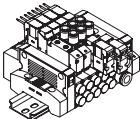
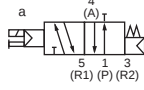
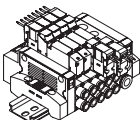
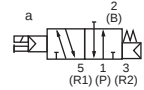
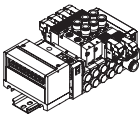
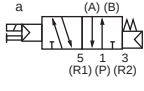
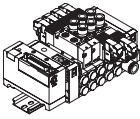
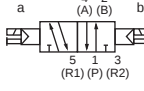
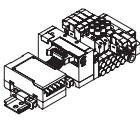
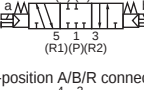
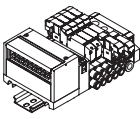
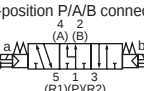
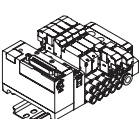
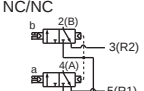
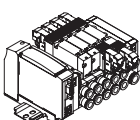


Series variation

MN4GD/4GE Series

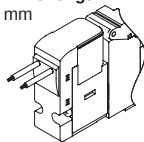
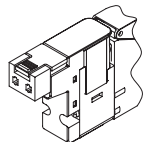
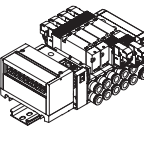
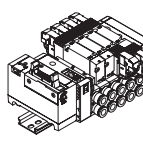
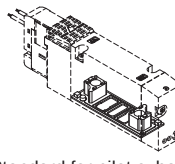
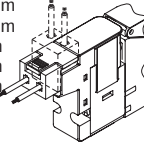
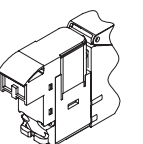
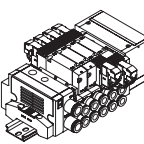
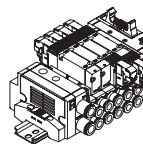
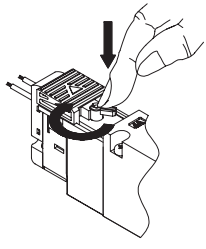
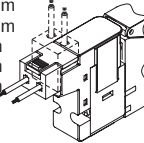
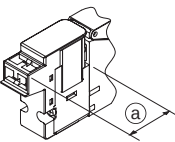
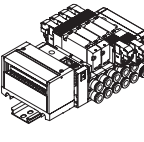
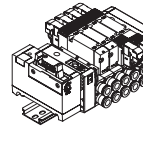
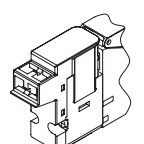
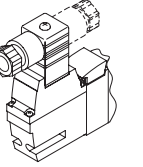
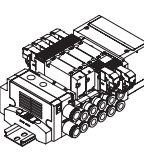
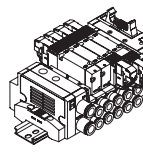
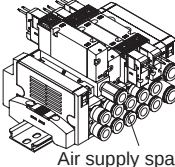
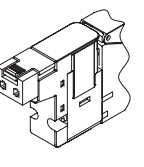
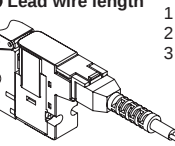
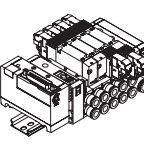
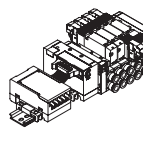
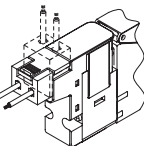
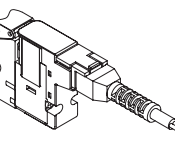
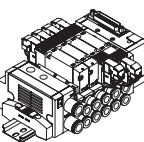
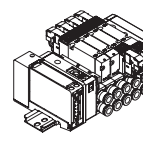
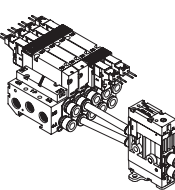
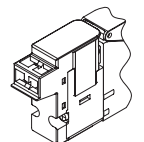
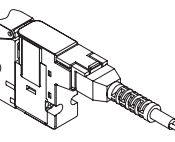
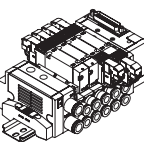
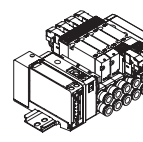
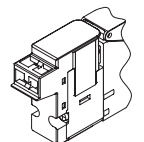
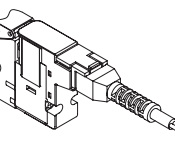
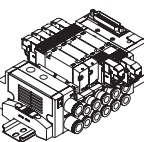
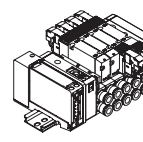
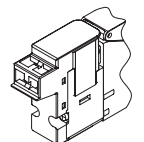
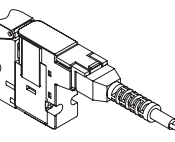
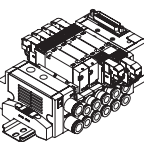
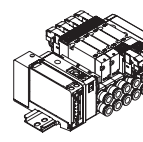
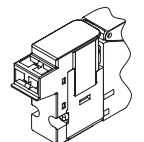
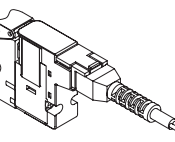
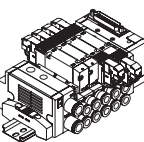
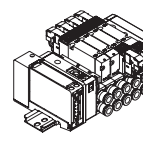
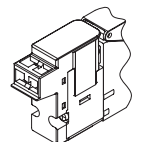
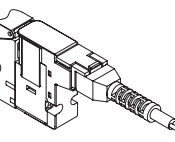
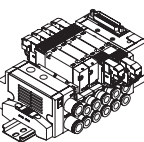
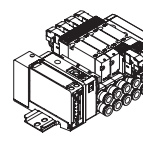
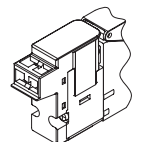
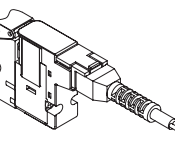
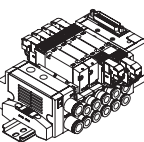
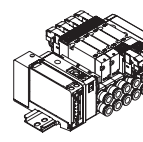
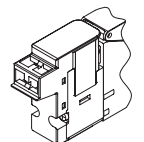
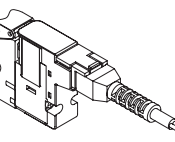
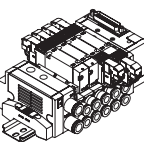
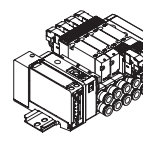
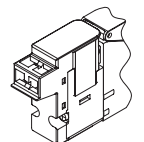
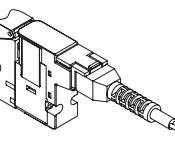
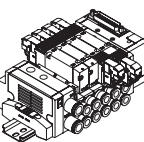
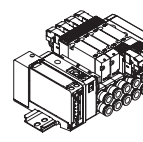
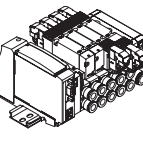
* Refer to page 437 for metal base (integrated).

	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	MN4GD180R		MN4GD1	Blank -E□	● 3-port valve 2-position single NC 	1.0 to 1.2	ø20 to ø40	100 AC 200 AC 24 DC 12 DC (*2)
				MN4GD2	Blank -E□ -B		2.2 to 2.5	ø40 to ø80	
	Base piping	MN4GE180R		MN4GE1	Blank -E□	2-position single NO 	1.0 to 1.2	ø20 to ø40	
				MN4GE2	Blank -E□ -B		2.2 to 2.5	ø40 to ø80	
Reduced wiring manifold	Body piping	Terminal MN4GD280R		MN4GD1 (N3GD1) (N4GD1)	-T10 -T11 (-A2N)	● 5-port valve 2-position single 	1.0 to 1.2	ø20 to ø40	24 DC 12 DC
				MN4GD2 (N3GD2) (N4GD2)			2.2 to 2.5	ø40 to ø80	
		Connector MN4GD280R		MN4GD1 (N3GD1) (N4GD1)	-T30 -T5□ (-A2N)	2-position double 	1.0 to 1.2	ø20 to ø40	24 DC 12 DC
				MN4GD2 (N3GD2) (N4GD2)			2.2 to 2.5	ø40 to ø80	
		Serial transmission MN4GD180R		MN4GD1 (N3GD1) (N4GD1)	-T6G1 -T7□ -T8□ (-A2N)	3-position all ports closed 	1.0 to 1.2	ø20 to ø40	24 DC
				MN4GD2 (N3GD2) (N4GD2)			2.2 to 2.5	ø40 to ø80	
	Base piping	Terminal MN4GE180R		MN4GE1 (N4GE1)	-T10 -T11 (-A2N)	3-position A/B/R connection 	1.0 to 1.2	ø20 to ø40	24 DC 12 DC
				MN4GE2 (N4GE2)			2.2 to 2.5	ø40 to ø80	
		Connector MN4GE180R		MN4GE1 (N4GE1)	-T30 -T5□ (-A2N)	3-position P/A/B connection 	1.0 to 1.2	ø20 to ø40	24 DC 12 DC
				MN4GE2 (N4GE2)			2.2 to 2.5	ø40 to ø80	
		Serial transmission MN4GE280R		MN4GE1 (N4GE1)	-T6G1 -T7□ -T8□ (-A2N)	● Two 3-port valves integrated NC/NC 	1.0 to 1.2	ø20 to ø40	24 DC
				MN4GE2 (N4GE2)			2.2 to 2.5	ø40 to ø80	

*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	
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	

MN4GD/4GE Series

	Electrical connections				Manual operating device	Other options
	Discrete valve/individual wiring manifold		Reduced wiring manifold			
4GA/B	Blank Grommet lead wire (A)	E3 E-connector with socket/terminal (B)(C)	T10 Common terminal block M3 thread specifications (left side)	T50 Flat cable with power supply terminal (left side)	Blank Non-locking/locking common	H With exhaust check valve
4GA/B (master)	● Lead wire length 300 mm 				(Standard equipment)	 Standard for pilot exhaust
4GB With sensor						
4GD/E	● Lead wire length 300 mm 500 mm 1 m 2 m 3 m 	A2N A-connector downward without socket 	T10R Common terminal block M3 thread specifications (right side) 	T50R Flat cable with power supply terminal (right side) 	 (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 release OFF	A Ozone/cutting fluid proof product
M4GD/E						Select for coolant inflow and ozone measures.
MN4GD/E						
4GA4/B4						
MN3E MN4E	EO E-connector (A) ● Lead wire length 300 mm 500 mm 1 m 2 m 3 m 	For AC voltage, a dimension is 3.5 mm longer than DC voltage. 	T11 Common terminal block clamping specifications (left side) 	T5¹/₃ Flat cable without power supply terminal (left side) 	(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 release OFF	F A/B port filter integrated
W4GA/B2						
W4GB4	E0N E-connector without socket 	BN DIN terminal box (BN: Without terminal box) 	T11R Common terminal block clamping specifications (right side) 	T5¹/₃R Flat cable without power supply terminal (right side) 		Z1 Z3 Air supply spacer Exhaust spacer  Air supply spacer
MN3S0 MN4S0						
4SA/B0	E1 E-connector with socket/terminal 	E0*J EJ-connector (A) ● Lead wire length 1 m 2 m 3 m 	T30 D-sub-connector (left) 	T6G1 Serial transmission 		Pilot check valve (Separate mount)
4KA/B						
4KA/B (master)	E2 E-connector (A)(B)(C) 	E2N E-connector without socket (B)(C) 	T30R D-sub-connector (right) 	T7*0 Serial transmission T7*1 Thin slot 		
4F						
4F (master)	E2N E-connector without socket (B)(C) 	E2*J EJ-connector (A)(B)(C) 	T30R D-sub-connector (right) 	T7*0 Serial transmission T7*1 Thin slot 		
PV5G GMF						
PV5 GMF	E2N E-connector without socket (B)(C) 	E2*J EJ-connector (A)(B)(C) 	T30R D-sub-connector (right) 	T7*0 Serial transmission T7*1 Thin slot 		
PV5S-0						
3Q	E2N E-connector without socket (B)(C) 	E2*J EJ-connector (A)(B)(C) 	T30R D-sub-connector (right) 	T7*0 Serial transmission T7*1 Thin slot 		
MV3QR						
3MA/B0	E2N E-connector without socket (B)(C) 	E2*J EJ-connector (A)(B)(C) 	T30R D-sub-connector (right) 	T7*0 Serial transmission T7*1 Thin slot 		
3PA/B						
P/M/B	E2N E-connector without socket (B)(C) 	E2*J EJ-connector (A)(B)(C) 	T30R D-sub-connector (right) 	T7*0 Serial transmission T7*1 Thin slot 		
NP/NAP NVP						
4G*0EJ	E2N E-connector without socket (B)(C) 	E2*J EJ-connector (A)(B)(C) 	T30R D-sub-connector (right) 	T7*0 Serial transmission T7*1 Thin slot 		
4F*0EX						
4F*0E	E2N E-connector without socket (B)(C) 	E2*J EJ-connector (A)(B)(C) 	T30R D-sub-connector (right) 	T7*0 Serial transmission T7*1 Thin slot 		
HMV HSV						
2QV 3QV	E2N E-connector without socket (B)(C) 	E2*J EJ-connector (A)(B)(C) 	T30R D-sub-connector (right) 	T7*0 Serial transmission T7*1 Thin slot 		
SKH						
Silencer				T8*1 Serial transmission T8*2 thin slot 		
TotAirSys (Total Air)						
TotAirSys (Gamma)						
Ending						

(A) With lead wire
 (B) With indicator lamp
 (C) With surge suppressor

Electric connection circuit diagram

Electrical connections		Without lead wire	With lead wire	With indicator lamp	With surge suppressor	Without socket	Circuit diagram
Blank	Grommet lead wire		●				
E0	E-connector		●				
E0*J	EJ-connector		●				
E0N	E-connector					●	
E1	E-connector	●					
E2	E-connector		●	●	●		
E2*J	EJ-connector		●	●	●		
E2N	E-connector			●	●	●	
E3	E-connector	●		●	●		
A2N	A-connector			●	●	●	
B	DIN terminal box	●		●	●		
BN	DIN terminal box (Without terminal box)	●			●		

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