

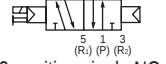
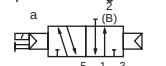
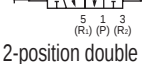
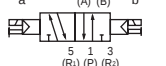
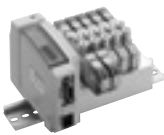
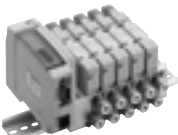
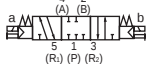
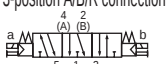
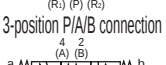
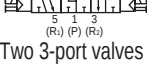
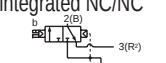
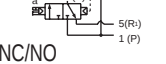
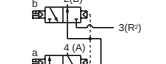
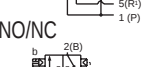
Series variation

4GA1 to 3 / 4GB1 to 3 Series

* For the block manifold, refer to page 225.

* Refer to page 321 for master valve.

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

Series external appearance				Model No.	Position Number of solenoid valves JIS symbol	Valve performance		Voltage (V)	Switching position						
						Flow characteristics (dm ³ /(sbar)) (*1)	Cylinder bore size (ø)		2-position			3-position			
									Normally closed	Normally open	Single	Double	All ports closed	ABR connection	PAB connection
Single unit	3GA110R-E*  4GA120R-E*  4GB310R-E* 	Body piping	3-port	3GA1		0.66 to 0.70	20 to 40	100 VAC 200 VAC 24 DC 12 DC 3 DC 5 DC (*2)	●	●					
				3GA2		2.2 to 2.7	40 to 80		●	●					
				3GA3		3.9	63 to 100		●	●					
		5-port	4GA1		0.66 to 0.70	20 to 40				●	●	●	●		
			4GA2		2.4 to 2.7	40 to 80				●	●	●	●		
			4GA3		3.2 to 4.0	63 to 100				●	●	●	●		
	Base piping	3-port	3GB1		1.0	20 to 40									
			3GB2		2.1	40 to 80									
			4GB1		1.1 to 1.3	20 to 40			●	●	●	●			
		5-port	4GB2		2.2 to 2.5	40 to 80			●	●	●	●			
			4GB3		3.2 to 4.2	63 to 100			●	●	●	●			
Individual wiring manifold	M4GA280R-E*D  M4GB110R-E*D 	Body piping	Direct mount DIN rail mount (-D)	M4GA1		0.66 to 1.0	20 to 40	100 VAC 200 VAC 24 DC 12 DC 3 DC 5 DC (*2)	●	●	●	●	●		
				M4GA2		1.7 to 2.5	40 to 80		●	●	●	●	●	●	
				M4GA3		2.5 to 3.3	63 to 100		●	●	●	●	●	●	
	Base piping	Direct mount DIN rail mount (-D)	M4GB1		0.67 to 1.0	20 to 40				●	●	●	●		
			M4GB2		1.6 to 2.4	40 to 80				●	●	●	●		
			M4GB3		2.6 to 3.3	63 to 100				●	●	●	●		
Reduced wiring manifolds	M4GA280R-T10  M4GA180R-T8D  M4GB210R-T8* 	Body piping	Direct mount	Terminal block (-T1□) Connector (-T30, -T5□)	M4GA1		0.66 to 1.0	20 to 40	24 DC 12 DC	●	●	●	●	●	
				M4GA2	1.7 to 2.5		40 to 80	●		●	●	●	●	●	
				M4GA3	2.5 to 3.3		63 to 100	●		●	●	●	●	●	
			Serial transmission (-T8□)	M4GA1		0.66 to 1.0	20 to 40	●		●	●	●	●	●	
				M4GA2		1.7 to 2.5	40 to 80	●		●	●	●	●	●	
				M4GA3		2.5 to 3.3	63 to 100	●		●	●	●	●	●	
		Mount type DIN rail	Terminal block (-T1□) Connector (-T30D, -T5□D)	M4GA1		0.66 to 1.0	20 to 40	●	●	●	●	●			
				M4GA2		1.7 to 2.5	40 to 80	●	●	●	●	●	●		
				M4GA3		2.5 to 3.3	63 to 100	●	●	●	●	●	●		
			Serial transmission (-T6G1D) (-T8□D)	M4GA1		0.66 to 1.0	20 to 40	●	●	●	●	●	●		
				M4GA2		1.7 to 2.5	40 to 80	●	●	●	●	●	●		
				M4GA3		2.5 to 3.3	63 to 100	●	●	●	●	●	●		
	Base piping	Direct mount	Terminal block (-T1□) Connector (-T30, -T5□)	M4GB1		0.67 to 1.0	20 to 40	24 DC 12 DC			●	●	●	●	
				M4GB2		1.6 to 2.4	40 to 80				●	●	●	●	
				M4GB3		2.6 to 3.3	63 to 100				●	●	●	●	
			Serial transmission (-T8□)	M4GB1		0.66 to 1.0	20 to 40				●	●	●	●	
				M4GB2		1.7 to 2.5	40 to 80				●	●	●	●	
				M4GB3		2.5 to 3.3	63 to 100				●	●	●	●	
		Mount type DIN rail	Terminal block (-T1□) Connector (-T30D, -T5□D)	M4GB1		0.67 to 1.0	20 to 40	24 DC 12 DC			●	●	●	●	
				M4GB2		1.6 to 2.4	40 to 80				●	●	●	●	
				M4GB3		2.6 to 3.3	63 to 100				●	●	●	●	
			Serial transmission (-T6G1D) (-T8□D)	M4GB1		0.67 to 1.0	20 to 40				●	●	●	●	
				M4GB2		1.6 to 2.4	40 to 80				●	●	●	●	
				M4GB3		2.6 to 3.3	63 to 100				●	●	●	●	

4GA1 to 3/4GB1 to 3 Series

Series variation

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

*2: The grommet lead wire specifications are for DC voltages only.

*3: The two 3-port valves integrated type is compatible with 3GA1, 2 and 3GB1, 2.

*4: P/R piping port is either M5 or Rc thread.

*5: Only compatible with base piping 2-position single model.

*6: P/R piping port is NPT thread.

*7: P/R piping port is G thread.

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

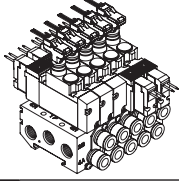
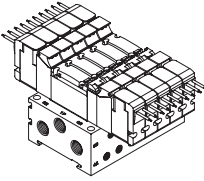
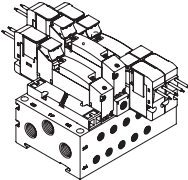
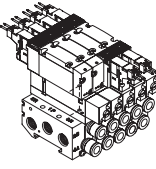
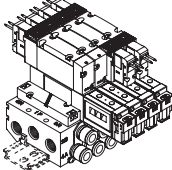
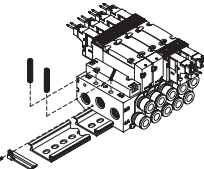
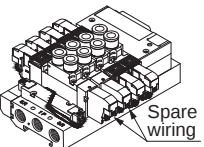
*9: "○" indicates made to order.

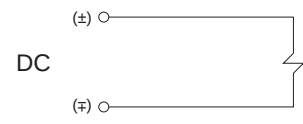
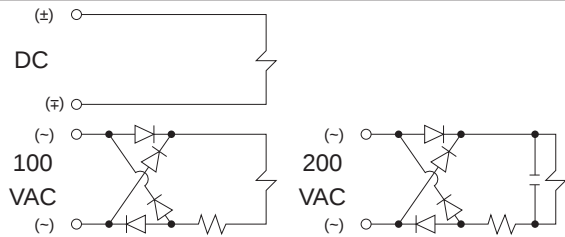
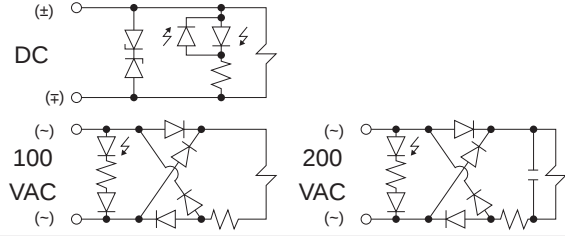
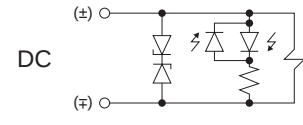
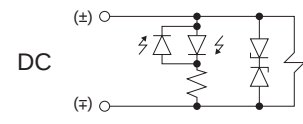
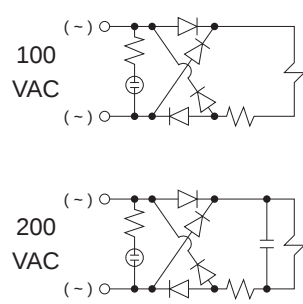
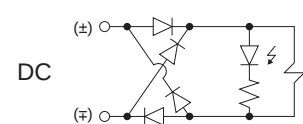
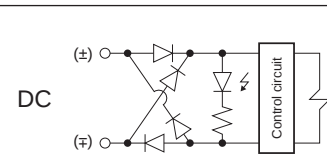
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4GA1 to 3/4GB1 to 3 Series

4GA/B	Electrical connections				Manual override	Other options
M4GA/B	Discrete valve/individual wiring manifold		Reduced wiring manifold			
MN4GA/B	Blank ● Lead wire length 300 mm	E3 E-connector with socket/terminal (B)(C)	T10 T11 Common terminal block (left side) M3 thread specifications/ push tightening specifications	T51 T52 T53 Flat cable Without power supply terminal (left side)	Blank Non-locking/locking common type	H With exhaust check valve
4GA/B (master)					(Standard equipment) 	
4GB With sensor						
4GD/E						
M4GD/E						
MN4GD/E						
4GA/B4	E0 ● Lead wire length 300 mm 500 mm 1000 mm 2000 mm 3000 mm	A2N A-connector downward without socket	T10R T11R Common terminal block (right side) M3 thread specifications/ push tightening specifications	T51R T52R T53R Flat cable Without power supply terminal (right side)		P Mounting plate
MN3E MN4E						
W4GA/B2						
W4GB4						
MN3S0 MN4S0						
4SA/B0	E0N E-connector without socket	● For AC voltages, the (a) dimension is 3.5 mm longer than for DC voltages.	T30 D-sub-connector (left)	T6G1 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 release OFF	K External pilot
4KA/B						
4KA/B (master)						
4F						
4F (master)						
PV5G GMF						
PV5 GMF						
PV5S-0	E1 E-connector with socket/terminal	B BN DIN terminal box (BN: Without terminal box)	T30R D-sub-connector (right)	T8 ^{1/2} Serial transmission (thin)	M Non-locking	A Ozone/coolant proof product
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	
G1 G2	With pressure sensor
	
X X1	With residual pressure exhaust
	
Z1 Z3	Air supply spacer Exhaust spacer
	
Z2	In-stop valve spacer
	
Z6	Spacer pilot check valve
	
D	DIN rail mount
	
D	Double wiring (With single spare wiring)
	

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)	●				●	
Option S	E2		●	●	●		
	E2*J		●	●	●		
	E2N			●	●	●	
Option E	E2		●	●	●		
	E2*J		●	●	●		
	E2N			●	●	●	

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
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