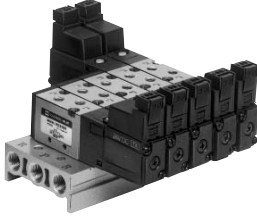


Series VZ3000/Body Ported Manifold Specifications

Manifold Standard



Manifold Specifications

Model	Type 20	
Manifold type	Single base/B mount	
P(SUP)/R(EXH)	Common SUP/Common EXH	
Valve stations	2 to 20 stations	
4(A), 2(B) port location	Valve	
Port size	1(P), 3/5(R) port	Rc 1/8
	4(A), 2(B) port	M5 x 0.8, C4, C6

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)			
Body ported For internal pilot	Type VV5Z3-20	VZ3□2□	1/8	M5 x 0.8	C [dm ³ /(s·bar)]	b	Cv	C [dm ³ /(s·bar)]	b	Cv
			1/8	C4	0.62	0.33	0.16	0.83	0.27	0.20
			1/8	C6	0.79	0.36	0.21	0.91	0.36	0.24



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) VV5Z3-20-031..... 1 pc. (Manifold base)

*VZ3120-5G-M5..... 2 pcs. (Valve)

*DXT192-13-1A 1 pc. (Blanking plate assembly)

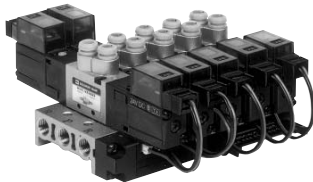
↳ The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

Flat Ribbon Cable Manifold

- One-touch wiring to consolidate connection of external wires.

- Clean appearance

The flat cable provides wiring on a printed circuit board to the individual valves at the manifold base, enabling the consolidation of external wiring at a touch through a 26 pins MIL connector.



Flat Ribbon Cable Manifold Specifications

Model	Type 20P	
Manifold type	Single base/B mount	
P(SUP), R(EXH)	Common SUP/Common EXH	
Valve stations	3 to 12 stations	
4(A), 2(B) port location	Valve	
Port size	1(P), 3/5(R) port	Rc 1/8
	4(A), 2(B) port	M5 x 0.8, C4, C6
Applicable flat ribbon cable connector	Socket: 26 pins MIL, with strain relief (Conforming to MIL-C-83503)	
Internal wiring	+ COM (For – COM specifications, specify them separately.)	
Applicable valve model	VZ3□23- ¹ / ₃ MOZ□- ^{M5} / _{C6}	
Rated voltage	100 VAC 50/60 Hz, 110 VAC 50/60 Hz, 24 VDC, 12 VDC	



Note) Withstand voltage specifications of wiring unit part is equivalent to JIS C 0704 class 1.

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)			
Body ported For internal pilot	Type VV5Z3-20P	VZ3□23	1/8	M5 x 0.8	C [dm ³ /(s·bar)]	b	Cv	C [dm ³ /(s·bar)]	b	Cv
			1/8	C4	0.62	0.33	0.16	0.83	0.27	0.20
			1/8	C6	0.79	0.36	0.21	0.91	0.36	0.24



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

How to Order Manifold

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

(Example) VV5Z3-20P-07..... 1 pc. (Manifold base)

*VZ3123-5MOZ-C4..... 3 pcs. (Valve)

*VZ3223-5MOZ-C4..... 3 pcs. (Valve)

*DXT192-13-3A..... 1 pc. (Blanking plate assembly)

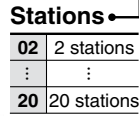
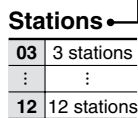
*DXT192-52-1-4A..... 3 pcs. (Connector assembly)

*DXT192-52-2-4A..... 3 pcs. (Connector assembly)

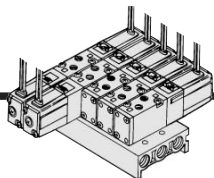
↳ The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

Series VZ3000

VV5Z3-20-05 1-

VV5Z3-20P-05-3-3-25

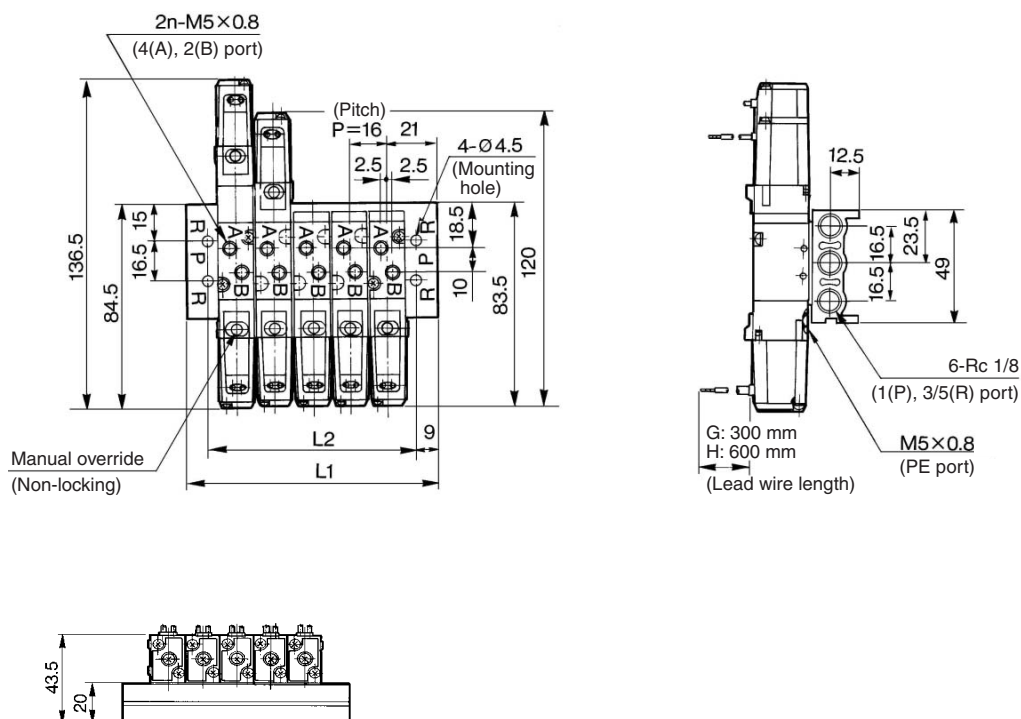
Series VZ3000



Type 20 Manifold

VV5Z3-20-Station 1

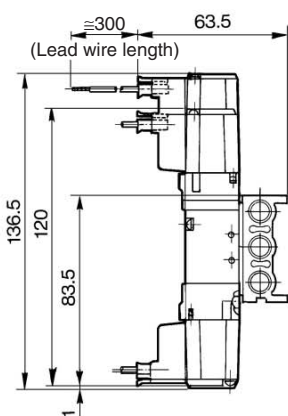
Grommet (G), (H)



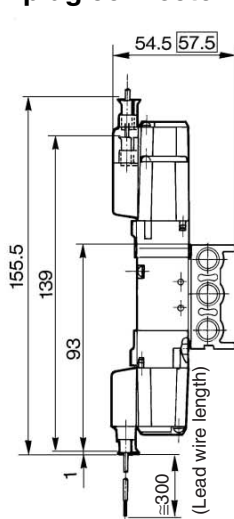
Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	58	74	90	106	122	138	154	170	186	202	218	234	250	266	282	298	314	330	346
L ₂	40	56	72	88	104	120	136	152	168	184	200	216	232	248	264	280	296	312	328

(mm)

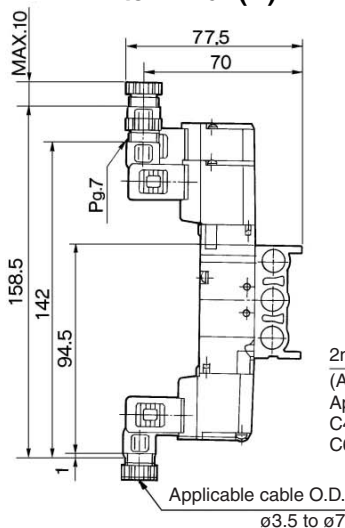
L plug connector (L)



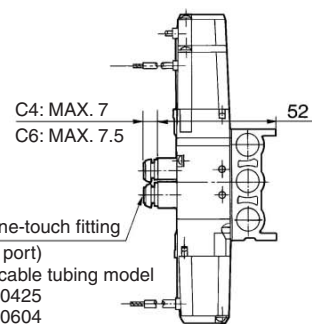
M plug connector (M)



DIN terminal (D)

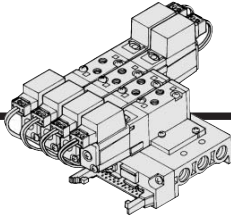


Built-in One-touch fittings



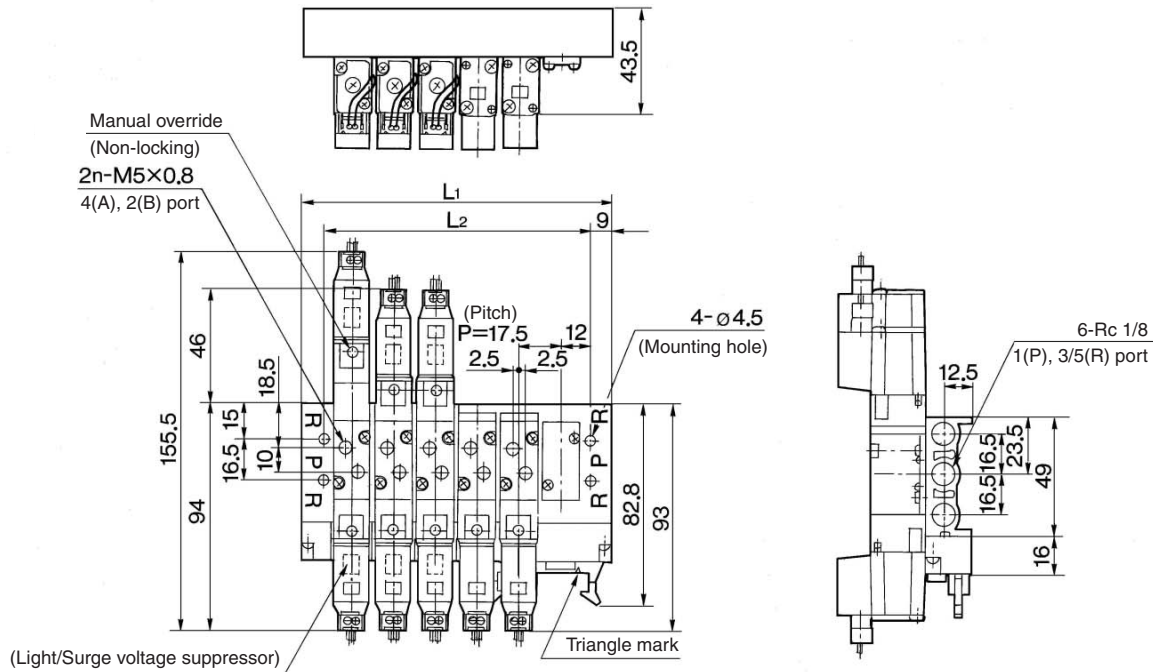
□: With light/surge voltage suppressor

5 Port Solenoid Valve Body Ported **Series VZ3000**

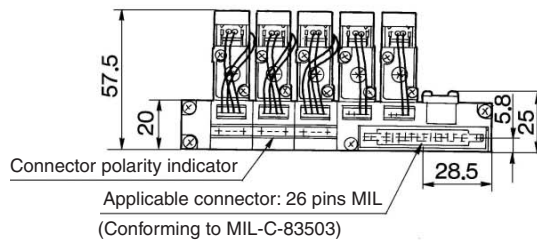


Type 20P Flat Ribbon Cable Manifold

VV5Z3-20P-Station



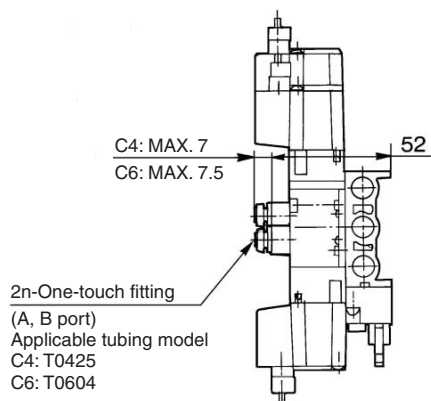
(Station n).....(Station 1)



(mm)

Stations	3	4	5	6	7	8	9	10	11	12
L ₁	77	94.5	112	129.5	147	164.5	182	199.5	217	234.5
L ₂	59	76.5	94	111.5	129	146.5	164	181.5	199	216.5

Built-in One-touch fittings



VK

VZ

VF

VFR

VP4

VZS

VFS

VS4

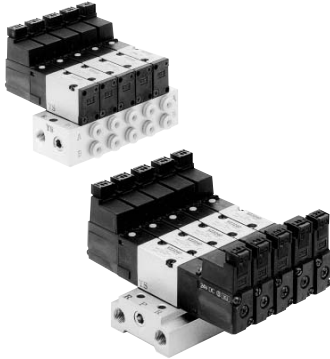
VQ7

EVS

VFN

Series VZ3000/Base Mounted Manifold Specifications

Manifold Standard



Manifold Specifications

Model		Type 40	Type 41	Type 42	Type 43
Manifold type		Single base/B mount			
P(SUP)/R(EXH)		Common SUP/Common EXH			
Valve stations		2 to 20 stations			
4(A), 2(B) port Porting specifications	Position	Base		Base	
	Direction	Bottom		Side	
Port size	1(P), 3/5(R) port	Rc 1/8		Rc 1/4	Rc 1/8
	4(A), 2(B) port	M5 x 0.8		C6 Rc 1/8 (One-touch fitting for ø6) B7 (One-touch fitting for 1/4")	C4 (One-touch fitting for ø4) B3 (One-touch fitting for 5/32")

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
VV5Z3-40	VZ3□4□	1/8	M5 x 0.8	0.55	0.35	0.15	0.64	0.26	0.16
VV5Z3-41		1/8	M5 x 0.8	0.59	0.35	0.16	0.68	0.23	0.17
VV5Z3-42-01		1/4	1/8	0.74	0.22	0.18	0.82	0.31	0.21
VV5Z3-42-C6		1/4	C6	0.71	0.24	0.17	0.80	0.29	0.20
VV5Z3-43		1/8	C4	0.55	0.29	0.14	0.74	0.32	0.19



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) VV5Z3-40-031-M5.....1 pc. (Manifold base)

*VZ3140-5G-M5.....2 pcs. (Valve)

*DXT192-13-1A.....1 pc. (Blanking plate assembly)

VV5Z3-43-031-C4.....1 pc. (Manifold base)

*VZ3140-5LZ.....1 pc. (Valve)

*VZ3240-5LZ.....1 pc. (Valve)

*DXT192-13-1A.....1 pc. (Blanking plate assembly)

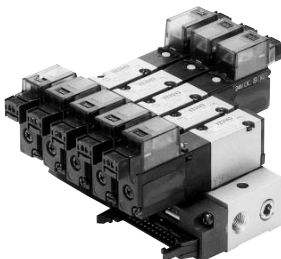
→The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

Flat Ribbon Cable Manifold

- One-touch wiring to consolidate connection of external wires.

- Clean appearance

The flat cable provides wiring on a printed circuit board to the individual valves at the manifold base, enabling the consolidation of external wiring at a touch through a 26 pins MIL connector.



Flat Ribbon Cable Manifold Specifications

Model		Type 41P	Type 43P
Manifold type		Single base/B mount	
P(SUP), R(EXH)		Common SUP/Common EXH	
Valve stations		3 to 12 stations	
4(A), 2(B) port location	Position	Base	
	Direction	Side	
Port size	1(P), 3/5(R) port	Rc 1/8	
	4(A), 2(B) port	M5 x 0.8	
Applicable flat ribbon cable connector		Socket: 26 pins MIL, with strain relief (Conforming to MIL-C-83503)	
Internal wiring		+COM specifications (For -COM specifications, specify them separately.)	
Applicable valve model		VZ3□43- $\frac{1}{8}$ MOZ□-VZ3□53- $\frac{1}{8}$ MOZ□	
Rated voltage		100 VAC 50/60 Hz, 110 VAC 50/60 Hz, 24 VDC, 12 VDC	



Note) Withstand voltage specifications of wiring unit part is equivalent to JIS C 0704 class 1.

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
VV5Z3-41P	SYJ5□43	1/8	M5 x 0.8	0.59	0.35	0.16	0.68	0.23	0.17
VV5Z3-43P		1/8	C4	0.59	0.29	0.14	0.74	0.32	0.19



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

How to Order Manifold

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

(Example) VV5Z3-43P-07-C4.....1 pc. (Manifold base)

*VZ3143-5MOZ.....3 pcs. (Valve)

*VZ3243-5MOZ.....3 pcs. (Valve)

*DXT192-13-3A.....1 pc. (Blanking plate assembly)

*DXT192-52-1-4A.....3 pcs. (Connector assembly)

*DXT192-52-2-4A.....3 pcs. (Connector assembly)

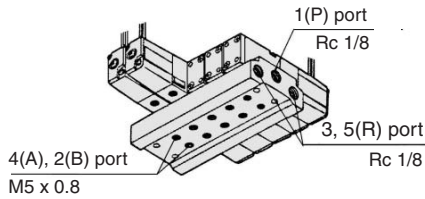
→The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

Series VZ3000

Common SUP/Common EXH

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

Type 40



How to Order

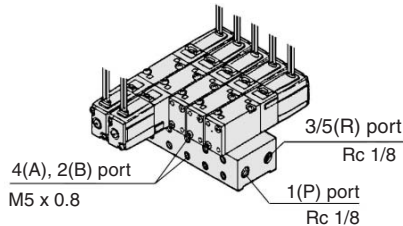
VV5Z3-40-05 2-M5

Stations	
02	2 stations
20	20 stations

4(A), 2(B) port size	
M5	M5 x 0.8

1(P), 3/5(R) port thread type	
Nil	Rc
F	G
N	NPT
Z	NPTE

Type 41



How to Order

VV5Z3-41-05 1-M5

Stations	
02	2 stations
20	20 stations

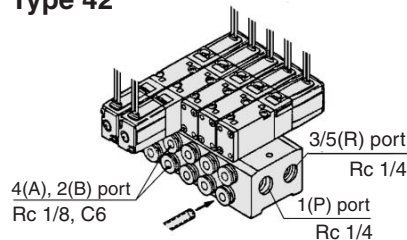
4(A), 2(B) port size	
M5	M5 x 0.8

1(P), 3/5(R) port thread type	
Nil	Rc
F	G
N	NPT
Z	NPTE

Applicable solenoid valve

VZ3□4□-□
G
L
M
D
□
□
VZ3□5□-□
G
L
M
D
□
□

Type 42



How to Order

VV5Z3-42-05 1-C6

Stations	
02	2 stations
20	20 stations

4(A), 2(B) port size	
01	Rc 1/8
C6	One-touch fitting for ø6
B7	One-touch fitting for 1/4"

1(P), 3/5(R) port thread type	
Nil	Rc
F	G
N	NPT
Z	NPTE

Applicable blanking plate assembly

DXT192-13-1A

Applicable individual EXH spacer assembly

DXT192-21-1A

Applicable individual SUP spacer assembly

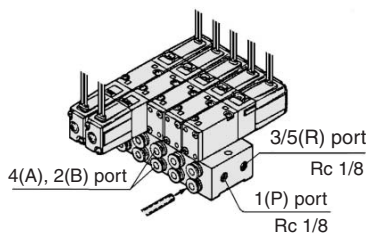
(Except VV5Z3-40 type)

DXT192-40-1A

Applicable interface regulator

ARBZ3000-00-P

Type 43



How to Order

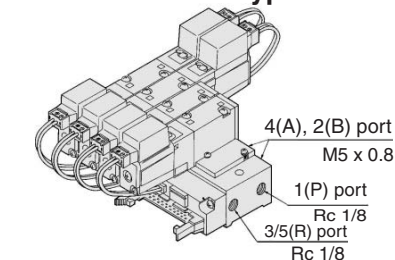
VV5Z3-43-05 1-C4

Stations	
02	2 stations
20	20 stations

4(A), 2(B) port size	
C4	One-touch fitting for ø4
B3	One-touch fitting for 5/32"

1(P), 3/5(R) port thread type	
Nil	Rc
F	G
N	NPT
Z	NPTE

Flat ribbon cable type 41P



How to Order

VV5Z3-41P-05-M5

Stations	
03	3 stations
12	12 stations

4(A), 2(B) port size	
M5	M5 x 0.8

1(P), 3/5(R) port thread type	
Nil	Rc
F	G
N	NPT
Z	NPTE

Applicable solenoid valve

VZ3□43-□
1
6
5
3
□
MOZ□
VZ3□53-□
1
6
5
3
□
MOZ□

Applicable blanking plate assembly

DXT192-13-3A

Applicable connector assembly

DXT192-52-1-※A

(For 2 position single)

DXT192-52-2-※A

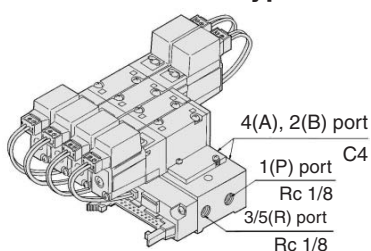
(For 2 position double, 3 position)

* 1: 100 VAC, 3: 110 VAC,

4: DC

For "How to order applicable connector assemblies", refer to page 3-3-7.

Flat ribbon cable type 43P



How to Order

VV5Z3-43P-05-C4

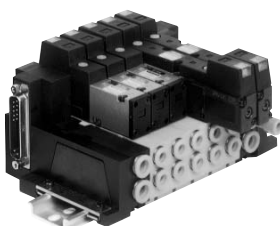
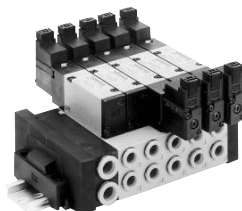
Stations	
03	3 stations
12	12 stations

4(A), 2(B) port size	
C4	One-touch fitting for ø4
B3	One-touch fitting for 5/32"

1(P), 3/5(R) port thread type	
Nil	Rc
F	G
N	NPT
Z	NPTE

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 Porting specifications	Location	Base	
	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) C [dm ³ /[s-bar]]	b	Cv	4/2 → 5/3 (A/B → R) C [dm ³ /[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)

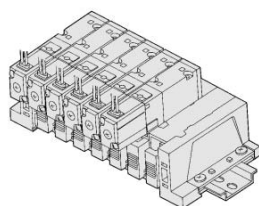
*VZ3000-69-1A.....1 pc. (Blanking plate assembly)

→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

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

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

4(A), 2(B) port size	
C4	One-touch fitting for ø4
C6	One-touch fitting for ø6
M*	Mixed

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

Applicable solenoid valve

VZ3□4□-□	G M D G M D
VZ3□5□-□	G M D

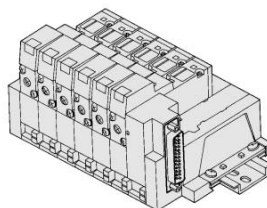
Applicable blanking plate assembly

VZ3000-69-2A

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

VV5Z3 - 45F D - 05 - C6 C -

Connector mounting direction	
U	U side: 2 to 10 stations
D	D side: 2 to 10 stations
B	Both sides: 11 to 20 stations

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 11 to 20 stations: Both sides
M*	Special specifications

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

4(A), 2(B) port size	
C4	One-touch fitting for ø4
C6	One-touch fitting for ø6
M*	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

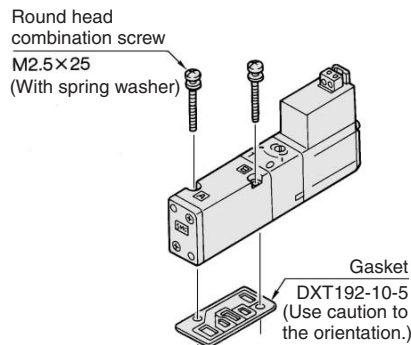
DIN rail length specified

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

Series VZ3000

Option/Standard Manifold, Flat Ribbon Cable Manifold

Combinations of Solenoid Valve, Manifold Gasket and Manifold Base

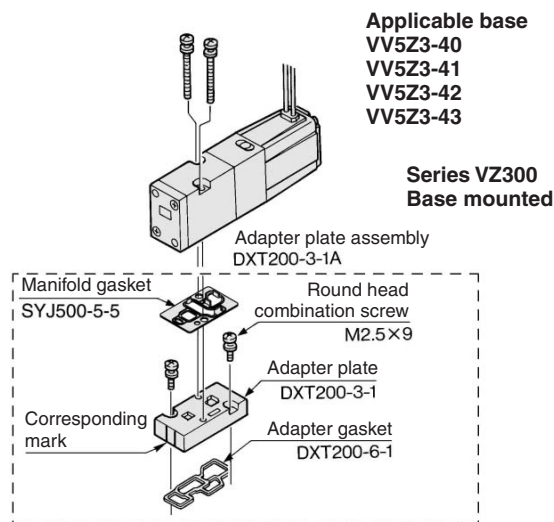


Applicable base
VV5Z3-40
VV5Z3-41
VV5Z3-42
VV5Z3-43
VV5Z3-41P
VV5Z3-43P

Installation of the VZ300 Valve on the VZ3000 Manifold

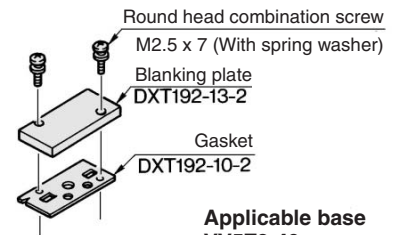
- Use of an adaptor plate makes it possible to mount Series VZ300 on the manifold base of Series VZ3000.
- The mounting direction is shown in the diagram below. Mount the solenoid so that it will be on the same side as the single solenoid of the Series VZ3000.
- 2(A) port of 3 port valve should be 2(B) port of manifold base.

Adapter Plate Assembly DXT200-3-1A



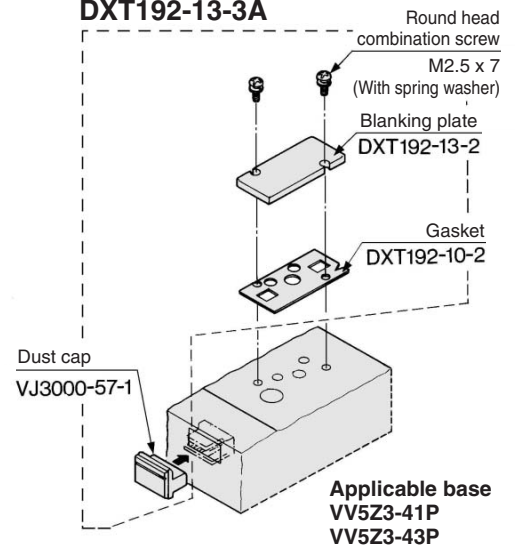
Blanking Plate Assembly

DXT192-13-1A



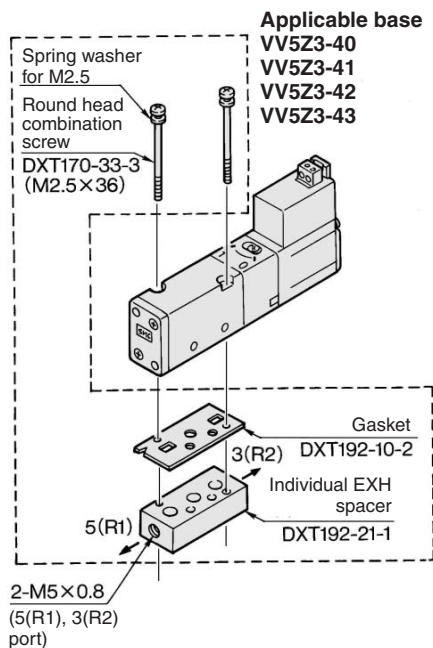
Applicable base
VV5Z3-40
VV5Z3-41
VV5Z3-42
VV5Z3-43

DXT192-13-3A



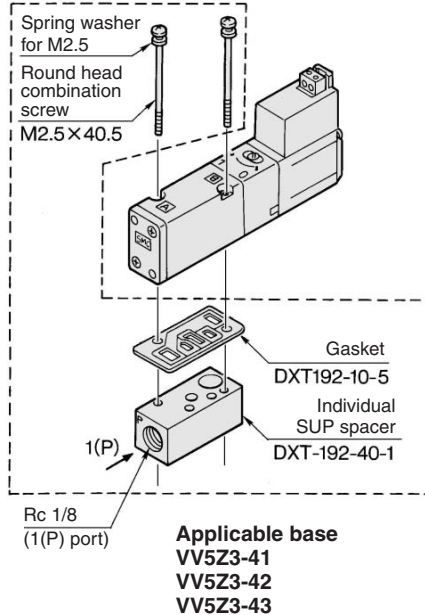
Individual EXH Spacer Assembly

DXT192-21-1A



Individual SUP Spacer Assembly

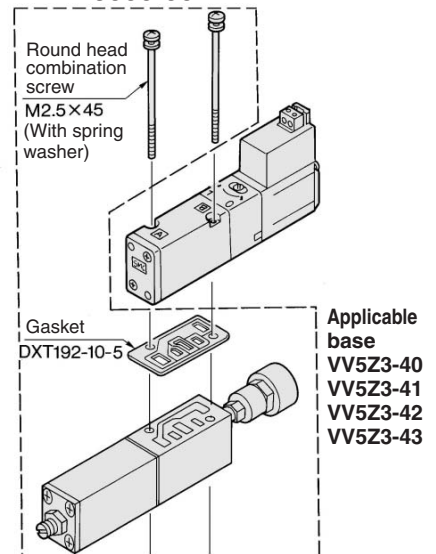
DXT192-40-1A



Interface regulator (P port regulation)

Interface regulator can be placed on top of the manifold base to reduce the pressure of each of the valves.

ARBZ3000-00-P



Before using, refer to page 3-3-8.



Note) Please contact SMC when using an individual EXH spacer assembly, an individual SUP spacer assembly, an adapter plate assembly, or an interface regulator on 41P and 43P types.

Caution

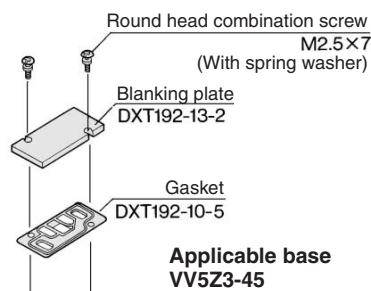
Mounting Screw Tightening Torques M2.5: 0.45 N·m

5 Port Solenoid Valve Base Mounted Series VZ3000

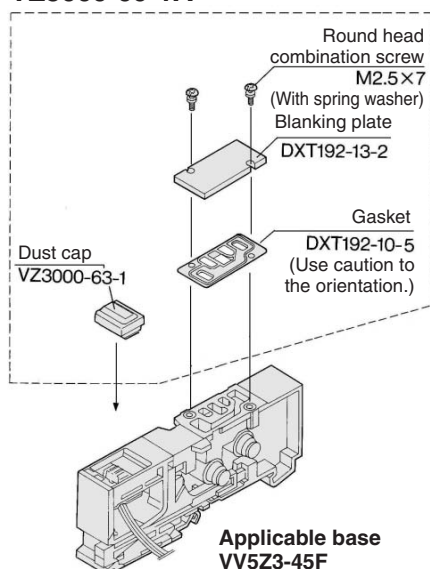
Option/DIN Rail Manifold

Blanking Plate Assembly

VZ3000-69-2A



VZ3000-69-1A

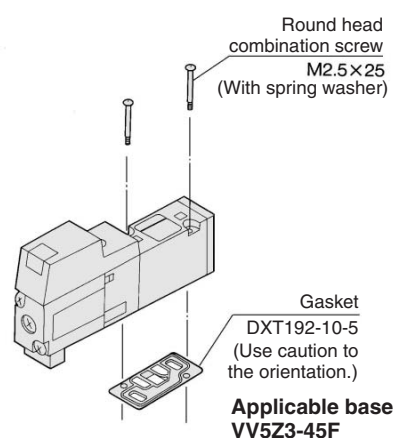
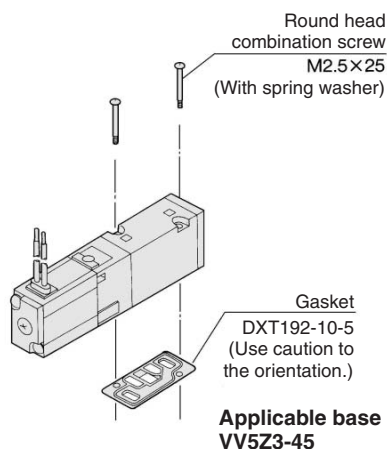


Caution

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 ²
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

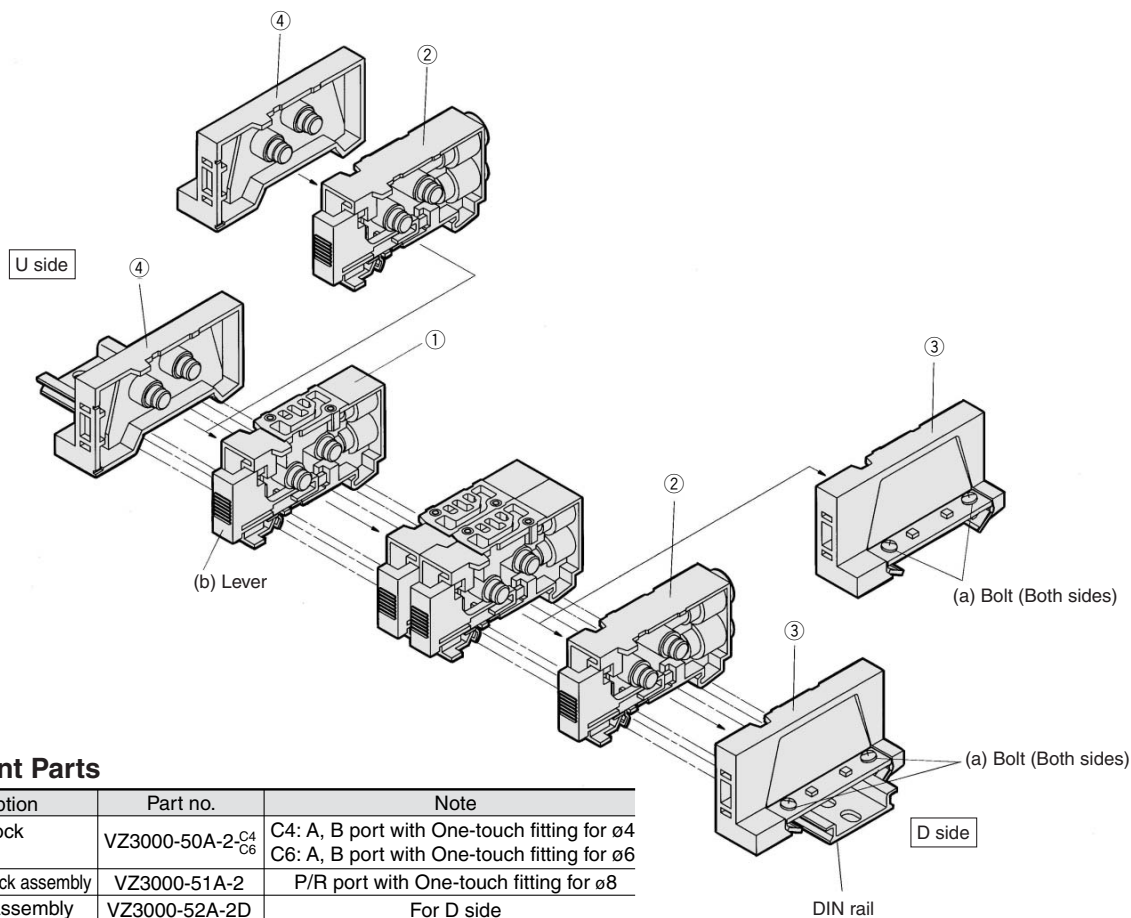
EVS

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 ₄ C ₆	C4: A, B port with One-touch fitting for ø4 C6: A, B port with One-touch fitting for ø6
②	SUP/EXH block assembly	VZ3000-51A-2	P/R port with One-touch fitting for ø8
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)

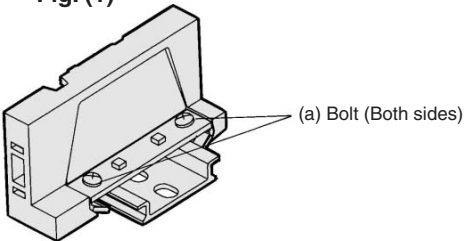
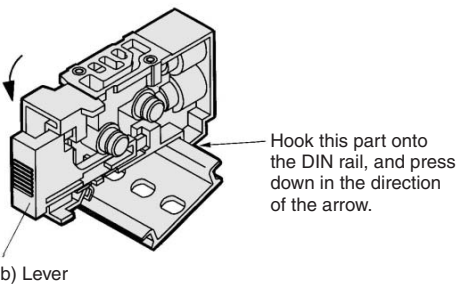
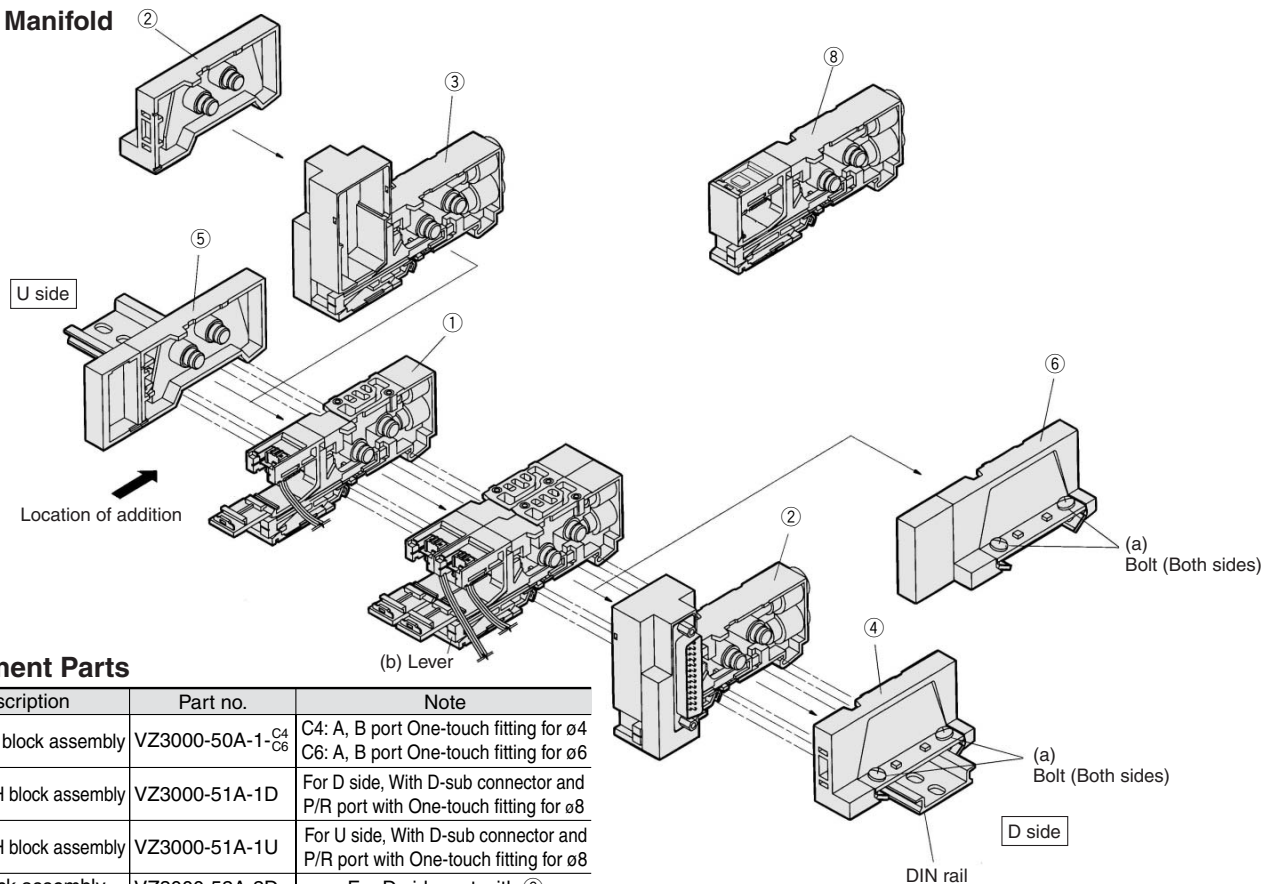


Fig. (2)



Exploded View/DIN Rail Manifold

Type 45F Manifold



Replacement Parts

No.	Description	Part no.	Note
①	Manifold block assembly	VZ3000-50A-1-C ₄ C ₆	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

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.

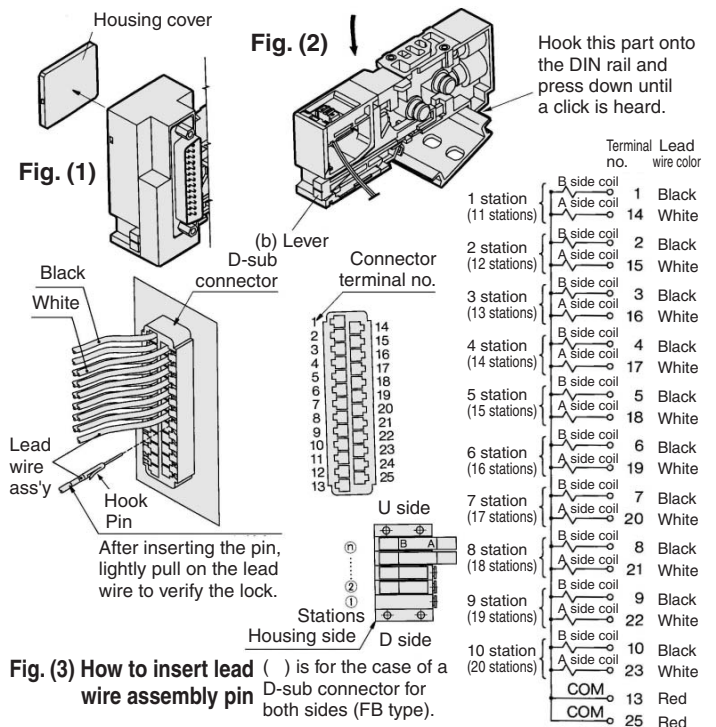
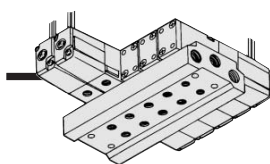


Fig. (3) How to insert lead wire assembly pin () is for the case of a D-sub connector for both sides (FB type).

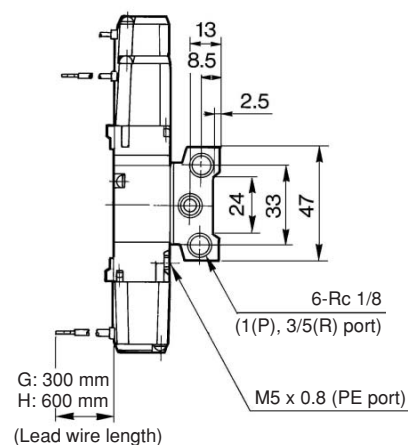
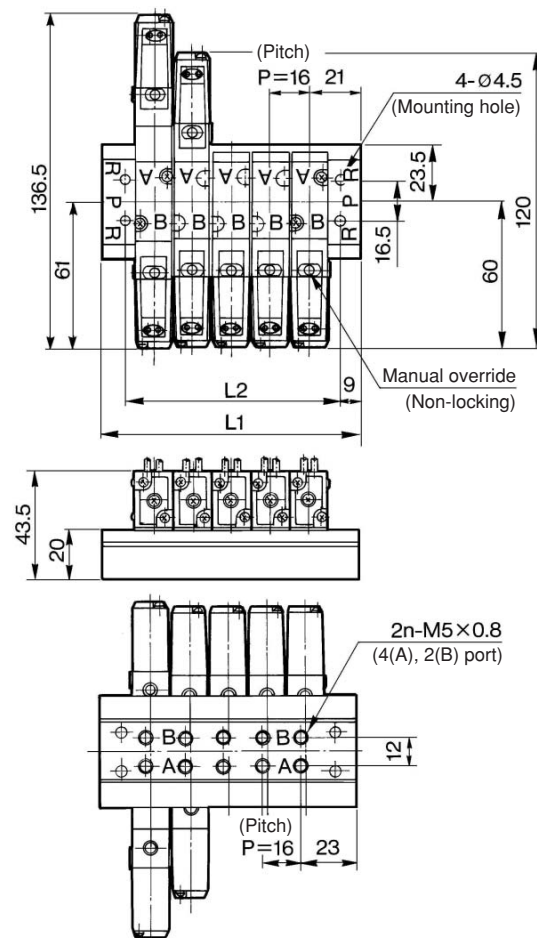
Series VZ3000



Type 40 Manifold: Bottom Ported

VV5Z3-40- Station 2-M5

Grommet (G), (H)



(mm)

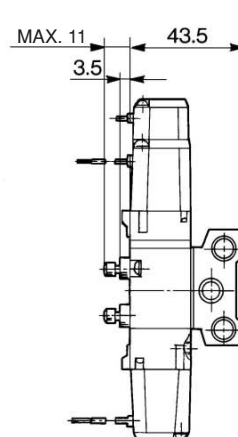
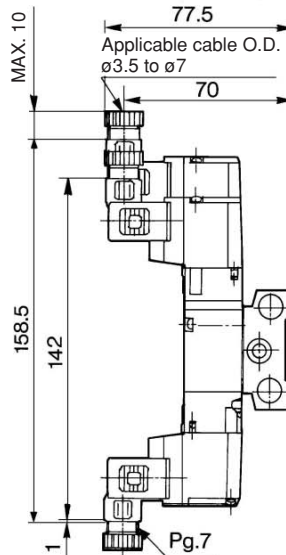
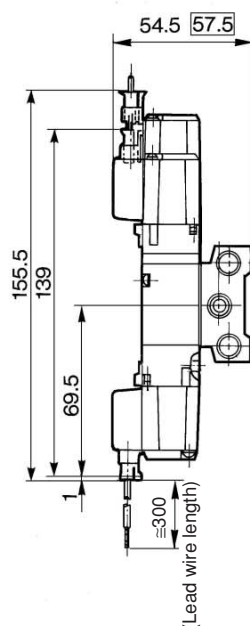
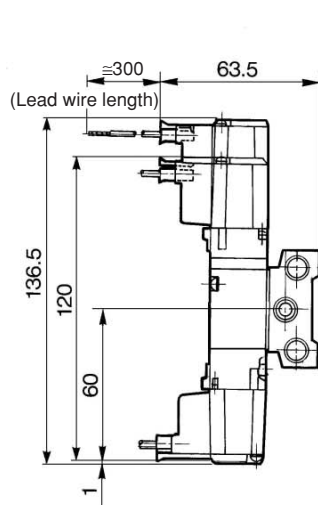
Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	58	74	90	106	122	138	154	170	186	202	218	234	250	266	282	298	314	330	316
L ₂	40	56	72	88	104	120	136	152	168	184	200	216	232	248	264	280	296	312	328

L plug connector (L)

M plug connector (M)

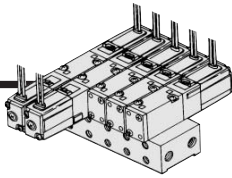
DIN terminal (D)

Built-in speed controllers



□: With light/surge voltage suppressor

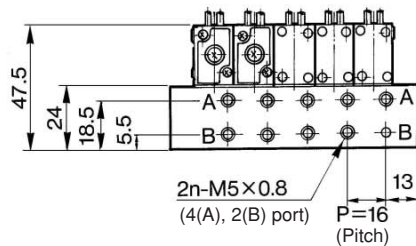
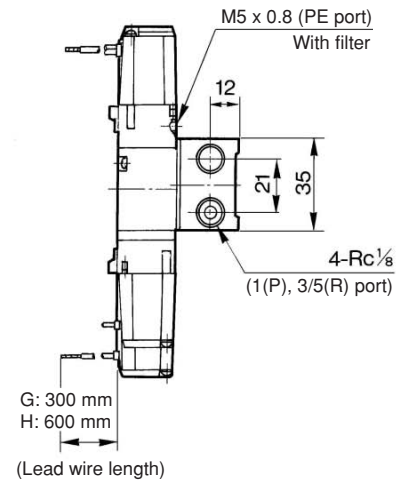
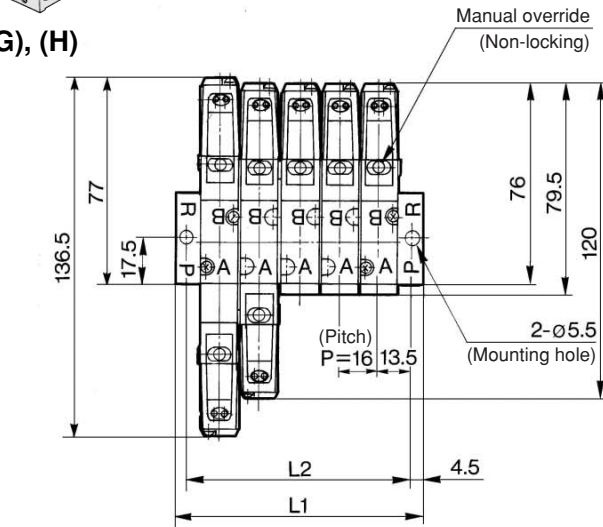
5 Port Solenoid Valve Base Mounted **Series VZ3000**



Type 41 Manifold: Side Ported

VV5Z3-41- Station 1-M5

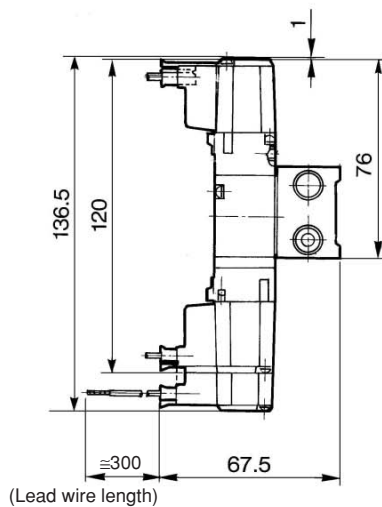
Grommet (G), (H)



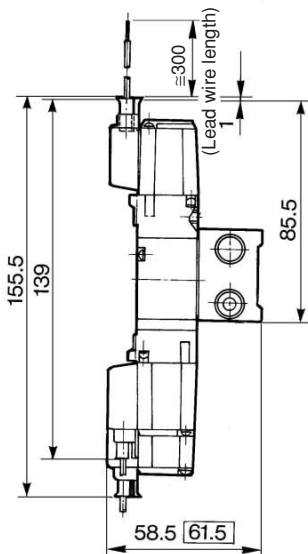
(mm)

Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	52	68	84	100	116	132	148	164	180	196	212	228	244	260	276	292	308	324	340
L ₂	43	59	75	91	107	123	139	155	171	187	203	219	235	251	267	283	299	315	331

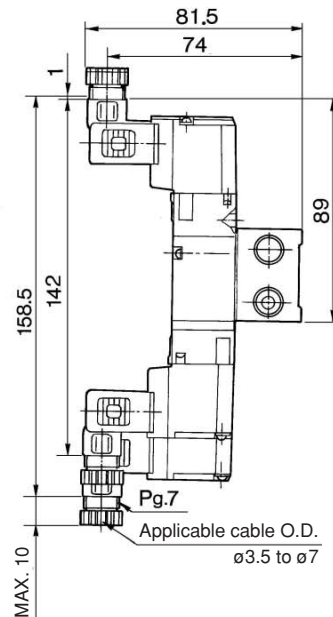
L plug connector (L)



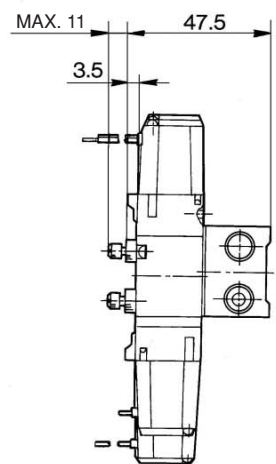
M plug connector (M)



DIN terminal (D)

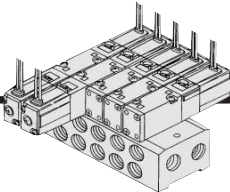


Built-in speed controllers



□: With light/surge voltage suppressor

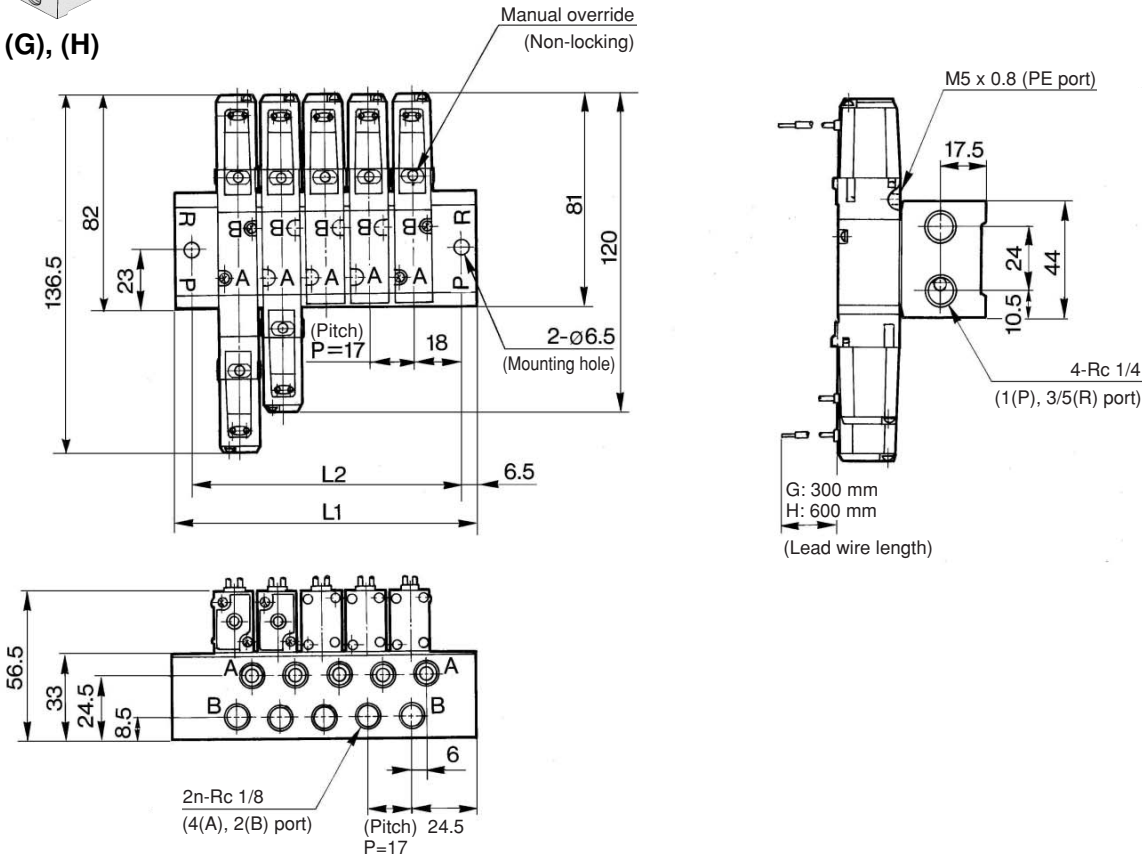
Series VZ3000



Type 42 Manifold: Side Ported

VV5Z3-42- Station 1-01

Grommet (G), (H)



(mm)

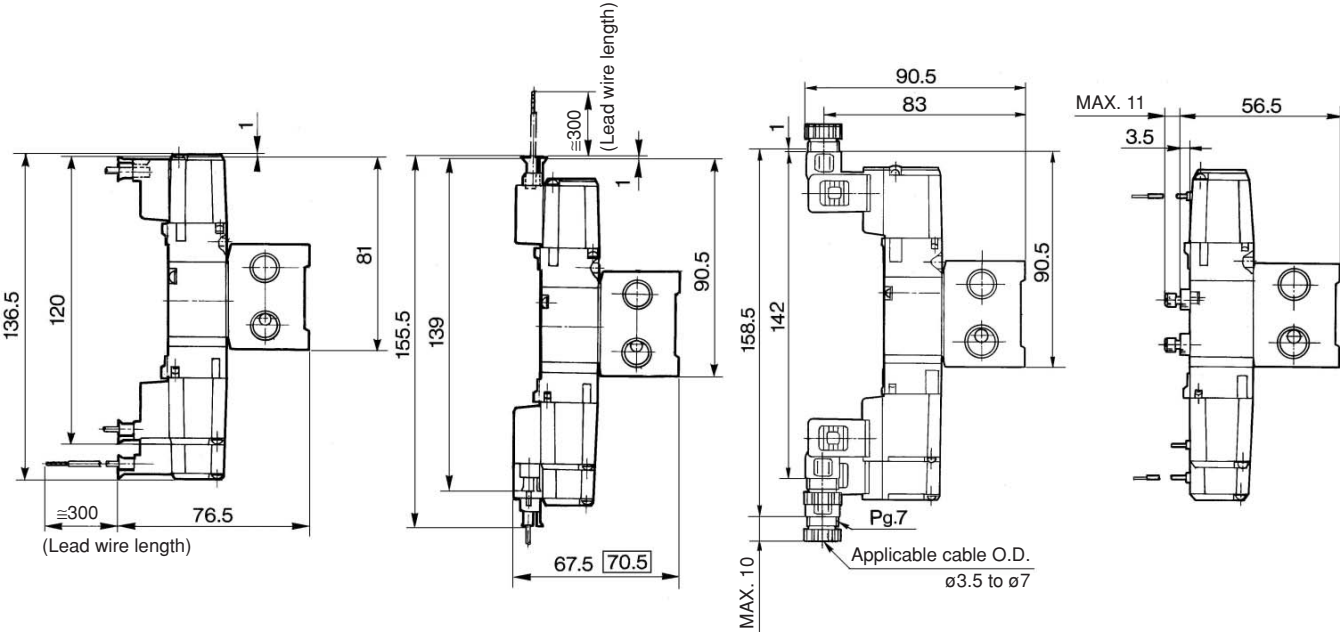
Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	66	83	100	117	134	151	168	185	202	219	236	253	270	287	304	321	338	355	372
L ₂	53	70	87	104	121	138	155	172	189	206	223	240	257	274	291	308	325	342	359

L plug connector (L)

M plug connector (M)

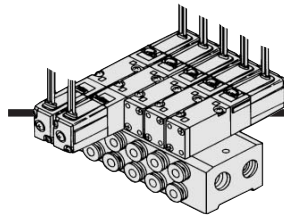
DIN terminal (D)

Built-in speed controllers



□: With light/surge voltage suppressor

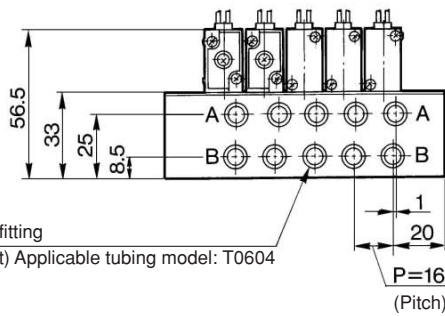
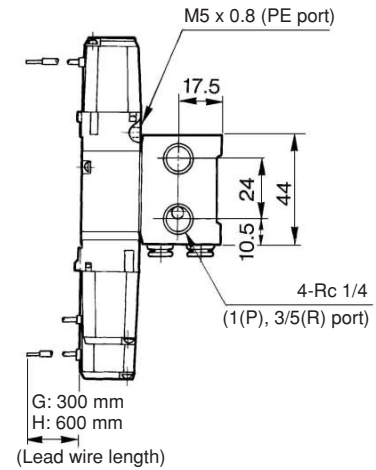
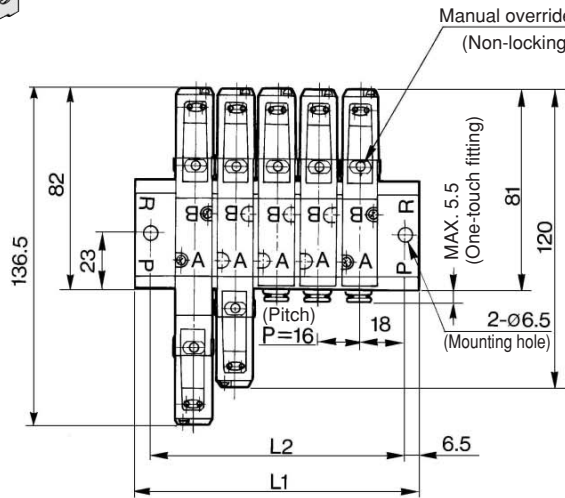
5 Port Solenoid Valve Base Mounted Series VZ3000



Type 42 Manifold: Side Ported

VV5Z3-42- Station 1-C6

Grommet (G), (H)



Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	65	81	97	113	129	145	161	177	193	209	225	241	257	273	289	305	321	337	353
L ₂	52	68	84	100	116	132	148	164	180	196	212	228	244	260	276	292	308	324	340

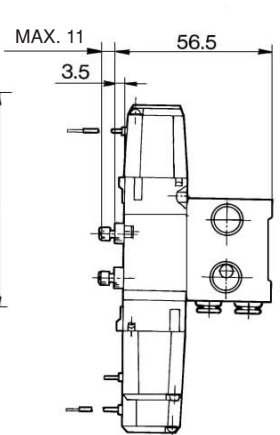
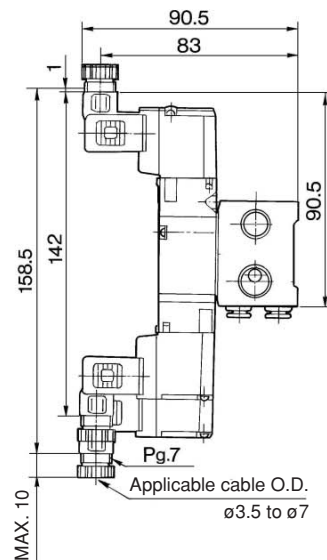
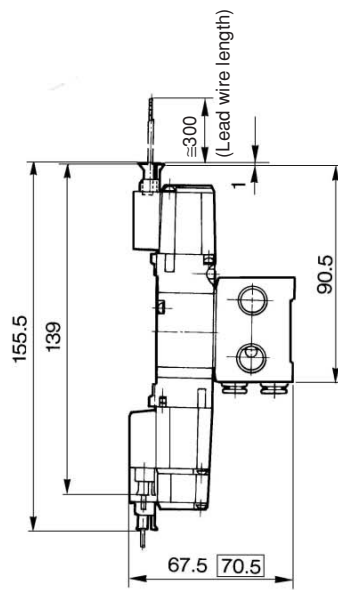
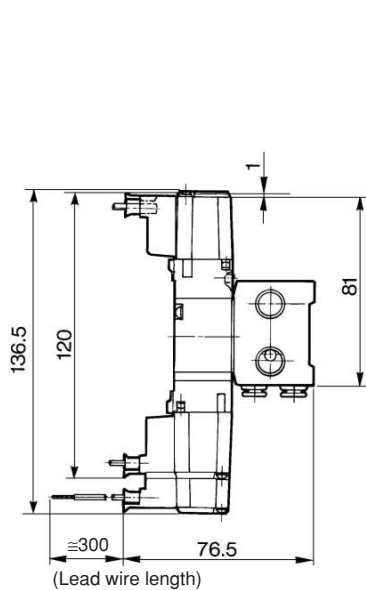
(mm)

L plug connector (L)

M plug connector (M)

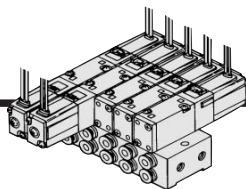
DIN terminal (D)

Built-in speed controllers



□: With light/surge voltage suppressor

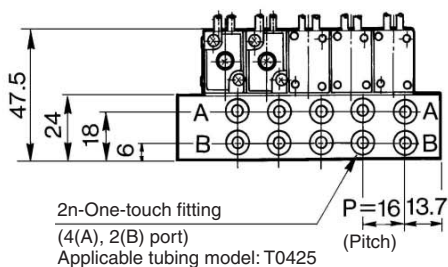
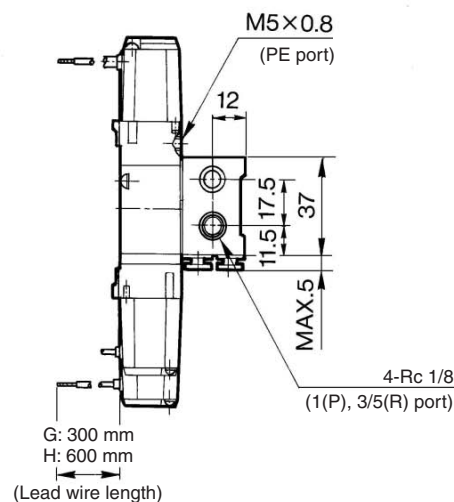
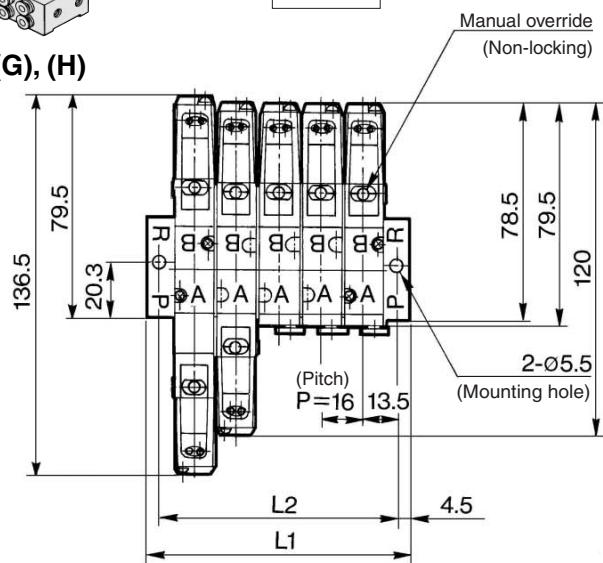
Series VZ3000



Type 43 Manifold: Side Ported

VV5Z3-43- Station 1-C4

Grommet (G), (H)



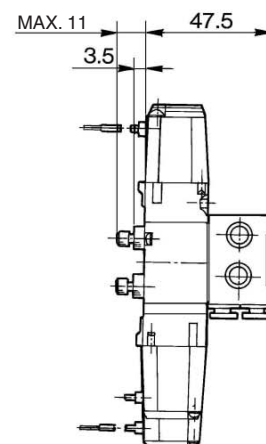
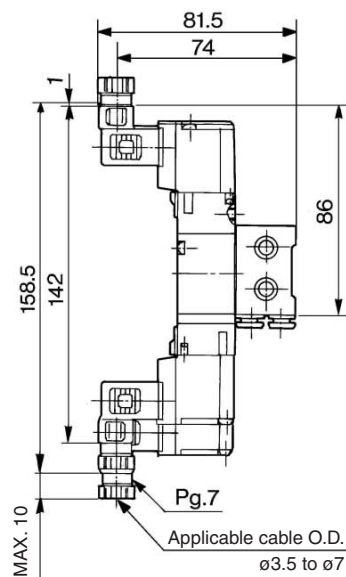
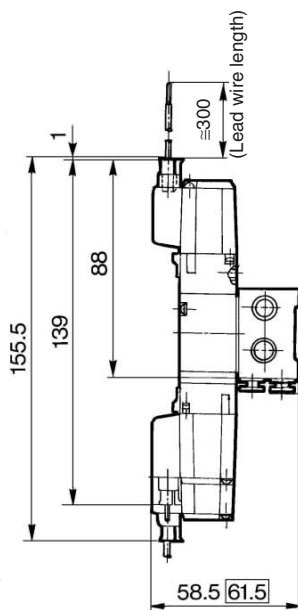
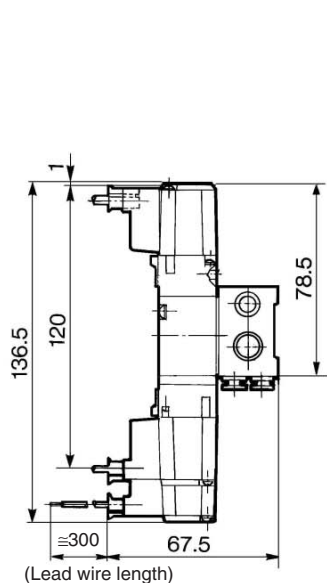
Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	52	68	84	100	116	132	148	164	180	196	212	228	244	260	276	292	308	324	340
L ₂	43	59	75	91	107	123	139	155	171	187	203	219	235	251	267	283	299	315	331

L plug connector (L)

M plug connector (M)

DIN terminal (D)

Built-in speed controllers

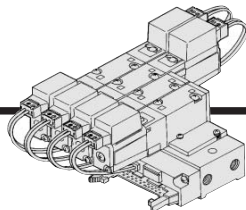


□: With light/surge voltage suppressor

VV5Z3-41P- Station -M5

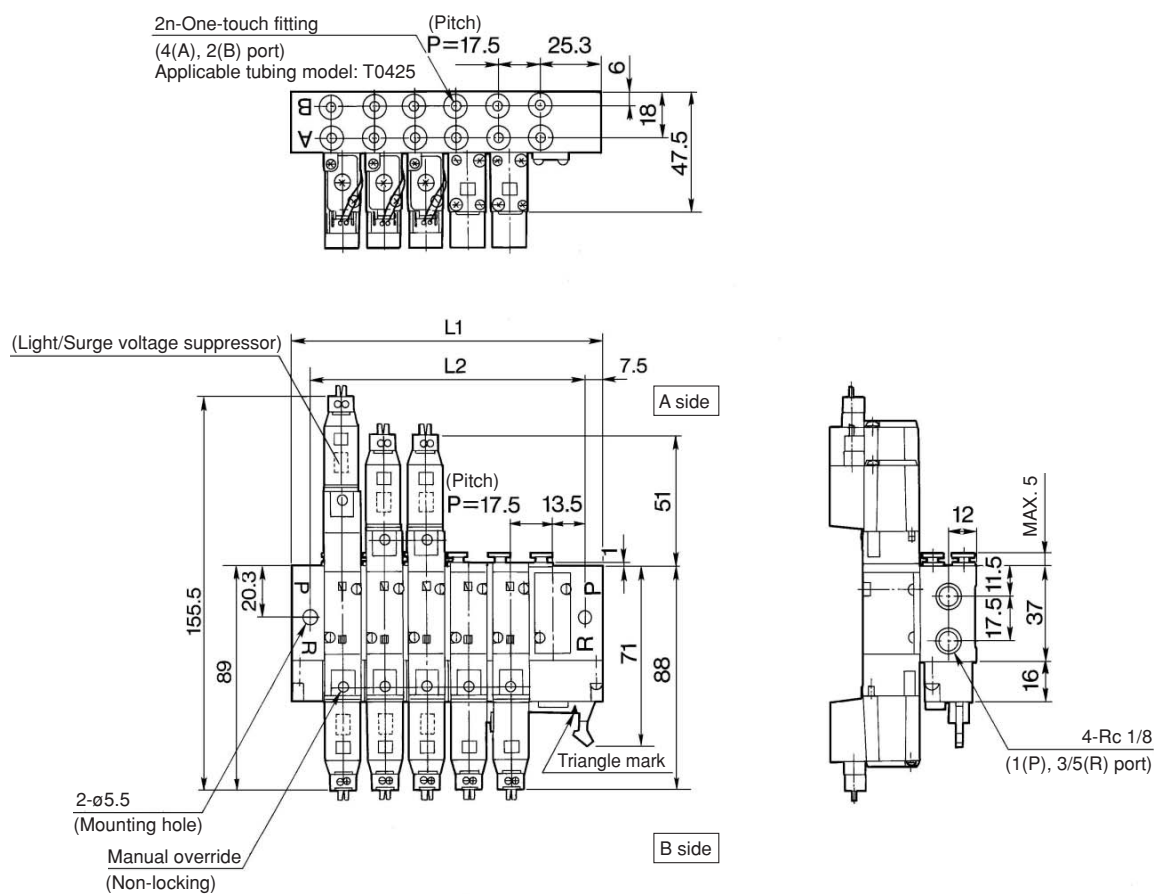


Series VZ3000



Type 43P Flat Ribbon Cable Manifold: Side Ported

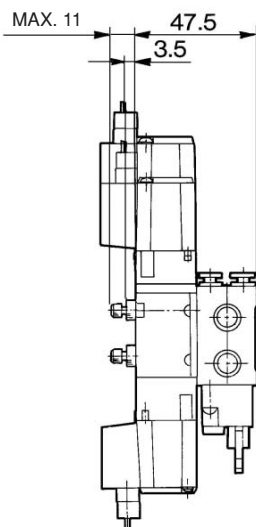
VV5Z3-43P-Station-C4



Built-in speed controllers

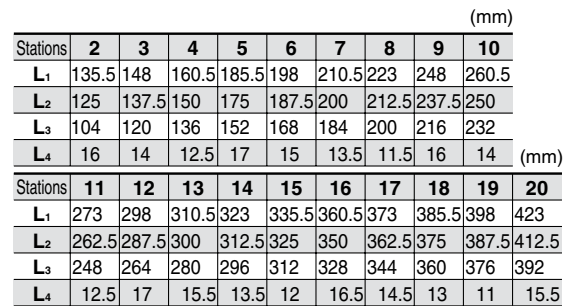
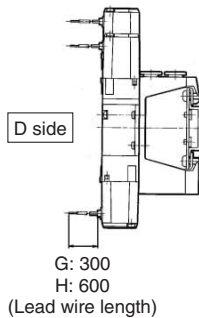
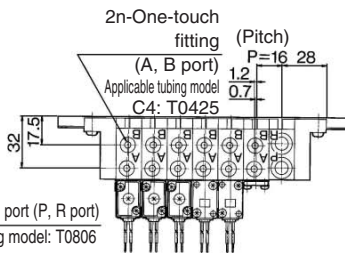
(mm)

Stations	3	4	5	6	7	8	9	10	11	12
L ₁	77	94.5	112	129.5	147	164.5	182	199.5	217	234.5
L ₂	62	79.5	97	114.5	132	149.5	167	184.5	202	219.5



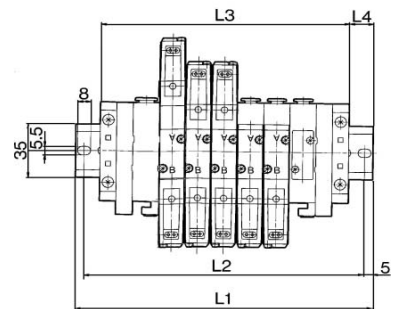
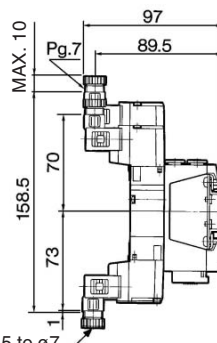
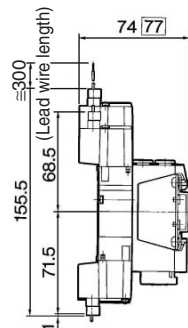
VV5Z3-45-Station D-C4C
C6C

C4



VV5Z3-45-Station U-
C4C
C6C

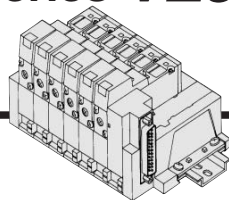
(Pitch)
28 P=16



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

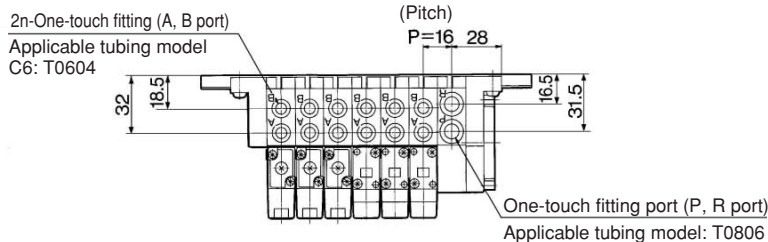


Series VZ3000

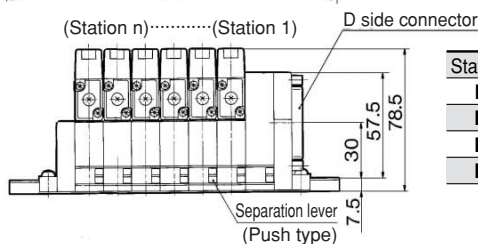
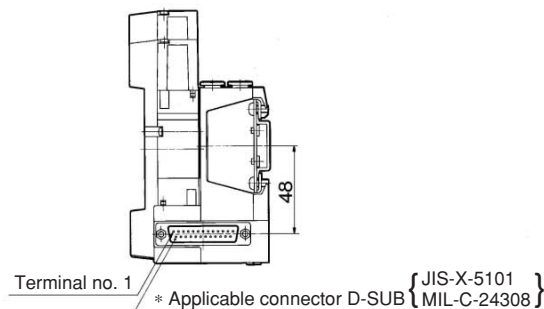
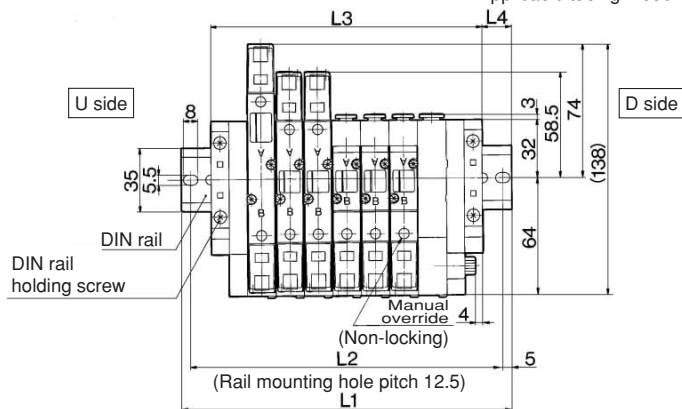
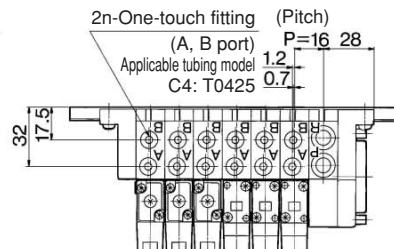


Type 45F DIN Rail Manifold (Non Plug-in): Side Ported

VV5Z3-45FD-Station - C4C
C6C



C4

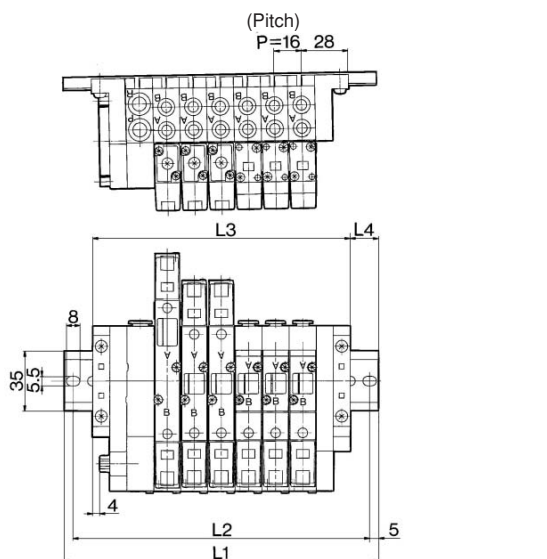


Stations	2	3	4	5	6	7	8	9	10
L ₁	110.5	135.5	148	160.5	185.5	198	210.5	223	248
L ₂	100	125	137.5	150	175	187.5	200	212.5	237.5
L ₃	88	104	120	136	152	168	184	200	216
L ₄	11.5	16	14	12.5	17	15	13.5	11.5	16

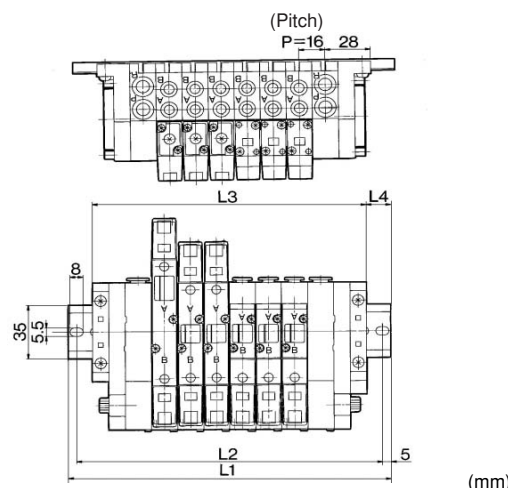
VV5Z3-45F_D-Station - C4C
C6C (2 to 10 stations)

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

VV5Z3-45FU-Station - C4C
C6C



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



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

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

Series VZ

Made to Order Specifications:

Please contact SMC for detailed specifications, dimensions, and delivery.

1. Solenoid Valve: External Pilot Specifications

Applicable solenoid valve series

VZ3000/5000

(Non plug-in type only)

Model no.

VZ³₅ 0- (-) - X20

Entry is the same as standard products.

Specifications

Operating pressure range (MPa)	Main pressure	-100 kPa to 0.7
	External pilot pressure	0.15 to 0.7
Pilot exhaust method		Pilot valve individual exhaust

Dimensions

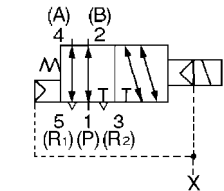
VZ3000: 8 mm longer

VZ5000: 8 mm longer

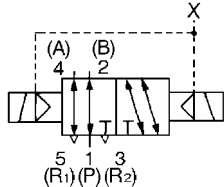
JIS Symbol

Body ported

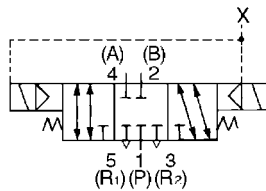
2 position single



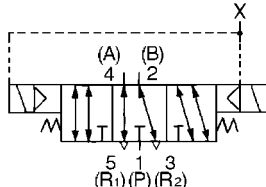
2 position double



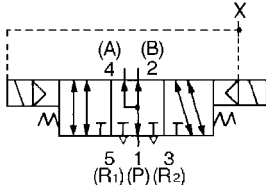
3 position closed center



3 position exhaust center



3 position pressure center



VK

VZ

VF

VFR

VP4

VZS

VFS

VS4

VQ7

EVS

VFN

Made to Order Specifications:

Please contact SMC for detailed specifications, dimensions, and delivery.

4. Manifold: Common SUP/Individual EXH Type

Applicable solenoid valve series

VZ3000

Common SUP/Individual EXH type

VV5Z3-21-□3

Specification

Common SUP/Individual EXH type	
1(P) port	Rc 1/8
3/5(R) port	M5 x 0.8
4(A), 2(B) port	Valve

Model no.

VV5Z3-21-05 3-

Stations	
02	2 stations
:	:
20	20 stations

**P port
thread type**

Nil	Rc
00F	G
00N	NPT
00T	NPTF

Applicable solenoid valve

VZ3□2□-□
G
L
M
D
□□-
M5
C4
C6

Applicable blanking plate assembly

DXT192-13-1A

Applicable throttle valve

DXT154-34-1A

Applicable silencer

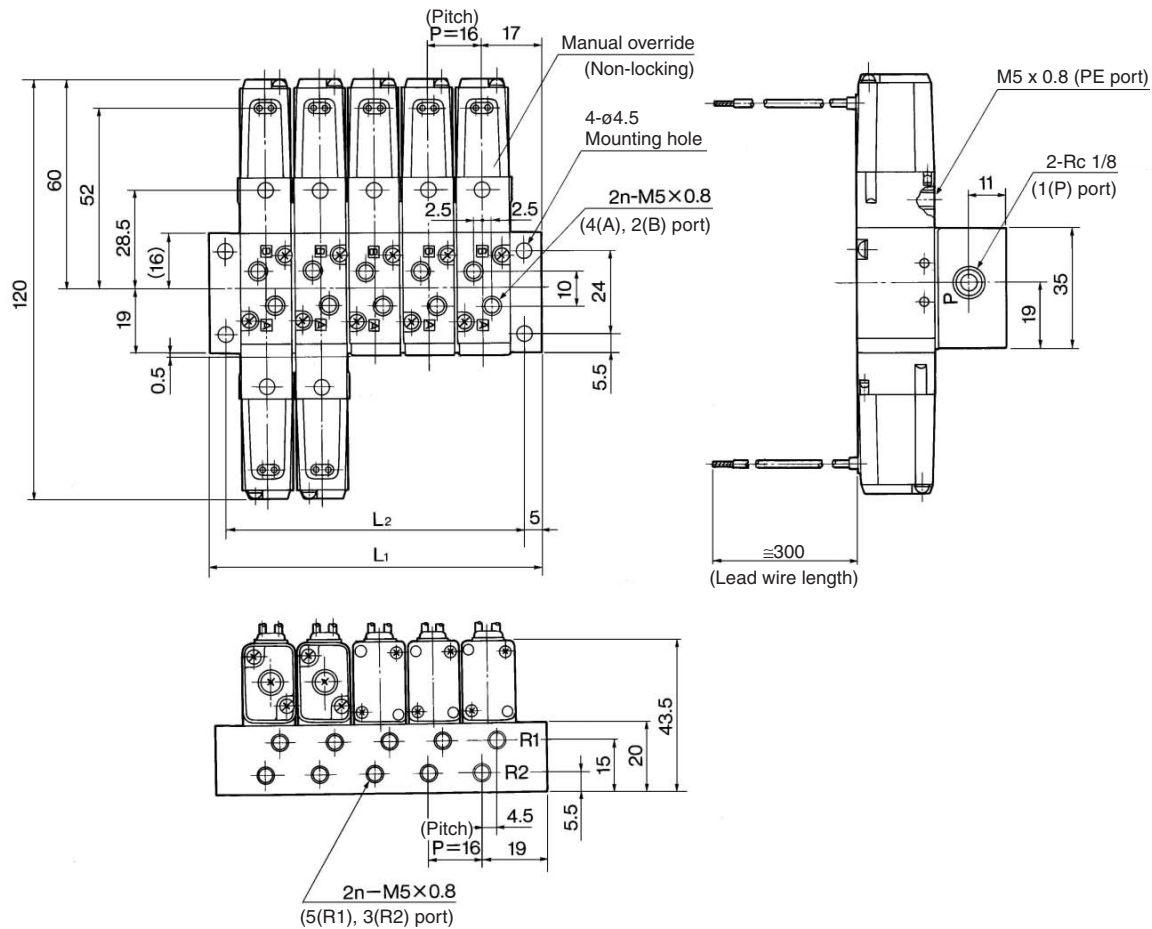
AN120-M5

Note) Refer to page 3-3-25
for manifold option.

Dimensions: Grommet Type



Note) To use the VZ3□23 with a throttle valve mounted on it, open the throttle valve one turn or more from the fully closed position.



(5(R1), 3(R2) port) (mm)

Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	50	66	82	98	114	130	146	162	178	194	210	226	242	258	274	290	306	322	338
L ₂	40	56	72	88	104	120	136	152	168	184	200	216	232	248	264	280	296	312	328