

\* Refer to page 625 for a block manifold.

- 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

Appearance of series external		Model No.	Position No. of solenoid JIS symbol	Valve performance		Voltage (V)	Switching position														
				Flow characteristics [dm <sup>3</sup> /(s·bar)] (*1)	Applicable cylinder bore size (ø)		2-position			3-position											
							Normally closed	Normally open	Single	Double	All ports closed	ABR connection	PAB connection								
Discrete		Body piping	3-port	3GA1	● 3-port valve 2-position single NC 	0.66 to 0.70	20 to 40	AC100	●	●											
				3GA2		2.2 to 2.7	40 to 80		●	●											
				3GA3		3.9	63 to 100		●	●											
		Base piping	5-port	4GA1	2-position single NO 	0.66 to 0.70	20 to 40		AC200			●	●	●	●						
				4GA2		2.4 to 2.7	40 to 80					●	●	●	●						
				4GA3		3.2 to 4.0	63 to 100					●	●	●	●						
	Base piping	3-port	3GB1	● 5-port valve 2-position single 	1.0	20 to 40	DC24														
			3GB2		2.1	40 to 80															
		5-port	4GB1		1.1 to 1.3	20 to 40						●	●	●	●	●					
			4GB2		2.2 to 2.5	40 to 80						●	●	●	●	●					
Individual wiring manifold		Body piping	Direct mount DIN rail mount (-D)	M4GA1	2-position double 	0.66 to 1.0		20 to 40		AC100	●	●	●	●	●						
				M4GA2		1.7 to 2.5		40 to 80			AC200	●	●	●	●	●					
				M4GA3		2.5 to 3.3		63 to 100				DC24	●	●	●	●	●				
		Base piping	Direct mount DIN rail mount (-D)	M4GB1	2-position double 	0.67 to 1.0		20 to 40	DC12						●	●	●	●			
				M4GB2		1.6 to 2.4		40 to 80							●	●	●	●			
				M4GB3		2.6 to 3.3		63 to 100							●	●	●	●			
	Base piping	Direct mount DIN rail mount (-D)	3-position all ports closed	M4GA1	3-position all ports closed 	0.66 to 1.0	20 to 40	DC24					●	●	●	●	●	●			
				M4GA2		1.7 to 2.5	40 to 80						DC12	●	●	●	●	●			
				M4GA3		2.5 to 3.3	63 to 100							DC24	●	●	●	●	●		
				Body piping		Direct mount	Terminal (-T1□) Connector (-T30, -T5□)								M4GA1	3-position A/B/R connection 	0.66 to 1.0	20 to 40	DC24	●	●
M4GA2	1.7 to 2.5	40 to 80	DC12		●					●					●		●	●			
M4GA3	2.5 to 3.3	63 to 100			DC24					●	●				●		●	●			
Body piping	Mount DIN rail	Terminal (-T1□D) Connector (-T30D, -T5□D)		M4GA1		3 positions P/A/B connection 	0.66 to 1.0			20 to 40	DC24	●			●	●	●	●			
				M4GA2			1.7 to 2.5		40 to 80	DC12		●			●	●	●	●			
				M4GA3			2.5 to 3.3		63 to 100			DC24			●	●	●	●		●	
Base piping	Direct mount	Terminal (-T1□) Connector (-T30, -T5□)		M4GB1		● Dual 3-port valve integrated NC/NC 	0.66 to 1.0		20 to 40						DC24	●	●	●		●	●
				M4GB2			1.7 to 2.5	40 to 80	DC12							●	●	●		●	●
				M4GB3			2.5 to 3.3	63 to 100					DC24			●	●	●		●	●
	Mount DIN rail	Terminal (-T1□D) Connector (-T30D, -T5□D)		M4GB1			0.67 to 1.0	20 to 40						DC24				●		●	●
				M4GB2			1.6 to 2.4	40 to 80								DC12			●	●	●
			M4GB3	2.6 to 3.3			63 to 100	DC24											●	●	●
Mount DIN rail	Terminal (-T1□D) Connector (-T30D, -T5□D)	M4GB1	NO/NC 	0.66 to 1.0	20 to 40	DC24												●	●	●	●
		M4GB2		1.7 to 2.5	40 to 80		DC12											●	●	●	●
		M4GB3		2.5 to 3.3	63 to 100					DC24								●	●	●	●
Mount DIN rail	Terminal (-T1□D) Connector (-T30D, -T5□D)	M4GB1	NO/NO 	0.67 to 1.0	20 to 40						DC24							●	●	●	●
		M4GB2		1.6 to 2.4	40 to 80							DC12						●	●	●	●
		M4GB3		2.6 to 3.3	63 to 100				DC24									●	●	●	●
Mount DIN rail	Terminal (-T1□D) Connector (-T30D, -T5□D)	M4GB1	NO/NO 	0.67 to 1.0	20 to 40								DC24					●	●	●	●
		M4GB2		1.6 to 2.4	40 to 80									DC12				●	●	●	●
		M4GB3		2.6 to 3.3	63 to 100										DC24			●	●	●	●



# 4GA1 to 3/4GB1 to 3 Series

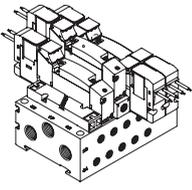
	Electrical connections				Manual override	Other options
	Discrete valve/individual wiring manifold		Reduced wiring manifold			
SCPD3	<b>Blank</b> Grommet lead wire (A)	<b>E3</b> E connector socket terminal attached (B)(C)	<b>T10</b> <b>T11</b> Common terminal block (left side) M3 thread/clamping	<b>T51</b> <b>T52</b> <b>T53</b> Flat cable without power supply terminal (left side)	<b>Blank</b> Non-locking/locking common	<b>H</b> With exhaust check valve
SSD2	● Lead wire length 300 mm				(standard)	
MDC2						Provided as standard for pilot exhaust
SMG						
LCM						
LCR						
LCG						
LCX	<b>E0</b> E connector (A)	<b>A2N</b> A connector facing down without socket	<b>T10R</b> <b>T11R</b> Common terminal block (right side) M3 thread/clamping	<b>T51R</b> <b>T52R</b> <b>T53R</b> Flat cable without power supply terminal (right side)		<b>P</b> Mounting plate
STM	● Lead wire length 300 mm 500 mm 1000 mm 2000 mm 3000 mm					
STG						Discrete (only body piping)
STR2						
MRL2	<b>E0N</b> E connector without socket	● For AC voltage, dimension a is 3.5 mm ① longer than that for DC voltage.	<b>T30</b> D sub-connector (left)	<b>T6<sup>0</sup></b> Serial transmission	(1) For non-locking, push to turn ON, release to turn OFF  (2) For locking, push and turn 90° clockwise to hold the ON state. Turn counterclockwise to unlock OFF	<b>K</b> External pilot
GRC						
Cylinder switch						
MN3E MN4E						
4GA/B						
M4GA/B	<b>E1</b> E connector with socket/terminal	<b>B</b> DIN terminal box (BN: no terminal box)	<b>T30R</b> D sub-connector (right)	<b>T8<sup>1</sup></b> Serial transmission (thin)	<b>M</b> Non-locking	<b>A</b> Ozone/cutting oil proof
MN4GA/B						Select for cutting oil inflow and ozone measures.
F.R (module unit)						
Clean F.R						
Precision R						
Press gauge Diff. press gauge	<b>E2</b> E connector (A)(B)(C)	<b>E0*J</b> EJ connector (A)	<b>T50</b> Flat cable with power supply terminal (left side)			<b>F</b> A/B port filter integrated
Electro-pneumatic R	● Lead wire length 300 mm 500 mm 1000 mm 2000 mm 3000 mm					
Speed controller						Filter
Auxiliary valve						
Fitting/tube						
Clean air unit	<b>E2N</b> E connector without socket (B)(C)	<b>E2*J</b> EJ connector (A)(B)(C)	<b>T50R</b> Flat cable with power supply terminal (right side)			
Pressure sensor						
Flow rate sensor						
Valve for air blow						
Ending						

(A): with lead wire  
(B): with lamp  
(C): with surge suppressor

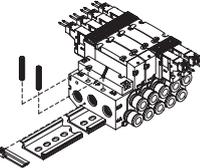
## Electric connection circuit diagram

**Other options**

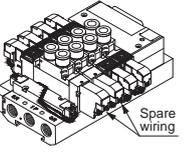
**Z1** Air supply spacer  
**Z3** Exhaust spacer

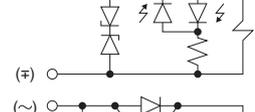
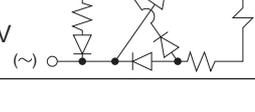
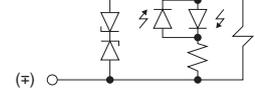
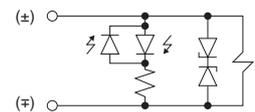
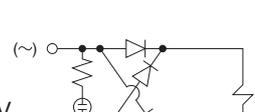
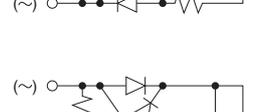
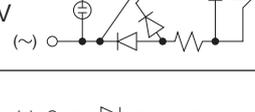
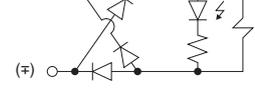
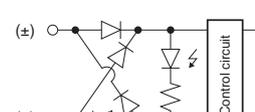


**D** DIN rail mount



**W1** Double wiring (with single spare wiring)



Electrical connections		Without lead wire	With lead wire	With lamp	With surge suppressor	Without socket	Circuit diagram
Blank	Grommet lead wire		●				DC 
	E connector		●				DC 
E0	E connector		●				DC 
E0*J	EJ connector		●				DC 
E0N	E connector					●	AC 100V 
E1	E connector	●					AC 100V 
E2	E connector		●	●	●		DC 
E2*J	EJ connector		●	●	●		DC 
E2N	E connector			●	●	●	AC 100V 
E3	E connector	●		●	●		AC 100V 
A2N	A connector			●	●	●	DC 
B	DIN terminal box	●		●	●		DC 
BN	DIN terminal box (No terminal box)	●			●		AC 100V 
Option S	E2		●	●	●		DC 
	E2*J		●	●	●		DC 
	E2N			●	●	●	AC 200V 
Option E	E2		●	●	●		DC 
	E2*J		●	●	●		DC 
	E2N			●	●	●	DC 

- 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