

The New 4G. Get ready.

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

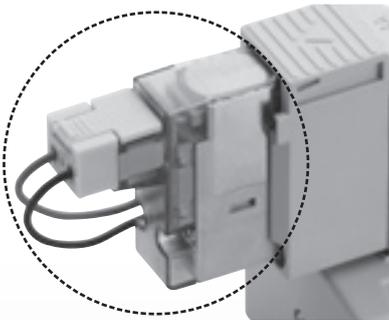
Power consumption
0.1 w
With low exoergic / energy saving circuit

Power consumption
0.35 w
Standard

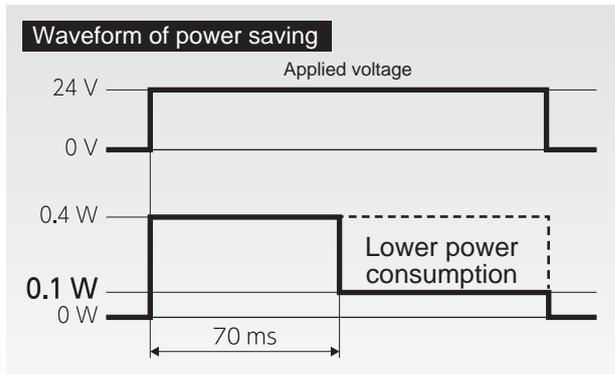
Environmental performance

Continuous energization OK
(With low exoergic/ energy saving circuit)

New coil actuator adopted



Lower power consumption



Safety

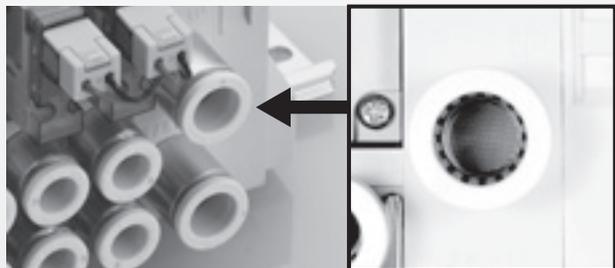
Prevents manual misoperation

Manual override has a protective cover.



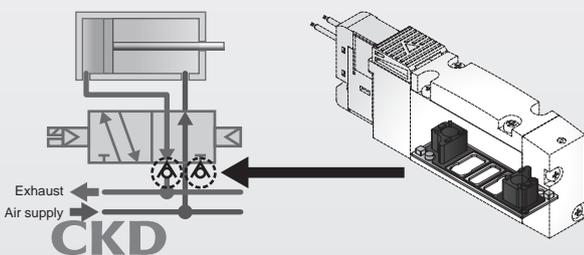
Prevents entry of foreign matter

- Supply filter equipped as standard (on A/B ports available as an option)

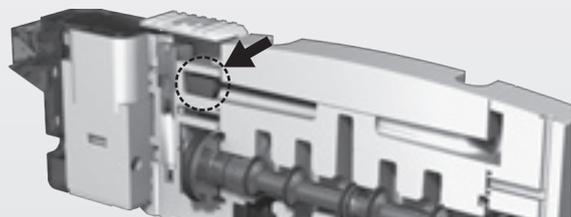


Helps prevent misoperations

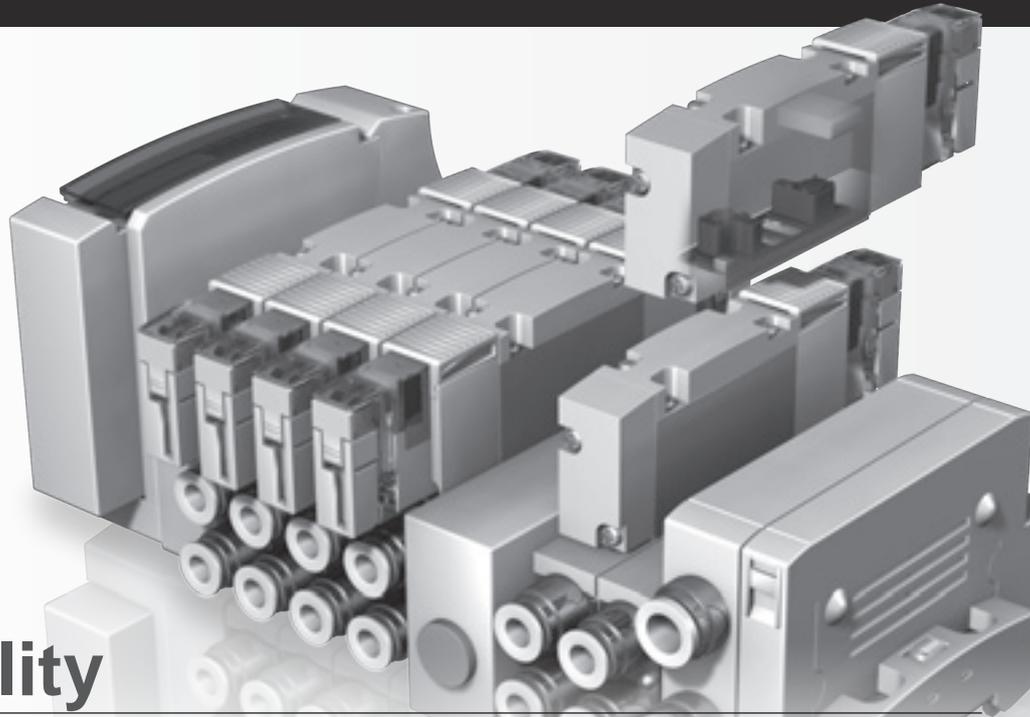
[Exhaust check valve]
Standard for both metal-base and resin block designs.



- Internal pilot filter is equipped as standard.



SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder switch
MN3E
MN4E
4GA/B
M4GA/B
MN4GA/B
F.R (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

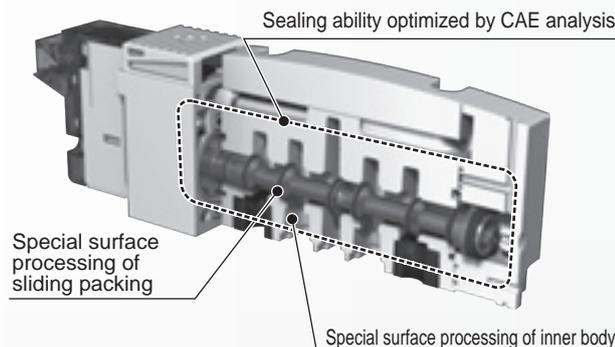


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LCG
LCX
STM
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GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

Reliability

Low friction with improved service life

Advanced sliding mechanism of main valve, achieves low friction/long service life.



Durability
More than **100 million cycles**
Single solenoid, under CKD set conditions.

Response time
12±2 ms
4G1

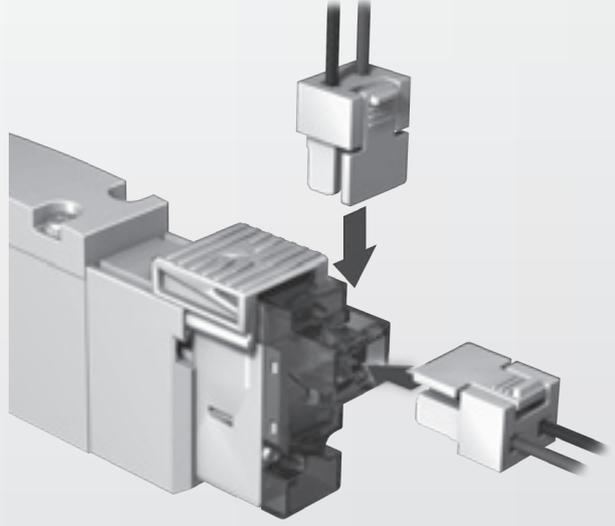
Improved response to unattended situation

Smooth start-up after weekend shut-down. Useful as measures against Monday morning troubles and unexplained stoppages.

Easy to use

Wiring connector facing-up/lateral common

Easy selection. Changes at gauging installation are supported.

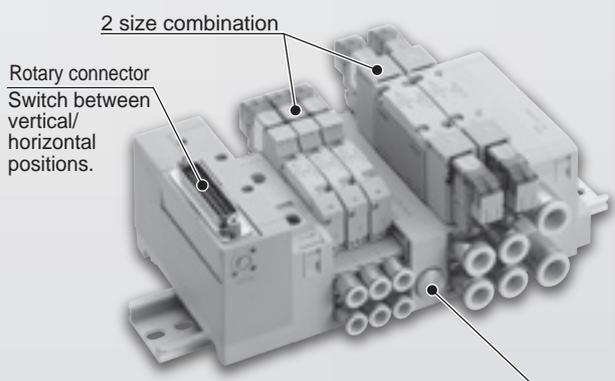


Uses a rotating connector

Switch between vertical/horizontal positions.

Combination of 2 sizes

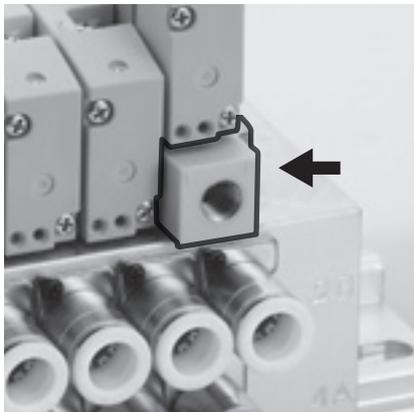
The manifolds can be connected with a mix block.



The manifolds can be connected with a mixed block!

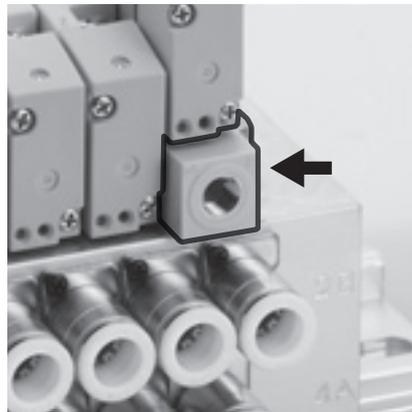
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Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/ tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

Variety of options



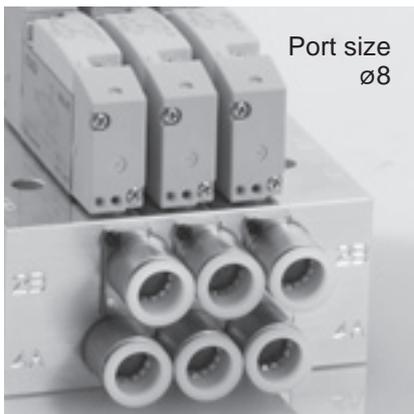
Air supply spacer

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



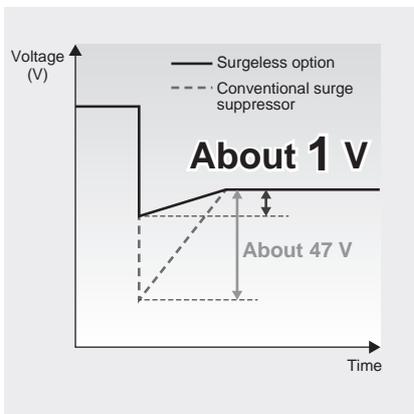
Exhaust spacer

Single acting cylinder malfunction prevention with individual exhaust!



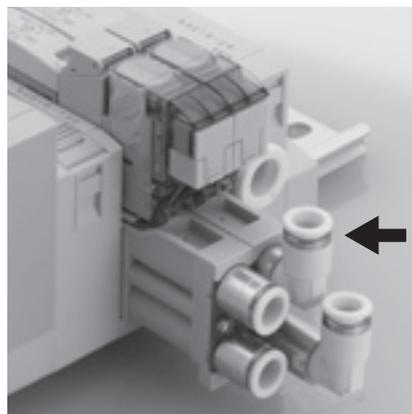
4G1 metal manifold for C8, 4G2 metal manifold for C10

Larger fitting enables increased cylinder operation speed!



Voltage surgeless option

Coil surge voltage is reduced to around 1 V to protect the output contacts!

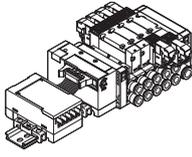
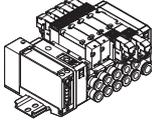
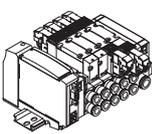


Piping adaptor option for block MF

Increasing flexibility to valve mounting by with variations of piping direction!

Communication Variety

EtherCAT, EtherNet/IP, PROFIBUS-DP and CC-Link, which are used as industrial networks at all levels, are now available in a series with 32 outputs and separate power supplies. (NPN, PNP standards supported)

	CC-Link	Device Net	SAVE NET	Compo Net	PROFI BUS-DP	Ether CAT	EtherNet /IP	PROFI NET	CC-Link IE Field Basic	CC-Link IE Field	IO-Link
 <p>OPP3 Output 8/16 points</p> <p>M4G Metal manifold</p> <p>MN4G Resin manifold</p>	●										
 <p>OPP4 Output 8/16 points Thin</p> <p>MN4G Resin manifold</p>	●	●	●	●							
 <p>OPP7 Output 16/32 points Thin</p> <p>M4G Metal manifold</p> <p>MN4G Resin manifold</p>	●	●			●	●	●	●	●	●	●

Comparison of application/environment 4GA/B, 4GD/E

Key points are "Air quality and required options."		High functionality type 4GA/B R
Reliability	Air quality	
	Ultra-dry air N2	◎
	Dry air	◎
	Oil-contaminated air/low ozone	○
	Drain air	◎
	Measures against Monday disease/temporary halt	◎
	Measures against low vacuum problem	○
Safety	Exhaust check function	○
	Manual misoperation prevention function	○
	Prevention of foreign matter entry	○
Easy to use	Piping direction change	○
	External pilot	○
	Wiring connector facing-up/lateral common	○
	No tool required for manual operating device	○

◎ Recommended ○ Supported

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SSD2
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