F10, F15 Series Single Valve Unit Order Codes

■ Valve size

F10
10 mm [0.394 in.] width
Standard type

F10L
10 mm [0.394 in.] width
Low-current type

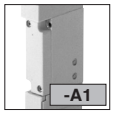
F15
15 mm [0.591 in.] width
Standard type

F15L
15 mm [0.591 in.] width
Low-current type

■ Valve outlet type

Without inlet/ outlet block

With A type outlet plate



With A type sub-base

-A2 inlet/outlet port
F10: Rc1/8
F15: Rc1/8
-A2H inlet/outlet port
F10: NPT1/8
F15: NPT1/8

With outlet port dual use fitting block

Outlet port fitting
F10: ϕ 4, ϕ 6
F15: ϕ 6, ϕ 8

With outlet port single use fitting block

Outlet port fitting
F10: ϕ 4
F15: ϕ 6

With outlet port single use fitting block

Outlet port fitting
F10: ϕ 6
F15: ϕ 8

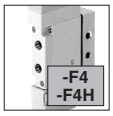
With outlet port female thread block

-FM outlet port
F10: M5 × 0.8
F15: Rc1/8
-FMH outlet port
F10: 10-32UNF
F15: NPT1/8

With outlet port dual use fitting block With inlet port female thread block[Note6]

Outlet port fitting
F10: ϕ 4, ϕ 6
F15: ϕ 6, ϕ 8

With outlet port female thread block With inlet port female thread block



-F4 inlet/outlet port
F10: M5 × 0.8
F15: Rc1/8
-F4H inlet/outlet port
F10: 10-32UNF
F15: NPT1/8

With outlet port single use fitting block With inlet port female thread block[Note6]

Outlet port fitting
F10: ϕ 4
F15: ϕ 6

With outlet port single use fitting block With inlet port female thread block[Note6]

Outlet port fitting
F10: ϕ 6
F15: ϕ 8

3-port normally closed (NC)[Note5] With outlet port single use fitting block

Outlet port fitting
F10: ϕ 4
F15: ϕ 6

3-port normally open (NO)[Note5] With outlet port single use fitting block

Outlet port fitting
F10: ϕ 4
F15: ϕ 6

3-port normally closed (NC)[Note5] With outlet port single use fitting block

Outlet port fitting
F10: ϕ 6
F15: ϕ 8

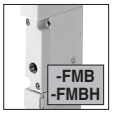
3-port normally open (NO)[Note5] With outlet port single use fitting block

Outlet port fitting
F10: ϕ 6
F15: ϕ 8

3-port normally closed (NC)[Note5] With outlet port female thread block

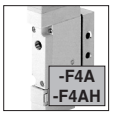
-FMA outlet port
F10: M5 × 0.8
F15: Rc1/8
-FMAH outlet port
F10: 10-32UNF
F15: NPT1/8

3-port normally open (NO)[Note5] With outlet port female thread block



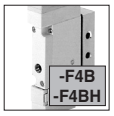
-FMB outlet port
F10: M5 × 0.8
F15: Rc1/8
-FMBH outlet port
F10: 10-32UNF
F15: NPT1/8

3-port normally closed (NC)[Note5] With outlet port female thread block With inlet port female thread block



-F4A inlet/outlet port
F10: M5 × 0.8
F15: Rc1/8
-F4AH inlet/outlet port
F10: 10-32UNF
F15: NPT1/8

3-port normally open (NO)[Note5] With outlet port female thread block With inlet port female thread block



-F4B inlet/outlet port
F10: M5 × 0.8
F15: Rc1/8
-F4BH inlet/outlet port
F10: 10-32UNF
F15: NPT1/8

3-port normally closed (NC)[Note5] With outlet port single use fitting block With inlet port female thread block[Note6]

Outlet port fitting
F10: ϕ 4
F15: ϕ 6

3-port normally open (NO)[Note5] With outlet port single use fitting block With inlet port female thread block[Note6]

Outlet port fitting
F10: ϕ 4
F15: ϕ 6

3-port normally closed (NC)[Note5] With outlet port single use fitting block With inlet port female thread block[Note6]

Outlet port fitting
F10: ϕ 6
F15: ϕ 8

3-port normally open (NO)[Note5] With outlet port single use fitting block With inlet port female thread block[Note6]

Outlet port fitting
F10: ϕ 6
F15: ϕ 8

■ Wiring specification

L type plug connector Without connector

S type plug connector Without connector

S type plug connector Lead wire 300 mm [11.8 in.]

L type plug connector Lead wire 300 mm [11.8 in.]

S type plug connector Lead wire 3000 mm [118 in.]

L type plug connector Lead wire 3000 mm [118 in.]

DIN connector type with indicator[Note10]

DIN connector type without connector[Note10]

-39N

■ Valve specification

T0 : 2-position, for single solenoid only
T1 : 2-position single solenoid specification (for both single and double solenoid use)
T2 : 2-position double solenoid specification (for both single and double solenoid use)
T3 : 3-position closed center
T4 : 3-position exhaust center[Note3]
T5 : 3-position pressure center[Note3]
TA : Tandem 3-port (NC and NC)[Note4]
TB : Tandem 3-port (NO and NO)[Note4]
TC : Tandem 3-port (NC and NO)[Note4]

■ Operation type

Blank
Internal pilot type

G
External pilot type[Note] (for positive pressure)

V
External pilot type[Note] (for vacuum) ※
※ This is a vacuum valve.

Note: When using as a single unit, select **-A2** (A type with sub-base) for the valve outlet type. Without a sub-base, piping for the external pilot is not possible.

■ Manual override

Manual override button

No protrusion with DIN connector

Manual override lever[Note1]

Protruding locking type[Note9]

Valve size	Valve specification	Operation type	IP specification	Manual override	Valve outlet type	UL standard compliant	Wiring specification	Voltage
F10 F10L F15 F15L	T0 T1 T2 T3 T4[Note3] T5[Note3] TA[Note4] TB[Note4] TC[Note4]	Blank G V	Blank -P[Note12 Note13]	Blank -R[Note1] -83[Note9 Note12]	Blank[Note2] -A1[Note2] -A2[Note12] -A2H[Note12] -FJ[Note2, 3] -FJ5[Note2, 3] -FJ6[Note2, 3] -FM[Note2, 3] -FMH[Note2, 3 Note12] -F3[Note4 Note12] -F4[Note4 Note12] -F4H[Note4 Note12] -F5[Note4 Note12] -F6[Note4 Note12] -FJ5A[Note2, 3] -FJ5B[Note2, 3] -FJ6A[Note2, 3] -FJ6B[Note2, 3] -FMA[Note2, 3] -FMAH[Note2, 3 Note12] -FMB[Note2, 3] -FMBH[Note2, 3 Note12] -F4A[Note4 Note12] -F4AH[Note4 Note12] -F4B[Note4 Note12] -F4BH[Note4 Note12] -F5A[Note4 Note12] -F5B[Note4 Note12] -F6A[Note4 Note12] -F6B[Note4 Note12]	Blank: – -UR: UL standard compliant	Blank -PN -PS -PL -PS3 -PL3 -39L[Note10 Note12] -39N[Note10 Note12]	DC24V DC12V[Note7] AC100V[Note8, 11 Note12] AC120V[Note8 Note12] AC240V[Note8, 9 Note12]

Notes: 1. When the valve specification is **T1** or **T2**, the manual override lever is placed only on the A side. This is not available with **-39**□.
2. Two manifold mounting screws are included.
3. Not available in the vacuum valves.
4. Not available in external pilot type and vacuum valves.
5. Only for valve specification **T0**, **T1**, and **T2**.
6. Thread size for the inlet port female thread block is **F10**: M5 × 0.8, **F15**: Rc1/8.
7. Not available in low-current type.
8. Not available in low-current type and tandem 3-port valves.
9. Only for wiring specification **-39**□.
10. Only for **F15** series and not available for valve specification **T1**, **TA**, **TB**, and **TC**. In addition, the valve is used only as a double solenoid for **T2**.
11. Not available with DIN connectors.
12. Not available in UR.
13. IP65 compliant protective construction to protect against intrusion of dust and water from outside.

Remark: Negative common specifications are also available as made to order products (add **-129W** to the end of order code). For details, consult us.

● For internal pilot

F □ Z - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Parts content
21 : Mounting bracket (mounting bracket, 2 mounting screws)
25 : Sub-base Rc1/8 (sub-base body, gasket, exhaust valve)Note1
25H : Sub-base NPT1/8 (sub-base body, gasket, exhaust valve)Note1
P : Plate (plate, gasket, 2 mounting screws)
J : Dual use fitting block (fitting block, gasket, 2 mounting screws)
J5 : Single use fitting block **F10**: φ4, **F15**: φ6 (fitting block, gasket, 2 mounting screws)
J6 : Single use fitting block **F10**: φ6, **F15**: φ8 (fitting block, gasket, 2 mounting screws)
J5A : Single use fitting block for 3-port **F10**: φ4, **F15**: φ6 (fitting block, gasket, 2 mounting screws)Note3
J6A : Single use fitting block for 3-port **F10**: φ6, **F15**: φ8 (fitting block, gasket, 2 mounting screws)Note3
M : Female thread block **F10**: M5×0.8 **F15**: Rc1/8 (female thread block, gasket, 2 mounting screws)
MH : Female thread block **F10**: 10-32UNF **F15**: NPT1/8 (female thread block, gasket, 2 mounting screws)
MA : Female thread block for 3-port **F10**: M5×8 **F15**: Rc1/8 (female thread block, gasket, 2 mounting screws)Note3
MAH : Female thread block for 3-port **F10**: 10-32UNF **F15**: NPT1/8 (female thread block, gasket, 2 mounting screws)Note3
MP : P port female thread block **F10**: M5×0.8 **F15**: Rc1/8 (P port female thread block, gasket)Note1
MPH : P port female thread block **F10**: 10-32UNF **F15**: NPT1/8 (P port female thread block, gasket)Note1
GS1 : Gasket (gasket, exhaust valve)Note2

Notes: 1. Valve mounting screws are not included.
2. Caution should be exercised as this gasket is different from the **GS2** gasket for the split-type manifolds.
3. Common to both normally closed (NC) and normally open (NO) types. Select the mounting direction by application requirements.

● For external pilot

F □ Z - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Parts content
P : Plate (plate, gasket, 2 mounting screws)
J : Dual use fitting block (fitting block, gasket, 2 mounting screws)
J5 : Single use fitting block **F10**: φ4, **F15**: φ6 (fitting block, gasket, 2 mounting screws)
J6 : Single use fitting block **F10**: φ6, **F15**: φ8 (fitting block, gasket, 2 mounting screws)
J5A : Single use fitting block for 3-port **F10**: φ4, **F15**: φ6 (fitting block, gasket, 2 mounting screws)Note1
J6A : Single use fitting block for 3-port **F10**: φ6, **F15**: φ8 (fitting block, gasket, 2 mounting screws)Note1
M : Female thread block **F10**: M5×0.8 **F15**: Rc1/8 (female thread block, gasket, 2 mounting screws)
MH : Female thread block **F10**: 10-32UNF **F15**: NPT1/8 (female thread block, gasket, 2 mounting screws)
MA : Female thread block for 3-port **F10**: M5×0.8 **F15**: Rc1/8 (female thread block, gasket, 2 mounting screws)Note1
MAH : Female thread block for 3-port **F10**: 10-32UNF **F15**: NPT1/8 (female thread block, gasket, 2 mounting screws)Note1
GS1 : Gasket (gasket, exhaust valve)Note2

Notes: 1. Common to both normally closed (NC) and normally open (NO) types. Select the mounting direction by application requirements.
2. Caution should be exercised as this gasket is different from the **GS2** gasket for the split type manifolds.

Sub-base for external pilot

F □ ZG - 25

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width
Sub-base Rc1/8

F □ ZG - 25H

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width
Sub-base NPT1/8

Connector-related order codes

JAZ - □ - □

UL standard compliant Note1
Blank: —
UR :UL standard compliant

Valve specification
For **T1, T2, T3, T4, T5, TA, TB, TC**

Connector specification
CP : Connector, lead wire length 300 mm [11.8 in.] (black, red, white, for total of 3 lead wires)
CP3 : Connector, lead wire length 3000 mm [118 in.] (black, red, white, for total of 3 lead wires)
CPN : Connector without lead wire (1 short bar and 3 contacts included)

Remarks: A connector for negative common is also available. See p. 19 for details.(Not, available in UR.)
Note:1. For the lead wire gauge, blank is 24AWG and UR is 22AWG.

JAZ0 - □ - □

UL standard compliant Note1
Blank: —
UR :UL standard compliant

Valve specification
For **T0**

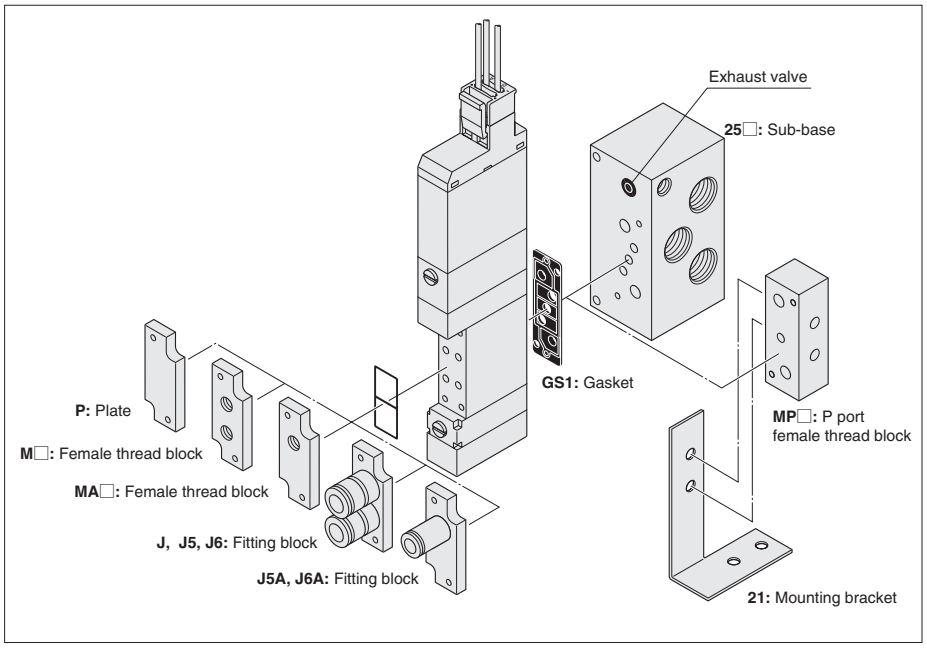
Connector specification
CP : Connector, lead wire length 300 mm [11.8 in.] (black, red, for total of 2 lead wires)
CP3 : Connector, lead wire length 3000 mm [118 in.] (black, red, for total of 2 lead wires)
CPN : Connector without lead wire (1 short bar, 2 contacts included)

FZ - □

Valve specification
For **T1, T2, T3, T4, T5, TA, TB, TC**

Connector specification
CC1.5 : Cabtyre cable length 1500 mm [59 in.] ※
CC3 : Cabtyre cable length 3000 mm [118 in.] ※

※ For details, see p. 19.



F10, F15 Series Monoblock Manifold A Type (Base Piping Type) Order Codes

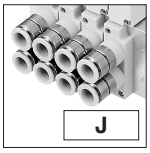
■ Valve size

F10M 10 mm [0.394 in.] width

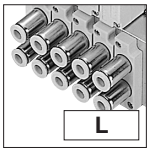
F15M 15 mm [0.591 in.] width

■ Manifold outlet specification

With dual use fitting blocks (base piping type)



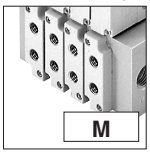
With selectable fittings (base piping type)



Outlet port fitting
F10: ϕ4, ϕ6
F15: ϕ6, ϕ8

Outlet port should be selected in accordance with the manifold fitting specification.

With female thread blocks (base piping type)



Outlet port female thread
F10: M5×0.8
F15: Rc1/8

■ Valve specification

T0 : 2-position, for single solenoid only
T1 : 2-position, single solenoid specification
T2 : 2-position, double solenoid specification
T3 : 3-position, closed center
T4 : 3-position, exhaust center Note6
T5 : 3-position, pressure center Note6
TA : Tandem 3-port (NC and NC) Note7
TB : Tandem 3-port (NO and NO) Note7
TC : Tandem 3-port (NC and NO) Note7

■ Valve size

F10 Standard type

F10L Low-current type

F15 Standard type

F15L Low-current type

Note: Valves of **F10**□ and **F15**□ cannot be mounted together.

■ Pilot specification

Blank Internal pilot manifold

G External pilot manifold

■ Operation type

Blank
Internal pilot type Note4

G
External pilot type Note5 (for positive pressure)

V
External pilot type Note5 (for vacuum) ※
※ : This is a vacuum valve.

Note: Cannot be mounted together with a positive pressure valve.

■ Manual override

Manual override button

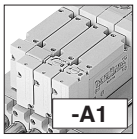
No protrusion with DIN connector

Manual override lever Note2

Protruding locking type

■ Valve outlet type

With plate Note3 (base piping type)



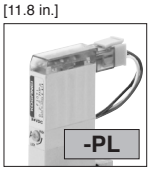
■ Wiring specification

L type plug connector Without connector

S type plug connector Without connector

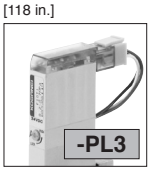
S type plug connector Lead wire 300 mm [11.8 in.]

L type plug connector Lead wire 300 mm [11.8 in.]

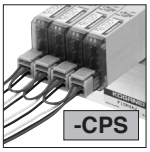


S type plug connector Lead wire 3000 mm [118 in.]

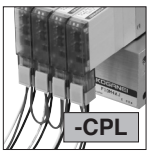
L type plug connector Lead wire 3000 mm [118 in.]



Pre-wired positive common terminal
S type plug connector
Lead wire 300 mm [11.8 in.]

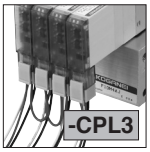


Pre-wired positive common terminal
L type plug connector
Lead wire 300 mm [11.8 in.]



Pre-wired positive common terminal
S type plug connector
Lead wire 3000 mm [118 in.]

Pre-wired positive common terminal
L type plug connector
Lead wire 3000 mm [118 in.]



DIN connector type with indicator Note12

DIN connector type without connector Note12

-39N

■ Individual air supply and exhaust spacer, stop valve

Blank : No spacer and no stop valve
-NPM : Individual air supply spacer (with M5 female thread for F10) Note15
-NP6 : Individual air supply spacer (with ϕ6 fitting for F15) Note15
-NP8 : Individual air supply spacer (with ϕ8 fitting for F15) Note15
-NRM : Individual exhaust spacer (with M5 female thread for F10) Note15
-NR6 : Individual exhaust spacer (with ϕ6 fitting for F15) Note15
-NR8 : Individual exhaust spacer (with ϕ8 fitting for F15) Note15
-STP : With stop valve Note4
For details, see p. 23, 25.

■ Manifold fitting specification

5-port specification

-J5 With single use fitting block Note13 (base piping type) **F10:** ϕ4 **F15:** ϕ6

-J6 With single use fitting block Note13 (base piping type) **F10:** ϕ6 **F15:** ϕ8

-M With female thread block Note13 (base piping type) **F10:** M5×0.8 **F15:** Rc1/8

-MH With female thread block Note14 (base piping type) **F10:** 10-32UNF **F15:** NPT1/8

3-port specification

-J5A With single use fitting block, normally closed (NC) Note13 (base piping type) **F10:** ϕ4 **F15:** ϕ6

-J5B With single use fitting block, normally open (NO) Note13 (base piping type) **F10:** ϕ4 **F15:** ϕ6

-J6A With single use fitting block, normally closed (NC) Note13 (base piping type) **F10:** ϕ6 **F15:** ϕ8

-J6B With single use fitting block, normally open (NO) Note13 (base piping type) **F10:** ϕ6 **F15:** ϕ8

-MA With female thread block, normally closed (NC) Note13 (base piping type) **F10:** M5×0.8 **F15:** Rc1/8

-MAH With female thread block, normally closed (NC) Note14 (base piping type) **F10:** 10-32UNF **F15:** NPT1/8

-MB With female thread block, normally open (NO) Note13 (base piping type) **F10:** M5×0.8 **F15:** Rc1/8

-MBH With female thread block, normally open (NO) Note14 (base piping type) **F10:** 10-32UNF **F15:** NPT1/8

Caution: The 3-port specifications are only available in the valve specification **T0**, **T1**, and **T2**.

■ Back pressure prevention valve

Blank No back pressure prevention valve

-E1 With back pressure prevention valve Note8

Valve size	Valve units	Manifold type	Manifold outlet specification	Pilot specification	Station	Valve size	Valve specification	Operation type	IP specification	Manual override	Valve outlet type	Wiring specification	Manifold fitting specification	Back pressure prevention valve	Individual air supply and exhaust spacer, stop valve	Voltage
Manifold model					Mounting valve model											
F10M	2	A	J	Blank	stn. 1	F10	T0 TA Note7	Blank Note4	Blank	Blank	-A1	Blank	Blank	Blank	Blank	DC24V
	⋮		M	G	⋮	F10L	T1 TB Note7	G Note5	-P Note16	-R Note2	Note3	-PN -CPS		-E1 Note8	-NPM Note15 -NRM Note15	DC12V Note9
					stn.□	F15	T2 TC Note7	V Note5				-PS -CPL			-NP6 Note15 -NR6 Note15	AC100V Note10
					Note1	F15L	T3					-PL -CPS3			-NP8 Note15 -NR8 Note15	AC120V Note10
							T4 Note6					-PS3 -CPL3			-STP Note4	
							T5 Note6					-PL3				
						F10 F15	BP (for block-off plate)								Blank -STP Note4	
F15M	20	A	L	Blank	stn. 1	F10	T0 TA Note7	Blank Note4	Blank	Blank	-A1	Blank -CPS	-J5 Note13 -J6A Note13	Blank	Blank	DC24V
		AH		G	⋮	F10L	T1 TB Note7	G Note5	-P Note16	-R Note2	Note3	-PN -CPL	-J6 Note13 -J6B Note13	-E1 Note8	-NPM Note15 -NRM Note15	DC12V Note9
					stn.□	F15	T2 TC Note7	V Note5		-83 Note11		-PS -CPS3	-M Note13 -MA Note13		-NP6 Note15 -NR6 Note15	AC100V Note10, 15
					Note1	F15L	T3					-PL -CPL3	-MH Note14 -MAH Note14		-NP8 Note15 -NR8 Note15	AC120V Note10
							T4 Note6					-PS3 -39L Note12	-J5A Note13 -MB Note13		-STP Note4	AC240V Note10, 11
							T5 Note6					-PL3 -39N Note12	-J5B Note13 -MBH Note14			
						F10 F15	BP (for block-off plate)								Blank -STP Note4	

Notes: 1. Valve mounting location is from the left, with the solenoid on top, and the 4(A), 2(B) ports side in front.
2. When the valve specification is **T1** or **T2**, the manual override lever is placed only on the A side. This is not available with **-39**□.
3. Always enter **-A1**.
4. Cannot be mounted on the external pilot manifold.
5. Cannot be mounted on the internal pilot manifold.
6. Not available in the vacuum valves.
7. Not available in external pilot type and vacuum valves.
8. Not available with the individual exhaust spacer and vacuum valve.
9. Not available in low-current type.
10. Not available in low-current type and tandem 3-port valves.
11. Only for wiring specification **-39**□.
12. Only for **F15** series and not available for valve specification **T1**, **TA**, **TB**, and **TC**. In addition, the valve is used only as a double solenoid for **T2**.
13. Can be selected only when the manifold type is **A**.
14. Can be selected only when the manifold type is **AH**.
15. Not available with DIN connectors (**-39**□).
16. IP65 compliant protective construction to protect against intrusion of dust and water from outside.

Remark: Negative common specifications are also available as made to order products (add **-129W** to the ends of the valve and manifold model order codes). For details, consult us.

Gasket (gasket and exhaust valve)

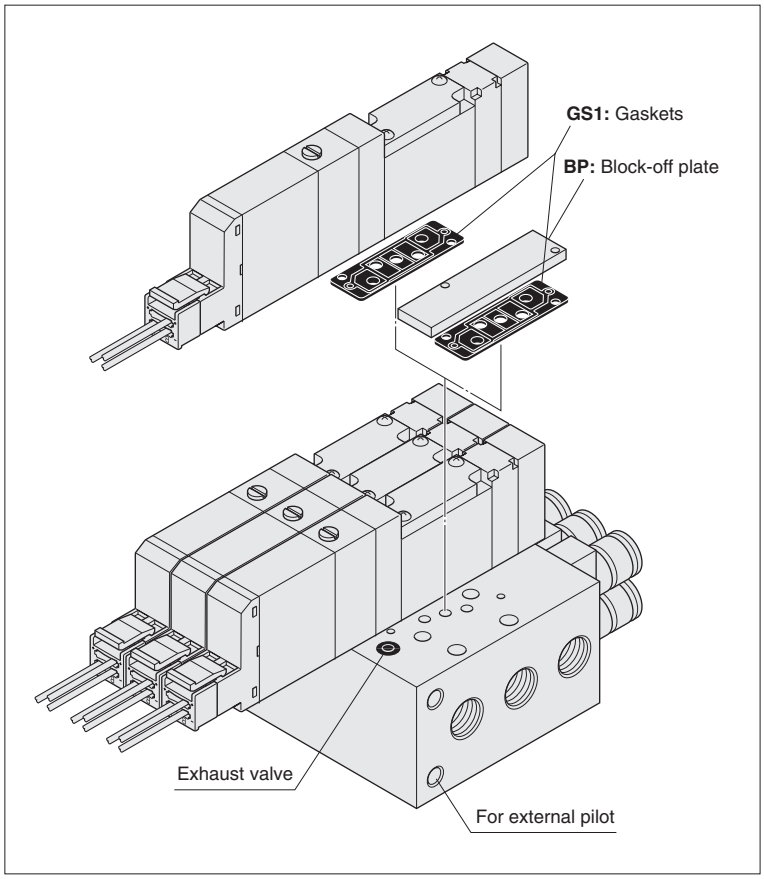
F □ Z - GS1

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Block-off plate (block-off plate and 2 mounting screws)

F □ BP

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width



Connector-related order codes

JAZ □ - □

※For details, see p. 19.

Valve specification
Blank: For **T1, T2, T3, T4, T5, TA, TB, TC**
0: For **T0**

Connector specification
CP : Connector, lead wire length 300 mm [11.8 in.]
CP3 : Connector, lead wire length 3000 mm [118 in.]
CPN : Connector without lead wire (short bar and contacts included)
PA : Positive common A type, lead wire length 300 mm [11.8 in.] ※
PA3 : Positive common A type, lead wire length 3000 mm [118 in.] ※
PB : Positive common B type, lead wire length 300 mm [11.8 in.] ※
PB3 : Positive common B type, lead wire length 3000 mm [118 in.] ※
PC : Positive common C type, lead wire length 300 mm [11.8 in.] ※
PC3 : Positive common C type, lead wire length 3000 mm [118 in.] ※

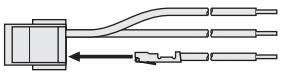
FZ - □

Valve specification
For **T1, T2, T3, T4, T5, TA, TB, TC**

Connector specification
CC1.5 : Cabtyre cable length 1500 mm [59 in.] ※
CC3 : Cabtyre cable length 3000 mm [118 in.] ※

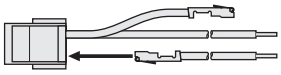
● Common connector assembly

A type: JAZ-PA□※



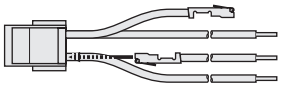
Red Common wire (+)
Black A side (–)
White B side (–) (Insert when using as double solenoid) Note

B type: JAZ-PB□※



Red Common wire (+)
Black A side (–)
White B side (–) (Insert when using as double solenoid) Note

C type: JAZ-PC□※



Red Common wire (+)
Black A side (–)
White B side (–) (Insert when using as double solenoid) Note
Red Common wire (+)

※ Lead wire length **Blank:** 300 mm [11.8 in.] **3:** 3000 mm [118 in.]

Note: White lead wire is not available for **JAZ0-P□□** .

Remark: Connector for negative common type also available. For details, see p.19.

Manifold Order Code Example

(6 units of F10 Series)

F10M6AL

stn.1 ~ 2 **F10T0-A1-PS-J5 DC24V**
stn.3 ~ 5 **F10T2-A1-PS-J6 DC24V**
stn.6 **F10BP-J6**

Note: This order code example has no relationship to the illustration at upper right.

Back pressure prevention valve

(for monoblock type, 2 pieces)

F □ Z - E1

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Individual air supply and exhaust spacer (Spacer for non-plug-in type, gasket, exhaust valve, and 2 mounting screws)

F □ Z - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Specification
NPM : Individual air supply spacer (with M5 female thread for F10)
NP6 : Individual air supply spacer (with ϕ 6 fitting for F15)
NP8 : Individual air supply spacer (with ϕ 8 fitting for F15)
NRM : Individual exhaust spacer (with M5 female thread for F10)
NR6 : Individual exhaust spacer (with ϕ 6 fitting for F15)
NR8 : Individual exhaust spacer (with ϕ 8 fitting for F15)

※For details, see p. 25.
※Not available with DIN connectors (**-39□**).

Muffler

KM - J □

Fitting size
6: Outer diameter ϕ 6 (for individual exhaust spacer)
8: Outer diameter ϕ 8 (for individual exhaust spacer)

(Sales unit: Set of 10 mufflers)

Precautions for Order Codes

● **Manifold outlet specification**
Select from among "dual use fitting blocks", "with female thread blocks" or "with selectable fittings." For repair or replacement, purchase the single valve unit additional parts, **F □ Z-J** (dual use fitting block), **F □ Z-J □** (single use fitting block), or **F □ Z-M □** (female thread block), on p. 45.

● **Orders for valves only**
Place orders from "Single Valve Unit Order Codes" on p. 44. Note, however, that the only available valve outlet type is **A1**. In addition, for common terminal wiring connections, order the common connector assemblies listed above separately.

F10, F15 Series Monoblock Manifold F Type (Direct Piping Type) Order Codes

Valve size

F10M
10 mm [0.394 in.] width

F15M
15 mm [0.591 in.] width

Valve specification

T0 : 2-position, for single solenoid only
T1 : 2-position, single solenoid specification
T2 : 2-position, double solenoid specification
T3 : 3-position, closed center
T4 : 3-position, exhaust center
T5 : 3-position, pressure center
TA : Tandem 3-port (NC and NC)
TB : Tandem 3-port (NO and NO)
TC : Tandem 3-port (NC and NO)

Manual override

Manual override button

No protrusion with DIN connector

Manual override lever[Note2]

Protruding locking type[Note6]

Valve outlet type

5-port specification

-FJ	With dual use fitting block[Note8] (direct piping type)	**F10:** ϕ4, ϕ6 **F15:** ϕ6, ϕ8
-FJ5	With single use fitting block[Note8] (direct piping type)	**F10:** ϕ4 **F15:** ϕ6
-FJ6	With single use fitting block[Note8] (direct piping type)	**F10:** ϕ6 **F15:** ϕ8
-FM	With female thread block[Note8]	**F10:** M5×0.8 **F15:** Rc1/8
-FMH	With female thread block[Note9] (direct piping type)	**F10:** 10-32UNF **F15:** NPT1/8

3-port specification

-FJ5A	With single use fitting block, normally closed (NC)[Note8] (direct piping type)	**F10:** ϕ4 **F15:** ϕ6
-FJ5B	With single use fitting block, normally open (NO)[Note8] (direct piping type)	**F10:** ϕ4 **F15:** ϕ6
-FJ6A	With single use fitting block, normally closed (NC)[Note8] (direct piping type)	**F10:** ϕ6 **F15:** ϕ8
-FJ6B	With single use fitting block, normally open (NO)[Note8] (direct piping type)	**F10:** ϕ6 **F15:** ϕ8
-FMA	With female thread block, normally closed (NC)[Note8] (direct piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-FMAH	With female thread block, normally closed (NC)[Note9] (direct piping type)	**F10:** 10-32UNF **F15:** NPT1/8
-FMB	With female thread block, normally open (NO)[Note8] (direct piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-FMBH	With female thread block, normally open (NO)[Note9] (direct piping type)	**F10:** 10-32UNF **F15:** NPT1/8

Caution: The 3-port specifications are only available in the valve specification **T0**, **T1**, and **T2**.

Wiring specification

L type plug connector
Without connector

S type plug connector
Without connector

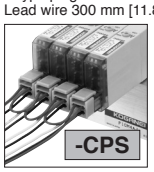
S type plug connector
Lead wire 300 mm [11.8 in.]

L type plug connector
Lead wire 300 mm [11.8 in.]

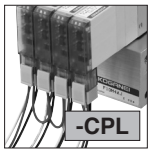
S type plug connector
Lead wire 3000 mm [118 in.]

L type plug connector
Lead wire 3000 mm [118 in.]

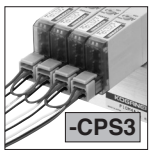
Pre-wired positive common terminal
S type plug connector
Lead wire 300 mm [11.8 in.]



Pre-wired positive common terminal
L type plug connector
Lead wire 300 mm [11.8 in.]



Pre-wired positive common terminal
S type plug connector
Lead wire 3000 mm [118 in.]



Pre-wired positive common terminal
L type plug connector
Lead wire 3000 mm [118 in.]

DIN connector type with indicator[Note7]

DIN connector type without connector[Note7]

-39N

Individual air supply and exhaust spacer, stop valve

Blank : No spacer and no stop valve
-NPM : Individual air supply spacer (with M5 female thread for F10)[Note10]
-NP6 : Individual air supply spacer (with ϕ6 fitting for F15)[Note10]
-NP8 : Individual air supply spacer (with ϕ8 fitting for F15)[Note10]
-NRM : Individual exhaust spacer (with M5 female thread for F10)[Note10]
-NR6 : Individual exhaust spacer (with ϕ6 fitting for F15)[Note10]
-NR8 : Individual exhaust spacer (with ϕ8 fitting for F15)[Note10]
-STP : With stop valve

For details, see p. 23, 25.

Back pressure prevention valve

Blank No back pressure prevention valve
-E1 With back pressure prevention valve[Note3]

Valve size

F10	Standard type
F10L	Low-current type
F15	Standard type
F15L	Low-current type

Note: Valves of **F10**□ and **F15**□ cannot be mounted together.

Valve size	Valve units	Manifold type	Station	Valve size	Valve specification	IP specification	Manual override	Valve outlet type	Wiring specification	Back pressure prevention valve	Individual air supply and exhaust spacer, stop valve	Voltage
Manifold model				Mounting valve model								
F10M **F15M**	**2** ⋮ **20**	**F** **FH**	**stn. 1** ⋮ **stn.**□ Note1	**F10** **F10L** **F15** **F15L**	**T0** **TA** **T1** **TB** **T2** **TC** **T3** **T4** **T5**	**Blank** **-P**Note11	**Blank** **-R**Note2 **-83**Note6	**-FJ**Note8 **-FJ6A**Note8 **-FJ5**Note8 **-FJ6B**Note8 **-FJ6**Note8 **-FMA**Note8 **-FM**Note8 **-FMAH**Note9 **-FMH**Note9 **-FMB**Note8 **-FJ5A**Note8 **-FMBH**Note9 **-FJ5B**Note8	**Blank** **-CPS** **-PN** **-CPL** **-PS** **-CPS3** **-PL** **-CPL3** **-PS3** **-39L**Note7 **-PL3** **-39N**Note7	**Blank** **-E1**Note3	**Blank** **-NPM**Note10 **-NRM**Note10 **-NP6**Note10 **-NR6**Note10 **-NP8**Note10 **-NR8**Note10 **-STP**	**DC24V** **DC12V**Note4 **AC100V**Note5, 10 **AC120V**Note5 **AC240V**Note5, 6
				F10 **F15**	**BP** (for block-off plate)						**Blank** **-STP**	

Notes: 1. Valve mounting location is from the left, with the solenoid on top, and the 4(A), 2(B) ports side in front.
2. When the valve specification is **T1** or **T2**, the manual override lever is placed only on the A side. This is not available with **-39**□.
3. Not available with the individual exhaust spacer.
4. Not available in low-current type.
5. Not available in low-current type and tandem 3-port valves.
6. Only for wiring specification **-39**□.
7. Only for **F15** series and not available for valve specification **T1**, **TA**, **TB**, and **TC**. In addition, the valve is used only as a double solenoid for **T2**.
8. Can be selected only when the manifold type is **F**.
9. Can be selected only when the manifold type is **FH**.
10. Not available with DIN connectors (**-39**□).
11. IP65 compliant protective construction to protect against intrusion of dust and water from outside.

Remarks: 1. The external pilot type valve cannot be mounted on the F type manifold.
2. Negative common specifications are also available as made to order products (add **-129W** to the ends of the valve and manifold model order codes). For details, consult us.

Gasket (gasket and exhaust valve)

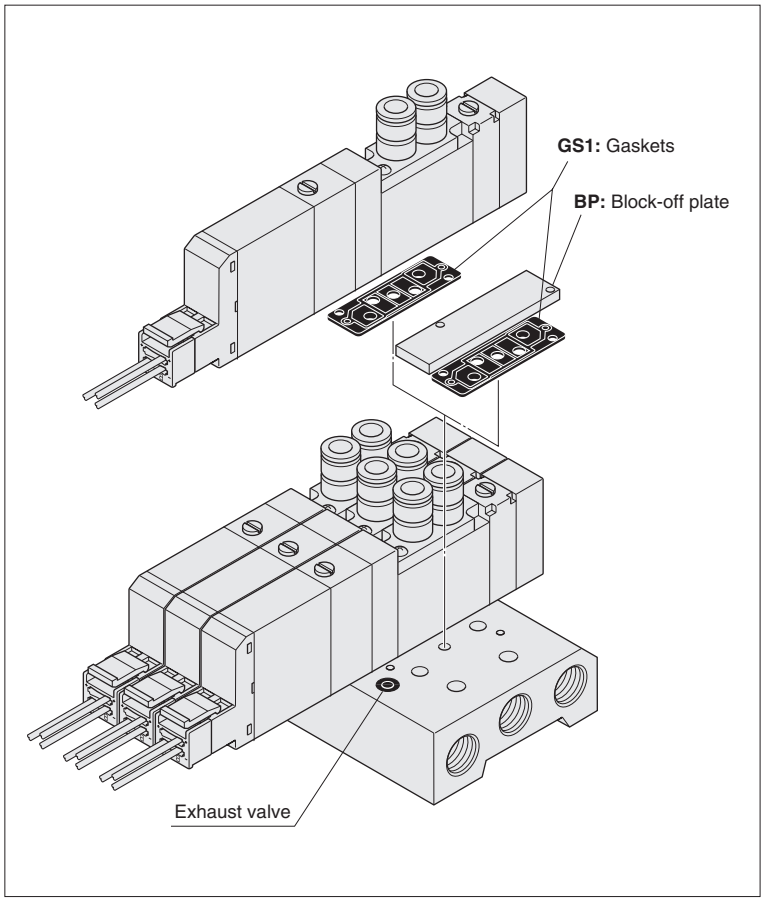
F □ Z - GS1

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Block-off plate (block-off plate and 2 mounting screws)

F □ BP

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width



Connector-related order codes

JAZ □ - □

※For details, see p. 19.

Valve specification
Blank: For **T1, T2, T3, T4, T5, TA, TB, TC**
0: For **T0**

Connector specification
CP : Connector, lead wire length 300 mm [11.8 in.]
CP3 : Connector, lead wire length 3000 mm [118 in.]
CPN: Connector without lead wire (short bar, contacts included)
PA : Positive common A type, lead wire length 300 mm [11.8 in.] ※
PA3 : Positive common A type, lead wire length 3000 mm [118 in.] ※
PB : Positive common B type, lead wire length 300 mm [11.8 in.] ※
PB3 : Positive common B type, lead wire length 3000 mm [118 in.] ※
PC : Positive common C type, lead wire length 300 mm [11.8 in.] ※
PC3 : Positive common C type, lead wire length 3000 mm [118 in.] ※

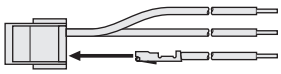
FZ - □

Valve specification
For **T1, T2, T3, T4, T5, TA, TB, TC**

Connector specification
CC1.5 : Cabtyre cable length 1500 mm [59 in.] ※
CC3 : Cabtyre cable length 3000 mm [118 in.] ※

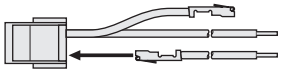
● Common connector assembly

A type: JAZ-PA□※



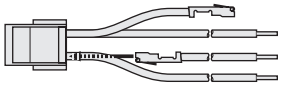
Red Common wire (+)
Black A side (–)
White B side (–) (Insert when using as double solenoid) Note

B type: JAZ-PB□※



Red Common wire (+)
Black A side (–)
White B side (–) (Insert when using as double solenoid) Note

C type: JAZ-PC□※



Red Common wire (+)
Black A side (–)
White B side (–) (Insert when using as double solenoid) Note
Red Common wire (+)

※ Lead wire length **Blank:** 300 mm [11.8 in.]
3: 3000 mm [118 in.]

Note: White lead wire is not available for **JAZ0-P□□** .

Remark: Connector for negative common type also available. For details, see p. 19.

Manifold Order Code Example

(4 units of F10 Series)

F10M4F

stn.1 ~ 2 **F10T0-FJ5-PS DC24V**
stn.3 **F10T2-FJ6-PS DC24V**
stn.4 **F10BP**

Note: This order code example has no relationship to the illustration at upper right.

Back pressure prevention valve

(for monoblock type, 2 pieces)

F □ Z - E1

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Individual air supply and exhaust spacer

(Spacer for non-plug-in type, gasket, exhaust valve, and 2 mounting screws)

F □ Z - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Specification
NPM : Individual air supply spacer (with M5 female thread for F10)
NP6 : Individual air supply spacer (with ϕ 6 fitting for F15)
NP8 : Individual air supply spacer (with ϕ 8 fitting for F15)
NRM : Individual exhaust spacer (with M5 female thread for F10)
NR6 : Individual exhaust spacer (with ϕ 6 fitting for F15)
NR8 : Individual exhaust spacer (with ϕ 8 fitting for F15)

※For details, see p. 25.
※Not available with DIN connectors (**-39□**).

Muffler

KM - J □

Fitting size
6: Outer diameter ϕ 6 (for individual exhaust spacer)
8: Outer diameter ϕ 8 (for individual exhaust spacer)
(Sales unit: Set of 10 mufflers)

Precautions for Order Codes

● **Orders for valves only**
Place orders from "Single Valve Unit Order Codes" on p. 44.
Select from valve outlet types **-FJ, -FJ5, -FJ6, -FM□ , -FJ5A, -FJ5B, -FJ6A, -FJ6B, -FMA□ ,** or **-FMB□ .** In addition, for common terminal wiring connections, order the common connector assemblies listed above separately.

F10, F15 Series Monoblock Manifold A Type, Wire-Saving Type (Base Piping Type) Order Codes

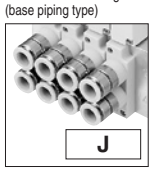
Valve size

F10M 10 mm [0.394 in.] width

F15M 15 mm [0.591 in.] width

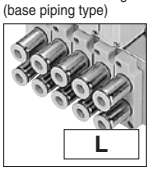
Manifold outlet specification

With dual use fitting blocks (base piping type)



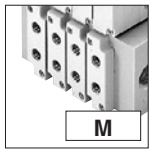
Outlet port fitting
F10: ϕ4, ϕ6
F15: ϕ6, ϕ8

With selectable fittings (base piping type)



Outlet port should be selected in accordance with the manifold fitting specification.

With female thread blocks (base piping type)



Outlet port female thread
F10: M5 × 0.8
F15: Rc1/8

Operation type

Blank
Internal pilot type[Note5]

G
External pilot type[Note6] (for positive pressure)

V
External pilot type[Note6] (for vacuum) ※
※: This is a vacuum valve.

Note: Cannot be mounted together with a positive pressure valve.

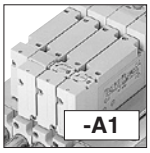
Manual override

Manual override button

Manual override lever[Note3]

Valve outlet type

With plate[Note4] (base piping type)



Individual air supply and exhaust spacer, stop valve

Blank: No spacer and no stop valve
-NPM : Individual air supply spacer (with M5 female thread for F10)
-NP6 : Individual air supply spacer (with ϕ6 fitting for F15)
-NP8 : Individual air supply spacer (with ϕ8 fitting for F15)
-NRM : Individual exhaust spacer (with M5 female thread for F10)
-NR6 : Individual exhaust spacer (with ϕ6 fitting for F15)
-NR8 : Individual exhaust spacer (with ϕ8 fitting for F15)
-STP : With stop valve[Note5]
For details, see p. 23, 25.

Wiring specification

-PN
S type plug connector[Note4]

Manifold fitting specification

5-port specification

-J5	With single use fitting block[Note13] (base piping type)	**F10:** ϕ4 **F15:** ϕ6
-J6	With single use fitting block[Note13] (base piping type)	**F10:** ϕ6 **F15:** ϕ8
-M	With female thread block[Note13] (base piping type)	**F10:** M5 × 0.8 **F15:** Rc1/8
-MH	With female thread block[Note14] (base piping type)	**F10:** 10-32UNF **F15:** NPT1/8

3-port specification

-J5A	With single use fitting block, normally closed (NC)[Note13] (base piping type)	**F10:** ϕ4 **F15:** ϕ6
-J5B	With single use fitting block, normally open (NO)[Note13] (base piping type)	**F10:** ϕ4 **F15:** ϕ6
-J6A	With single use fitting block,normally closed (NC)[Note13] (base piping type)	**F10:** ϕ6 **F15:** ϕ8
-J6B	With single use fitting block, normally open (NO)[Note13] (base piping type)	**F10:** ϕ6 **F15:** ϕ8
-MA	With female thread block, normally closed (NC)[Note13] (base piping type)	**F10:** M5 × 0.8 **F15:** Rc1/8
-MAH	With female thread block, normally closed (NC)[Note14] (base piping type)	**F10:** 10-32UNF **F15:** NPT1/8
-MB	With female thread block,normally open (NO)[Note13] (base piping type)	**F10:** M5 × 0.8 **F15:** Rc1/8
-MBH	With female thread block, normally open (NO)[Note14] (base piping type)	**F10:** 10-32UNF **F15:** NPT1/8

Caution: The 3-port specifications are only available in the valve specification **T0**, **T1**, and **T2**.

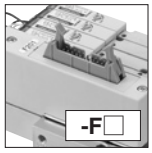
Valve specification

T0 : 2-position, for single solenoid only
T1 : 2-position, single solenoid specification
T2 : 2-position, double solenoid specification
T3 : 3-position, closed center
T4 : 3-position, exhaust center[Note8]
T5 : 3-position, pressure center[Note8]
TA : Tandem 3-port (NC and NC)[Note9]
TB : Tandem 3-port (NO and NO)[Note9]
TC : Tandem 3-port (NC and NO)[Note9]

Wiring specifications (wiring block)

(no power supply terminal only)

Flat cable connector (with socket and strain relief)



-F100N: 10-pin
-F101N: 10-pin
-F200N: 20-pin
-F201N: 20-pin
-F260N: 26-pin
For derails, see p. 92.

D-sub connector

(M2.6 mounting screws)
-D250N: 25-pin[Note13]
-D251N: 25-pin[Note13]
(4-40UNC mounting screws)
-D250NU: 25-pin[Note14]
-D251NU: 25-pin[Note14]
For derails, see p. 92.

Valve size

F10 Standard type
F10L Low-current type
F15 Standard type
F15L Low-current type

Note: Valves of **F10**□ and **F15**□ cannot be mounted together.

Wiring connection specification

Blank
Packed wiring: Wired to match the specifications of the mounted valve.

-W
Double wiring: Wiring is always for the double solenoid, regardless of the specifications of the mounted valve.

Pilot specification

Blank Internal pilot manifold

G External pilot manifold

Back pressure prevention valve

Blank No back pressure prevention valve

-E1 With back pressure prevention valve[Note10]

Valve size	Valve units	Manifold type	Manifold outlet specification	Pilot specification	Wiring specifications	Wiring connection specification	Station	Valve size	Valve specification	Operation type	Manual override	Valve outlet type	Wiring specification	Manifold fitting specification	Back pressure prevention valve	Individual air supply and exhaust spacer, stop valve	Voltage
Manifold model							Mounting valve model										
F10M F15M	2 ⋮ □ Note1	A AH	J M L	Blank G	-F100N -F101N -F200N -F201N -F260N -D250N -D251N	Blank -W	stn. 1 ⋮ stn.□ Note2	F10 F10L F15 F15L	T0 TA[Note9] T1 TB[Note9] T2 TC[Note9] T3 T4[Note8] T5[Note8]	Blank[Note5] G[Note6] V[Note6]	Blank -R[Note3]	-A1 Note4	-PN Note4	-J5[Note13] -J6A[Note13] -J6[Note13] -J6B[Note13] -M[Note13] -MA[Note13] -MH[Note14] -MAH[Note14] -J5A[Note13] -MB[Note13] -J5B[Note13] -MBH[Note14]	Blank -E1[Note10]	Blank -NPM -NRM -NP6 -NR6 -NP8 -NR8 -STP[Note5]	DC24V DC12V[Note11] AC100V[Note12] AC120V[Note12]
								F10 F15	BP (for block-off plate)[Note7]						Blank -STP[Note5]		

Notes: 1. For the maximum number of units, see the table for maximum number of valve units by wiring specification, on p. 51.
2. Valve mounting location is from the left, with the solenoid on top, and the 4(A), 2(B) ports side in front.
3. When the valve specification is **T1** or **T2**, the manual override lever is placed only on the A side.
4. Always enter **-A1** and **-PN**.
5. Cannot be mounted on the external pilot manifold.
6. Cannot be mounted on the internal pilot manifold.
7. Caution should be exercised that the block-off plate wiring is always double wiring (allocated 2 control pins at 1 stn.), regardless of the wiring connection specification. For single wiring, see p. 51.
8. Not available in the vacuum valves.
9. Not available in external pilot type and vacuum valves.
10. Not available with the individual exhaust spacer and vacuum valve.
11. Not available in low-current type.
12. Not available in low-current type and tandem 3-port valves. In addition, only available when the wiring specification is a D-sub connector.
13. Can be selected only when the manifold type is **A**.
14. Can be selected only when the manifold type is **AH**.

Gasket (gasket and exhaust valve)

F □ Z - GS1

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Block-off plate (block-off plate and 2 mounting screws)

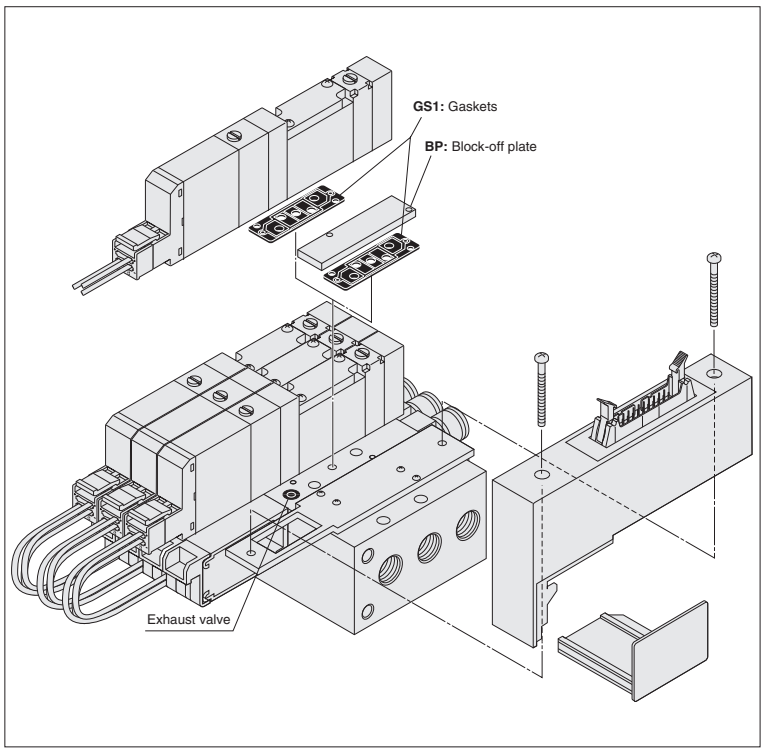
F □ BP

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Back pressure prevention valve (for monoblock type, 2 pieces)

F □ Z - E1

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width



Individual air supply and exhaust spacer (Spacer for non-plug-in type, gasket, exhaust valve, and 2 mounting screws)

F □ Z - □

Valve size	Specification	
10: 10 mm [0.394 in.] width	**NPM :**	Individual air supply spacer (with M5 female thread for F10)
	NP6 :	Individual air supply spacer (with ϕ6 fitting for F15)
15: 15 mm [0.591 in.] width	**NP8 :**	Individual air supply spacer (with ϕ8 fitting for F15)
	NRM :	Individual exhaust spacer (with M5 female thread for F10)
	NR6 :	Individual exhaust spacer (with ϕ6 fitting for F15)
	NR8 :	Individual exhaust spacer (with ϕ8 fitting for F15)

※For details, see p. 25.

Muffler

KM - J □

Fitting size
6: Outer diameter ϕ6 (for individual exhaust spacer)
8: Outer diameter ϕ8 (for individual exhaust spacer)
(Sales unit: Set of 10 mufflers)

Manifold Order Code Example

(6 units of F10 Series)

F10M6AL-F201N

stn.1 ~ 2 **F10T0-A1-PN-J5 DC24V**
stn.3 ~ 5 **F10T2-A1-PN-J6 DC24V**
stn.6 **F10BP-J6**

Note: This order code example has no relationship to the illustration at upper right.

■ Table for maximum number of valve units by wiring specification

Wiring specification	Max. outputs	Maximum number of units: Wiring connection specification: Packed wiring (**Blank**)	Maximum number of units: Wiring connection specification: Double wiring (**-W**)
F100N Flat cable (10P)	8	Varies depending on the number of mounted single solenoids, double solenoids, and block-off plates. The number of controlled solenoids should be designated as the maximum number of outputs or less.	4 units
F101N Flat cable (10P)	8		4 units
F200N Flat cable (20P)	16		8 units
F201N Flat cable (20P)	16		8 units
F260N Flat cable (26P)	20		10 units
D250N□ D-sub connector (25P)	16		8 units
D251N□ D-sub connector (25P)	20		10 units

Precautions for Order Codes

- **Manifold outlet specification**
  Select from among "dual use fitting blocks", "with female thread blocks" or "with selectable fittings." For repair or replacement, purchase the single valve unit additional parts, **F** □ **Z-J** (dual use fitting block), **F** □ **Z-J** □ (single use fitting block), or **F** □ **Z-M** □ (female thread block), on p. 45.
- **Orders for valves only**
  Place orders from "Single Valve Unit Order Codes" on p. 44. Note, however, that the only available valve outlet type is **A1**.
- **Wiring connection specification**
  Blank (packed wiring): Wired to match the specifications of the mounted valve.
  -W (double wiring): Wiring is always for the double solenoid, regardless of the specifications of the mounted valve.

Caution

Caution should be exercised that the block-off plate wiring is always double wiring (allocated 2 control pins at 1 stn.), regardless of the wiring connection specification.
The block-off plate wiring can be made as wiring for a single solenoid. Add **-1W** to the end of the block-off plate order code in the case.
For details, consult us.

F10, F15 Series Monoblock Manifold F Type, Wire-Saving Type (Direct Piping Type) Order Codes

■ Valve size

F10M
10 mm [0.394 in.] width

F15M
15 mm [0.591 in.] width

■ Valve specification

T0 : 2-position, for single solenoid only
T1 : 2-position, single solenoid specification
T2 : 2-position, double solenoid specification
T3 : 3-position, closed center
T4 : 3-position, exhaust center
T5 : 3-position, pressure center
TA : Tandem 3-port (NC and NC)
TB : Tandem 3-port (NO and NO)
TC : Tandem 3-port (NC and NO)

■ Manual override

Manual override button

Manual override lever[Note3]

■ Valve outlet type

5-port specification

-FJ	With dual use fitting block[Note9] (direct piping type)	**F10:** φ4, φ6 **F15:** φ6, φ8
-FJ5	With single use fitting block[Note9] (direct piping type)	**F10:** φ4 **F15:** φ6
-FJ6	With single use fitting block[Note9] (direct piping type)	**F10:** φ6 **F15:** φ8
-FM	With female thread block[Note9] (direct piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-FMH	With female thread block[Note10] (direct piping type)	**F10:** 10-32UNF **F15:** NPT1/8

3-port specification

-FJ5A	With single use fitting block, normally closed (NC)[Note9] (direct piping type)	**F10:** φ4 **F15:** φ6
-FJ5B	With single use fitting block, normally open (NO)[Note9] (direct piping type)	**F10:** φ4 **F15:** φ6
-FJ6A	With single use fitting block, normally closed (NC)[Note9] (direct piping type)	**F10:** φ6 **F15:** φ8
-FJ6B	With single use fitting block, normally open (NO)[Note9] (direct piping type)	**F10:** φ6 **F15:** φ8
-FMA	With female thread block, normally closed (NC)[Note9] (direct piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-FMAH	With female thread block, normally closed (NC)[Note10] (direct piping type)	**F10:** 10-32UNF **F15:** NPT1/8
-FMB	With female thread block, normally open (NO)[Note9] (direct piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-FMBH	With female thread block, normally open (NO)[Note10] (direct piping type)	**F10:** 10-32UNF **F15:** NPT1/8

Caution: The 3-port specifications are only available in the valve specification **T0**, **T1**, and **T2**.

■ Wiring specification (wiring block)

(no power supply terminal only)

Flat cable connector (with socket and strain relief)

-F100N: 10-pin
-F101N: 10-pin
-F200N: 20-pin
-F201N: 20-pin
-F260N: 26-pin
For derails, see p. 92.

D-sub connector

(M2.6 mounting screws)
-D250N: 25-pin[Note9]
-D251N: 25-pin[Note9]
(4-40UNC mounting screws)
-D250NU: 25-pin[Note10]
-D251NU: 25-pin[Note10]
For derails, see p. 92.

■ Wiring connection specification

Blank
Packed wiring: Wired to match the specifications of the mounted valve.

-W
Double wiring: Wiring is always for the double solenoid, regardless of the specifications of the mounted valve.

■ Valve size

F10 Standard type
F10L Low-current type
F15 Standard type
F15L Low-current type

Note: Valves of **F10**□ and **F15**□ cannot be mounted together.

■ Individual air supply and exhaust spacer, stop valve

Blank: No spacer and no stop valve
-NPM : Individual air supply spacer (with M5 female thread for F10)
-NP6 : Individual air supply spacer (with φ6 fitting for F15)
-NP8 : Individual air supply spacer (with φ8 fitting for F15)
-NRM : Individual exhaust spacer (with M5 female thread for F10)
-NR6 : Individual exhaust spacer (with φ6 fitting for F15)
-NR8 : Individual exhaust spacer (with φ8 fitting for F15)
-STP : With stop valve
For details, see p. 23, 25.

■ Back pressure prevention valve

Blank No back pressure prevention valve
-E1 With back pressure prevention valve[Note6]

■ Wiring specification

-PN
S type plug connector[Note4]

Valve size	Valve units	Manifold type	Wiring specification	Wiring connection specification	Station	Valve size	Valve specification	Manual override	Valve outlet type	Wiring specification	Back pressure prevention valve	Individual air supply and exhaust spacer, stop valve	Voltage
Manifold model					Mounting valve model								
F10M **F15M**	**2** ⋮ **□** Note1	**F** **FH**	**-F100N** **-F101N** **-F200N** **-F201N** **-F260N** **-D250N**[Note9] **-D251N**[Note9] **-D250NU**[Note10] **-D251NU**[Note10]	**Blank** **-W**	**stn. 1** ⋮ **stn.□** Note2	**F10** **F10L** **F15** **F15L** **F10 F15**	**T0** **TA** **T1** **TB** **T2** **TC** **T3** **T4** **T5** **BP** (for block-off plate)[Note5]	**Blank** **-R**[Note3]	**-FJ**[Note9] **-FJ6A**[Note9] **-FJ5**[Note9] **-FJ6B**[Note9] **-FJ6**[Note9] **-FMA**[Note9] **-FM**[Note9] **-FMAH**[Note10] **-FMH**[Note10] **-FMB**[Note9] **-FJ5A**[Note9] **-FMBH**[Note10] **-FJ5B**[Note9]	**-PN** Note4	**Blank** **-E1**[Note6]	**Blank** **-NPM** **-NRM** **-NP6** **-NR6** **-NP8** **-NR8** **-STP** **Blank** **-STP**	**DC24V** **DC12V**[Note7] **AC100V**[Note8] **AC120V**[Note8]

Notes: 1. For the maximum number of units, see the table for maximum number of valve units by wiring specification, on p. 53.
2. Valve mounting location is from the left, with the solenoid on top, and the 4(A), 2(B) ports side in front.
3. When the valve specification is **T1** or **T2**, the manual override lever is placed only on the A side.
4. Always enter **-PN**.
5. Caution should be exercised that the block-off plate wiring is always double wiring (allocated 2 control pins at 1 stn.), regardless of the wiring connection specification. For single wiring, see p. 53.
6. Not available with the individual exhaust spacer.
7. Not available in low-current type.
8. Not available in low-current type and tandem 3-port valves. In addition, only available when the wiring specification is a D-sub connector.
9. Can be selected only when the manifold type is **F**.
10. Can be selected only when the manifold type is **FH**.

Remark: The external pilot type valve cannot be mounted on the F type manifold.

Gasket (gasket and exhaust valve)

F□Z - GS1

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Block-off plate (block-off plate and 2 mounting screws)

F□BP

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Back pressure prevention valve
(for monoblock type, 2 pieces)

F□Z - E1

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

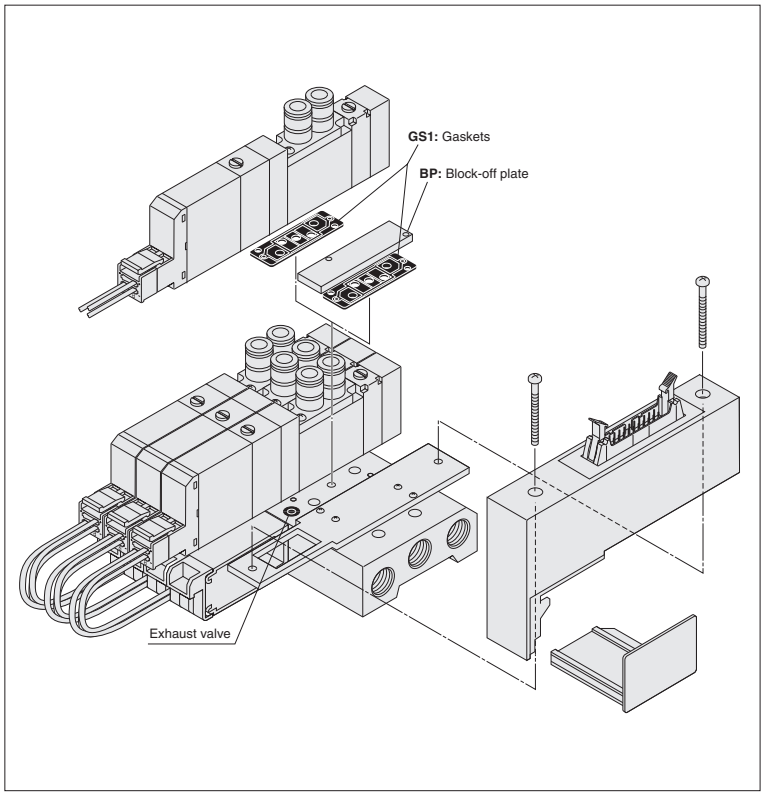
Individual air supply and exhaust spacer (Spacer for non-plug-in type, gasket, exhaust valve, and 2 mounting screws)

F□Z - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Specification
NPM: Individual air supply spacer (with M5 female thread for F10)
NP6: Individual air supply spacer (with ϕ6 fitting for F15)
NP8: Individual air supply spacer (with ϕ8 fitting for F15)
NRM: Individual exhaust spacer (with M5 female thread for F10)
NR6: Individual exhaust spacer (with ϕ6 fitting for F15)
NR8: Individual exhaust spacer (with ϕ8 fitting for F15)

※For details, see p. 25.



Muffler

KM - J□

Fitting size
6: Outer diameter ϕ6 (for individual exhaust spacer)
8: Outer diameter ϕ8 (for individual exhaust spacer)
(Sales unit: Set of 10 mufflers)

Manifold Order Code Example
(4 units of F10 Series)

F10M4F-F201

stn.1～2 **F10T0-FJ5-PN DC24V**
stn.3 **F10T2-FJ6-PN DC24V**
stn.4 **F10BP**

Note: This order code example has no relationship to the illustration at upper right.

■ Table for maximum number of valve units by wiring specification

		Maximum number of units	
		Wiring connection specification	
Wiring specification	Max. outputs	Packed wiring (**Blank**)	Double wiring (**-W**)
F100N Flat cable (10P)	8	Varies depending on the number of mounted single solenoids, double solenoids, and block-off plates. The number of controlled solenoids should be designated as the maximum number of outputs or less.	4 units
F101N Flat cable (10P)	8		4 units
F200N Flat cable (20P)	16		8 units
F201N Flat cable (20P)	16		8 units
F260N Flat cable (26P)	20		10 units
D250N□ D-sub connector (25P)	16		8 units
D251N□ D-sub connector (25P)	20		10 units

Precautions for Order Codes

● **Orders for valves only**
Place orders from "Single Valve Unit Order Codes" on p. 44.
Select from valve outlet types **-FJ**, **-FJ5**, **-FJ6**, **-FM**□, **-FJ5A**, **-FJ5B**, **-FJ6A**, **-FJ6B**, **-FMA**□, or **-FMB**□.

● **Wiring connection specification**
Blank (packed wiring): Wired to match the specifications of the mounted valve.
-W (double wiring): Wiring is always for the double solenoid, regardless of the specifications of the mounted valve.

Caution

Caution should be exercised that the block-off plate wiring is always double wiring (allocated 2 control pins at 1 stn.), regardless of the wiring connection specification.
The block-off plate wiring can be made as wiring for a single solenoid. Add **-1W** to the end of the block-off plate order code in the case.
For details, consult us.

F10, F15 Series PC Board Manifold A Type (Base Piping Type) Order Codes

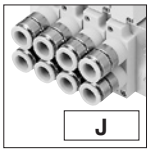
■ Valve size

F10M
10 mm [0.394 in.] width

F15M
15 mm [0.591 in.] width

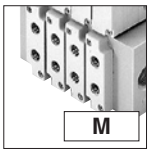
■ Manifold outlet specification

With dual use fitting blocks (base piping type)



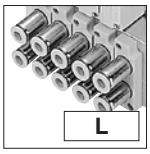
Outlet port fitting
F10: ϕ4, ϕ6
F15: ϕ6, ϕ8

With female thread blocks (base piping type)



Outlet port female thread
F10: M5 × 0.8
F15: Rc1/8

With selectable fittings (base piping type)



Outlet port should be selected in accordance with the manifold fitting specification.

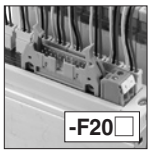
■ Pilot specification

Blank
Internal pilot manifold

G
External pilot manifold

■ Wiring specification (wiring block)

Flat cable connector (with socket and strain relief)



-F200: 20-pin
-F201: 20-pin
For details, see p. 90.

■ Wiring connection specification

-S
Single wiring Note1

-W
Double wiring Note2

Valve size	Valve units	Manifold outlet specification	Pilot specification	Wiring specification	Wiring connection specification
Manifold model					
Single wiring typeNote1					
F10M F15M	6 8 10 12 14 16 Note3	AP	J M	Blank G	-F200 -F201	-S
			L	Blank G	-F200 -F201	-S
Double wiring typeNote2					
	6 8 Note3	AP	J M	Blank G	-F200 -F201	-W
			L	Blank G	-F200 -F201	-W

Notes: 1. Wiring is for the single solenoid only. Note that this is not the same as packed wiring. The mounting valves are limited to single solenoid only (**T0, T1** specifications). Therefore, even if the **T1** specification valve is switched over to a double solenoid, no power will be applied to the B side solenoid.
2. Wiring is always for the double solenoid, regardless of the specifications of the mounted valves.
3. In terms of wiring connection specifications, the number of units for single wiring is 6-16 (even numbers only) and for double wiring is 6 or 8.

Valve specification

T0 : 2-position, for single solenoid only
T1 : 2-position, single solenoid specification
T2 : 2-position, double solenoid specification
T3 : 3-position, closed center
T4 : 3-position, exhaust center Note9
T5 : 3-position, pressure center Note9
TA : Tandem 3-port (NC and NC) Note10
TB : Tandem 3-port (NO and NO) Note10
TC : Tandem 3-port (NC and NO) Note10

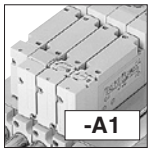
Manual override

Manual override button

Manual override lever Note7

Valve outlet type

With plate Note8 (base piping type)



Wiring specification

S type plug connector
Lead wire for PC board Note8

Manifold fitting specification

5-port specification

-J5	With single use fitting block (base piping type)	**F10:** ϕ4 **F15:** ϕ6
-J6	With single use fitting block (base piping type)	**F10:** ϕ6 **F15:** ϕ8
-M	With female thread block (base piping type)	**F10:** M5×0.8 **F15:** Rc1/8

3-port specification

-J5A	With single use fitting block, normally closed (NC) (base piping type)	**F10:** ϕ4 **F15:** ϕ6
-J5B	With single use fitting block, normally open (NO) (base piping type)	**F10:** ϕ4 **F15:** ϕ6
-J6A	With single use fitting block, normally closed (NC) (base piping type)	**F10:** ϕ6 **F15:** ϕ8
-J6B	With single use fitting block, normally open (NO) (base piping type)	**F10:** ϕ6 **F15:** ϕ8
-MA	With female thread block, normally closed (NC) (base piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-MB	With female thread block, normally open (NO) (base piping type)	**F10:** M5×0.8 **F15:** Rc1/8

Caution: The 3-port specification is only available in the valve specification **T0**, **T1**, and **T2**.

Valve size

F10	Standard type
F10L	Low-current type
F15	Standard type
F15L	Low-current type

Note: Valves of **F10**□ and **F15**□ cannot be mounted together.

Operation type

Blank Internal pilot type Note5

G External pilot type Note6 (for positive pressure)

V External pilot type Note6 (for vacuum) ※
※: This is a vacuum valve.

Note: Cannot be mounted together with a valve for positive pressure.

Back pressure prevention valve

Blank	No back pressure prevention valve
-E1	With back pressure prevention valve Note12

Individual air supply and exhaust spacer, stop valve

Blank : No spacer and no stop valve
-NPM : Individual air supply spacer (with M5 female thread for F10)
-NP6 : Individual air supply spacer (with ϕ6 fitting for F15)
-NP8 : Individual air supply spacer (with ϕ8 fitting for F15)
-NRM : Individual exhaust spacer (with M5 female thread for F10)
-NR6 : Individual exhaust spacer (with ϕ6 fitting for F15)
-NR8 : Individual exhaust spacer (with ϕ8 fitting for F15)
-STP : With stop valve Note5
For details, see p. 23, 25.

Station	Valve size	Valve specification	Operation type	Manual override	Valve outlet type	Wiring specification	Manifold fitting specification	Back pressure prevention valve	Individual air supply and exhaust spacer, stop valve	Voltage
Mounting valve model										
stn. 1 : : stn.□ Note4	F10 F10L F15 F15L	T0 T1 Note1	Blank Note5 G Note6 V Note6	Blank -R Note7	-A1 Note8	-PP Note8		Blank -E1 Note12	Blank -NPM -NRM -STP Note5 -NP6 -NR6 -NP8 -NR8	DC24V DC12V Note13
	F10 F15	BPC (for block-off plate)							Blank -STP Note5	
stn. 1 : : stn.□ Note4	F10 F10L F15 F15L	T0 T1 Note1	Blank Note5 G Note6 V Note6	Blank -R Note7	-A1 Note8	-PP Note8	-J5 -J6 -M -J5A -J5B -J6A -J6B -MA -MB	Blank -E1 Note12	Blank -NPM -NRM -STP Note5 -NP6 -NR6 -NP8 -NR8	DC24V DC12V Note13
	F10 F15	BPC (for block-off plate)							Blank -STP Note5	
stn. 1 : : stn.□ Note4	F10 F10L F15 F15L	T0 T3 TA Note10 T1 T4 Note9 TB Note10 T2 T5 Note9 TC Note10	Blank Note5 G Note6 V Note6	Blank -R Note7	-A1 Note8	-PP Note8 Note11		Blank -E1 Note12	Blank -NPM -NRM -STP Note5 -NP6 -NR6 -NP8 -NR8	DC24V DC12V Note13
	F10 F15	BPC (for block-off plate)							Blank -STP Note5	
stn. 1 : : stn.□ Note4	F10 F10L F15 F15L	T0 T3 TA Note10 T1 T4 Note9 TB Note10 T2 T5 Note9 TC Note10	Blank Note5 G Note6 V Note6	Blank -R Note7	-A1 Note8	-PP Note8 Note11	-J5 -J6 -M -J5A -J5B -J6A -J6B -MA -MB	Blank -E1 Note12	Blank -NPM -NRM -STP Note5 -NP6 -NR6 -NP8 -NR8	DC24V DC12V Note13
	F10 F15	BPC (for block-off plate)							Blank -STP Note5	

Notes: 4. Valve mounting location is from the left, with the solenoid on top, and the 4(A), 2(B) ports side in front.
5. Cannot be mounted on the external pilot manifold.
6. Cannot be mounted on the internal pilot manifold.
7. When the valve specification is **T1** or **T2**, the manual override lever is placed only on the A side.
8. Always enter **-A1** and **-PP**.
9. Not available in the vacuum valves.
10. Not available in external pilot type and vacuum valves.
11. The lead wire on the solenoid B side (white) is not available in valve specification **T0**.
12. Not available with the individual exhaust spacer and vacuum valve.
13. Not available in low-current type.

Gasket (gasket and exhaust valve)

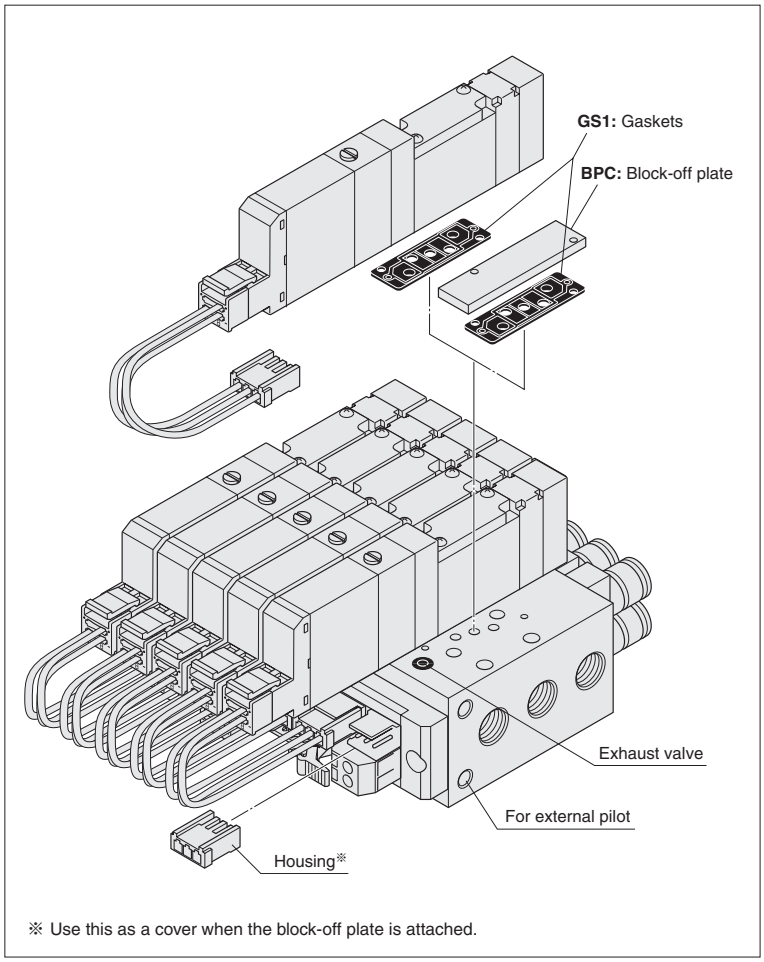
F□Z - GS1

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Block-off plate
(block-off plate, 2 mounting screws, and housing)

F□BPC

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width



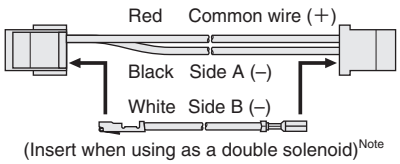
※ Use this as a cover when the block-off plate is attached.

Connector-related order codes

JAZ□ - □

Valve specification
Blank: For **T1, T2, T3, T4, T5, TA, TB, TC**
0: For **T0**

Connector specification
P10: For F10 series
Connector lead wire for PC board manifold
P15: For F15 series
Connector lead wire for PC board manifold



(Insert when using as a double solenoid)[Note]

Note: White lead wire is not available for **JAZ0-P□** .

Individual air supply and exhaust spacer
(Spacer for non-plug-in type, gasket, exhaust valve, and 2 mounting screws)

F□Z - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Specification
NPM : Individual air supply spacer (with M5 female thread for F10)
NP6 : Individual air supply spacer (with ϕ 6 fitting for F15)
NP8 : Individual air supply spacer (with ϕ 8 fitting for F15)
NRM : Individual exhaust spacer (with M5 female thread for F10)
NR6 : Individual exhaust spacer (with ϕ 6 fitting for F15)
NR8 : Individual exhaust spacer (with ϕ 8 fitting for F15)

※For details, see p. 25.

Back pressure prevention valve
(for monoblock type, 2 pieces)

F□Z - E1

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Manifold Order Code Example
(8 units of F10 Series)

F10M8APL-F201-W

stn.1～4 **F10T0-A1-PP-J5 DC24V**
stn.5～7 **F10T2-A1-PP-J6 DC24V**
stn.8 **F10BPC-J6**

Note: This order code example has no relationship to the illustration at upper right.

Muffler

KM - J□

Fitting size
6: Outer diameter ϕ 6 (for individual exhaust spacer)
8: Outer diameter ϕ 8 (for individual exhaust spacer)
(Sales unit: Set of 10 mufflers)

Precautions for Order Codes

● **Orders for valves only**

Enter the code | Valve size | Valve specification | Pilot specification | Manual override | - | Valve outlet type | - **PP** | Voltage | to order.

When the lead wire for the PC board is not required, enter **-PN.**

● **Wiring connection specification**
-S (single wiring): Wiring for single solenoid only.
-W (double wiring): Wiring is always for the double solenoid, regardless of the specifications of the mounted valve.

F10, F15 Series PC Board Manifold F Type (Direct Piping Type) Order Codes

Valve size

F10M
10 mm [0.394 in.] width

F15M
15 mm [0.591 in.] width

Manual override

Manual override button

Manual override lever Note5

Valve outlet type

5-port specification

-FJ	With dual use fitting block (direct piping type)	**F10:** φ4, φ6 **F15:** φ6, φ8
-FJ5	With single use fitting block (direct piping type)	**F10:** φ4 **F15:** φ6
-FJ6	With single use fitting block (direct piping type)	**F10:** φ6 **F15:** φ8
-FM	With female thread block (direct piping type)	**F10:** M5×0.8 **F15:** Rc1/8

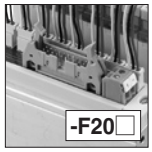
3-port specification

-FJ5A	With single use fitting block, normally closed (NC) (direct piping type)	**F10:** φ4 **F15:** φ6
-FJ5B	With single use fitting block, normally open (NO) (direct piping type)	**F10:** φ4 **F15:** φ6
-FJ6A	With single use fitting block, normally closed (NC) (direct piping type)	**F10:** φ6 **F15:** φ8
-FJ6B	With single use fitting block, normally open (NO) (direct piping type)	**F10:** φ6 **F15:** φ8
-FMA	With female thread block, normally closed (NC) (direct piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-FMB	With female thread block, normally open (NO) (direct piping type)	**F10:** M5×0.8 **F15:** Rc1/8

Caution: The 3-port specifications are only available in the valve specification **T0**, **T1**, and **T2**.

Wiring specification (wiring block)

Flat cable connector
(with socket and strain relief)



-F200: 20-pin
-F201: 20-pin
For details, see p. 90.

Wiring specification

S type plug connector
Lead wire for PC board

Individual air supply and exhaust spacer, stop valve

Blank: No spacer and no stop valve
-NPM : Individual air supply spacer (with M5 female thread for F10)
-NP6 : Individual air supply spacer (with φ6 fitting for F15)
-NP8 : Individual air supply spacer (with φ8 fitting for F15)
-NRM : Individual exhaust spacer (with M5 female thread for F10)
-NR6 : Individual exhaust spacer (with φ6 fitting for F15)
-NR8 : Individual exhaust spacer (with φ8 fitting for F15)
-STP : With stop valve
For details, see p. 23, 25.

Wiring connection specification

-S	**Single wiring** Note1
-W	**Double wiring** Note2

Valve size

F10	Standard type
F10L	Low-current type
F15	Standard type
F15L	Low-current type

Note: Valves of **F10**□ and **F15**□ cannot be mounted together.

Valve specification

T0 : 2-position, for single solenoid only
T1 : 2-position, single solenoid specification
T2 : 2-position, double solenoid specification
T3 : 3-position, closed center
T4 : 3-position, exhaust center
T5 : 3-position, pressure center
TA : Tandem 3-port (NC and NC)
TB : Tandem 3-port (NO and NO)
TC : Tandem 3-port (NC and NO)

Back pressure prevention valve

Blank	No back pressure prevention valve
-E1	With back pressure prevention valve Note8

Valve size	Valve units	Wiring specification	Wiring connection specification	Station	Valve size	Valve specification	Manual override	Valve outlet type	Wiring specification	Back pressure prevention valve	Individual air supply and exhaust spacer, stop valve	Voltage
Manifold model				Mounting valve model								
Single wiring type Note1												
F10M	6 8 10 12 14 16 Note3	**FP**	**-F200** **-F201**	**-S**	stn. 1 ⋮ stn.□ Note4	**F10** **F10L** **F15** **F15L**	**T0** **T1** Note1	**Blank** **-R** Note5	**-FJ** **-FJ5B** **-FJ5** **-FJ6A** **-FJ6** **-FJ6B** **-FM** **-FMA** **-FJ5A** **-FMB**	**-PP** Note6	**Blank** **-E1** Note8	**Blank** **-NPM** **-NRM** **-NP6** **-NR6** **-NP8** **-NR8** **-STP**	**DC24V** **DC12V** Note9
					F10 **F15**	**BPC** (for block-off plate)					**Blank** **-STP**	
Double wiring type Note2												
F15M	6 8 Note3	**FP**	**-F200** **-F201**	**-W**	stn. 1 ⋮ stn.□ Note4	**F10** **F10L** **F15** **F15L**	**T0** **T3** **TA** **T1** **T4** **TB** **T2** **T5** **TC**	**Blank** **-R** Note5	**-FJ** **-FJ5B** **-FJ5** **-FJ6A** **-FJ6** **-FJ6B** **-FM** **-FMA** **-FJ5A** **-FMB**	**-PP** Note6 Note7	**Blank** **-E1** Note8	**Blank** **-NPM** **-NRM** **-NP6** **-NR6** **-NP8** **-NR8** **-STP**	**DC24V** **DC12V** Note9
					F10 **F15**	**BPC** (for block-off plate)					**Blank** **-STP**	

Notes: 1. Wiring is for the single solenoid only. Note that this is not the same as packed wiring. The mounting valves are limited to single solenoid only (**T0, T1** specifications). Therefore, even if the **T1** specification valve is switched over to a double solenoid, no power will be applied to the B side solenoid.
2. Wiring is always for the double solenoid, regardless of the specifications of the mounted valve.
3. In terms of wiring connection specifications, the number of units for single wiring is 6-16 (even numbers only) and for double wiring is 6 or 8.
4. Valve mounting location is from the left, with the solenoid on top, and the 4(A), 2(B) ports side in front.
5. When the valve specification is **T1** or **T2**, the manual override lever is placed only on the A side.
6. Always enter **-PP**.
7. The lead wire on the solenoid B side (white) is not available in valve specification **T0**.
8. Not available with the individual exhaust spacer.
9. Not available in low-current type.

Gasket (gasket and exhaust valve)

F □ Z - GS1

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Block-off plate
(block-off plate, 2 mounting screws, and housing)

F □ BPC

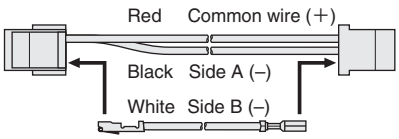
Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Connector-related order code

JAZ□ - □

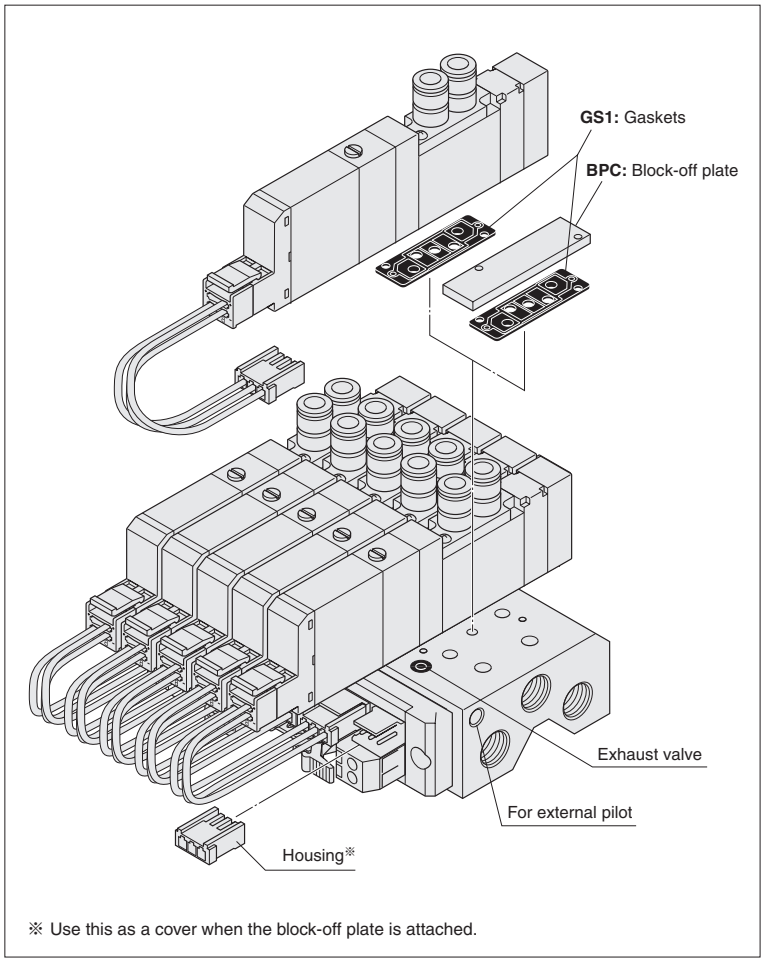
Valve specification
Blank: For **T1, T2, T3, T4, T5, TA, TB, TC**
0: For **T0**

Connector specification
P10: For F10 series
Connector lead wire for PC board manifold
P15: For F15 series
Connector lead wire for PC board manifold



(Insert when using as a double solenoid)Note

Note: White lead wire is not available for **JAZ0-P□** .



※ Use this as a cover when the block-off plate is attached.

Back pressure prevention valve
(for monoblock type, 2 pieces)

F □ Z - E1

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Individual air supply and exhaust spacer
(Spacer for non-plug-in type, gasket, exhaust valve, and 2 mounting screws)

F □ Z - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Specification
NPM : Individual air supply spacer (with M5 female thread for F10)
NP6 : Individual air supply spacer (with φ6 fitting for F15)
NP8 : Individual air supply spacer (with φ8 fitting for F15)
NRM : Individual exhaust spacer (with M5 female thread for F10)
NR6 : Individual exhaust spacer (with φ6 fitting for F15)
NR8 : Individual exhaust spacer (with φ8 fitting for F15)

※For details, see p. 25.

Manifold Order Code Example
(8 units of F10 Series)

F10M8FP-F201-W

stn.1～4 F10T0-FJ5-PP DC24V
stn.5～7 F10T2-FJ6-PP DC24V
stn.8 F10BPC

Note: This order code example has no relationship to the illustration at upper right.

Muffler

KM - J □

Fitting size
6: Outer diameter φ6 (for individual exhaust spacer)
8: Outer diameter φ8 (for individual exhaust spacer)
(Sales unit: Set of 10 mufflers)

Precautions for Order Codes

● **Orders for valves only**

Enter the code [Valve size] [Valve specification] [Manual override] - [Valve outlet type] - **PP** [Voltage] to order.

When the lead wire for the PC board is not required, enter **-PN.**

● **Wiring connection specification**
-S (single wiring): Wiring for single solenoid only.
-W (double wiring): Wiring is always for the double solenoid, regardless of the specifications of the mounted valve.

F10, F15 Series Split Manifold Non-Plug-in Type Order Codes

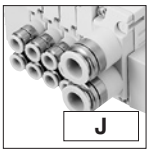
■ Valve size

F10M 10 mm [0.394 in.] width

F15M 15 mm [0.591 in.] width

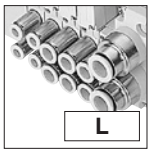
■ Manifold outlet specification

With dual use fitting blocks (base piping type)



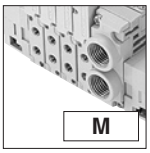
Outlet port fitting
F10: ϕ4, ϕ6
F15: ϕ6, ϕ8

With selectable fittings (base piping type)



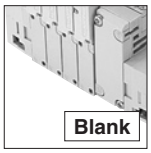
Outlet port should be selected in accordance with the manifold fitting specification.

With female thread blocks (base piping type)



Outlet port female thread
F10: M5 × 0.8
F15: Rc1/8

With plates (direct piping type)



■ Pilot specification

Blank Internal pilot manifold

G External pilot manifold

■ Piping block specification (air supply and exhaust)

Fitting block
-JR : Dual use fitting, right-side mounting Note11
-JL : Dual use fitting, left-side mounting Note11
-JD : Dual use fitting, both-side mounting Note11
Fitting size (1(P), 3, 5(R) ports), ϕ8, ϕ10

Female thread block
-MR : Female thread, right-side mounting Note11
-ML : Female thread, left-side mounting Note11
-MD : Female thread, both-side mounting Note11
Female thread size (1(P), 3, 5(R) ports), Rc1/4

Female thread block
-MRH : Female thread, right-side mounting Note12
-MLH : Female thread, left-side mounting Note12
-MDH : Female thread, both-side mounting Note12
Female thread size (1(P), 3, 5(R) ports), NPT1/4

Single use fitting block
-J5R : Single use fitting, right-side mounting Note11
-J5L : Single use fitting, left-side mounting Note11
-J5D : Single use fitting, both-side mounting Note11
Fitting size (1(P), 3, 5(R) ports), ϕ8

-J6R : Single use fitting, right-side mounting Note11
-J6L : Single use fitting, left-side mounting Note11
-J6D : Single use fitting, both-side mounting Note11
Fitting size (1(P), 3, 5(R) ports), ϕ10

■ Valve size

F10 Standard type

F10L Low-current type

F15 Standard type

F15L Low-current type

Note: Valves of **F10**□ and **F15**□ cannot be mounted together.

	Valve size	Valve units	Manifold type	Manifold outlet specification	Pilot specification	Piping block specification
	Manifold model					
Base piping type	F10M F15M	2 : 20	N	J M	Blank G	-JR -J5R -JL -J6R -JD -J5L -MR -J6L -ML -J5D -MD -J6D
Base piping type selectable fitting	F10M F15M	2 : 20	N NH	L	Blank G	-JR Note11 -MDH Note12 -JL Note11 -J5R Note11 -JD Note11 -J6R Note11 -MR Note11 -J5L Note11 -ML Note11 -J6L Note11 -MD Note11 -J5D Note11 -MRH Note12 -J6D Note11 -MLH Note12
Direct piping type	F10M F15M	2 : 20	N NH	Blank	Blank G	-JR Note11 -MDH Note12 -JL Note11 -J5R Note11 -JD Note11 -J6R Note11 -MR Note11 -J5L Note11 -ML Note11 -J6L Note11 -MD Note11 -J5D Note11 -MRH Note12 -J6D Note11 -MLH Note12

Remark: Negative common specifications are also available as made to order products (add **-129W** to the ends of the valve and manifold model order codes). For details, consult us.

Valve specification

T0 : 2-position, for single solenoid only
T1 : 2-position, single solenoid specification
T2 : 2-position, double solenoid specification
T3 : 3-position, closed center
T4 : 3-position, exhaust center
T5 : 3-position, pressure center
TA : Tandem 3-port (NC and NC)Note7
TB : Tandem 3-port (NO and NO)Note7
TC : Tandem 3-port (NC and NO)Note7

Operation type

Blank
Internal pilot typeNote5

G
External pilot typeNote6
(for positive pressure)
※ No vacuum valve can be mounted.

Manual override

Manual override button

Manual override leverNote2

Valve outlet type

-A1 With plateNote3 (base piping type)

5-port specification

-FJ	With dual use fitting blockNote11 (direct piping type)	**F10:** φ4, φ6 **F15:** φ6, φ8
-FJ5	With single use fitting blockNote11 (direct piping type)	**F10:** φ4 **F15:** φ6
-FJ6	With single use fitting blockNote11 (direct piping type)	**F10:** φ6 **F15:** φ8
-FM	With female thread blockNote11 (direct piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-FMH	With female thread blockNote12 (direct piping type)	**F10:** 10-32UNF **F15:** NPT1/8

3-port specification

-FJ5A	With single use fitting block, normally closed (NC)Note11 (direct piping type)	**F10:** φ4 **F15:** φ6
-FJ5B	With single use fitting block, normally open (NO)Note11 (direct piping type)	**F10:** φ4 **F15:** φ6
-FJ6A	With single use fitting block, normally closed (NC)Note11 (direct piping type)	**F10:** φ6 **F15:** φ8
-FJ6B	With single use fitting block, normally open (NO)Note11 (direct piping type)	**F10:** φ6 **F15:** φ8
-FMA	With female thread block, normally closed (NC)Note11 (direct piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-FMAH	With female thread block, normally closed (NC)Note12 (direct piping type)	**F10:** 10-32UNF **F15:** NPT1/8
-FMB	With female thread block, normally open (NO)Note11 (direct piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-FMBH	With female thread block, normally open (NO)Note12 (direct piping type)	**F10:** 10-32UNF **F15:** NPT1/8

Caution: The 3-port specifications are only available in the valve specification **T0**, **T1**, and **T2**.

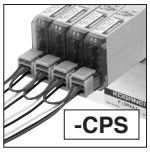
Wiring specification

S type plug connector
Without connector

S type plug connector
Lead wire 300 mm [11.8 in.]

S type plug connector
Lead wire 3000 mm [118 in.]

Pre-wired positive common terminal
S type plug connector
Lead wire 300 mm [11.8 in.]



Pre-wired positive common terminal
S type plug connector
Lead wire 3000 mm [118 in.]

Manifold fitting specification

5-port specification

-J5	With single use fitting blockNote11 (base piping type)	**F10:** φ4 **F15:** φ6
-J6	With single use fitting blockNote11 (base piping type)	**F10:** φ6 **F15:** φ8
-M	With female thread blockNote11 (base piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-MH	With female thread blockNote12 (base piping type)	**F10:** 10-32UNF **F15:** NPT1/8

3-port specification

-J5A	With single use fitting block, normally closed (NC)Note11 (base piping type)	**F10:** φ4 **F15:** φ6
-J5B	With single use fitting block, normally open (NO)Note11 (base piping type)	**F10:** φ4 **F15:** φ6
-J6A	With single use fitting block, normally closed (NC)Note11 (base piping type)	**F10:** φ6 **F15:** φ8
-J6B	With single use fitting block, normally open (NO)Note11 (base piping type)	**F10:** φ6 **F15:** φ8
-MA	With female thread block, normally closed (NC)Note11 (base piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-MAH	With female thread block, normally closed (NC)Note12 (base piping type)	**F10:** 10-32UNF **F15:** NPT1/8
-MB	With female thread block, normally open (NO)Note11 (base piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-MBH	With female thread block, normally open (NO)Note12 (base piping type)	**F10:** 10-32UNF **F15:** NPT1/8

Caution: The 3-port specifications are only available in the valve specification **T0**, **T1**, and **T2**.

Port isolator

Blank : No port isolator
-SP : For 1(P) portNote4
-SR : For 3(R2), 5(R1) portsNote4
-SA : For 1(P), 3(R2), and 5(R1) portsNote4

Back pressure prevention valve

Blank
No back pressure prevention valve

-E2
With back pressure prevention valveNote8

Individual air supply and exhaust spacer

Blank : No spacer
-NPM : Individual air supply spacer (with M5 female thread for F10)
-NP6 : Individual air supply spacer (with φ6 fitting for F15)
-NP8 : Individual air supply spacer (with φ8 fitting for F15)
-NRM : Individual exhaust spacer (with M5 female thread for F10)
-NR6 : Individual exhaust spacer (with φ6 fitting for F15)
-NR8 : Individual exhaust spacer (with φ8 fitting for F15)
For details, see p. 25.

Station	Valve size	Valve specification	Operation type	IP specification	Manual override	Valve outlet type	Wiring specification	Manifold fitting specification	Back pressure prevention valve	Individual air supply and exhaust spacer	Port isolator	Voltage
Mounting valve model												
stn. 1 : stn.□ Note1	F10 F10L F15 F15L	T0 TANote7 T1 TBNote7 T2 TCNote7 T3 T4 T5	BlankNote5 GNote6	Blank -PNote13	Blank -RNote2	-A1Note3	-PN -PS -PS3 -CPS -CPS3	Blank -E2Note8	Blank -NPM -NRM -NP6 -NR6 -NP8 -NR8	Blank -SPNote4 -SRNote4 -SANote4	DC24V DC12VNote9 AC100VNote10 AC120VNote10	
	F10 F15	BPN (for block-off plate)										
stn. 1 : stn.□ Note1	F10 F10L F15 F15L	T0 TANote7 T1 TBNote7 T2 TCNote7 T3 T4 T5	BlankNote5 GNote6	Blank -PNote13	Blank -RNote2	-A1Note3	-PN -PS -PS3 -CPS -CPS3	-J5Note11 -J6ANote11 -J6Note11 -J6BNote11 -MNote11 -MANote11 -MHNote12 -MAHNote12 -J5ANote11 -MBNote11 -J5BNote11 -MBHNote12 Blank -E2Note8	Blank -NPM -NRM -NP6 -NR6 -NP8 -NR8	Blank -SPNote4 -SRNote4 -SANote4	DC24V DC12VNote9 AC100VNote10 AC120VNote10	
	F10 F15	BPN (for block-off plate)										
stn. 1 : stn.□ Note1	F10 F10L F15 F15L	T0 TANote7 T1 TBNote7 T2 TCNote7 T3 T4 T5	BlankNote5 GNote6	Blank -PNote13	Blank -RNote2	-FJNote11 -FJ6ANote11 -FJ5Note11 -FJ6BNote11 -FJ6Note11 -FMANote11 -FMNote11 -FMAHNote12 -FMHNote12 -FMBNote11 -FJ5ANote11 -FMBHNote12 -FJ5BNote11	-PN -PS -PS3 -CPS -CPS3	Blank -E2Note8	Blank -NPM -NRM -NP6 -NR6 -NP8 -NR8	Blank -SPNote4 -SRNote4 -SANote4	DC24V DC12VNote9 AC100VNote10 AC120VNote10	
	F10 F15	BPN (for block-off plate)										

Notes: 1. Valve mounting location is from the left, with the solenoid on top, and the 4(A), 2(B) ports side in front.
2. When the valve specification is **T1** or **T2**, the manual override lever is placed only on the A side.
3. When selecting **J, M**, or **L** (base piping type) for the manifold outlet specification, always enter **-A1** (with plate) for the valve outlet type.
4. Port isolators can be installed only when piping blocks are mounted on both sides. In addition, only 1 port isolator can be mounted in 1 manifold for **-SA**, or 1 each port isolator for **-SP** and **-SR** for a total of 2 locations. When shipping, the designated port isolators are mounted between the designated station and the station to its immediate left (the next smaller stn. No.).
5. Cannot be mounted on the external pilot manifold.
6. Cannot be mounted on the internal pilot manifold.
7. Not available in external pilot type.
8. Not available with the individual exhaust spacer.
9. Not available in low-current type.
10. Not available in low-current type and tandem 3-port valves.
11. Can be selected only when the manifold type is **N**.
12. Can be selected only when the manifold type is **NH**.
13. IP65 compliant protective construction to protect against intrusion of dust and water from outside.

Parts for manifold

F□Z - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Parts content
GS2 : Gasket (gasket and exhaust valve)
SP : Port isolator (for 1(P) port)
SR : Port isolator (for 3(R2), 5(R1) ports)
SA : Port isolator (for 1(P), 3(R2), 5(R1) ports)

Block-off plate (block-off plate, 2 mounting screws, and plug)

F□BP N

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

For non-plug-in type

Connector-related order codes ※For details, see p. 19.

JAZ□ - □

300 mm = 11.8 in.
1500 mm = 59 in.
3000 mm = 118 in.

Valve specification
Blank: For **T1, T2, T3, T4, T5, TA, TB, TC**
0: For **T0**

Connector specification
CP : Connector, lead wire length 300 mm
CP3 : Connector, lead wire length 3000 mm
CPN : Connector without lead wire (short bar, contacts included)
PA : Positive common A type, lead wire length 300 mm ※
PA3 : Positive common A type, lead wire length 3000 mm ※
PB : Positive common B type, lead wire length 300 mm ※
PB3 : Positive common B type, lead wire length 3000 mm ※
PC : Positive common C type, lead wire length 300 mm ※
PC3 : Positive common C type, lead wire length 3000 mm ※

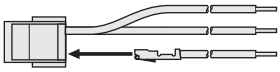
FZ - □

Valve specification
For **T1, T2, T3, T4, T5, TA, TB, TC**

Connector specification
CC1.5 : Cabtyre cable, length 1500 mm ※
CC3 : Cabtyre cable, length 3000 mm ※

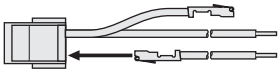
● Common connector assembly

A Type: JAZ-PA□※



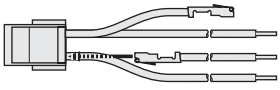
Red Common wire (+)
Black A side (–)
White B side (–) (Insert when using as double solenoid) Note

B Type: JAZ-PB□※



Red Common wire (+)
Black A side (–)
White B side (–) (Insert when using as double solenoid) Note

C Type: JAZ-PC□※



Red Common wire (+)
Black A side (–)
White B side (–) (Insert when using as double solenoid) Note
Red Common wire (+)

※ Lead wire length **Blank:** 300 mm [11.8 in.] **3:** 3000 mm [118 in.]

Note: White lead wire is not available with **JAZ0-P□□** .

Remark: Connector for negative common type also available. For details, see p. 19.

Valve base assembly (valve base and gasket)

F□Z□ - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Pilot specification
Blank : Internal pilot
G : External pilot

Piping specification
VJ : Dual use fitting valve base
VJ5 : Single use fitting valve base F10: ϕ4, F15: ϕ6
VJ6 : Single use fitting valve base F10: ϕ6, F15: ϕ8
VJ5A : 3-port specification normally closed, single use fitting valve base F10: ϕ4, F15: ϕ6
VJ5B : 3-port specification normally open, single use fitting valve base F10: ϕ4, F15: ϕ6
VJ6A : 3-port specification normally closed, single use fitting valve base F10: ϕ6, F15: ϕ8
VJ6B : 3-port specification normally open, single use fitting valve base F10: ϕ6, F15: ϕ8
VM : Female thread valve base F10: M5 × 0.8, F15: Rc1/8
VMA : 3-port specification normally closed, female thread valve base F10: M5 × 0.8, F15: Rc1/8
VMB : 3-port specification normally open, female thread valve base F10: M5 × 0.8, F15: Rc1/8
VMH : Female thread valve base F10: 10-32UNF, F15:NPT1/8
VMAH : 3-port specification normally closed, female thread valve base F10: 10-32UNF, F15: NPT1/8
VMBH : 3-port specification normally open, female thread valve base F10: 10-32UNF, F15: NPT1/8
VP : Valve base plate

Piping block assembly

F□Z□ - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Piping specification
PJ : Dual use fitting piping block
PJ5 : Single use fitting piping block ϕ8
PJ6 : Single use fitting piping block ϕ10
PM : Female thread piping block Rc1/4
PMH : Female thread piping block NPT1/4

Pilot specification
Blank : Internal pilot
G : External pilot

End blocks (one set of left and right)

F□Z□ - E

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Pilot specification
Blank : Internal pilot
G : External pilot

Back pressure prevention valve
(2 pieces for split type, with dedicated gasket)

F□Z - E2

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Individual air supply and exhaust spacer (Spacer for non-plug-in type, gasket, exhaust valve, and 2 mounting screws)

F□Z - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

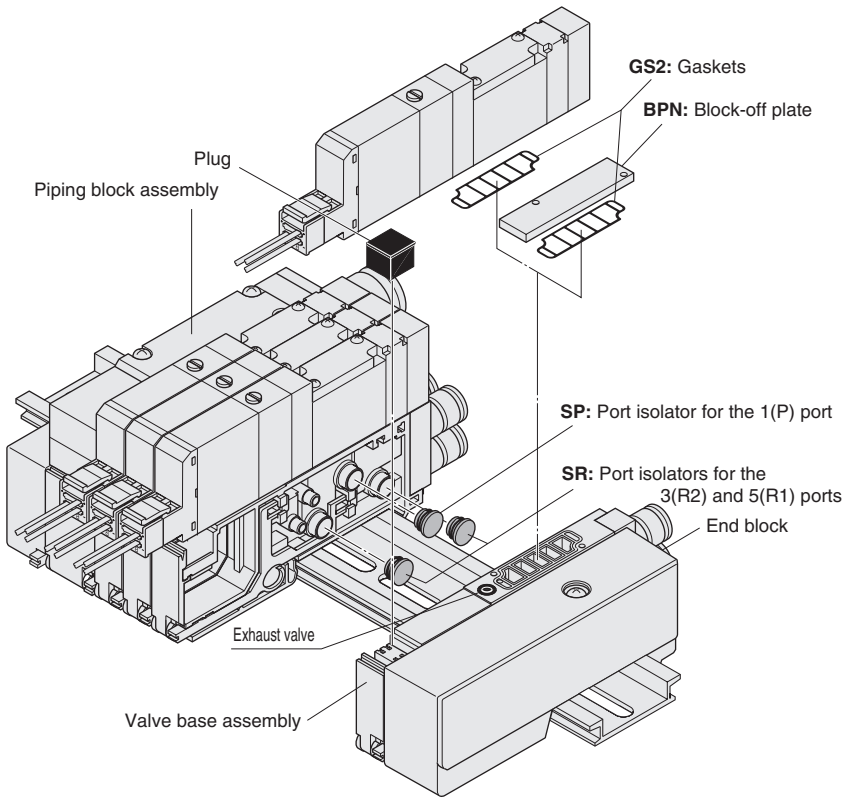
Specification
NPM : Individual air supply spacer (with M5 female thread for F10)
NP6 : Individual air supply spacer (with ϕ6 fitting for F15)
NP8 : Individual air supply spacer (with ϕ8 fitting for F15)
NRM : Individual exhaust spacer (with M5 female thread for F10)
NR6 : Individual exhaust spacer (with ϕ6 fitting for F15)
NR8 : Individual exhaust spacer (with ϕ8 fitting for F15)

※For details, see p. 25.

Muffler

KM - J□

Fitting size
6: Outer diameter ϕ6 (for individual exhaust spacer)
8: Outer diameter ϕ8 (for individual exhaust spacer)
10: Outer diameter ϕ10
(Sales unit: Set of 10 mufflers)



※Illustration shows the F10 series.

Manifold Order Code Example

(4 units of F10 Series)

F10M4NL-J5R

stn.1～2	**F10T0-A1-PS-J5 DC24V**
stn.3	**F10T2-A1-PS-J6 DC24V**
stn.4	**F10BPN-J6**

Note: This order code example has no relationship to the illustration above.

Precautions for Order Codes

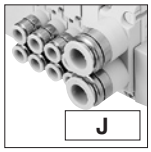
● **Orders for valves only**

Place orders from "Single Valve Unit Order Codes" on p. 44.
However, **Blank, A2□, F3, F4□, F5, F6, F4A□, F4B□, F5A, F5B, F6A,** and **F6B** cannot be selected for the valve outlet type. And for the wiring specification, **Blank, PL**, and **PL3** cannot be selected. In addition, for common terminal wiring connections, separately order the common connector assemblies listed on the previous page.

F10, F15 Series Split Manifold Plug-in Type Order Codes

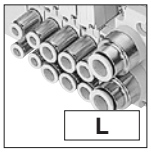
■ Manifold outlet specification

With dual use fitting blocks (base piping type)



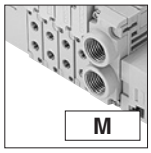
Outlet port fitting
F10: ϕ4, ϕ6
F15: ϕ6, ϕ8

With selectable fittings (base piping type)



Outlet port should be selected in accordance with the manifold fitting specification.

With female thread blocks (base piping type)



Outlet port female thread
F10: M5 × 0.8
F15: Rc1/8

With plates (direct piping type)

■ Pilot specification

Blank
Internal pilot manifold

G
External pilot manifold

■ Piping block specification (air supply and exhaust)

Fitting block
-JR : Dual use fitting, right-side mounting Note14
-JL : Dual use fitting, left-side mounting Note14
-JD : Dual use fitting, both-side mounting Note14
Fitting size (1(P), 3, 5(R) ports), ϕ8, ϕ10

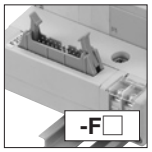
Female thread block
-MR : Female thread, right-side mounting Note14
-ML : Female thread, left-side mounting Note14
-MD : Female thread, both-side mounting Note14
Female thread size (1(P), 3, 5(R) ports), Rc1/4

Female thread block
-MRH : Female thread, right-side mounting Note15
-MLH : Female thread, left-side mounting Note15
-MDH : Female thread, both-side mounting Note15
Female thread size (1(P), 3, 5(R) ports), NPT1/4

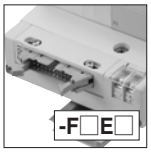
Single size fitting block
-J5R : Single size fitting, right-side mounting Note14
-J5L : Single size fitting, left-side mounting Note14
-J5D : Single size fitting, both-side mounting Note14
Fitting size (1(P), 3, 5(R) ports), ϕ8
-J6R : Single size fitting, right-side mounting Note14
-J6L : Single size fitting, left-side mounting Note14
-J6D : Single size fitting, both-side mounting Note14
Fitting size (1(P), 3, 5(R) ports), ϕ10

■ Wiring specification (wiring block)

Flat cable connector (with socket and strain relief)



<Connector top surface wiring>
-F100 : 10-pin
-F100N : 10-pin without power terminal
-F101 : 10-pin
-F101N : 10-pin without power terminal
-F200 : 20-pin
-F200N : 20-pin without power terminal
-F201 : 20-pin
-F201N : 20-pin without power terminal
-F260 : 26-pin
-F260N : 26-pin without power terminal
For details, see p. 92.



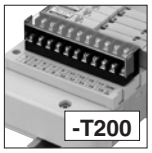
<Connector side surface wiring>
-F100E : 10-pin
-F100EN : 10-pin without power terminal
-F101E : 10-pin
-F101EN : 10-pin without power terminal
-F200E : 20-pin
-F200EN : 20-pin without power terminal
-F201E : 20-pin
-F201EN : 20-pin without power terminal
-F260E : 26-pin
-F260EN : 26-pin without power terminal

D-sub connector

<Connector top surface wiring>
(M2.6 mounting screws)
-D250 : 25-pin Note14
-D250N : 25-pin without power terminal Note14
-D251 : 25-pin Note14
-D251N : 25-pin without power terminal Note14
(4-40 UNC mounting screws)
-D250U : 25-pin Note15
-D251U : 25-pin Note15
-D370NU : 37-pin without power terminal Note15
For details, see p. 92-96.

<Connector side surface wiring>
(M2.6 mounting screws)
-D250E : 25-pin Note14
-D250EN : 25-pin without power terminal Note14
-D251E : 25-pin Note14
-D251EN : 25-pin without power terminal Note14
(4-40 UNC mounting screws)
-D250EU : 25-pin Note15
-D251EU : 25-pin Note15

Terminal block (19 terminals, M3 screws)



Also can provide the terminal block with cover. Note4

For details, see p. 92-96.

■ Wiring connection specification

Blank
Packed wiring:
Wiring is made in accordance with the mounted valve specifications.

-W
Double wiring:
Wiring is always for the double solenoid, regardless of the specifications of the mounted valve.

■ Wiring position (wiring block)

Blank : Left-side mounting
-R : Right-side mounting

■ Valve size

F10M 10 mm [0.394 in.] width

F15M 15 mm [0.591 in.] width

■ Valve size

F10 Standard type
F10L Low-current type
F15 Standard type
F15L Low-current type

Note: Valves of **F10**□ and **F15**□ cannot be mounted together.

Manifold model

Valve size	Valve units	Manifold type	Manifold outlet specification	Pilot specification	Piping block specification	Wiring specification	Wiring connection specification	Wiring position	Voltage
Base piping type	**F10M** **F15M**	**2** : □ Note1	**P**	**J** **M**	**Blank** **G**	**-JR** **-J5R** **-JL** **-J6R** **-JD** **-J5L** **-MR** **-J6L** **-ML** **-J5D** **-MD** **-J6D**	**-F100** **-F201** **-D251** **-F200E** **-D250E** **-F100N** **-F201N** **-D251N** **-F200EN** **-D250EN** **-F101** **-F260** **-F100E** **-F201E** **-D251E** **-F101N** **-F260N** **-F100EN** **-F201EN** **-D251EN** **-F200** **-D250** **-F101E** **-F260E** **-T200** **-F200N** **-D250N** **-F101EN** **-F260EN**	**Blank** **-W**	**Blank** **-R**	**DC24V** **DC12V** Note2 **AC100V** Note3 **AC120V** Note3
Base piping type selectable fitting			**L**			**-JR** Note14 **-MDH** Note15 **-JL** Note14 **-J5R** Note14 **-JD** Note14 **-J6R** Note14 **-MR** Note14 **-J5L** Note14 **-ML** Note14 **-J6L** Note14 **-MD** Note14 **-J5D** Note14 **-MRH** Note15 **-J6D** Note14 **-MLH** Note15	**-F100** **-F201N** **-D250U** Note15 **-F200E** **-D250EN** Note14 **-F100N** **-F260** **-D251U** Note15 **-F200EN** **-D251E** Note14 **-F101** **-F260N** **-D370NU** Note15 **-F201E** **-D251EN** Note14 **-F101N** **-D250** Note14 **-F100E** **-F201EN** **-D250EU** Note15 **-F200** **-D250N** Note14 **-F100EN** **-F260E** **-D251EU** Note15 **-F200N** **-D251** Note14 **-F101E** **-F260EN** **-T200** **-F201** **-D251N** Note14 **-F101EN** **-D250E** Note14			
Direct piping type			**PH**	**Blank**					

Notes: 1. For the maximum number of units, see the table for maximum number of valve units by wiring specification, on p. 66.
2. Not available in low-current type.
3. AC100V is available only for the **-D250**□, **-D251**□, **-D370NU** (D-sub connector) and **-T200** (terminal block) wiring specifications. In addition, not available in low-current type and tandem 3-port valves.
4. The terminal block with cover is also available as a made to order product (add **-139W** to the end of the manifold model order code). For details, consult us.

Remark: Negative common specifications are also available as made to order products (add **-129W** to the ends of the valve and manifold model order codes). For details, consult us.

Valve specification

T0 : 2-position, for single solenoid only
T1 : 2-position, single solenoid specification
T2 : 2-position, double solenoid specification
T3 : 3-position, closed center
T4 : 3-position, exhaust center
T5 : 3-position, pressure center
TA : Tandem 3-port (NC and NC)Note12
TB : Tandem 3-port (NO and NO)Note12
TC : Tandem 3-port (NC and NO)Note12

Operation type

Blank
Internal pilot typeNote10

G
External pilot typeNote11 (for positive pressure)
※ No vacuum valve can be mounted.

Manual override

Manual override button

Manual override leverNote8

Valve outlet type

-A1 With plateNote6 (base piping type)

5-port specification

-FJ	With dual use fitting blockNote14 (direct piping type)	**F10:** ϕ4, ϕ6 **F15:** ϕ6, ϕ8
-FJ5	With single use fitting blockNote14 (direct piping type)	**F10:** ϕ4 **F15:** ϕ6
-FJ6	With single use fitting blockNote14 (direct piping type)	**F10:** ϕ6 **F15:** ϕ8
-FM	With female thread blockNote14 (direct piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-FMH	With female thread blockNote15 (direct piping type)	**F10:** 10-32UNF **F15:** NPT1/8

3-port specification

-FJ5A	With single use fitting block, normally closed (NC)Note14 (direct piping type)	**F10:** ϕ4 **F15:** ϕ6
-FJ5B	With single use fitting block, normally open (NO)Note14 (direct piping type)	**F10:** ϕ4 **F15:** ϕ6
-FJ6A	With single use fitting block, normally closed (NC)Note14 (direct piping type)	**F10:** ϕ6 **F15:** ϕ8
-FJ6B	With single use fitting block, normally open (NO)Note14 (direct piping type)	**F10:** ϕ6 **F15:** ϕ8
-FMA	With female thread block, normally closed (NC)Note14 (direct piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-FMAH	With female thread block, normally closed (NC)Note15 (direct piping type)	**F10:** 10-32UNF **F15:** NPT1/8
-FMB	With female thread block, normally open (NO)Note14 (direct piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-FMBH	With female thread block, normally open (NO)Note15 (direct piping type)	**F10:** 10-32UNF **F15:** NPT1/8

Caution: The 3-port specifications are only available in the valve specification **T0**, **T1**, and **T2**.

Manifold fitting specification

5-port specification

-J5	With single use fitting blockNote14 (base piping type)	**F10:** ϕ4 **F15:** ϕ6
-J6	With single use fitting blockNote14 (base piping type)	**F10:** ϕ6 **F15:** ϕ8
-M	With female thread blockNote14 (base piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-MH	With female thread blockNote15 (base piping type)	**F10:** 10-32UNF **F15:** NPT1/8

3-port specification

-J5A	With single use fitting block, normally closed (NC)Note14 (base piping type)	**F10:** ϕ4 **F15:** ϕ6
-J5B	With single use fitting block, normally open (NO)Note14 (base piping type)	**F10:** ϕ4 **F15:** ϕ6
-J6A	With single use fitting block, normally closed (NC)Note14 (base piping type)	**F10:** ϕ6 **F15:** ϕ8
-J6B	With single use fitting block, normally open (NO)Note14 (base piping type)	**F10:** ϕ6 **F15:** ϕ8
-MA	With female thread block, normally closed (NC)Note14 (base piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-MAH	With female thread block, normally closed (NC)Note15 (base piping type)	**F10:** 10-32UNF **F15:** NPT1/8
-MB	With female thread block, normally open (NO)Note14 (base piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-MBH	With female thread block, normally open (NO)Note15 (base piping type)	**F10:** 10-32UNF **F15:** NPT1/8

Caution: The 3-port specifications are only available in the valve specification **T0**, **T1**, and **T2**.

Port isolator

Blank : No port isolator
-SP : For 1(P) portNote9
-SR : For 3(R2), 5(R1) portsNote9
-SA : For 1(P), 3(R2), and 5(R1) portsNote9

Back pressure prevention valve

Blank
No back pressure prevention valve

-E2
With back pressure prevention valveNote13

Individual air supply and exhaust spacer

Blank : No spacer
-PPM : Individual air supply spacer (with M5 female thread for F10)
-PP6 : Individual air supply spacer (with ϕ6 fitting for F15)
-PP8 : Individual air supply spacer (with ϕ8 fitting for F15)
-PRM : Individual exhaust spacer (with M5 female thread for F10)
-PR6 : Individual exhaust spacer (with ϕ6 fitting for F15)
-PR8 : Individual exhaust spacer (with ϕ8 fitting for F15)
For details, see p. 25.

Station	Valve size	Valve specification	Operation type	Manual override	Valve outlet type	Manifold fitting specification	Back pressure prevention valve	Individual air supply and exhaust spacer	Port isolator	Voltage
Mounting valve model										
stn. 1 . . stn.□ Note5	**F10** **F10L** **F15** **F15L**	**T0** **T1** **T2** **T3** **T4** **T5** **TA**Note12 **TB**Note12 **TC**Note12	**Blank**Note10 **G**Note11	**Blank** **-R**Note8	**-A1**Note6		**Blank** **-E2**Note13	**Blank** **-PPM** **-PRM** **-PP6** **-PR6** **-PP8** **-PR8**	**Blank** **-SP**Note9 **-SR**Note9 **-SA**Note9	**DC24V** **DC12V**Note2 **AC100V**Note3 **AC120V**Note3
	F10 **F15**	**BPP** (for block-off plate)Note7								
stn. 1 . . stn.□ Note5	**F10** **F10L** **F15** **F15L**	**T0** **T1** **T2** **T3** **T4** **T5** **TA**Note12 **TB**Note12 **TC**Note12	**Blank**Note10 **G**Note11	**Blank** **-R**Note8	**-A1**Note6	**-J5**Note14 **-J6**Note14 **-M**Note14 **-MH**Note15 **-J5A**Note14 **-J5B**Note14 **-J6A**Note14 **-J6B**Note14 **-MA**Note14 **-MAH**Note15 **-MB**Note14 **-MBH**Note15	**Blank** **-E2**Note13	**Blank** **-PPM** **-PRM** **-PP6** **-PR6** **-PP8** **-PR8**	**Blank** **-SP**Note9 **-SR**Note9 **-SA**Note9	**DC24V** **DC12V**Note2 **AC100V**Note3 **AC120V**Note3
	F10 **F15**	**BPP** (for block-off plate)Note7								
stn. 1 . . stn.□ Note5	**F10** **F10L** **F15** **F15L**	**T0** **T1** **T2** **T3** **T4** **T5** **TA**Note12 **TB**Note12 **TC**Note12	**Blank**Note10 **G**Note11	**Blank** **-R**Note8		**-FJ**Note14 **-FJ5**Note14 **-FJ6**Note14 **-FM**Note14 **-FMH**Note15 **-FJ5A**Note14 **-FJ5B**Note14 **-FJ6A**Note14 **-FJ6B**Note14 **-FMA**Note14 **-FMAH**Note15 **-FMB**Note14 **-FMBH**Note15	**Blank** **-E2**Note13	**Blank** **-PPM** **-PRM** **-PP6** **-PR6** **-PP8** **-PR8**	**Blank** **-SP**Note9 **-SR**Note9 **-SA**Note9	**DC24V** **DC12V**Note2 **AC100V**Note3 **AC120V**Note3
	F10 **F15**	**BPP** (for block-off plate)Note7								

Notes:
5. Valve mounting location is from the left, with the solenoid on top, and the 4(A), 2(B) ports side in front.
6. When selecting **J**, **M**, or **L** (base piping type) for the manifold outlet specification, always enter **-A1** (with plate) for the valve outlet type.
7. Caution should be exercised that the block-off plate wiring is always double wiring (allocated 2 control pins at 1 stn.), regardless of the wiring connection specification. For wiring for a single solenoid, see p. 67.
8. When the valve specification is **T1** or **T2**, the manual override lever is placed only on the A side.
9. Port isolators can be installed only when piping blocks are mounted on both sides. In addition, only 1 port isolator can be mounted in 1 manifold for **-SA**, or 1 each port isolator for **-SP** and **-SR** for a total of 2 locations. When shipping, the designated port isolators are mounted between the designated station and the station to its immediate left (the next smaller stn. No.).
10. Cannot be mounted on the external pilot manifold.
11. Cannot be mounted on the internal pilot manifold.
12. Not available in external pilot type.
13. Not available with the individual exhaust spacer.
14. Can be selected only when the manifold type is **P**.
15. Can be selected only when the manifold type is **PH**.

Parts for manifold

F □ Z - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Parts content
GS2 : Gasket (gasket and exhaust valve)
SP : Port isolator (for 1(P) port)
SR : Port isolator (for 3(R2), 5(R1) ports)
SA : Port isolator (for 1(P), 3(R2), 5(R1) ports)

Block-off plate (block-off plate, 2 mounting screws, and plug)

F □ BP P

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

For plug-in type

Valve base assembly (valve base, gasket, lead wire, and plug-in connector)

F □ Z □ - □ - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Pilot specification
Blank : Internal pilot
G : External pilot

Piping specification
VJ : Dual use fitting valve base
VJ5 : Single use fitting valve base F10: ϕ4, F15: ϕ6
VJ6 : Single use fitting valve base F10: ϕ6, F15: ϕ8
VJ5A : 3-port specification normally closed, single use fitting valve base F10: ϕ4, F15: ϕ6
VJ5B : 3-port specification normally open, single use fitting valve base F10: ϕ4, F15: ϕ6
VJ6A : 3-port specification normally closed, single use fitting valve base F10: ϕ6, F15: ϕ8
VJ6B : 3-port specification normally open, single use fitting valve base F10: ϕ6, F15: ϕ8
VM : Female thread valve base F10: M5 × 0.8, F15: Rc1/8
VMA : 3-port specification normally closed, female thread valve base F10: M5 × 0.8, F15: Rc1/8
VMB : 3-port specification normally open, female thread valve base F10: M5 × 0.8, F15: Rc1/8
VMH : Female thread valve base F10: 10-32UNF, F15: NPT1/8
VMAH : 3-port specification normally closed, female thread valve base F10: 10-32UNF, F15: NPT1/8
VMBH : 3-port specification normally open, female thread valve base F10: 10-32UNF, F15: NPT1/8
VP : Valve base plate

Wiring specification
D : For D-sub connector
F : For flat cable connector, terminal block

Piping block assembly

F □ Z □ - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Pilot specification
Blank : Internal pilot
G : External pilot

Piping specification
PJ : Dual use fitting piping block
PJ5 : Single use fitting piping block ϕ8
PJ6 : Single use fitting piping block ϕ10
PM : Female thread piping block Rc1/4
PMH : Female thread piping block NPT1/4

End blocks (one set of left and right)

F □ Z □ - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Pilot specification
Blank : Internal pilot
G : External pilot

End block specification
E : For wiring specification T200
EL : For wiring block left side
ER : For wiring block right side

Wiring block assembly (one set)

F □ Z - □ - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Piping specification
F100 : Flat cable connector (DC specification)
F101 : Flat cable connector (DC specification)
F200 : Flat cable connector (DC specification)
F201 : Flat cable connector (DC specification)
F260 : Flat cable connector (DC specification)
D250 : D-sub connector (M2.6 screws)
D251 : D-sub connector (M2.6 screws)
D250U : D-sub connector (4-40UNC screws)
D251U : D-sub connector (4-40UNC screws)
F100N : Flat cable connector (DC specification), without power terminal
F101N : Flat cable connector (DC specification), without power terminal
F200N : Flat cable connector (DC specification), without power terminal
F201N : Flat cable connector (DC specification), without power terminal
F260N : Flat cable connector (DC specification), without power terminal
D250N : D-sub connector, without power terminal
D251N : D-sub connector, without power terminal
D370NU : D-sub connector (4-40UNC screws), without power terminal
T200L : Terminal block for left-side mounting
T200R : Terminal block for right-side mounting

Voltage (Not required for T200□)
DC24
DC12
AC100 (for **D250□, D251□, D370NU** only)

Back pressure prevention valve
(2 pieces for split type, with dedicated gasket)

F □ Z - E2

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Individual air supply and exhaust spacer (Spacer for plug-in type, gasket, exhaust valve, and 2 mounting screws)

F □ Z - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Specification
PPM : Individual air supply spacer (with M5 female thread for F10)
PP6 : Individual air supply spacer (with ϕ6 fitting for F15)
PP8 : Individual air supply spacer (with ϕ8 fitting for F15)
PRM : Individual exhaust spacer (with M5 female thread for F10)
PR6 : Individual exhaust spacer (with ϕ6 fitting for F15)
PR8 : Individual exhaust spacer (with ϕ8 fitting for F15)

※For details, see p. 25.

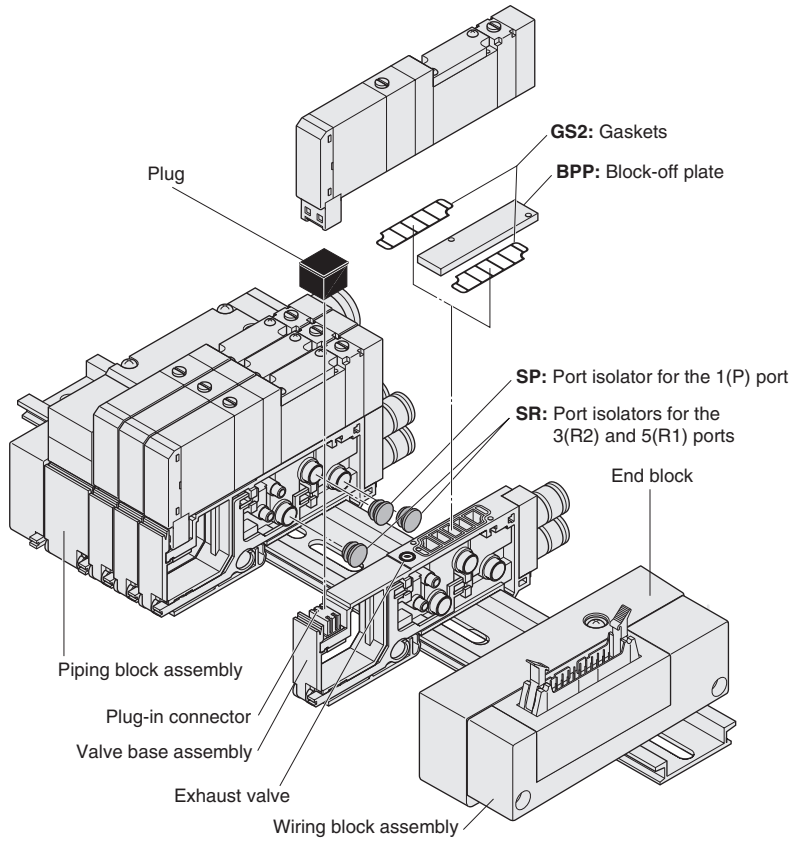
Muffler

KM - J □

Fitting size
6: Outer diameter ϕ6 (for individual exhaust spacer)
8: Outer diameter ϕ8 (for individual exhaust spacer)
10: Outer diameter ϕ10
(Sales unit: Set of 10 mufflers)

■ Table for maximum number of valve units by wiring specification

Wiring specification	Max. outputs	Maximum number of units: Wiring connection specification: Packed wiring (**Blank**)	Maximum number of units: Wiring connection specification: Double wiring (**-W**)
F100 □ Flat cable (10P)	8	Varies depending on the number of mounted single solenoids, double solenoids, and block-off plates. The number of controlled solenoids should be designated as the maximum number of outputs or less. **D370NU** is a maximum of 20 units.	4 units
F101 □ Flat cable (10P)	8		4 units
F200 □ Flat cable (20P)	16		8 units
F201 □ Flat cable (20P)	16		8 units
F260 □ Flat cable (26P)	20		10 units
D250 □ D-sub connector (25P)	16		8 units
D251 □ D-sub connector (25P)	20		10 units
D370NU D-sub connector (37P)	32		16 units
T200 Terminal block (19 terminals)	18		9 units



※Illustration shows the F10 series.

Manifold Order Code Example

(12 units of F10 Series)

F10M12PL-J5R-F201 DC24V

stn.1～8 F10T0-A1-J5 DC24V
stn.9～11 F10T2-A1-J6 DC24V
stn.12 F10BPP-J6

Note: This order code example has no relationship to the illustration above.

Precautions for Order Codes

● **Orders for valves only**
Place orders from "Single Valve Unit Order Codes" on p. 44.
However, **Blank, A2□, F3, F4□, F5, F6, F4A□, F4B□, F5A, F5B, F6A,** and **F6B** cannot be selected for the valve outlet type. For the wiring specification, **Blank** is the only selection.

● **Wiring connection specification**
Blank (packed wiring): Wiring is made in accordance with the mounted valve specifications.
-W (double wiring): Wiring is always for the double solenoid, regardless of the specifications of the mounted valve.

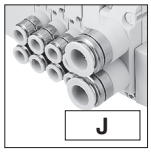
Caution

Caution should be exercised that the block-off plate wiring is always double wiring (allocated 2 control pins at 1 stn.), regardless of the wiring connection specification.
The block-off plate wiring can be made as wiring for a single solenoid. Add **-1W** to the end of the block-off plate order code in the case.
For details, consult us.

F10, F15 Series Serial Transmission Compatible Manifold Order Codes

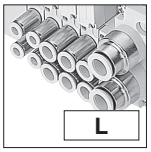
■ Manifold outlet specification

With dual use fitting blocks (base piping type)



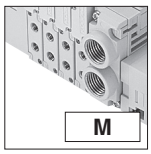
Outlet port fitting
F10: ϕ4, ϕ6
F15: ϕ6, ϕ8

With selectable fittings (base piping type)



Outlet port should be selected in accordance with the manifold fitting specification.

With female thread blocks (base piping type)



Outlet port female thread
F10: M5 × 0.8
F15: Rc1/8

With plates (direct piping type)

■ Pilot specification

Blank
Internal pilot manifold

G
External pilot manifold

■ Piping block specification (air supply and exhaust)

Fitting block
-JR : Dual use fitting, right-side mounting Note13
-JL : Dual use fitting, left-side mounting Note13
-JD : Dual use fitting, both-side mounting Note13
Fitting size (1(P), 3, 5(R) ports), ϕ8, ϕ10

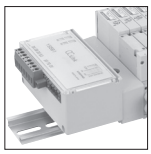
Female thread block
-MR : Female thread, right-side mounting Note13
-ML : Female thread, left-side mounting Note13
-MD : Female thread, both-side mounting Note13
Female thread size (1(P), 3, 5(R) ports), Rc1/4

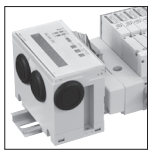
Female thread block
-MRH : Female thread, right-side mounting Note14
-MLH : Female thread, left-side mounting Note14
-MDH : Female thread, both-side mounting Note14
Female thread size (1(P), 3, 5(R) ports), NPT1/4

Single use fitting block
-J5R : Single use fitting, right-side mounting Note13
-J5L : Single use fitting, left-side mounting Note13
-J5D : Single use fitting, both-side mounting Note13
Fitting size (1(P), 3, 5(R) ports), ϕ8
-J6R : Single use fitting, right-side mounting Note13
-J6L : Single use fitting, left-side mounting Note13
-J6D : Single use fitting, both-side mounting Note13
Fitting size (1(P), 3, 5(R) ports), ϕ10

■ Transmission block specification

※ These are the serial transmission block specifications compatible with each system.





● Block on the right photo is the case of B7A Link Terminal.
For details, see p. 37-39.

Integrated type
-A1 : For OMRON CompoBus/S (16 outputs)
-B1 : For CC-Link (16 outputs) Note2
-B3 : For CC-Link (32 outputs) Note2
-D1 : For DeviceNet (16 outputs)
-D3 : For DeviceNet (32 outputs)
-H1 : For CompoNet (16 outputs)
-K1 : For EtherCAT (16 outputs)
-K3 : For EtherCAT (32 outputs)
-M1 : For EtherNet/IP (16 outputs) Note2
-M3 : For EtherNet/IP (32 outputs) Note2

Stand-alone type
-31 : For OMRON B7A Link Terminal (standard)
-32 : For OMRON B7A Link Terminal (high speed)

■ Wiring connection specification

Blank
Packed wiring: Wiring is made in accordance with the mounted valve specifications.

-W
Double wiring: Wiring is always for the double solenoid, regardless of the specifications of the mounted valve.

■ Wiring position (transmission block)

Blank : Left-side mounting
-R : Right-side mounting

■ Valve size

F10 Standard type
F10L Low-current type
F15 Standard type
F15L Low-current type

Note: Valves of **F10**□ and **F15**□ cannot be mounted together.

■ Valve size

F10M 10 mm [0.394 in.] width
F15M 15 mm [0.591 in.] width

Valve size	Valve units	Manifold type	Manifold outlet specification	Pilot specification	Piping block specification	Transmission block specification	Wiring connection specification	Wiring position
Manifold model								
Base piping type	F10M F15M Note3	2 : □ Note1	S	J M	Blank G	-JR -J5R -JL -J6R -JD -J5L -MR -J6L -ML -J5D -MD -J6D	-31 -D1 -M1 Note2 -32 -D3 -M3 Note2 -A1 -H1 -B1 Note2 -K1 -B3 Note2 -K3	Blank -W	Blank -R
Base piping type selectable fitting	F10M F15M Note3	2 : □ Note1	S SH	L	Blank G	-JR Note13 -MDH Note14 -JL Note13 -J5R Note13 -JD Note13 -J6R Note13 -MR Note13 -J5L Note13 -ML Note13 -J6L Note13 -MD Note13 -J5D Note13 -MRH Note14 -J6D Note13 -MLH Note14	-31 -D1 -M1 Note2 -32 -D3 -M3 Note2 -A1 -H1 -B1 Note2 -K1 -B3 Note2 -K3	Blank -W	Blank -R
Direct piping type	F10M F15M Note3	2 : □ Note1	S SH	Blank	Blank G	-JR Note13 -MDH Note14 -JL Note13 -J5R Note13 -JD Note13 -J6R Note13 -MR Note13 -J5L Note13 -ML Note13 -J6L Note13 -MD Note13 -J5D Note13 -MRH Note14 -J6D Note13 -MLH Note14	-31 -D1 -M1 Note2 -32 -D3 -M3 Note2 -A1 -H1 -B1 Note2 -K1 -B3 Note2 -K3	Blank -W	Blank -R

Notes: 1. To determine the maximum number of units, see the table for maximum number of valve units by transmission block specification, on p. 70.
Notes: 2. CE marking compliant.
Notes: 3. Contact our nearest sales office for information about the F18 series.

Valve specification

T0 : 2-position, for single solenoid only
T1 : 2-position, single solenoid specification
T2 : 2-position, double solenoid specification
T3 : 3-position, closed center
T4 : 3-position, exhaust center
T5 : 3-position, pressure center
TA : Tandem 3-port (NC and NC)Note11
TB : Tandem 3-port (NO and NO)Note11
TC : Tandem 3-port (NC and NO)Note11

Operation type

Blank
Internal pilot typeNote9

G
External pilot typeNote10
(for positive pressure)
※ No vacuum valve can be mounted.

Manual override

Manual override button

Manual override leverNote7

Valve outlet type

-A1 With plateNote5 (base piping type)

5-port specification

-FJ	With dual use fitting blockNote13 (direct piping type)	**F10:** ϕ4, ϕ6 **F15:** ϕ6, ϕ8
-FJ5	With single use fitting blockNote13 (direct piping type)	**F10:** ϕ4 **F15:** ϕ6
-FJ6	With single use fitting blockNote13 (direct piping type)	**F10:** ϕ6 **F15:** ϕ8
-FM	With female thread blockNote13 (direct piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-FMH	With female thread blockNote14 (direct piping type)	**F10:** 10-32UNF **F15:** NPT1/8

3-port specification

-FJ5A	With single use fitting block, normally closed (NC)Note13 (direct piping type)	**F10:** ϕ4 **F15:** ϕ6
-FJ5B	With single use fitting block, normally open (NO)Note13 (direct piping type)	**F10:** ϕ4 **F15:** ϕ6
-FJ6A	With single use fitting block, normally closed (NC)Note13 (direct piping type)	**F10:** ϕ6 **F15:** ϕ8
-FJ6B	With single use fitting block, normally open (NO)Note13 (direct piping type)	**F10:** ϕ6 **F15:** ϕ8
-FMA	With female thread block, normally closed (NC)Note13 (direct piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-FMAH	With female thread block, normally closed (NC)Note14 (direct piping type)	**F10:** 10-32UNF **F15:** NPT1/8
-FMB	With female thread block, normally open (NO)Note13 (direct piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-FMBH	With female thread block, normally open (NO)Note14 (direct piping type)	**F10:** 10-32UNF **F15:** NPT1/8

Caution: The 3-port specifications are only available in the valve specification **T0**, **T1**, and **T2**.

Manifold fitting specification

5-port specification

-J5	With single use fitting blockNote13 (base piping type)	**F10:** ϕ4 **F15:** ϕ6
-J6	With single use fitting blockNote13 (base piping type)	**F10:** ϕ6 **F15:** ϕ8
-M	With female thread blockNote13 (base piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-MH	With female thread blockNote14 (base piping type)	**F10:** 10-32UNF **F15:** NPT1/8

3-port specification

-J5A	With single use fitting block, normally closed (NC)Note13 (base piping type)	**F10:** ϕ4 **F15:** ϕ6
-J5B	With single use fitting block, normally open (NO)Note13 (base piping type)	**F10:** ϕ4 **F15:** ϕ6
-J6A	With single use fitting block, normally closed (NC)Note13 (base piping type)	**F10:** ϕ6 **F15:** ϕ8
-J6B	With single use fitting block, normally open (NO)Note13 (base piping type)	**F10:** ϕ6 **F15:** ϕ8
-MA	With female thread block, normally closed (NC)Note13 (base piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-MAH	With female thread block, normally closed (NC)Note14 (base piping type)	**F10:** 10-32UNF **F15:** NPT1/8
-MB	With female thread block, normally open (NO)Note13 (base piping type)	**F10:** M5×0.8 **F15:** Rc1/8
-MBH	With female thread block, normally open (NO)Note14 (base piping type)	**F10:** 10-32UNF **F15:** NPT1/8

Caution: The 3-port specifications are only available in the valve specification **T0**, **T1**, and **T2**.

Port isolator

Blank : No port isolator
-SP : For 1(P) portNote8
-SR : For 3(R2), 5(R1) portsNote8
-SA : For 1(P), 3(R2), and 5(R1) portsNote8

Back pressure prevention valve

Blank
No back pressure prevention valve

-E2
With back pressure prevention valveNote12

Individual air supply and exhaust spacer

Blank : No spacer
-PPM : Individual air supply spacer (with M5 female thread for F10)
-PP6 : Individual air supply spacer (with ϕ6 fitting for F15)
-PP8 : Individual air supply spacer (with ϕ8 fitting for F15)
-PRM : Individual exhaust spacer (with M5 female thread for F10)
-PR6 : Individual exhaust spacer (with ϕ6 fitting for F15)
-PR8 : Individual exhaust spacer (with ϕ8 fitting for F15)
For details, see p. 25.

Station	Valve size	Valve specification	Operation type	Manual override	Valve outlet type	Manifold fitting specification	Back pressure prevention valve	Individual air supply and exhaust spacer	Port isolator	Voltage
Mounting valve model										
stn. 1 : : **stn.□** Note4	**F10** **F10L** **F15** **F15L**	**T0** **T3** **TA**Note11 **T1** **T4** **TB**Note11 **T2** **T5** **TC**Note11	**Blank**Note9 **G**Note10	**Blank** **-R**Note7	**-A1**Note5		**Blank** **-E2**Note12	**Blank** **-PPM** **-PRM** **-PP6** **-PR6** **-PP8** **-PR8**	**Blank** **-SP**Note8 **-SR**Note8 **-SA**Note8	**DC24V**
	F10 **F15**	**BPP** (for block-off plate)Note6								
stn. 1 : : **stn.□** Note4	**F10** **F10L** **F15** **F15L**	**T0** **T3** **TA**Note11 **T1** **T4** **TB**Note11 **T2** **T5** **TC**Note11	**Blank**Note9 **G**Note10	**Blank** **-R**Note7	**-A1**Note5	**-J5**Note13 **-J6A**Note13 **-J6**Note13 **-J6B**Note13 **-M**Note13 **-MA**Note13 **-MH**Note14 **-MAH**Note14 **-J5A**Note13 **-MB**Note13 **-J5B**Note13 **-MBH**Note14	**Blank** **-E2**Note12	**Blank** **-PPM** **-PRM** **-PP6** **-PR6** **-PP8** **-PR8**	**Blank** **-SP**Note8 **-SR**Note8 **-SA**Note8	**DC24V**
	F10 **F15**	**BPP** (for block-off plate)Note6								
stn. 1 : : **stn.□** Note4	**F10** **F10L** **F15** **F15L**	**T0** **T3** **TA**Note11 **T1** **T4** **TB**Note11 **T2** **T5** **TC**Note11	**Blank**Note9 **G**Note10	**Blank** **-R**Note7	**-FJ**Note13 **-FJ6A**Note13 **-FJ5**Note13 **-FJ6B**Note13 **-FJ6**Note13 **-FMA**Note13 **-FM**Note13 **-FMAH**Note14 **-FMH**Note14 **-FMB**Note13 **-FJ5A**Note13 **-FMBH**Note14 **-FJ5B**Note13		**Blank** **-E2**Note12	**Blank** **-PPM** **-PRM** **-PP6** **-PR6** **-PP8** **-PR8**	**Blank** **-SP**Note8 **-SR**Note8 **-SA**Note	**DC24V**
	F10 **F15**	**BPP** (for block-off plate)Note6								

Notes: 4. Valve mounting location is from the left, with the solenoid on top, and the 4(A), 2(B) ports side in front.
5. When selecting **J**, **M**, or **L** (base piping type) for the manifold outlet specifications, always enter **-A1** (with plate) for the valve outlet type.
6. The wiring on the block off plate uses double wiring (2 control points allocated) regardless of the wiring specifications. However, we can provide block off plates with a -1W suffix on the model number for the block off plate wired for connecting single solenoids.
7. When the valve specification is **T1** or **T2**, the manual override lever is placed only on the A side.
8. Port isolators can be installed only when piping blocks are mounted on both sides. In addition, only 1 port isolator can be mounted in 1 manifold for **-SA**, or 1 each port isolator for **-SP** and **-SR** for a total of 2 locations. When shipping, the designated port isolators are mounted between the designated station and the station to its immediate left (the next smaller stn. No.).
9. Cannot be mounted on the external pilot manifold.
10. Cannot be mounted on the internal pilot manifold.
11. Not available in external pilot type.
12. Not available with the individual exhaust spacer.
13. Can be selected only when the manifold type is **S**.
14. Can be selected only when the manifold type is **SH**.

Parts for manifold

F□Z - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Parts content
GS2 : Gasket (gasket and exhaust valve)
SP : Port isolator (for 1(P) port)
SR : Port isolator (for 3(R2), 5(R1) ports)
SA : Port isolator (for 1(P), 3(R2), 5(R1) ports)

Block-off plate (block-off plate, 2 mounting screws, and plug)

F□BPP

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Valve base assembly

(valve base, gasket, lead wire, and plug-in connector)

F□Z□ - □ - F

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Pilot specification
Blank : Internal pilot
G : External pilot

Piping specification
VJ : Dual use fitting valve base
VJ5 : Single use fitting valve base F10: ϕ4, F15: ϕ6
VJ6 : Single use fitting valve base F10: ϕ6, F15: ϕ8
VJ5A : 3-port specification normally closed, single use fitting valve base F10: ϕ4, F15: ϕ6
VJ5B : 3-port specification normally open, single use fitting valve base F10: ϕ4, F15: ϕ6
VJ6A : 3-port specification normally closed, single use fitting valve base F10: ϕ6, F15: ϕ8
VJ6B : 3-port specification normally open, single use fitting valve base F10: ϕ6, F15: ϕ8
VM : Female thread valve base F10: M5×0.8, F15: Rc1/8
VMA : 3-port specification normally closed, female thread valve base F10: M5×0.8, F15: Rc1/8
VMB : 3-port specification normally open, female thread valve base F10: M5×0.8, F15: Rc1/8
VMH : Female thread valve base F10: 10-32UNF, F15: NPT1/8
VMAH : 3-port specification normally closed, female thread valve base F10: 10-32UNF, F15: NPT1/8
VMBH : 3-port specification normally open, female thread valve base F10: 10-32UNF, F15: NPT1/8
VP : Valve base plate

Piping block assembly

F□Z□ - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Pilot specification
Blank : Internal pilot
G : External pilot

Piping specification
PJ : Dual use fitting piping block
PJ5 : Single use fitting piping block ϕ8
PJ6 : Single use fitting piping block ϕ10
PM : Female thread piping block Rc1/4
PMH : Female thread piping block NPT1/4

End blocks (one set of left and right)

F□Z□ - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Pilot specification
Blank : Internal pilot
G : External pilot

End block specification
EL : For left side
ER : For right side

Wiring block assembly ※

F□Z - F201N - DC24

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

※ Use this when the transmission block specification is **-31**, or **-32.**

Back pressure prevention valve

(2 units for split type, with dedicated gasket)

F□Z - E2

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Individual air supply and exhaust spacer (Spacer for plug-in type, gasket, exhaust valve, and 2 mounting screws)

F□Z - □

Valve size
10: 10 mm [0.394 in.] width
15: 15 mm [0.591 in.] width

Specification
PPM : Individual air supply spacer (with M5 female thread for F10)
PP6 : Individual air supply spacer (with ϕ6 fitting for F15)
PP8 : Individual air supply spacer (with ϕ8 fitting for F15)
PRM : Individual exhaust spacer (with M5 female thread for F10)
PR6 : Individual exhaust spacer (with ϕ6 fitting for F15)
PR8 : Individual exhaust spacer (with ϕ8 fitting for F15)

※ For details, see p. 25.

Serial transmission block (single unit)

YS2□□

Transmission block specification
31: For OMRON B7A Link Terminal (standard)
32: For OMRON B7A Link Terminal (high speed)

Wiring position
L : For stand-alone type, left-side mounting ※
R : For stand-alone type, right-side mounting ※
※ DIN rail included (length 75 mm [2.95 in.])

Dedicated for manifold mounting

YS6□

Transmission block specification
A1 : For OMRON CompoBus/S (16 outputs)
B1 : For CC-Link (16 outputs)
B3 : For CC-Link (32 outputs)
D1 : For DeviceNet (16 outputs)
D3 : For DeviceNet (32 outputs)
H1 : For CompoNet (16 outputs)

YS7□□

Transmission block specification
K1 : For EtherCAT (16 outputs)
K3 : For EtherCAT (32 outputs)
M1 : For EtherNet/IP (16 outputs)
M3 : For EtherNet/IP (32 outputs)

Wiring position
L : Left-side mounting
R : Right-side mounting

Muffler

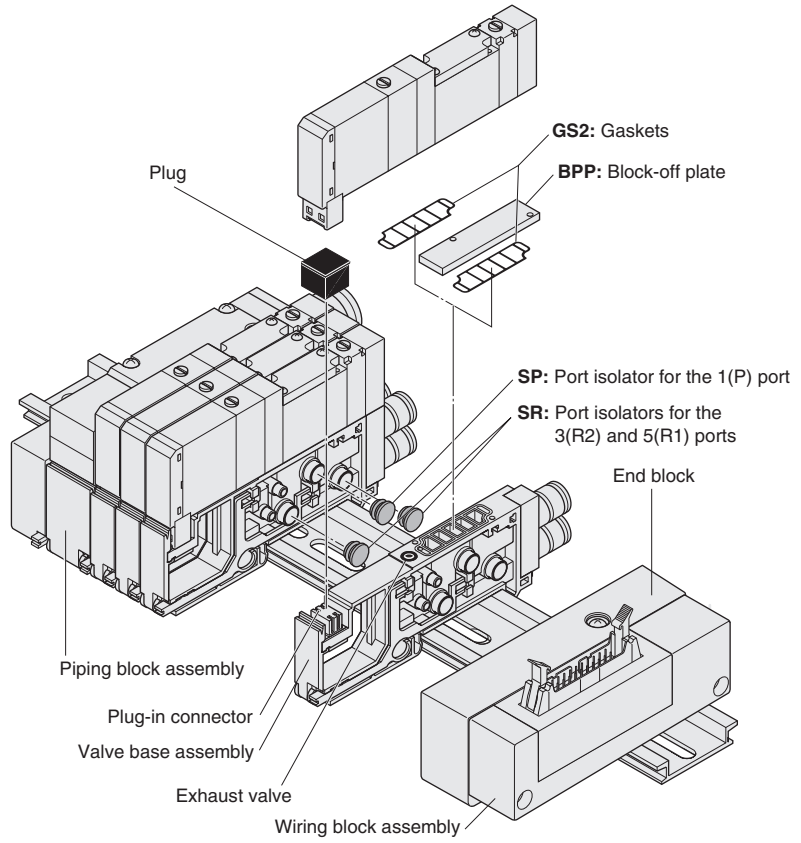
KM - J□

Fitting size
6: Outer diameter ϕ6 (for individual exhaust spacer)
8: Outer diameter ϕ8 (for individual exhaust spacer)
10: Outer diameter ϕ10

(Sales unit: Set of 10 mufflers)

■ Table for maximum number of valve units by transmission block specification

Transmission block specifications	Max. outputs	Maximum number of units: Wiring connection specification: Packed wiring (**Blank**)	Maximum number of units: Wiring connection specification: Double wiring (**-W**)
-31 : For OMRON B7A Link Terminal (standard)	16	Varies depending on the number of mounted single solenoids, double solenoids, and block-off plates. The number of controlled solenoids should be designated as the maximum number of outputs or less. **-B3, -D3, and -K3 -M3** are a maximum of 20 units.	8 units
-32 : For OMRON B7A Link Terminal (high speed)	16		8 units
-A1 : For OMRON CompoBus/S (16 outputs)	16		8 units
-B1 : For CC-Link (16 outputs)	16		8 units
-B3 : For CC-Link (32 outputs)	32		16 units
-D1 : For DeviceNet (16 outputs)	16		8 units
-D3 : For DeviceNet (32 outputs)	32		16 units
-H1 : For CompoNet (16 outputs)	16		8 units
-K1 : For EtherCAT (16 outputs)	16		8 units
-K3 : For EtherCAT (32 outputs)	32		16 units
-M1 : For EtherNet/IP (16 outputs)	16		8 units
-M3 : For EtherNet/IP (32 outputs)	32		16 units



※Illustration shows the F10 series.

Manifold Order Code Example

(8 units of F10 Series)

F10M8SL-J5R-B1-W

stn.1～5	**F10T0-A1-J5 DC24V**
stn.6～7	**F10T2-A1-J6 DC24V**
stn.8	**F10BPP-J6**

Note: This order code example has no relationship to the illustration above.

Precautions for Order Codes

● **Orders for valves only**
Place orders from "Single Valve Unit Order Codes" on p. 44.
However, **Blank, A2□, F3, F4□, F5, F6, F4A□, F4B□, F5A, F5B, F6A,** and **F6B** cannot be selected for the valve outlet type. For the wiring specification, **Blank** is the only selection.

● **Wiring connection specification**
Blank (packed wiring): Wiring is made in accordance with the mounted valve specifications.
-W (double wiring): Wiring is always for the double solenoid, regardless of the specifications of the mounted valve.

Caution

Caution should be exercised that the block-off plate wiring is always double wiring (allocated 2 control pins at 1 stn.), regardless of the wiring connection specification.
The block-off plate wiring can be made as wiring for a single solenoid. Add **-1W** to the end of the block-off plate order code in the case.
For details, consult us.