

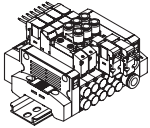
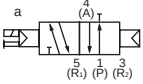
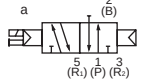
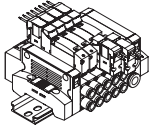
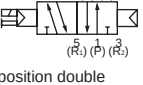
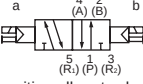
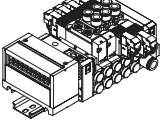
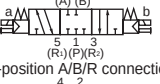
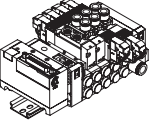
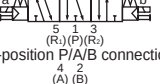
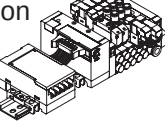
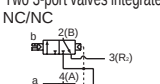
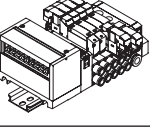
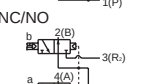
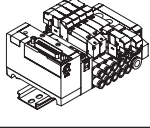
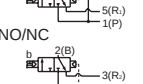
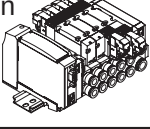
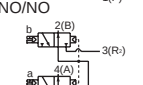
Series variation

MN4GA/4GB Series

* Refer to page 7 for metal base (integrated).

* Refer to page 321 for the master valve.

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
HMV HSV
2QV 3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

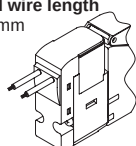
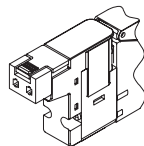
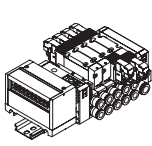
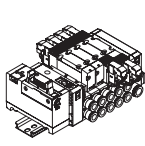
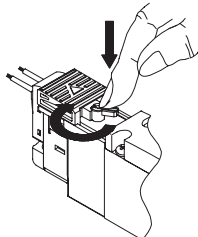
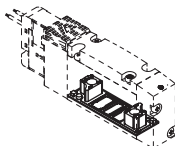
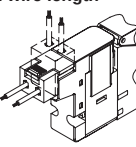
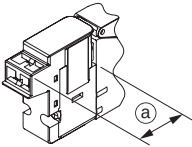
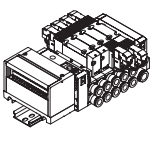
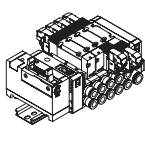
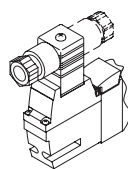
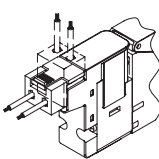
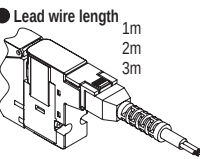
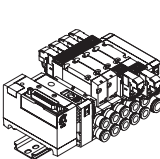
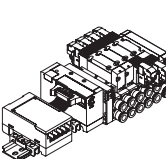
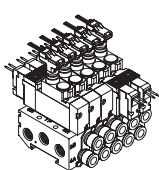
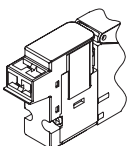
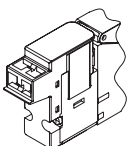
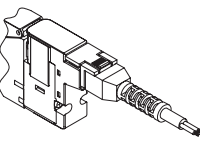
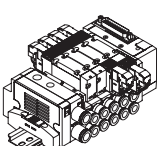
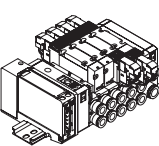
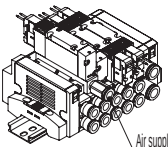
Series appearance		Model No.	Electrical connections	Position Number of solenoids JIS symbol	Valve performance		Voltage (V)	
					Flow characteristics C [dm ³ /(s·bar)]	Applicable cylinder bore size		
					*1			
Individual wiring manifold	Body piping	MN4GA180R 	MN4GA1 Blank -E ☐	● 3-port valve 2-position single NC  2-position single NO 	1.0 to 1.2	ø20 to ø40	100 AC	
			MN4GA2 Blank -E ☐ -B		2.2 to 2.5	ø40 to ø80	200 AC	
	Base piping	MN4GB180R 	MN4GB1 Blank -E ☐	● 5-port valve 2-position single  2-position double 	1.0 to 1.2	ø20 to ø40	24 DC	
			MN4GB2 Blank -E ☐ -B		2.2 to 2.5	ø40 to ø80	12 DC	
Reduced wiring manifold	Body piping	Terminal MN4GA280R 	MN4GA1 (N3GA1) (N4GA1)	-T10 -T11 (-A2N) 	1.0 to 1.2	ø20 to ø40	24 DC	
			MN4GA2 (N3GA2) (N4GA2)		2.2 to 2.5	ø40 to ø80	12 DC	
		Connector MN4GA280R 	MN4GA1 (N3GA1) (N4GA1)	3-position A/B/R connection 	1.0 to 1.2	ø20 to ø40	24 DC	
			MN4GA2 (N3GA2) (N4GA2)		2.2 to 2.5	ø40 to ø80	12 DC	
		Serial transmission MN4GA180R 	MN4GA1 (N3GA1) (N4GA1)	3-position P/A/B connection 	1.0 to 1.2	ø20 to ø40	24 DC	
			MN4GA2 (N3GA2) (N4GA2)		2.2 to 2.5	ø40 to ø80	24 DC	
	Base piping	Terminal MN4GB180R 	MN4GB1 (N4GB1)	● Two 3-port valves integrated NC/NC 	1.0 to 1.2	ø20 to ø40	24 DC	
			MN4GB2 (N4GB2)		2.2 to 2.5	ø40 to ø80	12 DC	
		Connector MN4GB180R 	MN4GB1 (N4GB1)	NC/NO 	1.0 to 1.2	ø20 to ø40	24 DC	
			MN4GB2 (N4GB2)		2.2 to 2.5	ø40 to ø80	12 DC	
		Serial transmission MN4GB280R 	MN4GB1 (N4GB1)	NO/NC 	1.0 to 1.2	ø20 to ø40	24 DC	
			MN4GB2 (N4GB2)		2.2 to 2.5	ø40 to ø80	24 DC	

Series variation

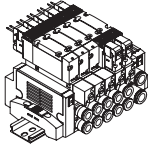
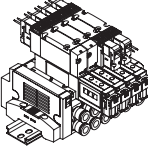
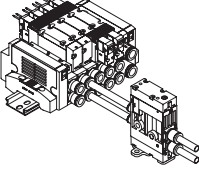
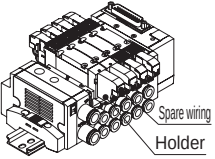
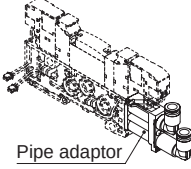
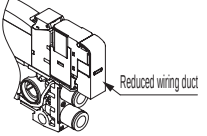
*4: Specifications for reduced wiring equipped manifolds. Only 12/24 VDC is supported.

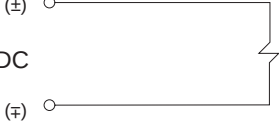
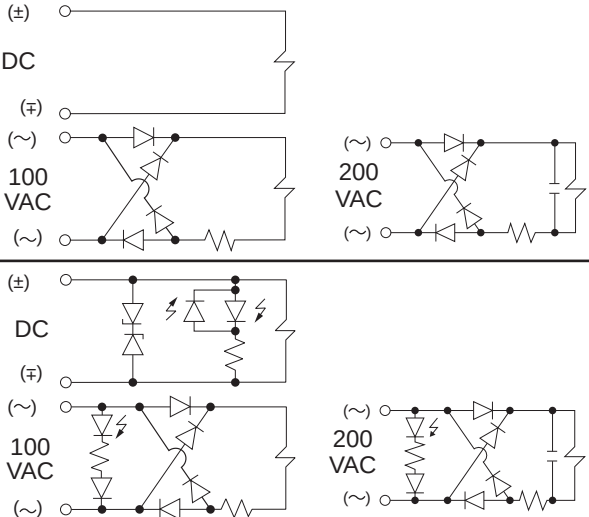
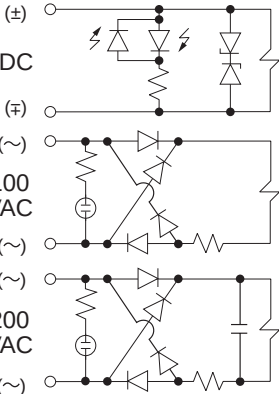
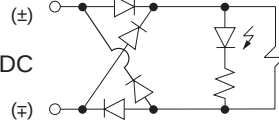
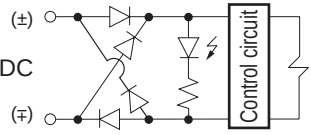
4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA/B4
MN3E
MN4E
W4GA/B2
W4GB4
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G GMF
PV5 GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP NVP
4G*0EJ
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys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

MN4GA/4GB Series

	Electrical connections				Manual override	Other options
	Discrete valve/individual wiring manifold		Reduced wiring manifolds			
4GA/B	Blank Grommet lead wire (A) ● Lead wire length 300mm 	E3 E-connector with socket/terminal (B)(C) 	T10 Common terminal block M3 thread specifications (left) 	T50 Flat cable with power supply terminal (left side) 	Blank Non-locking/locking common (Standard equipment) 	H With exhaust check valve  Standard for pilot exhaust
M4GA/B						EO E-connector (A) ● Lead wire length 300mm 500mm 1m 2m 3m 
MN4GA/B4	E0N E-connector without socket ● For AC voltages, the (A) dimension is 3.5mm longer than for DC voltages. 	T11 Common terminal block clamping specifications (left side) 	T5 1/2 3 Flat cable/power supply terminal and (Left) 	(1) For non-locking, push to turn ON and release to turn OFF (2) For locking, push and turn 90° clockwise to hold the ON state. Turn counterclockwise to release OFF	A Ozone/cutting fluid proof product Ozone-proofing can be selected to prevent coolant from entering.	
MN3E MN4E					E1 E-connector with socket/terminal	B BN DIN terminal box (BN):without terminal box 
4KA/B	E2 E-connector (A)(B)(C) 	E0*J EJ-connector (A) ● Lead wire length 1m 2m 3m 	T30 D-sub-connector (Left) 	T6G1 Serial transmission 		G1 G2 Pressure sensor 
4GB With sensor						E2N E-connector without socket (B)(C) 
4GD/E	E2N E-connector without socket (B)(C) 	E2*J EJ-connector (A)(B)(C) 	T30R D-sub-connector (Right) 	T7*0 T7*1 Serial transmission thin slot type 		Z1 Z3 Air supply spacer Exhaust spacer  Air supply spacer
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						
HMV HSV						
2QV 3QV						
SKH						
Silencer						
TotAirSys (Total Air)						
TotAirSys (Gamma)						
Ending						

Electric connection circuit diagram

Other options	
Z2	In-stop valve spacer
	
Z6	Spacer pilot check valve
	
Pilot check valve (separate) * Refer to page 194	
	
W1	Single spare wiring
	
L	With pipe adaptor
	
Q	Reduced wiring duct
	

Electrical connections		Without wire	With lead wire	With indicator lamp	With surge suppressor	Without socket	Circuit diagram
Blank	Grommet lead wire		●				
	E0		●				
	E0*J		●				
	E0N					●	
	E1	●					
Blank	E2		●	●	●		
	E2*J		●	●	●		
	E2N			●	●	●	
	E3	●		●	●		
	A2N			●	●	●	
Blank	B		●	●	●		
	BN						
Option S	E2		●	●	●		
	E2*J		●	●	●		
	E2N			●	●	●	
	A2N			●	●	●	
Option E	E2		●	●	●		
	E2*J		●	●	●		
	E2N			●	●	●	
	A2N			●	●	●	

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