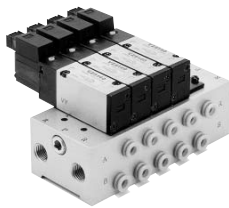
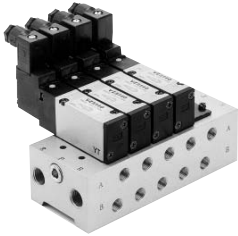


Series VZ5000/Base Mounted Manifold Specifications

Manifold Standard



Manifold Specifications

Model		Type 40	Type 41	Type 42
Manifold type		Single base/B mount		
P(SUP), R(EXH)		Common SUP and EXH		
Valve stations		2 to 20		
4(A), 2(B) port porting specifications	Position	Base	Base	
	Direction	Bottom	Side	
Port size	1(P), 3/5(R) port	Rc 1/4		
	4(A), 2(B) port	Rc 1/8		O1 (Rc 1/8) C6 (One-touch fitting for ø6) C8 (One-touch fitting for ø8) B7 (One-touch fitting for 1/4") C9 (One-touch fitting for 5/16")

Flow Characteristics

Manifold	Port size	Flow characteristics							
		1(P), 5/3(R) port	2(B), 4(A) port	1 → 4/2 (P → A/B)		4/2 → 5/3 (A/B → R)			
		C [dm ³ /(s·bar)]	b	Cv	C [dm ³ /(s·bar)]	b	Cv		
VV5Z5-40	VZ5□4□	1/4	1/8	2.1	0.28	0.51	2.5	0.23	0.59
VV5Z5-41		1/4	1/8	2.0	0.30	0.50	2.2	0.30	0.55
VV5Z5-42-C6		1/4	C6	1.5	0.32	0.38	2.2	0.23	0.52
VV5Z5-42-C8		1/4	C8	1.9	0.24	0.46	2.2	0.26	0.53

Note) Value at manifold base mounted, 2 position single operating

How to Order Manifold

Instruct by specifying the valves and blanking plate assembly to be mounted on the manifold along with the manifold base model no.

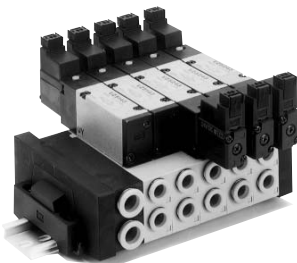
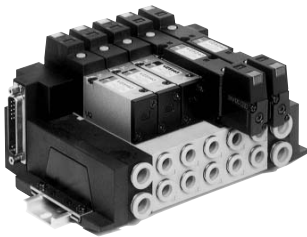
(Example) VV5Z5-41-031-01.....1 pc. (Manifold base)

*VZ5140-5G.....2 pcs. (Valve)

*DXT199-22-1A.....1 pc. (Blanking plate assembly)

↳The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

DIN Rail Manifold



Manifold Specifications

Model		Type 45	Type 45F
Manifold type		Stacking type non plug-in type	Stacking type plug-in type
P(SUP), R(EXH)		Common SUP and EXH	
Valve stations		2 to 20	
4(A), 2(B) port porting specifications	Position	Base	
	Direction	Side	
Port size	1(P), 3/5(R) port	C10 (One-touch fitting for ø10)	
	4(A), 2(B) port	C6 (One-touch fitting for ø6) C8 (One-touch fitting for ø8)	
Connector	—	MIL-C-24308 Applicable for D-sub connector JIS-X-5101	
Internal wiring	—	COM ^{Note)}	

Note) It is available at +COM or -COM.

Flow Characteristics

Manifold	Port size	Flow characteristics							
		1(P), 5/3(R) port	2(B), 4(A) port	1 → 4/2 (P → A/B)		4/2 → 5/3 (A/B → R)			
		C [dm ³ /(s·bar)]	b	Cv	C [dm ³ /(s·bar)]	b	Cv		
VV5Z5-45	VZ5□4□	C10	C6	1.5	0.31	0.38	2.2	0.17	0.52
		C10	C8	2.1	0.26	0.51	2.2	0.15	0.52

Note) Value at manifold base mounted, 2 position single operating

How to Order Manifold

Instruct by specifying the valves and blanking plate assembly to be mounted on the manifold along with the manifold base model no.

(Example) VV5Z5-45FD-06-C8C.....1 pc. (Manifold base)

*VZ5143-5FZ.....2 pcs. (Valve)

*VZ5243-5FZ.....3 pcs. (Valve)

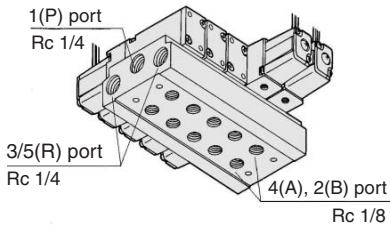
*VZ5000-65-1A.....1 pc. (Blanking plate assembly)

↳The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

5 Port Solenoid Valve Base Mounted Series VZ5000

Common SUP/Common EXH

Type 40



How to Order

VV5Z5 - 40 - 05 2 - 01

Stations	4(A), 2(B) Port size	P, R port thread type	
02 2 stations	01 Rc 1/8	Nil	Rc
⋮	⋮	F	G
20 20 stations		N	NPT
		T	NPTF

Note) For more than 10 stations, supply air to both sides of 1(P) port and exhaust air from both sides of 3 and 5(R) port.

Applicable solenoid valve

VZ5□4□-□□□□
G
D

Applicable blanking plate assembly
DXT199-22-1A

Applicable individual EXH spacer assembly
DXT199-29-2A

Applicable individual SUP spacer assembly
DXT199-35-1A

Applicable interface regulator
ARBZ5000-00-P

VK

VZ

VF

VFR

VP4

VZS

VFS

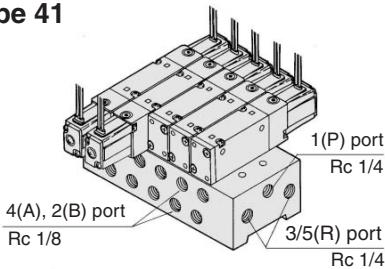
VS4

VQ7

EVS

VFN

Type 41



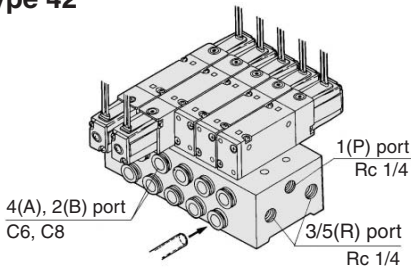
How to Order

VV5Z5 - 41 - 05 1 - 01

Stations	4(A), 2(B) Port size	P, R port thread type	
02 2 stations	01 Rc 1/8	Nil	Rc
⋮	⋮	F	G
20 20 stations		N	NPT
		T	NPTF

Note) For more than 8 stations, supply air to both sides of P port and exhaust air from both sides of R port.

Type 42



How to Order

VV5Z5 - 42 - 05 1 - C6

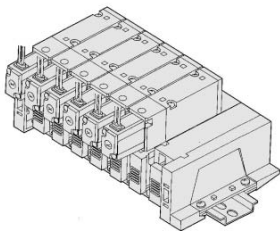
Stations	A, B port size	P, R port thread type	
02 2 stations	C6 One-touch fitting for ø6	Nil	Rc
⋮	C8 One-touch fitting for ø8	F	G
20 20 stations	B7 One-touch fitting for 1/4"	N	NPT
	B9 One-touch fitting for 5/16"	T	NPTF

Note) For more than 8 stations, supply air to both sides of 1(P) port and exhaust air from both sides of 3 and 5(R) port.

DIN Rail Manifold

Common SUP/Common EXH

Type 45 (Non plug-in type)



How to Order

VV5Z5 - 45 - 05 D - C8 C

Stations	02 2 stations	⋮	20 20 stations
----------	---------------	---	----------------

SUP/EXH block mounting position

Symbol	Position	Applicable stations
U	U side	2 to 10 stations
D	D side	2 to 10 stations
B	Both sides	2 to 20 stations
M*	Special specifications	Special specifications

* For special specifications, indicate separately by the manifold specification sheet.

4 (A), 2 (B) port size

C6	One-touch fitting for ø6
C8	One-touch fitting for ø8
M*	Mixed

* In the case of mixed specifications (M), indicate separately on the manifold specification sheet.

Applicable solenoid valve

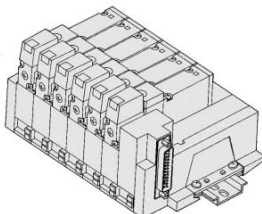
VZ5□4□-□□□□
G
D

Applicable blanking plate assembly
VZ5000-65-2A

DIN rail length specified

Nil	Standard length	
3	For 3 stations	(Specify a longer rail than the standard length.)
⋮	⋮	⋮
20	For 20 stations	

Type 45F (Plug-in type)



How to Order

VV5Z5 - 45F D - 05 C8 C

Connector mounting direction

Symbol	Mounting direction	Applicable stations
U	U side	2 to 10 stations
D	D side	
B	Both sides	

Stations	02 2 stations	⋮	20 20 stations
----------	---------------	---	----------------

SUP/EXH block mounting position

Nil	For 2 to 10 stations : One side (Same as direction of connector mount)
B	For 2 to 10 stations: Both sides
M*	Special specifications

* For special specifications, indicate separately by the manifold specification sheet.

4(A), 2(B) port size

C6	One-touch fitting for ø6
C8	One-touch fitting for ø8
M*	Mixed

* In the case of mixed specifications (M), indicate separately on the manifold specification sheet.

Applicable solenoid valve

VZ5□43-□F□□

Applicable blanking plate assembly
VZ5000-65-1A

DIN rail length specified

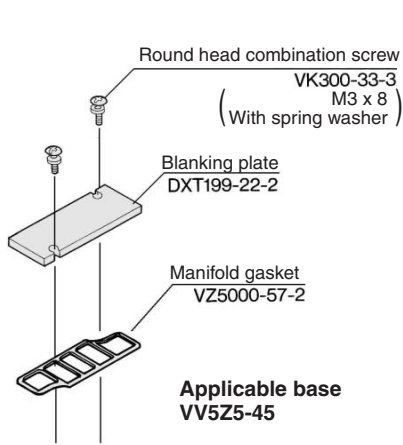
Nil	Standard length	
3	For 3 stations	(Specify a longer rail than the standard length.)
⋮	⋮	⋮
20	For 20 stations	

5 Port Solenoid Valve Base Mounted Series VZ5000

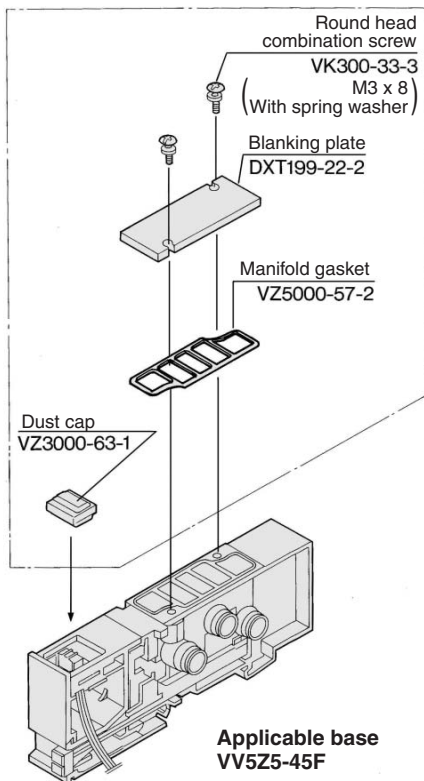
Option/DIN Rail Manifold

Blanking Plate Assembly

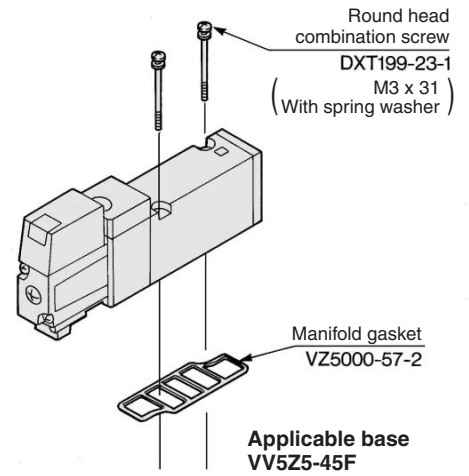
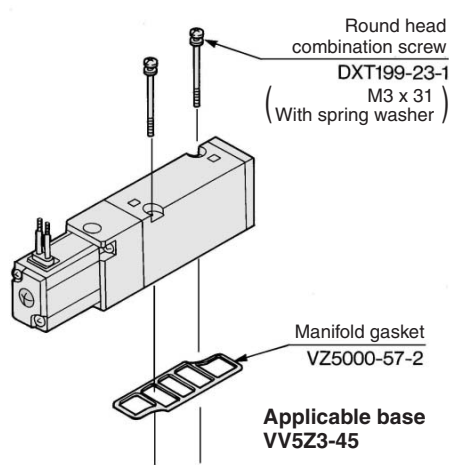
VZ5000-65-2A



VZ5000-65-1A



Combination of Solenoid Valve, Gasket and Manifold Base



SUP Block Disk

By installing a SUP block disk in the pressure supply passage of a manifold valve, it is possible to supply two or more different high and low pressures to one manifold.

VZ5000-68-1A



EXH Block Disk

By installing an EXH block disk in the exhaust passage of a manifold valve, it is possible to divide the valve's exhaust so that it does not affect another valve.

VZ5000-68-1A



Applicable Plug Assembly (D-sub connector cable assembly)

Cable length	Assembly part no.	Component parts
1.5 m	VVZS3000-21A-1	Plug MIL standard D-sub connector Number of terminals: 25 Cable: 25 cores x 0.3 mm ²
3 m	VVZS3000-21A-2	
5 m	VVZS3000-21A-3	
8 m	VVZS3000-21A-4	



For details, refer to page 3-3-8.

⚠ Caution

Mounting Screw Tightening Torques

M2.5: 0.32 N·m
(For stacking type manifold)

VK

VZ

VF

VFR

VP4

VZS

VFS

VS4

VQ7

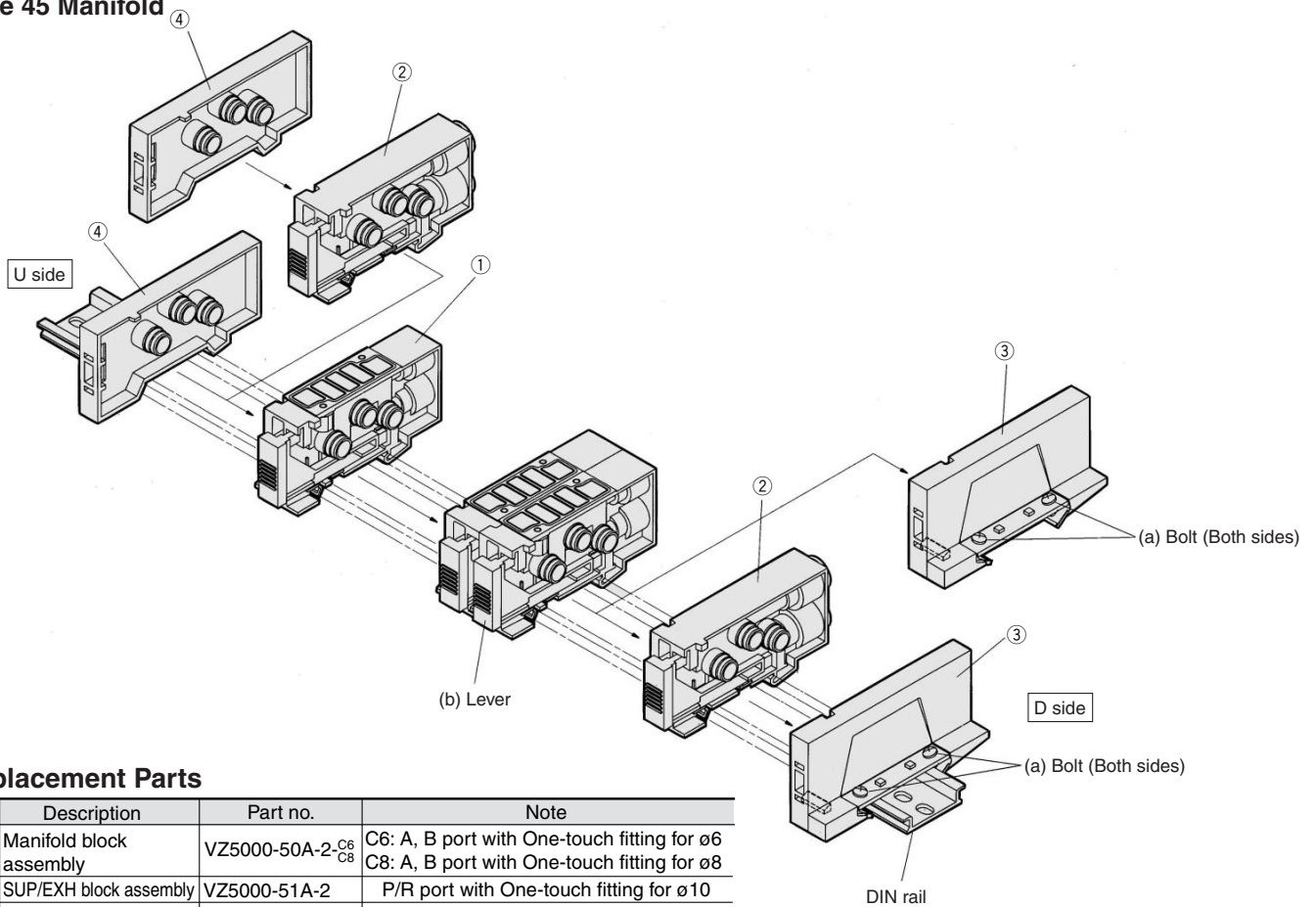
EVS

VFN

Series VZ5000

Exploded View/DIN Rail Manifold

Type 45 Manifold



Replacement Parts

No.	Description	Part no.	Note
①	Manifold block assembly	VZ5000-50A-2- ^{C6} / _{C8}	C6: A, B port with One-touch fitting for $\phi 6$ C8: A, B port with One-touch fitting for $\phi 8$
②	SUP/EXH block assembly	VZ5000-51A-2	P/R port with One-touch fitting for $\phi 10$
③	End block assembly	VZ5000-52A-2D	For D side
④	End block assembly	VZ5000-52A-2U	For U side

How to Increase Manifold Base

Station expansion is possible at any position.

- (1) Loosen (both) bolts (a), which are securing the manifold onto the DIN rail, 1 to 2 turns.
(To remove the manifold base from the DIN rail, loosen the bolts 4 to 5 turns.)
- (2) Press lever (b) to disconnect the manifold block assembly at the location in which you wish to place an additional manifold block assembly. (However, there are no levers between ① and ④ or between ③ and ④. They can be disconnected by merely pulling them apart.)
- (3) Mount additional manifold block assembly on the DIN rail as shown in the Fig. (2).
- (4) Press the block assemblies and tighten the bolts (a) to fix them to the DIN rail.


 Note) When there are 10 or fewer manifold block assemblies, and more are added to make a total of 11 or more, a supply/exhaust block assembly must also be added.

Fig. (1)

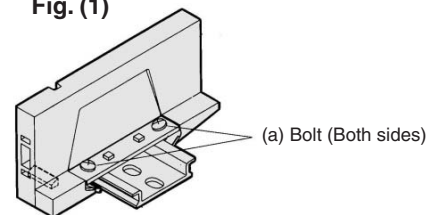
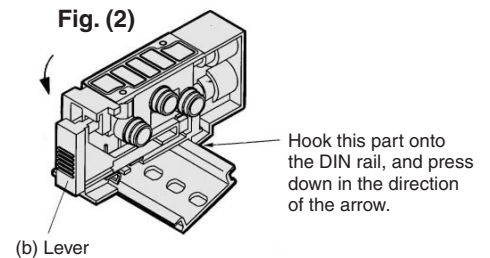
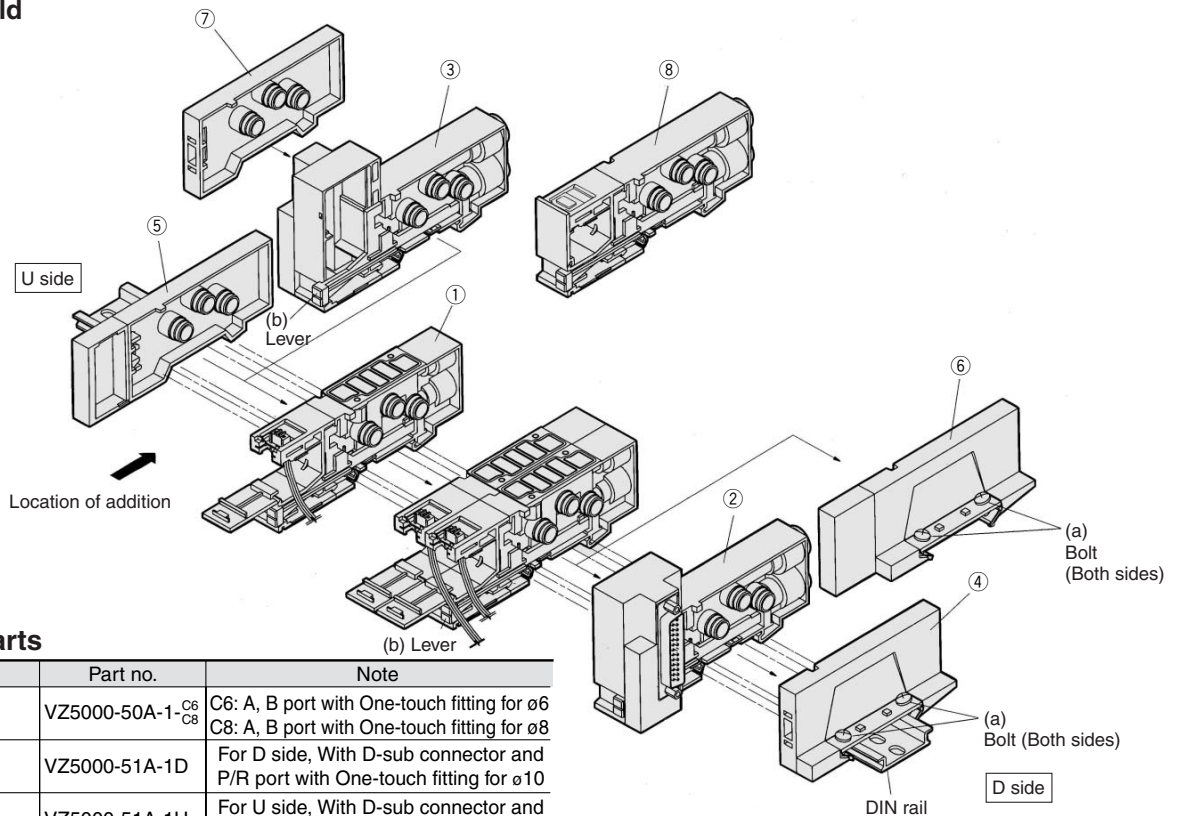


Fig. (2)



Exploded View/DIN Rail Manifold

Type 45F Manifold



Replacement Parts

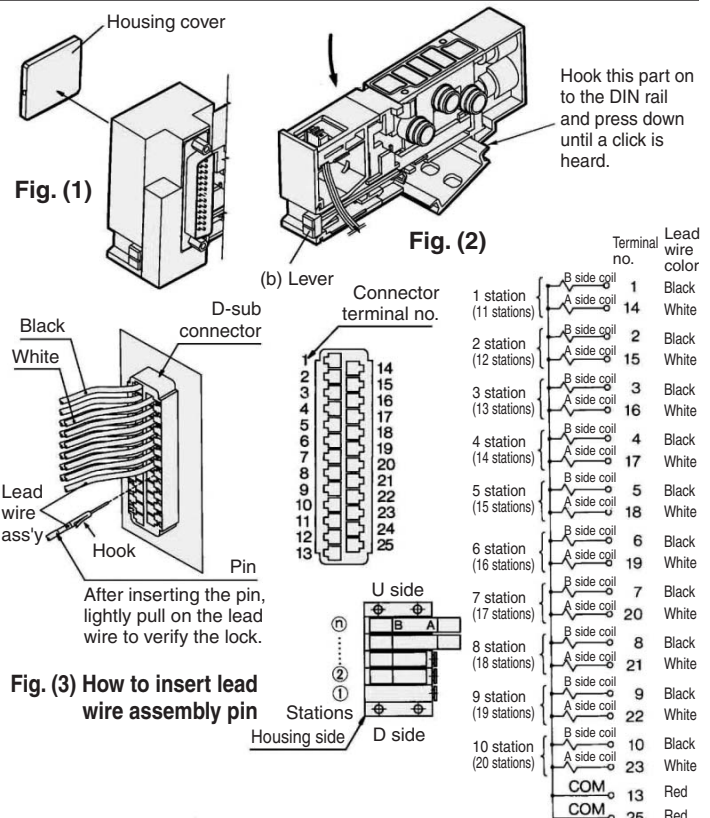
No.	Description	Part no.	Note
①	Manifold block assembly	VZ5000-50A-1-C6 C8	C6: A, B port with One-touch fitting for $\phi 6$ C8: A, B port with One-touch fitting for $\phi 8$
②	SUP/EXH block assembly	VZ5000-51A-1D	For D side, With D-sub connector and P/R port with One-touch fitting for $\phi 10$
③	SUP/EXH block assembly	VZ5000-51A-1U	For U side, With D-sub connector and P/R port with One-touch fitting for $\phi 10$
④	End block assembly	VZ5000-52A-2D	For D side, set with ②
⑤	End block assembly	VZ5000-52A-1U	For U side
⑥	End block assembly	VZ5000-52A-1D	For D side
⑦	End block assembly	VZ5000-52A-2U	For U side, set with ③
⑧	SUP/EXH block assembly	VZ5000-51A-1M	Without D-sub connector, For indicated location P/R port with One-touch fitting for $\phi 10$

How to Increase Manifold Base

To add a manifold block assembly, add it to the U side so that the terminal number of the D-sub connector and the valve link position will be in accordance with the circuit diagram.

- (1) Loosen (both) bolts (a), which are securing the manifold onto the DIN rail, 1 to 2 turns. (To remove the manifold base from the DIN rail, loosen the bolts 4 to 5 turns.)
- (2) Using a flat screwdriver, press lever (b) to disengage the link of the manifold block assembly on the U side or the D side from the SUP/EXH block assembly or from the end block assembly. (However, there are no levers between ⑤ and ①. They can be disconnected by merely pulling them apart.)
- (3) Remove the housing cover from the D-sub connector portion of the SUP/EXH block assembly. (Refer to Fig. (1).)
- (4) Following the procedure shown in Fig. (2), mount the manifold block assembly to be added onto the DIN rail. As shown in Fig. (3), insert the pin of the lead wire assembly into the D-sub connector, and attach the round crimped terminal to the screw that connects the wires.
- (5) Press the block assemblies and tighten the bolts (a) to fix them to the DIN rail.

Note When there are 10 or fewer manifold block assemblies, and more are added to make a total of 11 or more, a supply/exhaust block assembly must also be added.



VK

VZ

VF

VFR

VP4

VZS

VFS

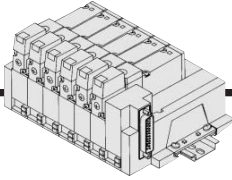
VS4

VQ7

EVS

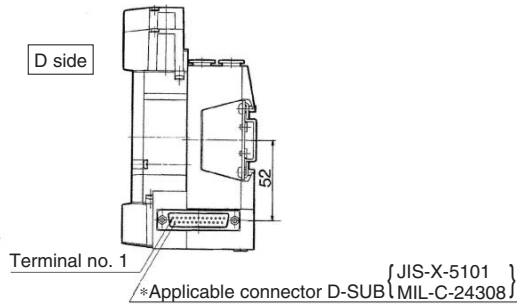
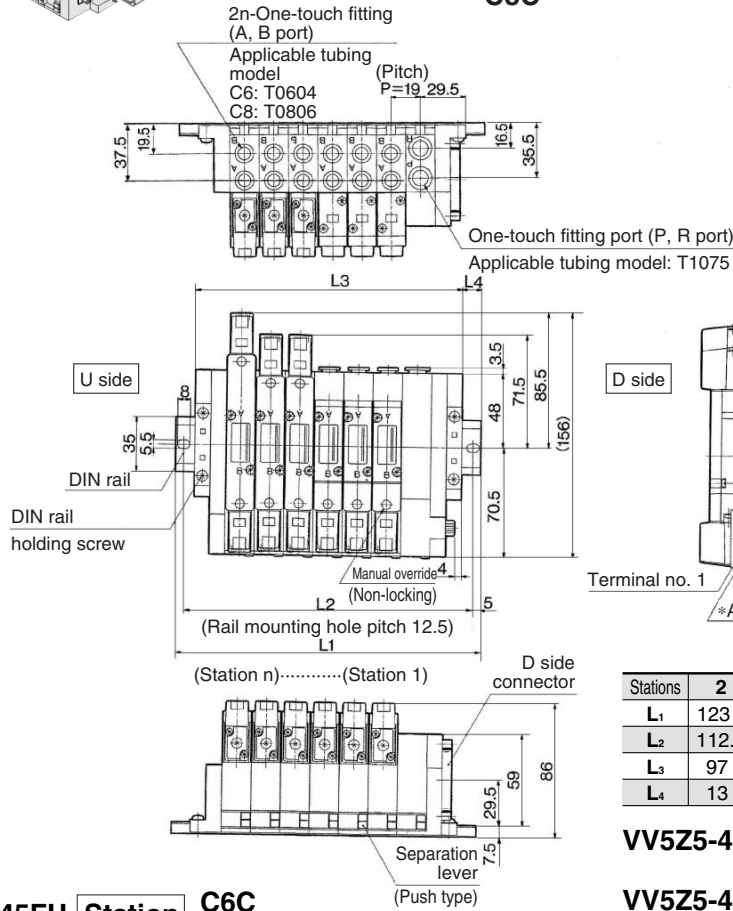
VFN

Series VZ5000



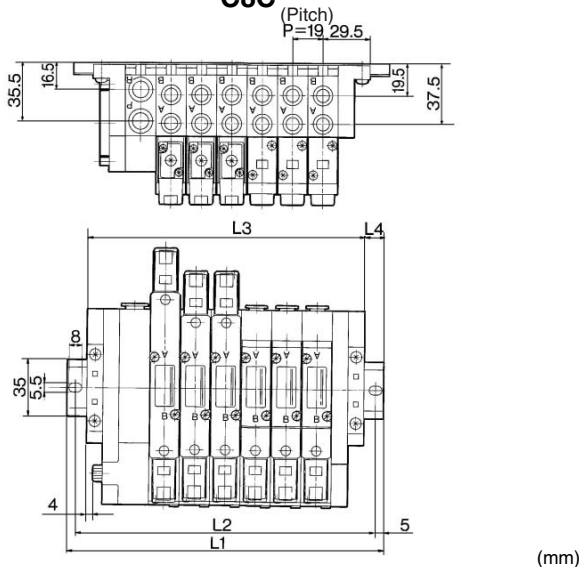
Type 45F DIN Rail Manifold (Plug-in): Side Ported

**VV5Z5-45FD-Station - C6C
C8C**



Stations	2	3	4	5	6	7	8	9	10
L ₁	123	148	160.5	185.5	198	223	235.5	260.5	273
L ₂	112.5	137.5	150	175	187.5	212.5	225	250	262.5
L ₃	97	116	135	154	173	192	211	230	249
L ₄	13	16	13	16	12.5	15.5	12.5	15.5	12

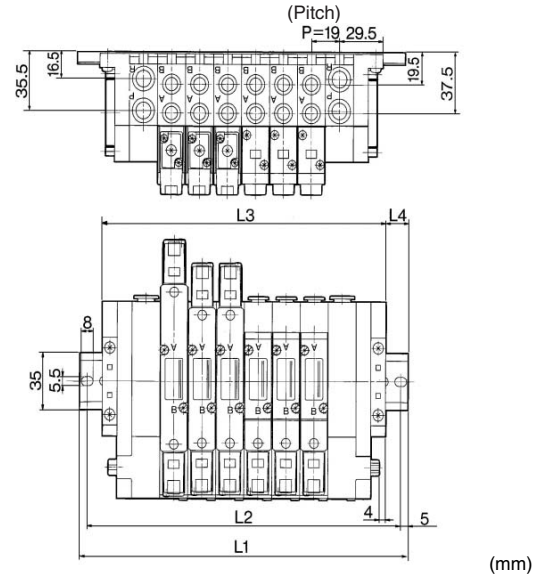
**VV5Z5-45FU-Station - C6C
C8C**



Stations	2	3	4	5	6	7	8	9	10
L ₁	123	148	160.5	185.5	198	223	235.5	260.5	273
L ₂	112.5	137.5	150	175	187.5	212.5	225	250	262.5
L ₃	97	116	135	154	173	192	211	230	249
L ₄	13	16	13	16	12.5	15.5	12.5	15.5	12

**VV5Z5-45FD_D-Station B- C6C
C8C (2 to 10 stations)**

**VV5Z5-45FB-Station - C6C
C8C (11 to 20 stations)**



Stations	2	3	4	5	6	7	8	9	10
L ₁	148	160.5	185.5	198	223	235.5	260.5	273	298
L ₂	137.5	150	175	187.5	212.5	225	250	262.5	287.5
L ₃	116	135	154	173	192	211	230	249	268
L ₄	16	13	16	12.5	15.5	12.5	15.5	12	15

Stations	11	12	13	14	15	16	17	18	19	20
L ₁	310.5	335.5	348	373	385.5	410.5	423	448	473	485.5
L ₂	300	325	337.5	362.5	375	400	412.5	437.5	462.5	475
L ₃	287	306	325	344	363	382	401	420	439	458
L ₄	12	15	11.5	14.5	11.5	14.5	11	14	17	14