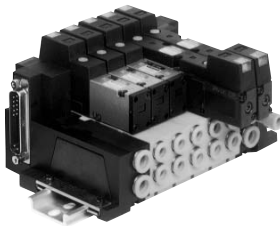
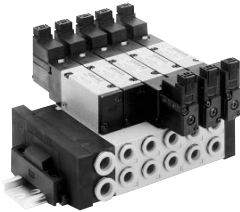


# 5 Port Solenoid Valve Base Mounted Series VZ3000

## 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/Common EXH	
Valve stations		2 to 20 stations	
A, B port	Location	Base	
Porting specifications	Direction	Side	
Port size	1(P), 3/5(R) port	C8 (One-touch fitting for ø8)	
	4(A), 2(B) port	C4 (One-touch fitting for ø4) C6 (One-touch fitting for ø6)	
Connector		—	MIL-C-24308 Applicable for JIS-X-5101 D-sub connector
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 <sup>3</sup> /(s·bar)]	b	Cv	C [dm <sup>3</sup> /(s·bar)]	b	Cv		
VV5Z3-45	VZ3□4□	C8	C4	0.59	0.28	0.15	0.83	0.34	0.22
		C8	C6	0.76	0.23	0.18	0.86	0.29	0.22

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) VV5Z3-45FD-06-C6C-1 pc. (Manifold base)

\*VZ3143-5FZ.....2 pcs. (Valve)

\*VZ3243-5FZ.....3 pcs. (Valve)

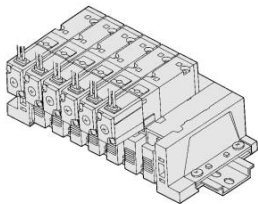
\*VZ3000-69-1A.....1 pc. (Blanking plate assembly)

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

## DIN Rail Manifold

### Common SUP/Common EXH

#### Type 45 (Non plug-in type) How to Order



**VV5Z3 - 45 - 05 D - C6 C** - [ ]

**Stations**

02	2 stations
⋮	⋮
20	20 stations

**SUP/EXH block mounting position**

<b>U</b>	U side: 2 to 10 stations
<b>D</b>	D side: 2 to 10 stations
<b>B</b>	Both sides: 2 to 20 stations
<b>M*</b>	Special specifications

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

**4(A), 2(B) port size**

<b>C4</b>	One-touch fitting for ø4
<b>C6</b>	One-touch fitting for ø6
<b>M*</b>	Mixed

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

#### Applicable solenoid valve

VZ3□4□-□

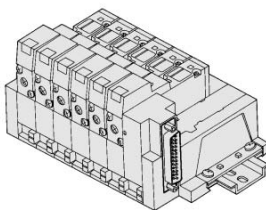
VZ3□5□-□

**Applicable blanking plate assembly**  
VZ3000-69-2A

#### DIN rail length specified

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

#### Type 45F (Plug-in type)



#### How to Order

**VV5Z3 - 45F D - 05** [ ] **C6 C** - [ ]

**Connector mounting direction**

<b>U</b>	U side: 2 to 10 stations
<b>D</b>	D side: 2 to 10 stations
<b>B</b>	Both sides: 11 to 20 stations

**Stations**

02	2 stations
⋮	⋮
20	20 stations

**SUP/EXH block mounting position**

<b>Nil</b>	For 2 to 10 stations : One side (Same as direction of connector mount)
<b>B</b>	For 11 to 20 stations: Both sides
<b>M*</b>	Special specifications

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

**4(A), 2(B) port size**

<b>C4</b>	One-touch fitting for ø4
<b>C6</b>	One-touch fitting for ø6
<b>M*</b>	Mixed

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

#### Applicable solenoid valve

VZ3□43-□FZ□

**Applicable blanking plate assembly**  
VZ3000-69-1A

#### DIN rail length specified

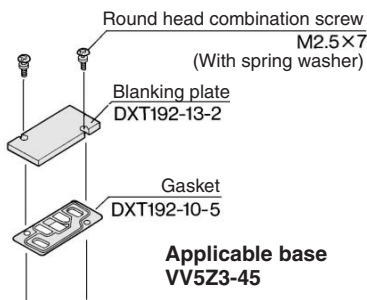
<b>Nil</b>	Standard length	
<b>3</b>	For 3 stations	(Specify a longer rail than the standard length.)
⋮	⋮	
<b>20</b>	For 20 stations	

# 5 Port Solenoid Valve Base Mounted Series VZ3000

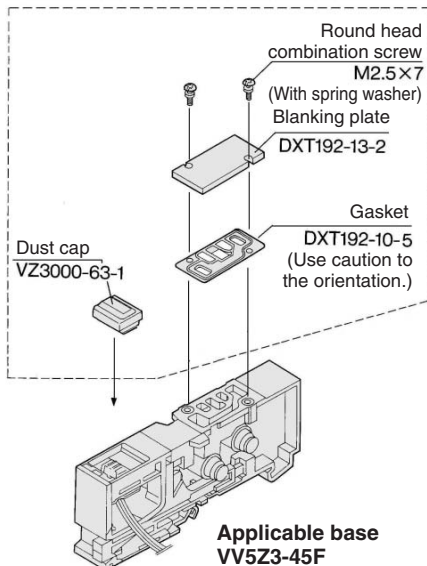
## Option/DIN Rail Manifold

### Blanking Plate Assembly

VZ3000-69-2A



VZ3000-69-1A

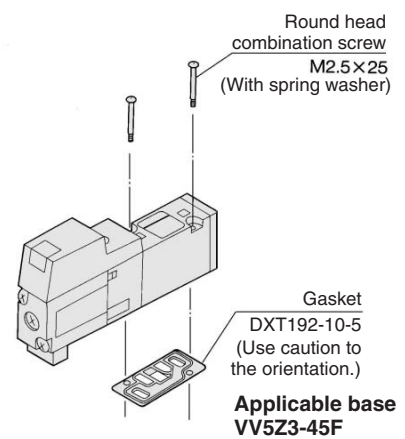
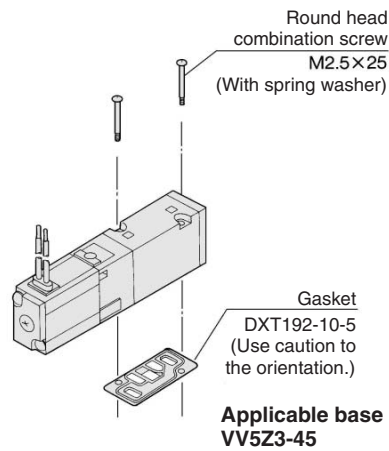


### Caution

#### Mounting Screw Tightening Torques

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

### 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.

VZ3000-79-1A



### 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.

VZ3000-79-1A



### Applicable Plug Assembly (D-sub connector cable assembly)

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

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

VK

VZ

VF

VFR

VP4

VZS

VFS

VS4

VQ7

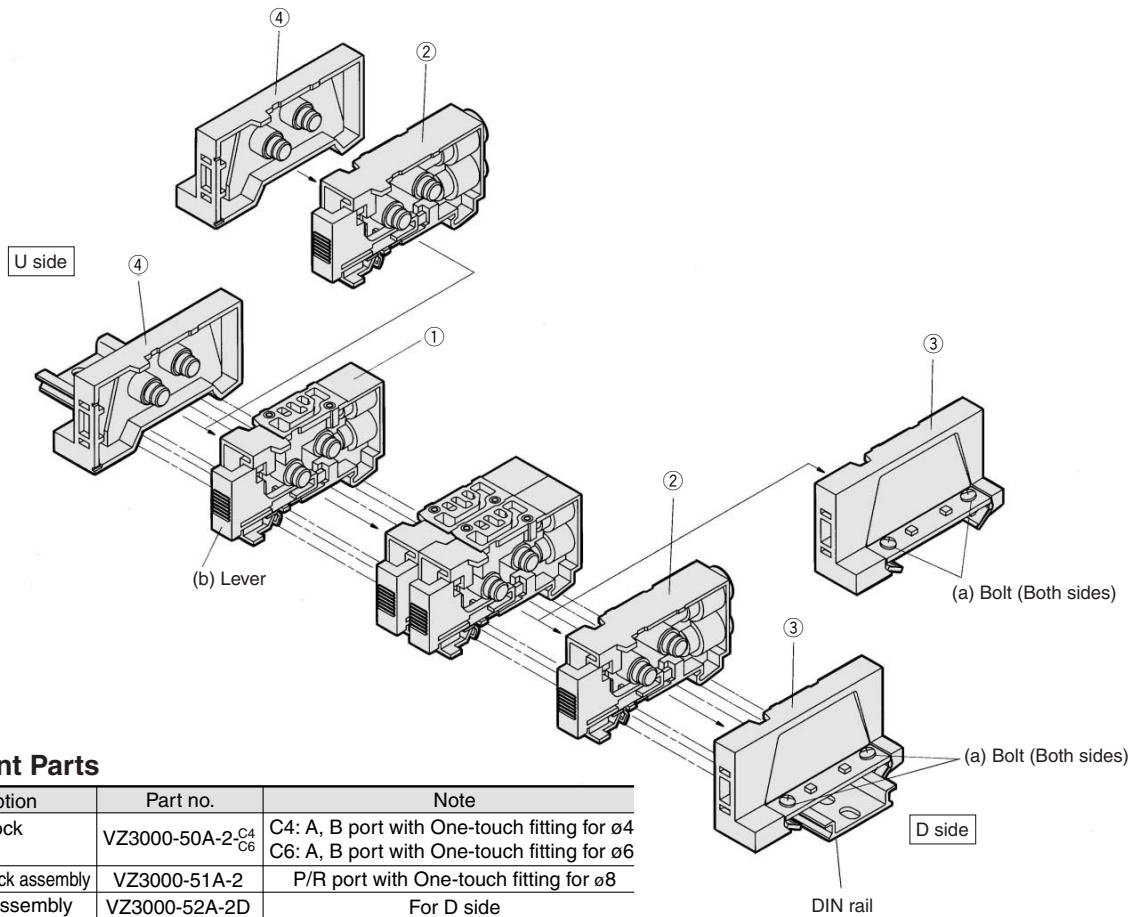
EVS

VFN

# Series VZ3000

## Exploded View/DIN Rail Manifold

### Type 45 Manifold



### Replacement Parts

No.	Description	Part no.	Note
①	Manifold block assembly	VZ3000-50A-2-C <sub>4</sub> C <sub>6</sub>	C4: A, B port with One-touch fitting for $\phi 4$ C6: A, B port with One-touch fitting for $\phi 6$
②	SUP/EXH block assembly	VZ3000-51A-2	P/R port with One-touch fitting for $\phi 8$
③	End block assembly	VZ3000-52A-2D	For D side
④	End block assembly	VZ3000-52A-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 ② 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)

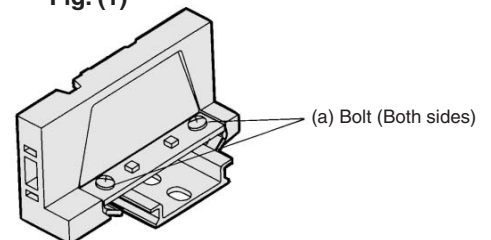
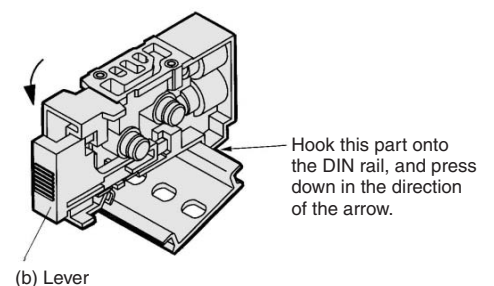
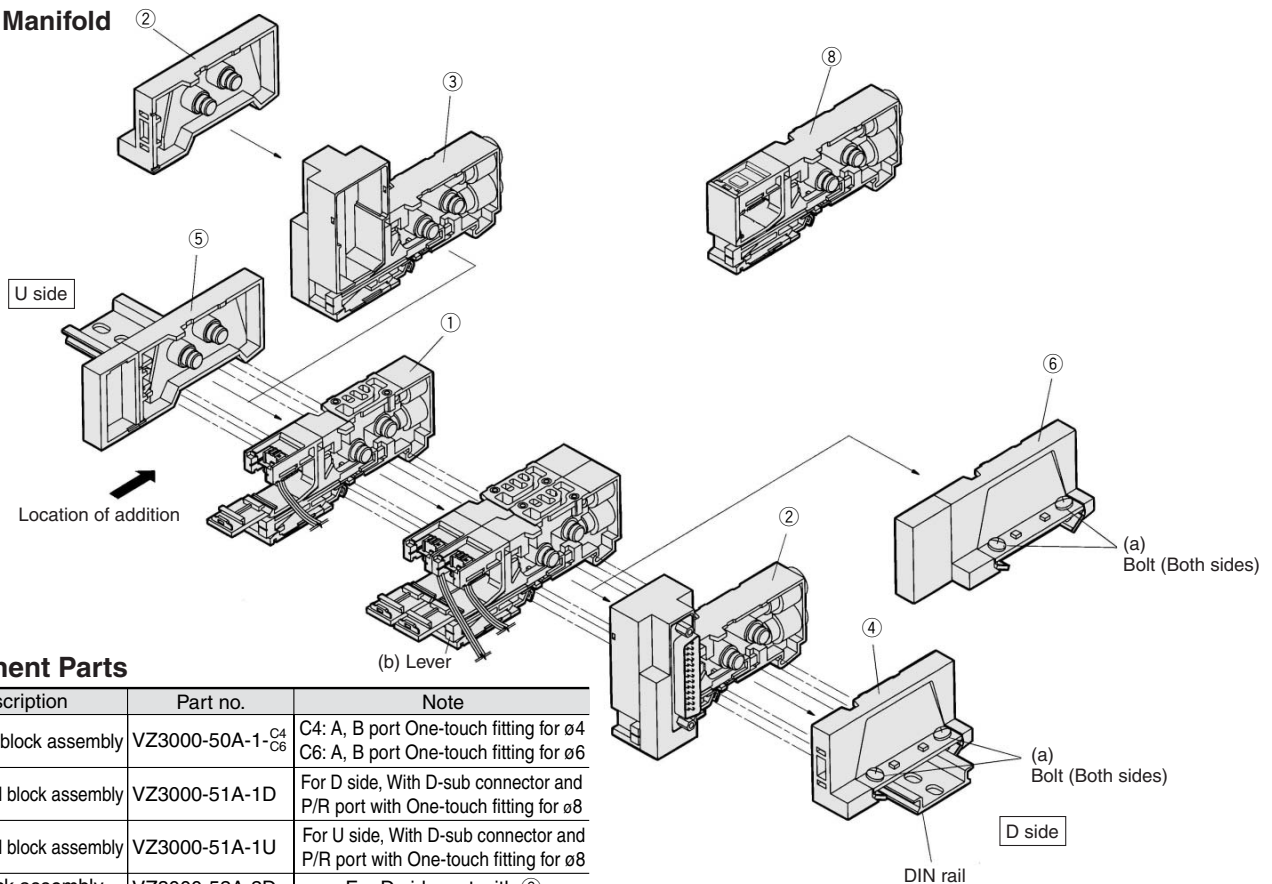


Fig. (2)



## Exploded View/DIN Rail Manifold

### Type 45F Manifold



### Replacement Parts

No.	Description	Part no.	Note
①	Manifold block assembly	VZ3000-50A-1-C <sub>4</sub> C <sub>6</sub>	C4: A, B port One-touch fitting for ø4 C6: A, B port One-touch fitting for ø6
②	SUP/EXH block assembly	VZ3000-51A-1D	For D side, With D-sub connector and P/R port with One-touch fitting for ø8
③	SUP/EXH block assembly	VZ3000-51A-1U	For U side, With D-sub connector and P/R port with One-touch fitting for ø8
④	End block assembly	VZ3000-52A-2D	For D side, set with ②
⑤	End block assembly	VZ3000-52A-1U	For U side
⑥	End block assembly	VZ3000-52A-1D	For D side
⑦	End block assembly	VZ3000-52A-2U	For U side, set with ③
⑧	SUP/EXH block assembly	VZ3000-51A-1M	Without D-sub connector For indicated location

- VK
- VZ
- VF
- VFR
- VP4
- VZS
- VFS
- VS4
- VQ7
- EVS
- VFN

### 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.

**Fig. (1)** Housing cover

**Fig. (2)** Hook this part onto the DIN rail and press down until a click is heard.

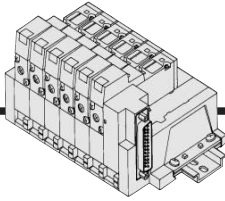
**Fig. (3)** How to insert lead wire assembly pin ( ) is for the case of a D-sub connector for both sides (FB type).

Station	Terminal no.	Lead wire color
1 station (11 stations)	B side coil	1 Black
	A side coil	14 White
2 station (12 stations)	B side coil	2 Black
	A side coil	15 White
3 station (13 stations)	B side coil	3 Black
	A side coil	16 White
4 station (14 stations)	B side coil	4 Black
	A side coil	17 White
5 station (15 stations)	B side coil	5 Black
	A side coil	18 White
6 station (16 stations)	B side coil	6 Black
	A side coil	19 White
7 station (17 stations)	B side coil	7 Black
	A side coil	20 White
8 station (18 stations)	B side coil	8 Black
	A side coil	21 White
9 station (19 stations)	B side coil	9 Black
	A side coil	22 White
10 station (20 stations)	B side coil	10 Black
	A side coil	23 White
	COM	13 Red
	COM	25 Red

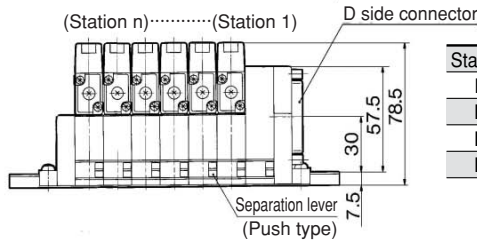
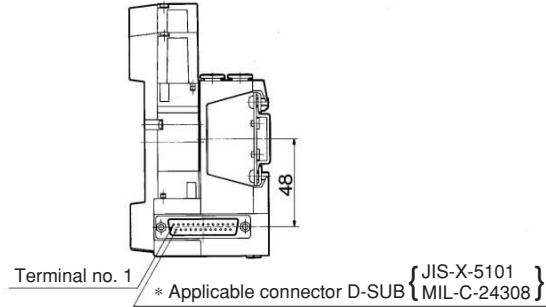
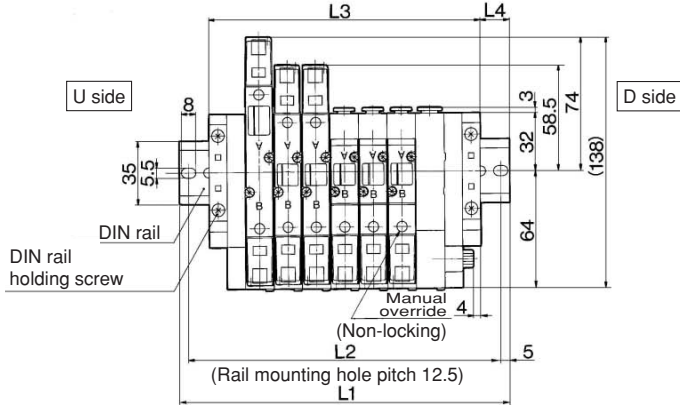
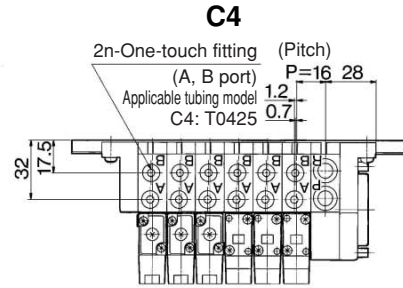
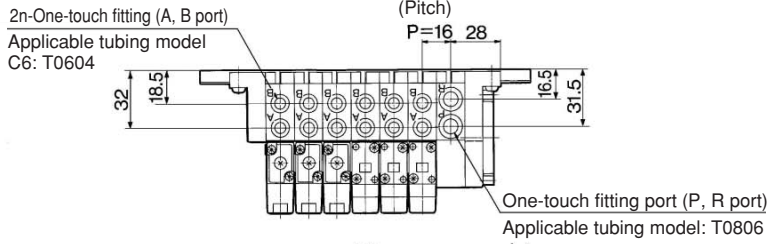


# Series VZ3000

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

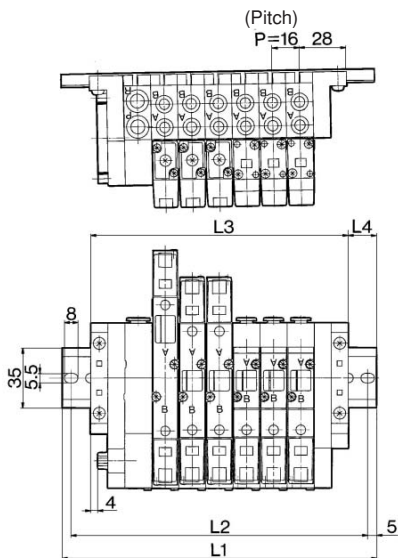


**VV5Z3-45FD - Station C4C  
C6C**



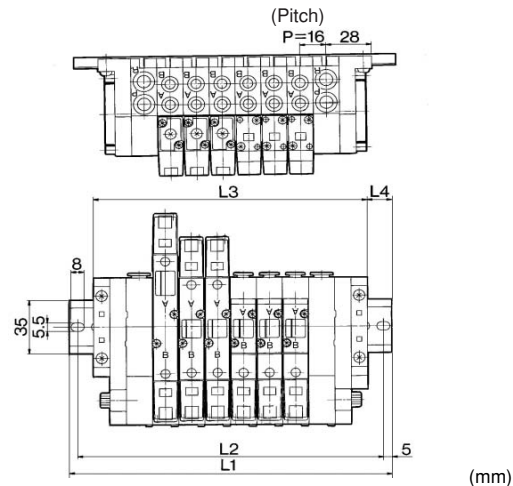
Stations	2	3	4	5	6	7	8	9	10
L <sub>1</sub>	110.5	135.5	148	160.5	185.5	198	210.5	223	248
L <sub>2</sub>	100	125	137.5	150	175	187.5	200	212.5	237.5
L <sub>3</sub>	88	104	120	136	152	168	184	200	216
L <sub>4</sub>	11.5	16	14	12.5	17	15	13.5	11.5	16

**VV5Z3-45FU - Station C4C  
C6C**



**VV5Z3-45FU<sup>U</sup> - Station B-C4C  
C6C (2 to 10 stations)**

**VV5Z3-45FB - Station C4C  
C6C (11 to 20 stations)**



Stations	2	3	4	5	6	7	8	9	10
L <sub>1</sub>	110.5	135.5	148	160.5	185.5	198	210.5	223	248
L <sub>2</sub>	100	125	137.5	150	175	187.5	200	212.5	237.5
L <sub>3</sub>	88	104	120	136	152	168	184	200	216
L <sub>4</sub>	11.5	16	14	12.5	17	15	13.5	11.5	16

Stations	2	3	4	5	6	7	8	9	10
L <sub>1</sub>	135.5	148	160.5	185.5	198	210.5	223	248	260.5
L <sub>2</sub>	125	137.5	150	175	187.5	200	212.5	237.5	250
L <sub>3</sub>	104	120	136	152	168	184	200	216	232
L <sub>4</sub>	16	14	12.5	17	15	13.5	11.5	16	14

Stations	11	12	13	14	15	16	17	18	19	20
L <sub>1</sub>	273	298	310.5	323	335.5	360.5	373	385.5	398	423
L <sub>2</sub>	262.5	287.5	300	312.5	325	350	362.5	375	387.5	412.5
L <sub>3</sub>	248	264	280	296	312	328	344	360	376	392
L <sub>4</sub>	12.5	17	15.5	13.5	12	16.5	14.5	13	11	15.5