

# 4SA0/4SB0

**5 port pilot operated valve**

**Small pneumatic valve**

## Overview

The 4SA0 and 4SB0 Series miniature 5 port valve contributes to space-saving and weight reduction. This series is compatible for driving cylinders up to  $\varnothing 25$ .

## Features

### Space saving

The compact design has 10 mm valve width.

### Device weight reducing

Aluminum and resin are adopted for main components.

### Energy saving

Low wattage design (25 mA at 24 VDC).

### Wide variation of electric connection

The lead wire type, C/D-type connector are available in this series. Lights and surge suppressors can also be combined.

### Couple with electronic control

5 VDC, 6 VDC, 12 VDC and 24 VDC voltages are available with a low-wattage design. (25 mA at 24 VDC)

### Resource saving

Special soft packing seal is adopted, enabling use in an oil-free environment.

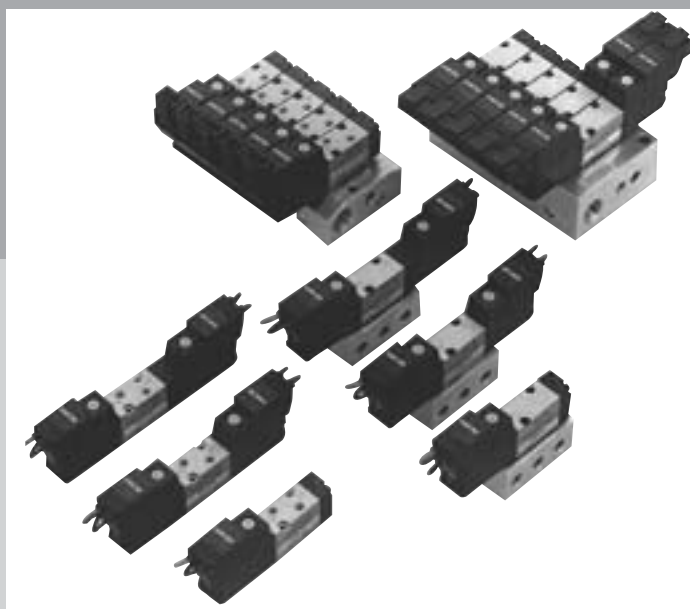
### Compatible with lines susceptible to copper

Through ideal material selection and special surface treatment, the generation of copper ion is prevented.

### Reduced wiring for PLC control

The flat cable connection and D sub-connector connections (radial, axial) are available as connection types. Reduced wiring can be applied to PLC control.

**⚠** Refer to the safety precautions on Introduction before starting use.



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MN3E0  
MN4E0

4GA/B

M4GA/B

MN4GA/B

4GA/B  
(Master)

W4GA/B2

W4GB4

MN3S0  
MN4S0

4TB

4L2-4/  
LMF0

**4SA/B0**

4SA/B1

4KA/B

4F

PV5G/  
CMF

PV5/  
CMF

3MA/B0

3PA/B

P/M/B

NP/NAP/  
NVP

4F\*0E

HMV  
HSV

2QV  
3QV


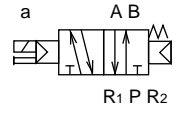
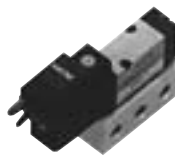
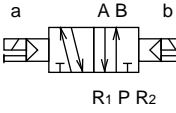

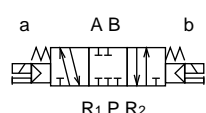
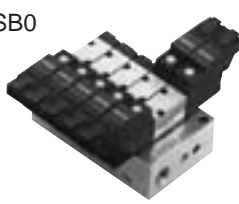
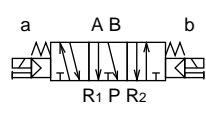
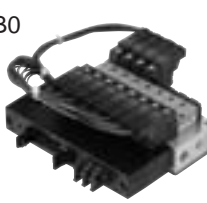
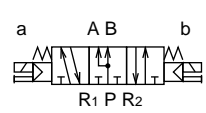
SKH

PCD/  
FS/FD

Ending

5 port pilot operated valve

MN3E0
MN4E0
4GA/B
M4GA/B
MN4GA/B
4GA/B (Master)
W4GA/B2
W4GB4
MN3S0
MN4S0
4TB
4L2-4/LMFO
<b>4SA/B0</b>
4SA/B1
4KA/B
4F
PV5G/CMF
PV5/CMF
3MA/B0
3PA/B
P/M/B
NP/NAP/NVP
4F*0E
HMV/HSV
2QV/3QV
SKH
PCD/FS/FD
Ending

Series and piping method		No. of port	Position No. of solenoid JIS symbol	Valve performance			Voltage (V)
				Effective sectional area S (mm <sup>2</sup> )	Flow characteristics C (dm <sup>3</sup> / (s·bar)) Note 1	Applicable cylinder Diameter	
Discrete	Body porting	5 port	4SA0  2-position single solenoid 	0.9	-	ø6 to ø25	24 DC 12 DC
	Sub-plate porting		4SB0  2-position double solenoid 	-	0.29 to 0.33		Option 6 DC 5 DC
Individual wiring manifold	Body porting	5 port	M4SA0  3-position all ports closed 	0.9	-	ø6 to ø25	24 DC 12 DC
	Sub-plate porting		M4SB0  3-position A/B/R connection 	-	0.29 to 0.32		Option 6 DC 5 DC
Reduced wiring manifold	Sub-plate porting	5 port	M4SB0  3-position P/A/B connection 	-	0.29 to 0.32	ø6 to ø25	24 DC 12 DC Option 6 DC 5 DC

Note 1: Effective sectional area S and sonic conductance C are converted as  $S \approx 5.0 \times C$ .

	Solenoid position						A/B port port size					Electric connection					Page
	2-position single solenoid	2-position double solenoid	3-position all ports closed	3-position A/B/R connection	3-position P/A/B connection	Mix manifold	Barbed joint		Female thread		ø4 push-in joint	Grommet lead wire	C-connector	D-connector	D sub-connector	Flat cable connector	
							ø4 barbed joint	ø6 barbed joint	M3	M5							
																	708
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																	716
																	720

Note: Refer to the following page for details on electric connection and other options.

MN3E0
MN4E0
4GA/B
M4GA/B
MN4GA/B
4GA/B (Master)
W4GA/B2
W4GB4
MN3S0
MN4S0
4TB
4L2-4/LMF0
<b>4SA/B0</b>
4SA/B1
4KA/B
4F
PV5G/CMF
PV5/CMF
3MA/B0
3PA/B
P/M/B
NP/NAP/NVP
4F*0E
HMV
HSV
2QV
3QV
SKH
PCD/FS/FD
Ending

5 port pilot operated valve