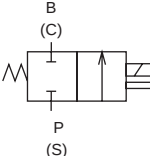
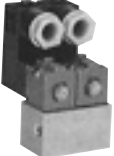
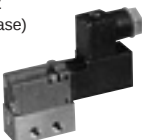
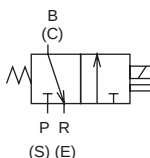
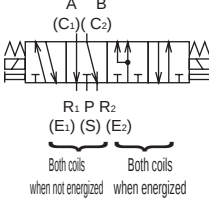
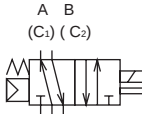
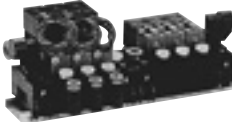


Series variation

Miniature pneumatic 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

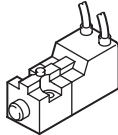
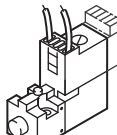
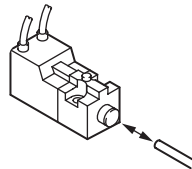
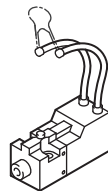
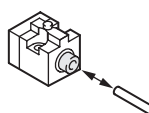
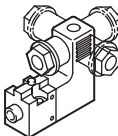
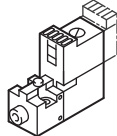
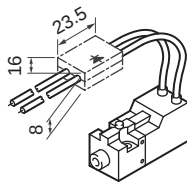
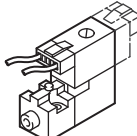
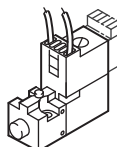
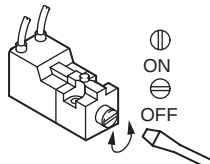
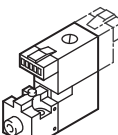
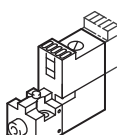
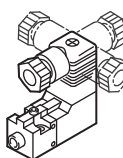
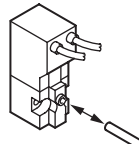
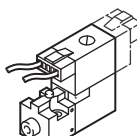
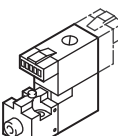
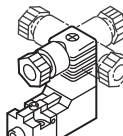
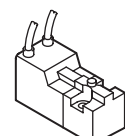
Series external appearance				Model No.	Position Number of solenoids JIS symbol	Valve performance		Voltage (V)					
						Flow characteristics C [dm ³ /(s·bar)] *1	Applicable cylinder bore size						
Single unit	2, 3-port valve	P51 ² / ₃ * (Pilot)				P51 ² / ₃ *		0.10 to 0.15	ø6 to ø16	100 AC 200 AC 12 DC 24 DC Option 110 AC 220 AC			
		M51 ² / ₃ *											
		B51 ² / ₃ *											
	Double 5-port valve	W2P513*		W2P513*									
	5-port valve	P5142 (Pilot)		B5142 (Sub-base)		P5142						0.09	
B5142													
Manifold	Metal base	2, 3-port valve	B*P51 ² / ₃		B*P51 ² / ₃		0.11 to 0.15	ø6 to ø16	100 AC 200 AC 12 DC 24 DC Option 110 AC 220 AC				
		5-port valve	B*P514		B*P514								
	Block	2, 3-port valve	N*P51 ² / ₃		N*P51 ² / ₃						0.11 to 0.15		
		5-port valve	N*P514		N*P514								

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

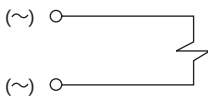
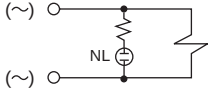
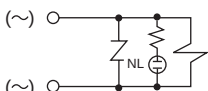
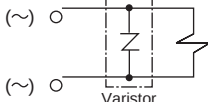
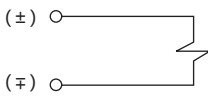
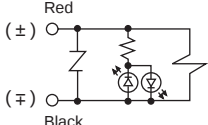
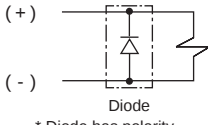
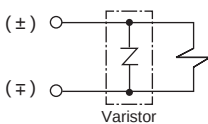
	Switching position			A port size			Electrical connections				Page
	2-position single NC	4-position double	2-position single	Female thread		ø4 push-in fitting	Grommet lead wire	Compact terminal box	C-connector	D-connector	
				M5	Rc1/8						
	●						●	●	●	●	1638
	●			●			●	●	●	●	
	●			●	●		●	●	●	●	
		●		●			●	●	●	●	1638
			●				●	●	●	●	1638
			●	●	●		●	●	●	●	
	●			●	●		●	●	●	●	1654
			●	●	●		●	●	●	●	1654
	●					●	●	●	●	●	1660
			●			●	●	●	●	●	1660

Note: Refer to the following page for details on electrical connections/other options.

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

4GA/B	Electrical connections		Manual override	Other options	
M4GA/B					
MN4GA/B					
4GA/B (master)	E Grommet lead wire	D D-connector with lead wire	M0 Lateral non-locking	S Surge suppressor attached	
4GB With sensor	● Lead wire length 300 mm	● Lead wire length D : 300 mm D00 : 500 mm D01 : 1000 mm D02 : 2000 mm D03 : 3000 mm	M0	AC	
4GD/E					
M4GD/E			Press with a rod of ø3 or less		
MN4GD/E			M4 (With dust cover)		
4GA4/B4	B Compact terminal box	D1 D-connector without lead wire		DC	
MN3E MN4E					
W4GA/B2			Suppression connector		
W4GB4					
MN3S0 MN4S0	C C-connector with lead wire	D2 D-connector with lead wire with surge suppressor/lamp			M1 Lateral locking
4SA/B0	● 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			
4KA/B					
4KA/B (master)	C1 C-connector without lead wire	D3 D-connector without lead wire with surge suppressor/lamp			
4F					Rotate 90° with a flathead (-) screwdriver
4F (master)					
PV5G GMF					
PV5 GMF					
PV5S-0					
3Q					
MV3QR					
3MA/B0					
3PA/B					
P/M/B	C2 C-connector with lead wire with surge suppressor/lamp	L Compact terminal box with lamp Compact terminal box with lamp and lead wire			M6 Upward non-locking
NP/NAP NVP	● Lead wire length C2 : 300 mm C00: 500 mm C01: 1000 mm C02: 2000 mm C03: 3000 mm				
4G*0EJ		Press with a rod of ø2 or less			
4F*0EX					
4F*0E					
HMV HSV	C3 C-connector without lead wire with surge suppressor/lamp	LS Compact terminal box with lamp/ surge suppressor			N Without manual override
2QV 3QV					
SKH					
Silencer					
TotAirSys (Total Air)					
TotAirSys (Gamma)					
Ending					

Electric connection circuit diagram

Voltage type	Circuit	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		Terminal box (LS) C-connector (C2/C2*/C3) D-connector (D2/D2*/D3)
	Surge suppressor attached		Surge suppressor attached (S)
DC	-		Grommet lead wire Terminal box (B) C-connector (C/C0*/C1) D-connector (D/D0*/D1)
	With surge suppressor and indicator lamp		Terminal box (L) C-connector (C2/C2*/C3) D-connector (D2/D2*/D3)
	Surge suppressor attached	When using a suppression type (with 24 VDC or less) 	Surge suppressor attached (S)
			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