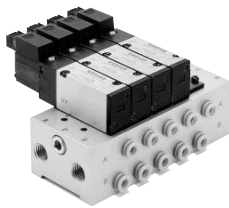
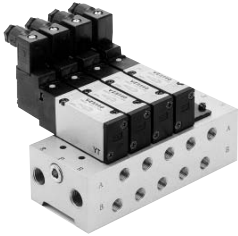


Series VZ5000/Base Mounted Manifold Specifications

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	
1(P), 3/5(R) port		Rc 1/4		
Port size	4(A), 2(B) port	Rc 1/8		01 (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.

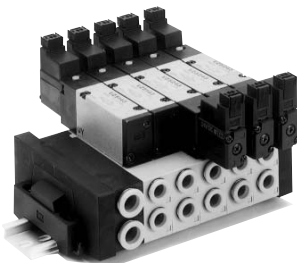
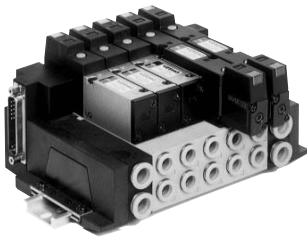
(Example) VV5Z5-41-031-01.....1 pc. (Manifold base)

*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	
1(P), 3/5(R) port		C10 (One-touch fitting for ø10)	
Port size	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)

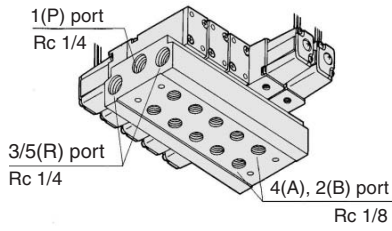
*VZ5000-65-1A.....1 pc. (Blanking plate assembly)

↳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

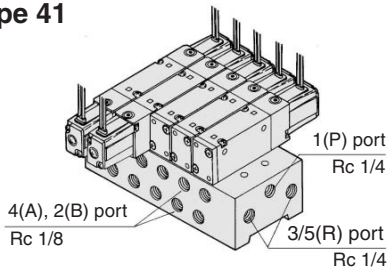
VS4

VQ7

EVS

VFN

Type 41



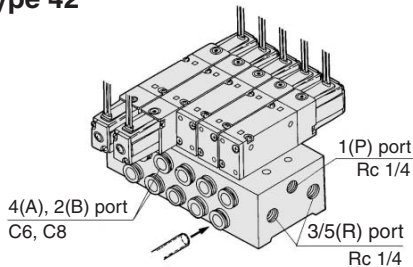
How to Order

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

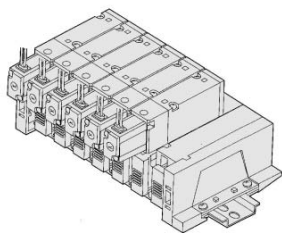
Stations	A, B port size	P, R port thread type
02 2 stations	C6 One-touch fitting for ø6	Nil Rc
⋮	C8 One-touch fitting for ø8	F G
20 20 stations	B7 One-touch fitting for 1/4"	N NPT
	B9 One-touch fitting for 5/16"	T NPTF

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

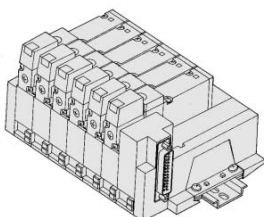
VZ5□4□-□□□□
G
D

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

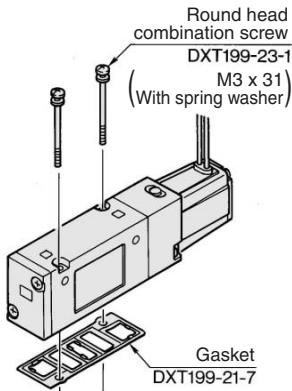
DIN rail length specified

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

Series VZ5000

Option/Standard Manifold

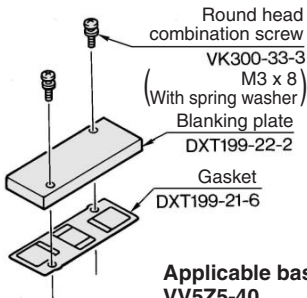
Combinations of Solenoid Valve, Manifold Gasket and Manifold Base



Applicable base
VV5Z5-40
VV5Z5-41
VV5Z5-42

Blanking Plate Assembly

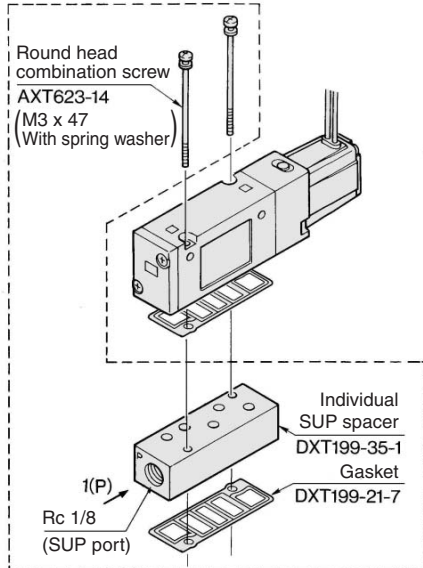
DXT199-22-1A



Applicable base
VV5Z5-40
VV5Z5-41
VV5Z5-42

Individual SUP Spacer Assembly

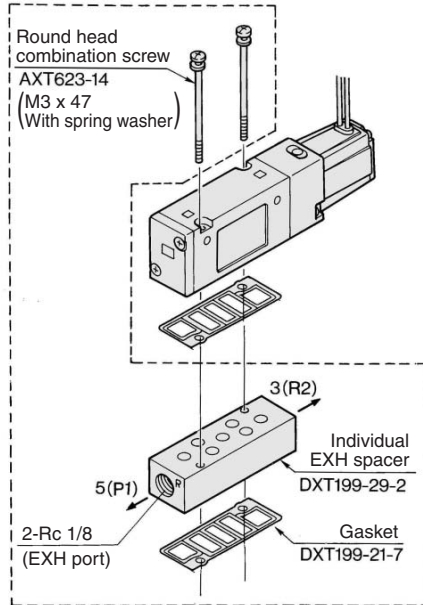
DXT199-35-1A



Applicable base
VV5Z5-40
VV5Z5-41
VV5Z5-42

Individual EXH Spacer Assembly

DXT199-29-2A

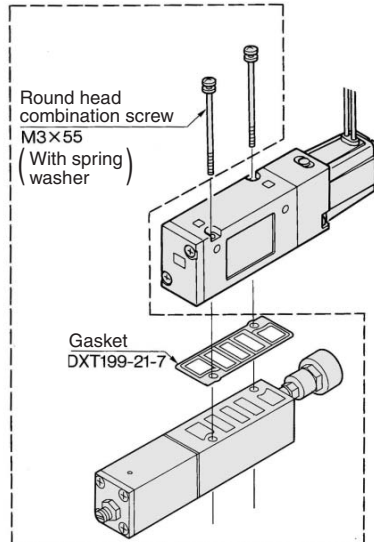


Applicable base
VV5Z5-40
VV5Z5-41
VV5Z5-42

Interface Regulator (P port regulation)

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

ARBZ5000-00-P



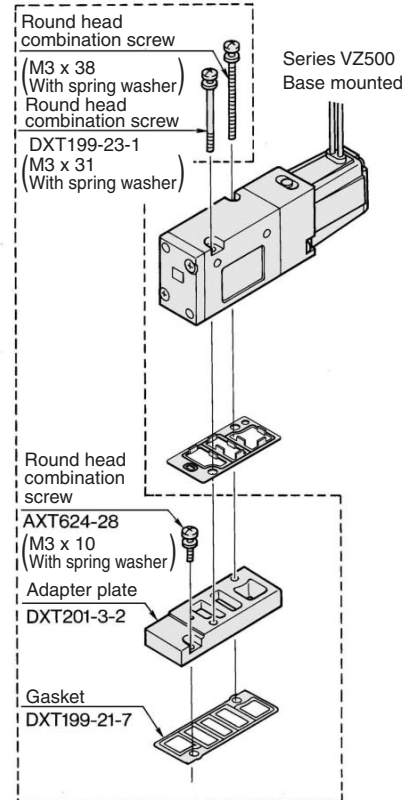
Before using, refer to page 3-3-8.

Applicable base
VV5Z5-40
VV5Z5-41
VV5Z5-42

Installation of the VZ500 Valve on the VZ5000 Manifold

- Use of an adaptor plate makes it possible to mount Series VZ500 on the manifold base of Series VZ5000.
- 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 VZ5000.
- In the case of base mounting, 2(A) port of 3 port valve should be 2(B) port of manifold base.

Adapter Plate Assembly DXT201-3-2A



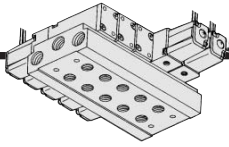
Applicable base
VV5Z5-40
VV5Z5-41
VV5Z5-42

⚠ Caution

Mounting Screw Tightening Torques

M3: 0.8 N·m

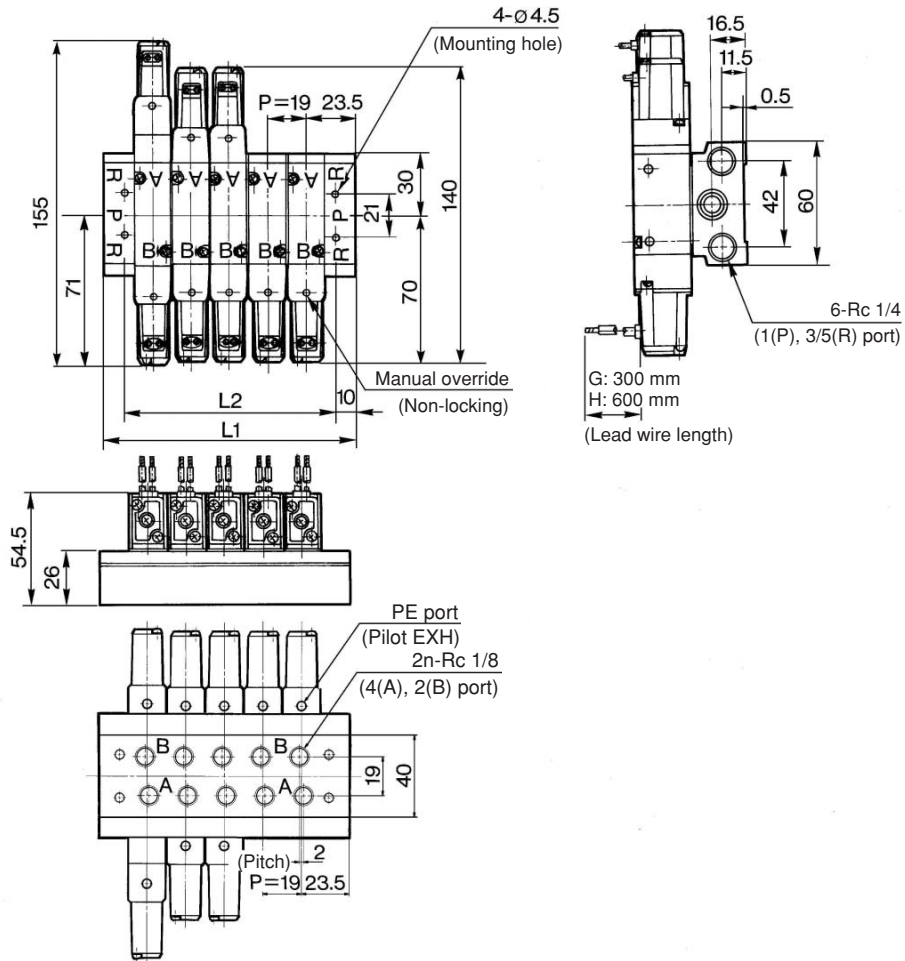
Series VZ5000



Type 40 Manifold: Bottom Ported

VV525-40-Station 2-01

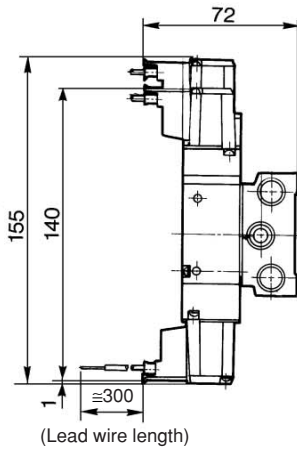
Grommet (G), (H)



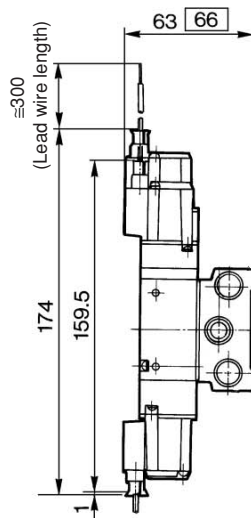
Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	66	85	104	123	142	161	180	199	218	237	256	275	294	313	332	351	370	389	408
L ₂	46	65	84	103	122	141	160	179	198	217	236	255	274	293	312	331	350	369	388

(mm)

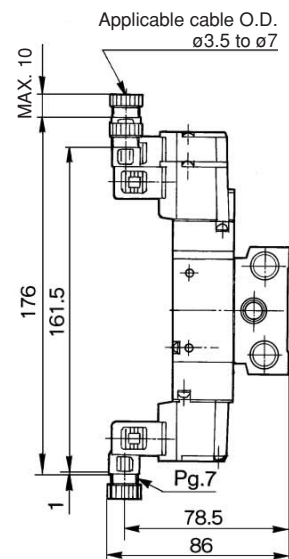
L plug connector (L)



M plug connector (M)

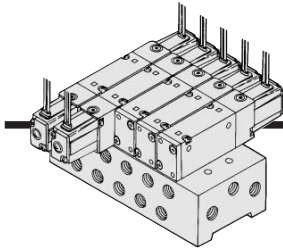


DIN terminal (D)



□: With light/surge voltage suppressor

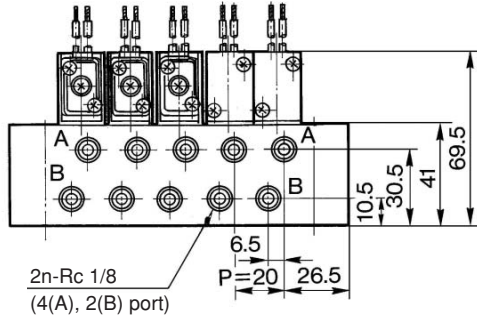
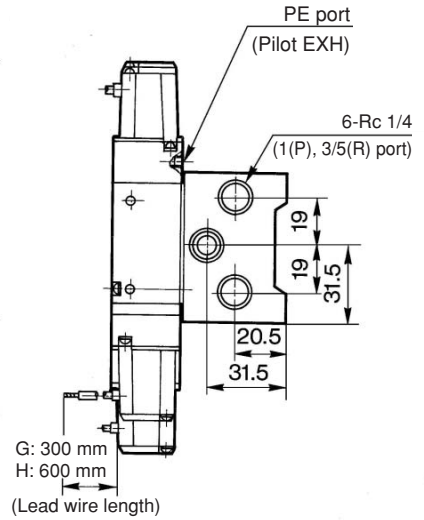
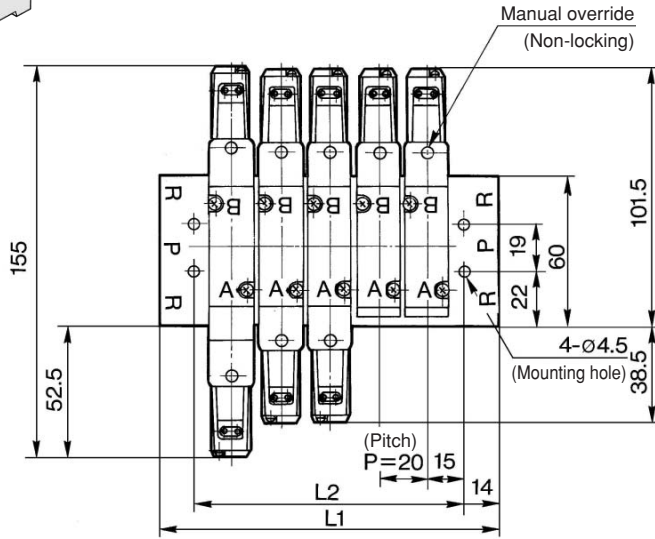
5 Port Solenoid Valve Base Mounted Series VZ5000



Type 41 Manifold: Side Ported

VV525-41-Station 1-01

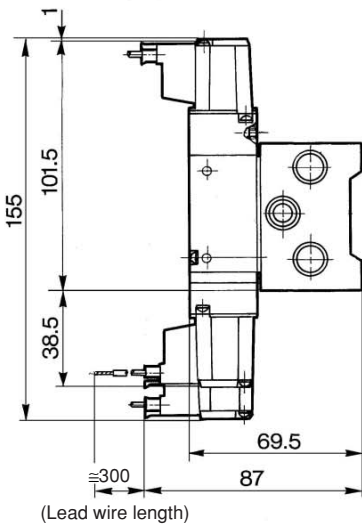
Grommet (G), (H)



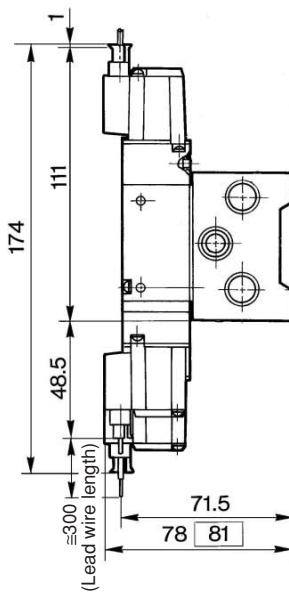
- VK
- VZ
- VF
- VFR
- VP4
- VZS
- VFS
- VS4
- VQ7
- EVS
- VFN

Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	78	98	118	138	158	178	198	218	238	258	278	298	318	338	358	378	398	418	438
L ₂	50	70	90	110	130	150	170	190	210	230	250	270	290	310	330	350	370	390	410

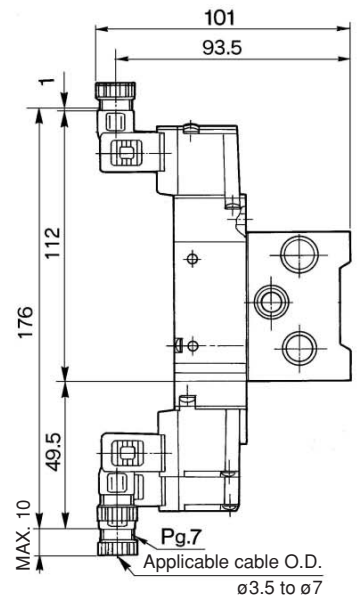
L plug connector (L)



M plug connector (M)



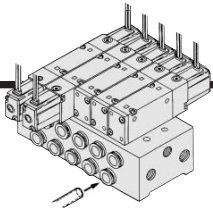
DIN terminal (D)



□: With light/surge voltage suppressor

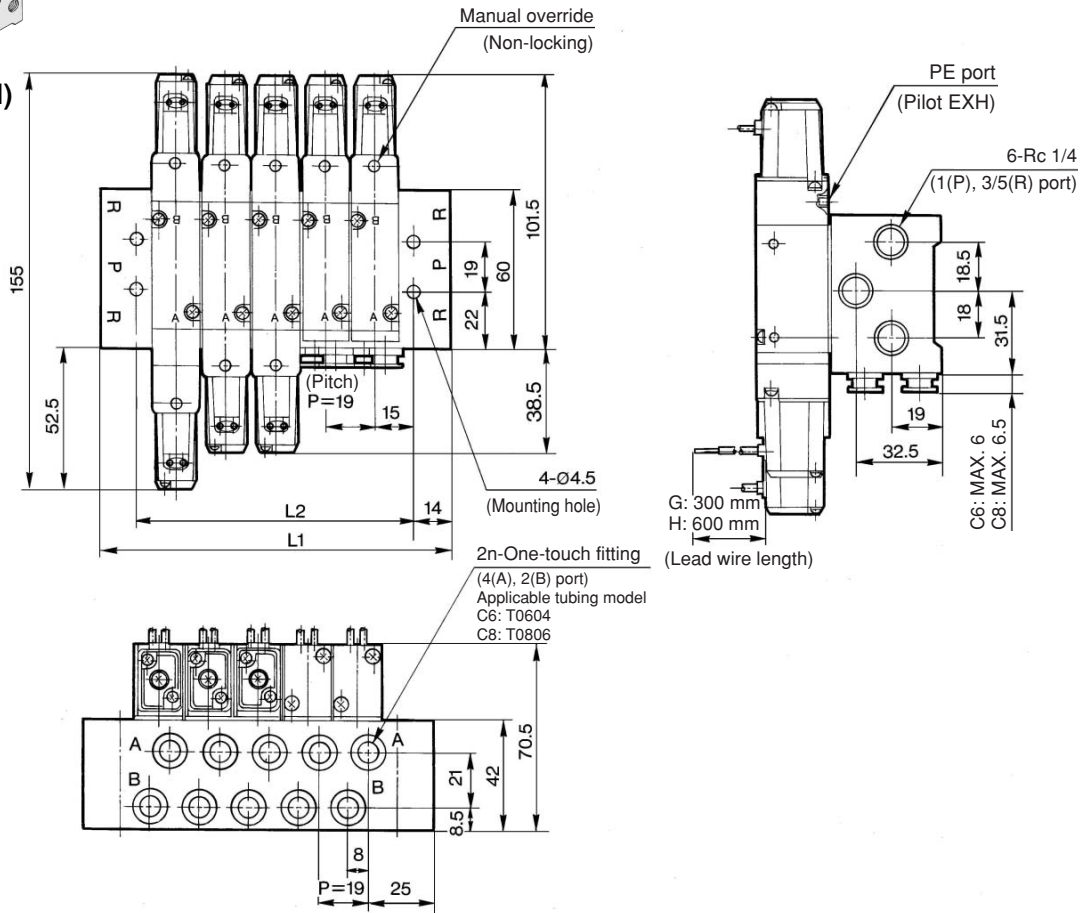
Series VZ5000

Type 42 Manifold: Side Ported



VV5Z5-42-Station 1- $\overset{C6}{\square}$ $\overset{C8}{\square}$

Grommet (G), (H)



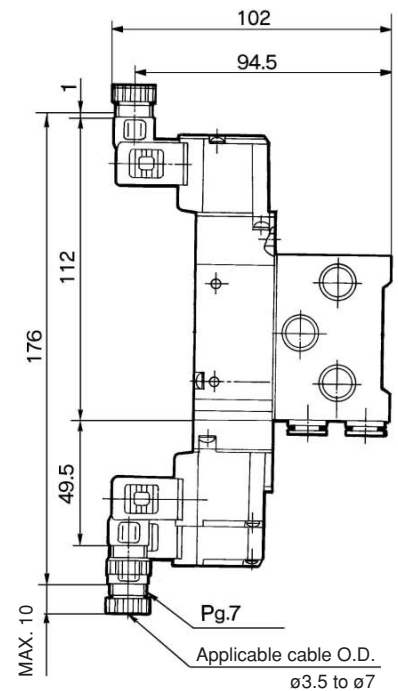
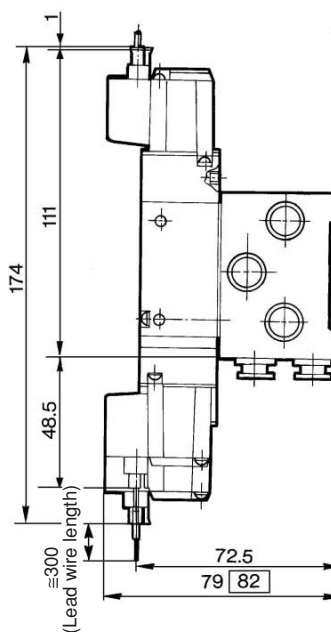
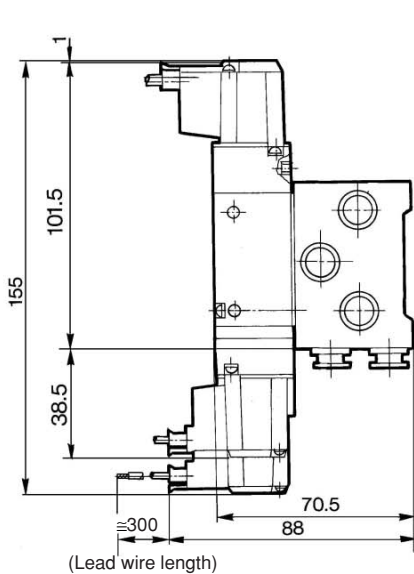
Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	77	96	115	134	153	172	191	210	229	248	267	286	305	324	343	362	381	400	419
L ₂	49	68	87	106	125	144	163	182	201	220	239	258	277	296	315	334	353	372	391

(mm)

L plug connector (L)

M plug connector (M)

DIN terminal (D)



□: With light/surge voltage suppressor