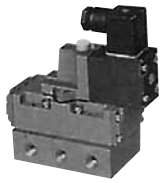
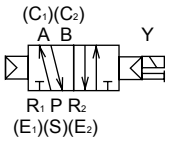
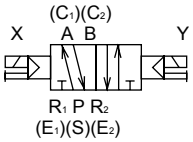
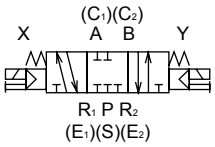
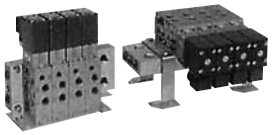
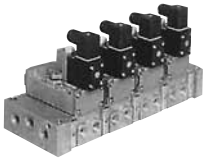
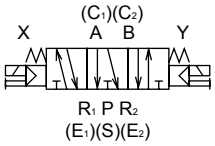
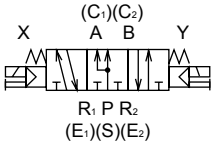
Piping method/series appearance				Model No.	Position Number of solenoids JIS symbol	Flow characteristics: C [dm³/(s·bar)] *1	Flow characteristics: Effective cross-sectional area S (mm²)	Applicable cylinder bore size	Voltage (V)	
Single unit	**4F**  	Direct	5-port	(A)4F0 *A is single	4F0 to 4F7 ● 2-position single  ● 2-position double 	0.6 to 0.7	-	φ16 to φ20	100 AC 200 AC 24 DC Option 110 AC 220 AC 12 DC	
				4F1		1.5 to 2.0	-	φ20 to φ25		
				4F2		2.5 to 3.0	-	φ40 to φ80	100 AC 200 AC 24 DC Option 110 AC 220 AC 12 DC	
				4F2 (Outdoor)		2.5 to 3.0	-	φ40 to φ80		
				4F3		3.9 to 5.8	-	φ63 to φ100		
				4F3 (Outdoor)		3.9 to 5.8	-	φ63 to φ100		
		Sub-plate	5-port	4F4	4F1 to 4F7 ● 3-position all ports closed 	5.0 to 5.3	-	φ63 to φ100		
				4F5		9.7 to 10	-	φ80 to φ160		
				4F6		15 to 18	-	φ140 to φ200		
				4F7		-	160	φ180 to φ250		
Individual wiring manifold	**M4F**  	Direct	5-port	(A)M4F0 *A is single	● 3-position A/B/R 	0.6 to 0.7	-	φ16 to φ20	100 AC 200 AC 24 DC Option 110 AC 220 AC 12 DC	
				M4F1		1.5 to 2.0	-	φ20 to φ25		
				M4F2	4F3 to 4F7 ● 3-position P/A/B 	2.5 to 3.0	-	φ40 to φ80	100 AC 200 AC 24 DC Option 110 AC 220 AC 12 DC	
				M4F3		3.9 to 5.8	-	φ63 to φ100		
		Sub-plate	5-port	M4F4		5.0 to 5.3	-	φ63 to φ100		
				M4F5		9.7 to 10	-	φ80 to φ160		
				M4F6		15 to 18	-	φ140 to φ200		
				M4F7		-	160	φ180 to φ250		

*1: Effective cross-sectional area "S" and sonic conductance "C" are converted as S ≈ 5.0 x C.

Switching position							Port size of A/B port									Electrical connections							Selection page
							Female thread																
2-position single	2-position double	3-position all ports closed	3-position ABR connection	3-position PAB connection	Mix	M5	Rp1/8	Rp1/4	Rp3/8	Rc1/4	Rc3/8	Rc1/2	Rc3/4	Rc1	Compact terminal box	DIN terminal box	C type connector	D type connector	Grommet lead wire	Conduit lead wire	With round terminal box	
●	●					●	●								●		●	●	●			
●	●	●	●				●	●							●		●	●	●			1344
●	●	●	●					●								●			●	●	●	
●	●	●	●					●													●	1372
●	●	●	●	●				●	●							●			●	●	●	1344
●	●	●	●	●				●	●												●	1372
●	●	●	●	●						●	●					●			●	●	●	
●	●	●	●	●							●	●				●			●	●	●	
●	●	●	●	●								●	●			●			●	●	●	1358
●	●	●	●	●									●	●		●			●	●	●	
●	●				●	●	●								●		●	●	●			
●	●	●	●		●		●	●							●		●	●	●			
●	●	●	●		●			●								●			●	●		1376
●	●	●	●	●	●			●	●							●			●	●		
●	●	●	●	●	●					●	●					●			●	●		
●	●	●	●	●	●						●	●				●			●	●		1404
●	●	●	●	●	●							●	●			●			●	●		
●	●	●	●	●	●								●			●			●	●		

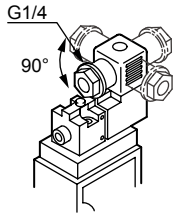
* Refer to the following page for details on electrical connections/other options.

Electrical connections

Manual override

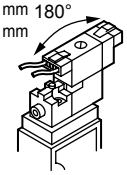
4F0/4F1

Blank/B Compact terminal box

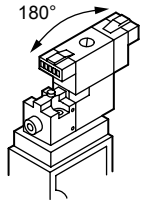


C C type connector with lead wire

● Lead wire length
C : 300 mm
C00 : 500 mm
C01 : 1000 mm
C02 : 2000 mm
C03 : 3000 mm

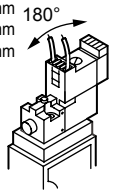


C3 C type connector without lead wire with surge suppressor/lamp

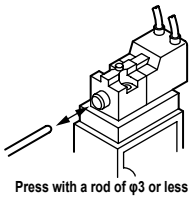


D2 D type connector with lead wire with surge suppressor/lamp

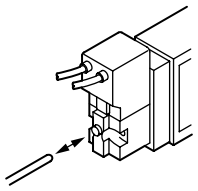
● Lead wire length
D2 : 300 mm
D20 : 500 mm
D21 : 1000 mm
D22 : 2000 mm
D23 : 3000 mm



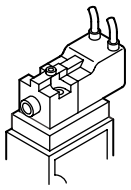
Blank Lateral non-locking



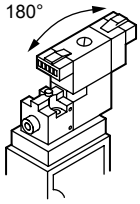
M6 Upward non-locking



Blank/E Grommet lead wire

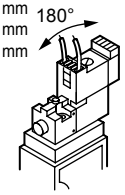


C1 C type connector without lead wire

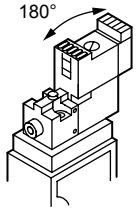


D D type connector with lead wire

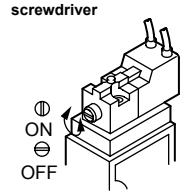
● Lead wire length
D : 300 mm
D00 : 500 mm
D01 : 1000 mm
D02 : 2000 mm
D03 : 3000 mm



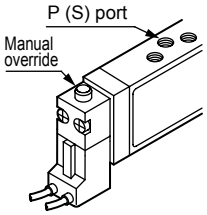
C3 D type connector without lead wire with surge suppressor/lamp



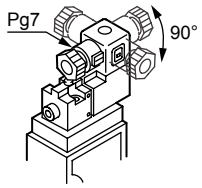
M1 Lateral locking



R Position change of manual override (4F0)

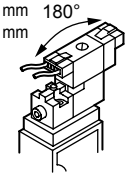


L Compact terminal box with lamp

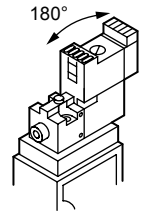


C2 C type connector with lead wire with surge suppressor/lamp

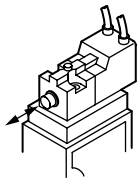
● Lead wire length
C2 : 300 mm
C20 : 500 mm
C21 : 1000 mm
C22 : 2000 mm
C23 : 3000 mm



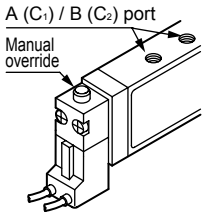
D1 D type connector without lead wire



M4 Dust cover equipped non-locking

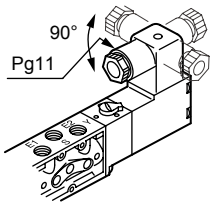


R Position change of manual override (4F1)

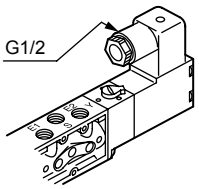


4F2 to 4F7

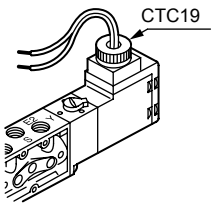
Blank DIN terminal box



F DIN terminal box (G1/2)

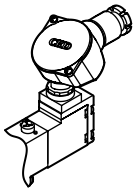


E1 Conduit lead wire (CTC19)

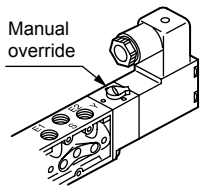


B B1 G Round terminal box

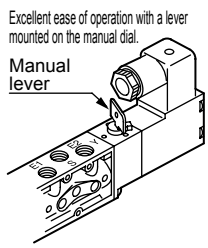
B : G 1/2
B1 : G 3/4
G : G 1/2 (gland attached)



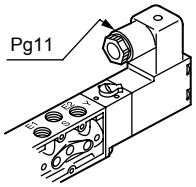
Blank Locking



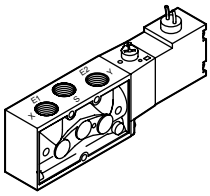
M3 Locking with manual lever



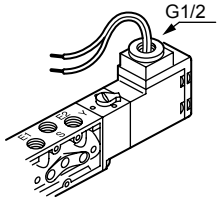
L DIN terminal box with lamp



E Grommet lead wire

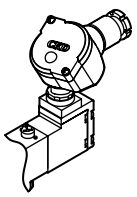


E2 Conduit lead wire (G 1/2)



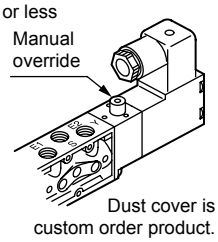
BL GL Round terminal box (G 1/2) with lamp

GL : gland attached

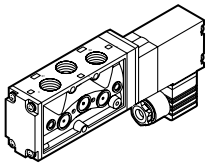


M2 Non-locking

Push with a rod φ7 or less



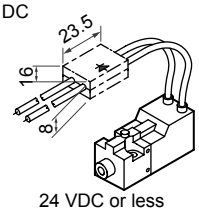
R Position change of manual override



Other options

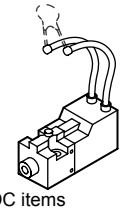
S Surge suppressor attached

DC



24 VDC or less
Lead wire only
(Diode)

AC/DC

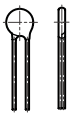


DC items other than the lead wire and AC items

N Plug attached

Assemble to NC/C_1 (A), E_1 (R_1)
Assemble to NO/C_2 (A), E_2 (R_2)

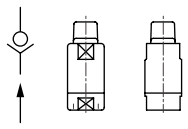
S Surge suppressor attached



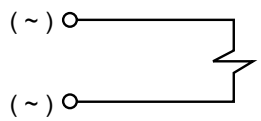
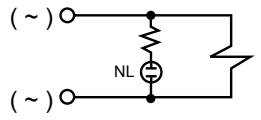
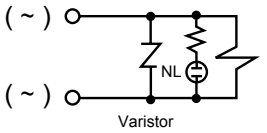
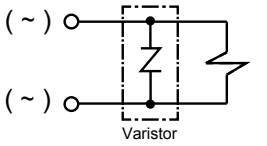
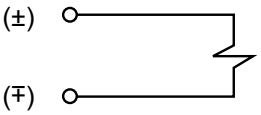
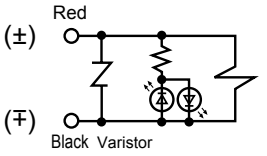
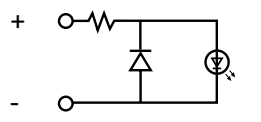
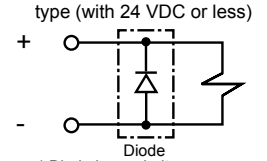
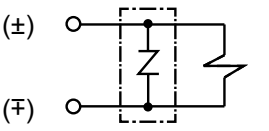
N Plug attached

Assemble to NC/C_1 (A), E_1 (R_1)
Assemble to NO/C_2 (B), E_2 (R_2)

H (Check valve attached)



Electric connection circuit diagram

Voltage	Option	Wiring circuit	Electrical connections
AC	—		Grommet lead wire Terminal box (B/F) C connector (C/C0*/C1) D connector (D/D0*/D1)
	With indicator lamp		Terminal box (L, BL)
	With surge suppressor and indicator lamp		C connector (C2/C2*/C3) D connector (D2/D2*/D3)
	Surge suppressor attached		Surge suppressor attached (S)
DC	—		Grommet lead wire Terminal box (B/F) 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)
			Terminal box (BL)
	Surge suppressor attached	When using a suppression type (with 24 VDC or less)  * Diode has polarity.	4F0/1 Grommet lead wire (24 VDC or less voltage only) (The option code “S” will be included with the surge suppressor.)
		 * Varistor has no polarity.	Surge suppressor attached (S)