

Series variation

4KA/4KB Series

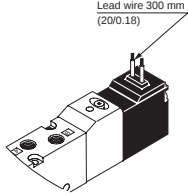
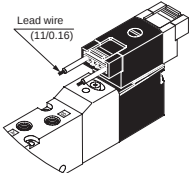
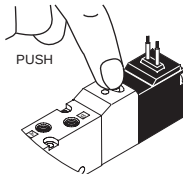
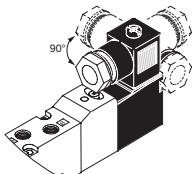
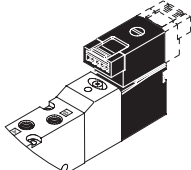
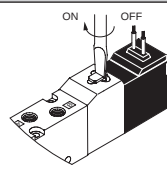
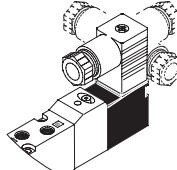
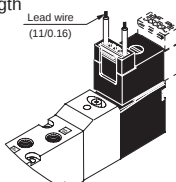
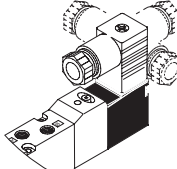
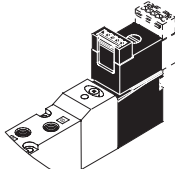
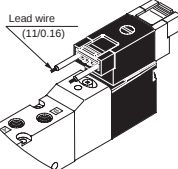
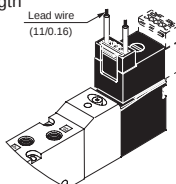
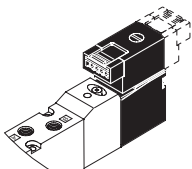
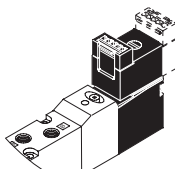
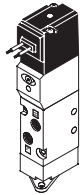
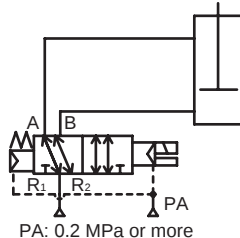
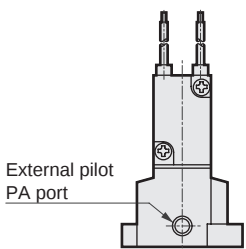
Series external appearance	Model No.	Position Number of solenoids JIS symbol	Valve performance		Voltage (V)	
			Flow characteristics C [dm ³ /(s·bar)] *1	Applicable cylinder bore size		
Single unit	Body piping	3-port	3KA1	0.65	100 AC 200 AC 24 DC	
			4KA1	0.60 to 0.68		
		5-port	4KA2	2.3 to 2.9		
			4KA3	4.1 to 5.6		
	Sub-plate piping	5-port	4KA4	8.2 to 11	Option 110 AC 220 AC 12 DC	
			4KB1	0.63 to 1.2		
			4KB2	2.4 to 3.0		
			4KB3	5.6 to 6.6		
			4KB4	10 to 13		
		3-port	M3KA1	0.69	100 AC 200 AC 24 DC	
			M4KA1	0.69 to 0.97		
	Individual wiring manifold	5-port	M4KA2	2.4 to 3.0		
			M4KA3	4.1 to 5.9		
			M4KA4	8.3 to 11		
		4-port	M4KB1	0.60 to 0.81		
			M4KB2	1.8 to 2.1	Option 110 AC 220 AC 12 DC	
	Block manifold	5-port	M4KB3	4.3 to 4.8		
			M4KB4	8.6 to 9.4		
Block manifold	Sub-plate piping	5-port	MN4KB1	0.60 to 0.80		
			MN4KB2	2.3 to 3.1		

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

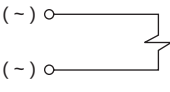
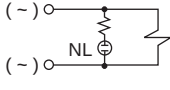
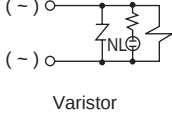
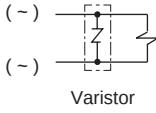
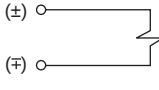
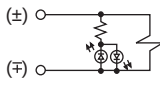
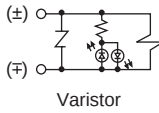
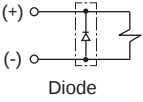
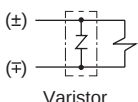
Series variation

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

3KA/4KA/4KB Series

4GA/B	Electrical connections		Manual override		Other options	
M4GA/B						
MN4GA/B						
4GA/B (master)	Blank	Grommet lead wire	C2	C-connector with lead wire with surge suppressor/lamp	Blank	S Non-locking
4GB With sensor			● Lead wire length C2 : 300 mm C20 : 500 mm C21 : 1000 mm C22 : 2000 mm C23 : 3000 mm 		 * : This will operate for as long as the switch is being pressed.	
4GD/E						
M4GD/E						
MN4GD/E						
4GA4/B4	B	Compact terminal box, without lead wire	C3	C-connector without lead wire with surge suppressor/lamp	M1	Locking
MN3E MN4E					 * : Operates in the ON direction. Note that normally this should be returned to OFF.	
W4GA/B2						
W4GB4						
MN3S0 MN4S0						
4SA/B0	*4K _B 3, 4K _B 4 can only be rotated by 180°.					
4KA/B	L	Compact terminal box with lamp	D	D-connector lead wire		
4KA/B (master)			● Lead wire length D : 300 mm D00 : 500 mm D01 : 1000 mm D02 : 2000 mm D03 : 3000 mm 			
4F						
4F (master)						
PV5G GMF						
PV5 GMF						
PV5S-0	LS	Compact terminal box, with surge suppressor/lamp	D1	D-connector without lead wire		
3Q						
MV3QR						
3MA/B0						
3PA/B						
P/M/B						
NP/NAP NVP	C	C-connector lead wire	D2	D-connector/with lead wire with surge suppressor/lamp		
4G*0EJ	● Lead wire length C : 300 mm C00 : 500 mm C01 : 1000 mm C02 : 2000 mm C03 : 3000 mm 		● Lead wire length D2 : 300 mm D20 : 500 mm D21 : 1000 mm D22 : 2000 mm D23 : 3000 mm 			
4F*0EX						
4F*0E						
HMV HSV	C1	C-connector without lead wire	D3	D-connector/without lead wire with surge suppressor/lamp		
2QV 3QV						
SKH						
Silencer						
TotAirSys (Total Air)						
TotAirSys (Gamma)						
Ending					P With mounting plate 	
					K External pilot When using at low pressure (0.15 MPa or less) which is less than or equal to the min. working pressure, use the following external pilot. However, be sure to pressurize the PA port.  PA: 0.2 MPa or more 	

Electric connection circuit diagram

Voltage type	Option	Wiring circuit	Wiring method
AC	-		Grommet lead wire Terminal box (B) C-connector (C/C0*/C1) D-connector (D/D0*/D1)
	With indicator lamp		Terminal box (L)
	With surge suppressor and indicator lamp	 Varistor	Terminal box (LS) C-connector (C2/C2*/C3) D-connector (D2/D2*/D3)
	Surge suppressor attached (Option)	 Varistor	Surge suppressor attached (S)
DC	-		Grommet lead wire Terminal box (B) C-connector (C/C0*/C1) D-connector (D/D0*/D1)
	With indicator lamp		Terminal box (L) However, 4KA/B1 and 4KA/B2 come with surge suppressors and indicator lamps.
	With surge suppressor and indicator lamp	 Varistor	Terminal box (LS) C-connector (C2/C2*/C3) D-connector (D2/D2*/D3)
	Surge suppressor attached (Option)	 Diode * Diode has polarity.	Grommet lead wire (24 VDC or less) Surge suppressor attached (S)
		 Varistor * Varistor has no polarity.	Surge suppressor attached (S)

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