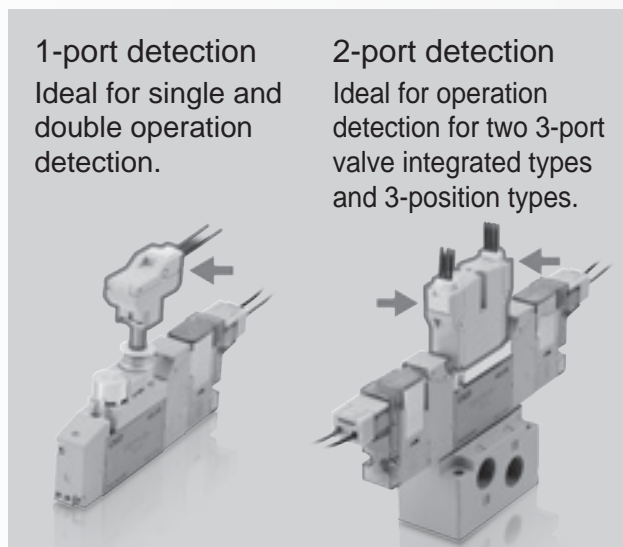
Coil surge voltage reduced by approx. 1 V to protect output contacts!



**Pipe adaptor option for block manifold**

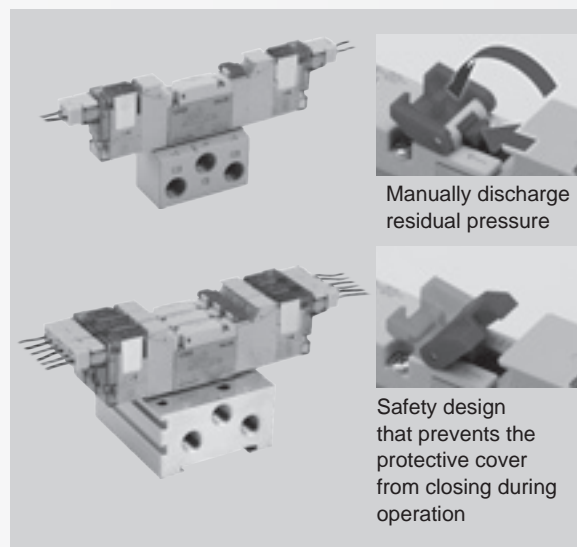
Added piping direction variations increase the flexibility of valve installation!

# Variety of options



**1-port detection**  
Ideal for single and double operation detection.

**2-port detection**  
Ideal for operation detection for two 3-port valve integrated types and 3-position types.



Manually discharge residual pressure

Safety design that prevents the protective cover from closing during operation

## With pressure sensor

Direct connection of a pressure sensor to the 4G Series enables monitoring of secondary pressure beyond the valve.

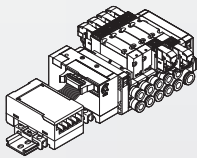
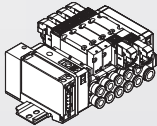
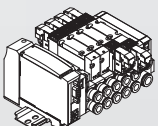
- Applications:
- Preventative maintenance of cylinders and valves
  - Operation confirmation of air-operated valves
  - Alternatives to cylinder switches

## With residual pressure exhaust

- › Residual pressure in port A/B can be manually discharged without reducing source pressure.
- › Safety design prevents protective cover from closing during manual operation.
- › Residual pressure exhaust valve is not required within piping.

# Automation communication protocols supported

EtherCAT, PROFIBUS-DP, ETHERNET/IP and CC-Link have 32 point output as networks in all levels of industry, available with both NPN and PNP current flow connections.

		CC-Link	Device Net	SAVE NET	Compo Net	PROFI BUS-DP	Ether CAT	EtherNet /IP	PROFI NET	CC-Link IE Field Basic
	M4G Metal manifold	●								
	MN4G Resin manifold									
	MN4G Resin manifold	●	●	●	●					
	M4G Metal manifold	●	●			●	●	●	●	●
	MN4G Resin manifold									

4GA/B
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MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G GMF
PV5 GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP NVP
4G*0EJ
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

## 4GA/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	<input checked="" type="radio"/>	<input type="radio"/>
		Dry air	<input checked="" type="radio"/>	<input type="radio"/>
		Oil-infiltrated air/low ozone	<input type="radio"/>	<input type="radio"/>
		Drain air	<input checked="" type="radio"/>	<input type="radio"/>
	Easy start-ups after long shutdown		<input checked="" type="radio"/>	<input type="radio"/>
Low vacuum		<input type="radio"/>		
Safety	Exhaust check function		<input type="radio"/>	<input type="radio"/>
	Manual misoperation prevention function		<input type="radio"/>	<input type="radio"/>
	Prevents problems with foreign matter		<input type="radio"/>	<input type="radio"/>
Easy to use	Piping direction change		<input type="radio"/>	
	External pilot		<input type="radio"/>	
	Piping connector upward/lateral common		<input type="radio"/>	<input type="radio"/>
	Tools not required for manual override		<input type="radio"/>	<input type="radio"/>

☒ Ideal   ☐ Compatible