Series VZ100

Manifold Specifications



Manifold Specifications

Model		VV3Z1-01-□1	VV4Z1-20-□1				
Manifold type		Single base/B mount					
P(SUP)/R(EXH)		Common SUP/Common EXH					
Valve stations		2 to 20 stations (1)					
A port	Location	Valve					
Porting specifications	Direction	Тор					
Port size	1(P), 3(R) port	M5 x 0.8	Rc 1/8				
FULL SIZE	2(A) port	M5 x 0.8					

Note 1) If there are more than 10 stations, exhaust from both sides of manifold.

Note 2) Not able to use VZ120 and VZ110 on the same manifold base.

Note 3) In the case of VZ120, supply air to 3 (R) port and exhaust from 1(P) port.

Flow Characteristics

Dowt	-!	Flow characteristics										
Port	size	1 → 2 (F	$P \rightarrow A$)	$2 \rightarrow 3 (A \rightarrow R)$							
1(P), 3(R)	A, B	C [dm ³ /(s-har)]	b	Cv	C [dm ³ /(s-har)]	b	Cv					
		. , ,,	0.13	0.03	. ,,	0.074	0.048					
			-				0.052					
		Port Port M5 x 0.8	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Port size 1 → 2 (P → A) 1(P), 3(R) A, B C [dm ³ /(s·bar)] b M5 x 0.8 M5 x 0.8 0.13 0.13			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					

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) VV3Z1-01-031·······1 pc. (Manifold base)

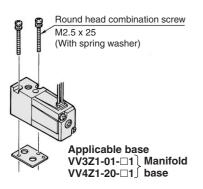
*VZ110-5LZ-M5.....2 pcs. (Valve)

*DXT170-25-1A......1 pc. (Blanking plate assembly)

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

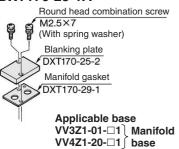
Option

Combinations of Solenoid Valve, Gasket and Manifold



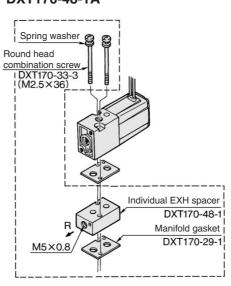
Blanking Plate Assembly

DXT170-25-1A



Individual EXH Spacer Assembly

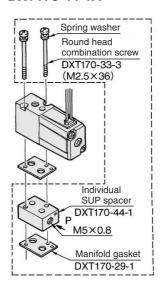
DXT170-48-1A



Applicable base VV3Z1-01-□1 Manifold VV4Z1-20-□1 base

Individual SUP Spacer Assembly

DXT170-44-1A



Applicable base VV3Z1-01-□1 Manifold VV4Z1-20-□1 base

⚠ Caution Mounting Screw Tightening Torques

M2.5: 0.45 N·m

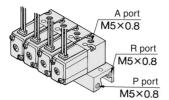
⚠ Warning

When mounting a solenoid valve on the manifold base or sub-plate, etc., the mounting direction is determined. If mounted in the wrong direction, the equipment to be wired might result in malfunction. Refer to dimensions of this catalog and use caution to the mounting direction.



3 Port Solenoid Valve Rubber Seal, Body Ported Series VZ100





How to Order

VV3Z1 - 01 - 05 1 - Option

Stations

Option

F: With foot bracket

20 20 stations

* Bracket is not mounted.

Note) • If there are more than 10 stations,

the same manifold base.

exhaust from both sides of manifold.
It is not able to use VZ110 and VZ120 on

VZ120-□□□-M5
Applicable blanking plate assembly
DXT170-25-1A
Individual EXH spacer assembly
DXT170-48-1A
Individual SUP spacer assembly
DXT170-44-1A

Applicable solenoid valve

VZ110-□□□-M5

V100

SY

SYJ

VK

٧Z

۷P

۷G

۷P

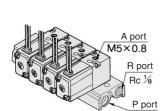
S070

VQ

VKF

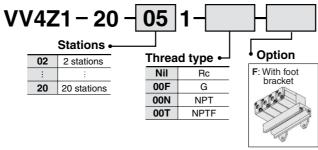
VQZ

Type 20



Rc 1/8

How to Order



Applicable solenoid valve VZ110-□□□-M5

VZ120-□□□-M5

Applicable blanking plate assembly DXT170-25-1A

Individual EXH Spacer assembly DXT170-48-1A

Individual SUP Spacer assembly DXT170-44-1A

* Bracket is not mounted.

- Note) If there are more than 10 stations, supply air to SUP port on both sides of the manifold and exhaust from EXH port on both sides of the manifold.
 - It is not able to use VZ110 and VZ120 on the same manifold base.

Bracket is not mounted.

٧Z

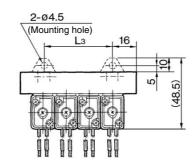
٧S

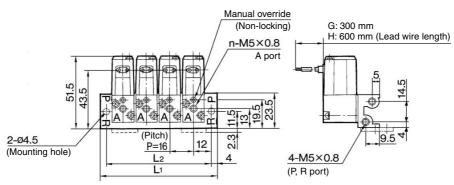
VFN

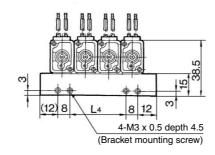
Series VZ100

Type 01 Manifold: Top Ported

VV3Z-01-Stations 1(-F) Grommet (G), (H)





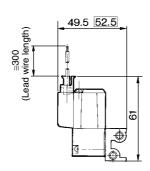


Stations n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	48	64	80	96	112	128	144	160	176	192	208	224	241	256	272	288	304	320	336
L2	40	56	72	88	104	120	136	152	168	184	200	216	232	248	264	280	296	312	328
L3	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304
L4	8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248	264	280	296

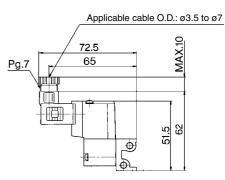
L plug connector (L)

58.5 (Lead wire length)

M plug connector (M)



DIN terminal (D)

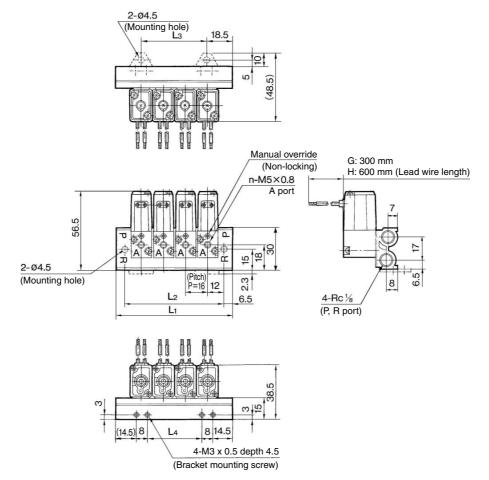




3 Port Solenoid Valve Rubber Seal, Body Ported Series VZ100

Type 20 Manifold: Top Ported

VV4Z1-20-Stations 1(-F) Grommet (G), (H)

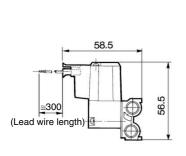


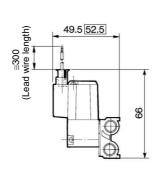
Stations n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L ₁	53	69	85	101	117	133	149	165	181	197	213	229	245	261	277	293	309	325	341
L2	40	56	72	88	104	120	136	152	168	184	200	216	232	248	264	280	296	312	328
L ₃	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304
L4	8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248	264	280	296

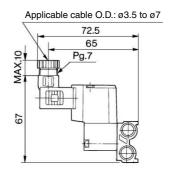
L plug connector (L)

M plug connector (M)

DIN terminal (D)







☐: With light/surge voltage suppressor

4-6-11

V100 SY

SYJ

٧K

٧Z

VT

۷P

VG

VP

S070 VQ

VKF

VQZ

VZ

VS

VFN



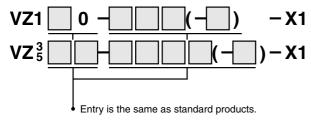
Series VZ

Made to Order Specifications:

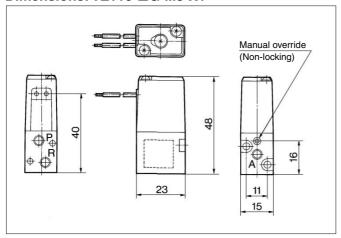
1. Solenoid Valve: Opposite Mounting of Solenoid Assembly

Applicable solenoid valve series VZ100/300/500

Model no.



Dimensions: VZ110-□G-M5-X1

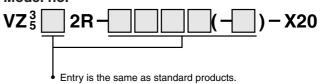


2. Solenoid Valve: External Pilot Specifications

Applicable for individual use of body ported external pilot type

Applicable solenoid valve series

Model no.



Specifications

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

Dimensions

VZ300: 8 mm longer in total length VZ500: 8 mm longer in total length

Dimensions: VZ312R-□G-M5-X20

