Pilot Solenoid

**Air Operated** 





# Intermediate stopping of cylinders up to $\emptyset$ **125** is possible.



## Power consumption: 1 w

3 Manual override options added







VEX

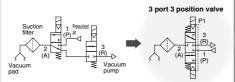
#### **Variations**

		Body size	Port	Flow rate characteristics *1	Applicable cylinder *2			
		Body Size	size	C [dm³/(s·bar)]	ø <b>63</b>	ø <b>80</b>	ø100	ø125
Body ported	VEX312□		1/4	3.5				
Body	VEX332□		3/8	8.7				
mounted	VEX322□	0.3	1/4	4.4				
Basem	VEX342□		1/2	14				

## **Applications**

#### Vacuum suction and release

The 3-port, 3-position double solenoid that permits vacuum suction, release, and suspension (closed) is ideal for a system where many valves are used.

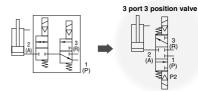


• There is no blow-by when switched from vacuum suction to vacuum release or vice versa.

When maintaining the vacuum of port 2(A), the vacuum may decrease due to leakage from the vacuum pad or piping. Conduct vacuum suction at the vacuum adsorption position. Furthermore, it cannot be used as an emergency cutoff valve.

#### Intermediate cylinder stops

3-position closed center type. A system with a more simple design, but the same size, is now available.



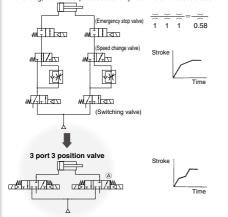
A large capacity system without connection loss

0.71 (Valves and piping can be made smaller.)

## Terminal deceleration and an intermediate speed change circuit can be produced easily.

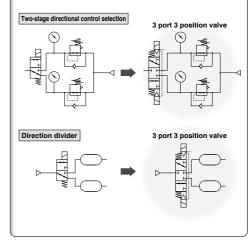
The simple system configuration permits sharp response. The large capacity system configuration without connection loss allows the use of smaller valves and piping.

• For example, when solenoid (b) of valve (A) is turned off while the cylinder is extending, the exhaust port closes and cylinder movement decelerates.



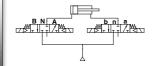
## Universal porting could be used as a selector/divider valve.

The pressure balancing poppet valve that permits any flow direction allows sequential switching operation, preventing blow-by and air entrainment.



## For operation control of double acting cylinders

Two 3-port 3-position valves driven by a double acting cylinder allow operation control in 9 positions (3 positions x 3 positions = 9 positions) including slow stopping, acceleration, and deceleration.







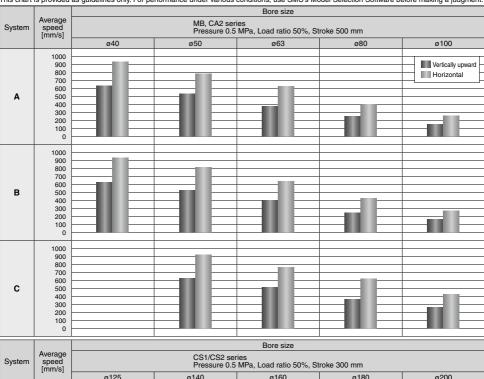
Pressure & closed center Exhaust & 6 closed center

Slow stopping or deceleration

↑ Caution • This valve allows air leakage, and thus cannot be used for long term intermediate stops.

# **Cylinder Speed Chart**

This chart is provided as guidelines only. For performance under various conditions, use SMC's Model Selection Software before making a judgment.



				DOTO SIZO		
System	Average speed [mm/s]		CS1/CS2 ser Pressure 0.5	ries MPa, Load ratio 50%, St	roke 300 mm	
		ø125	ø140	ø160	ø180	ø200
D	600 500 400 300 200 100					mili

- \* Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open.
- \* The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.
- \* The load ratio is obtained by the following formula: ((Load mass x 9.8)/Theoretical output) x 100%

#### Conditions

System	Solenoid valve	Speed controller	Silencer	Tubing diameter x Length	
Α	VEX312□-02	AS4000-02	AN20-02	ø10 x 1 m	
В	VEA3220-02	A54000-02	AN20-02	ø12 x 1 m	
С	VEX332□-03	AS420-03	AN30-03	ø12 x 1 m	
D	VEA342=04	AS420-04		SGP15A x 1 m	

# 3 Port 3 Position Valve **Body Ported VEX3** Series

## How to Order

Thread type Nil F

G

NPT

NPTF

100 VAC (50/60 Hz)

200 VAC (50/60 Hz)

110 VAC (50/60 Hz)

220 VAC (50/60 Hz)

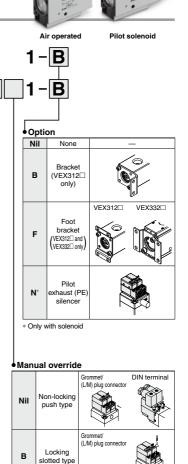
24 VDC

12 VDC 6 VDC

5 VDC

3 VDC

Rated voltage



DIN terminal

DIN terminal

#### Electrical entry Grommet M plug connector DIN terminal G: Lead wire L: With lead wire M: With lead wire MN: Without lead wire D: With connector length 300 mm (Length: 300 mm) (Length: 300 mm) H: Lead wire LN: Without lead wire LO: Without connector MO: Without connector DO: Without connector length 600 mm

2

3

4

5

6

s

Light/surge voltage suppressor

Electric	DC	AC				
Nil	None	•	•			
R	With surge voltage suppressor (Non-polar type)	•	_			
U	With light/surge voltage suppressor (Non-polar type)	•	_			
Z	With light/surge voltage suppressor	_	•			
Electric	Electrical entry for D					
Nil	None	•	•			
S	With surge voltage suppressor	•	_			

€

Air operated **VEX3** 12 0 - 01

Pilot solenoid VEX3 12 2 - 01

Port size

Operation type •

1(P), 2(A), 3(R)

1/8

1/4

1/4

3/8

1/2

\* DC specification of type D and DO is

only available with 12 and 24 VDC.

External pilot solenoid Internal pilot solenoid

Port size

Body size

Port

01

02

02

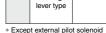
03

size

12

32

With light/surge voltage suppressor \* There is no S option for AC mode, since a rectifier prevents surge voltage generation.



Push-turn

locking slotted type

Push-turn

locking

D

Œ DC

compliant AC

## VEX

# 3 Port 3 Position Valve **Base Mounted VEX3** Series

#### How to Order



None

Pilot exhaust

(PE) silence

Grommet/

Grommet/

(L/M) plug connector

Air operated

Option

Nil

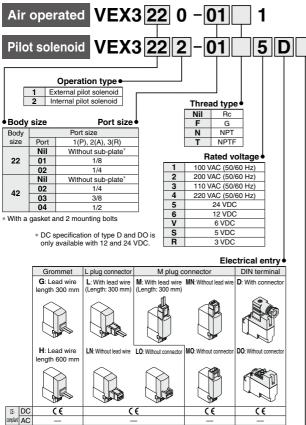
Manual override

Nil

Non-locking

push type

Pilot solenoid

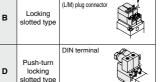


nnortor	DO: Without connector		J	slotted type
<u>,</u>			E*	Push-turn

Light/surge voltage suppressor

	999	P P				
Electric	DC	AC				
Nil	None	•	•			
R	With surge voltage suppressor (Non-polar type)	•	_			
U	With light/surge voltage suppressor (Non-polar type)	•	_			
Z	With light/surge voltage suppressor	_	•			
Electric	Electrical entry for D					
Nil	None	•	•			
S	With surge voltage suppressor	•	_			

With light/surge voltage suppressor \* DOZ is not available.





DIN terminal

lever type



<sup>\*</sup> There is no S option for AC mode, since a rectifier prevents surge voltage generation.

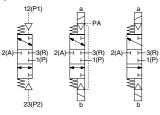
<sup>\*</sup> Except external pilot solenoid

Air operated



Internal pilot solenoid / External pilot solenoid

#### Symbol



Air operated

## **Specifications**

Model	Body ported	VEX312□-01 02	VEX332□-02 03 04		
Model	Base mounted	VEX322□-01 02	VEX342□-02 04		
Operation type		Air operated, External pilot so	lenoid, Internal pilot solenoid		
Fluid		A	ir		
Air operated operating pressure range	Operating pressure range	-101.2 kPa to 1.0			
[MPa]	Pilot pressure range	0.2 to 1.0			
Internal pilot operating press	ure range [MPa]	0.2 to 0.7			
External pilot operating pressure range	Operating pressure range	-101.2 k	Pa to 1.0		
[MPa]	Pilot pressure range	0.2 to	0 0.7		
Ambient and fluid temper	erature	0 to 50°C (Air operated: 60°C)			
Response time (Pilot pres	ssure)	40 ms or less	60 ms or less Note 1)		
Maximum operating free	luency	3 Hz			
Mounting		Free			
Lubrication Note 2)		Not required (Use turbine oil Class 1 ISO VG32, if lubricated.)			

Note 1) 96 ms or less for AC

## **Pilot Solenoid Valve Specifications**

Model				VEX3121, VEX3221, VEX3321, VEX3421 VEX3122, VEX3222, VEX3322, VEX3422			
Pilot valve				V114□, V115□			
Electrical entr	y			Grommet (G), L plug connector (L), M plug connector (M), DIN terminal (D)			
Rated coil	-	AC (50/60	Hz)	100 V, 110 V, 200 V, 220 V			
voltage [V]		DC		3 V, 5 V, 6 V, 12 V, 24 V			
Allowable volt	Allowable voltage fluctuation			-10 to +10% of rated voltage*			
		G. L. M	100 V	0.78 (With indicator light: 0.81)			
			110 V	0.86 (With indicator light: 0.89)			
		G, L, IVI	200 V	1.18 (With indicator light: 1.22)			
Apparent	AC		220 V	1.30 (With indicator light: 1.34)			
power [VA]	AC		100 V	0.78 (With indicator light: 0.87)			
		D	110 V	0.86 (With indicator light: 0.97)			
			200 V	1.15 (With indicator light: 1.30)			
			220 V	1.27 (With indicator light: 1.46)			
Power	DC	G, L	_, M	1.0 (With indicator light: 1.1)			
consumption [W]	DC .	D D		1.0 (With indicator light: 1.1)			

<sup>\*</sup> Allowable voltage fluctuation for S and Z types 24 VDC: -7% to +10% 12 VDC: -4% to +10%

## **⚠** Caution



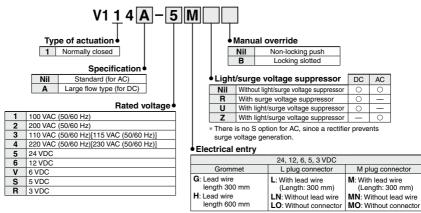
This is not a manual override. Do not press this button, as it can result in damage to the product. This applies to body sizes 1 and 2.

## Flow Rate Characteristics/Weight

			Flow rate characteristics					Weight [kg]				
	Model	Port size	1 1(P) → 2(A)		2(A) → 1(P) 3(I		3(R) -	3(R) → 2(A)		2(A) → 3(R)		(External/ Internal)
		Size	C [dm²/(s-bar)]	b	C [dm <sup>1</sup> /(s-bar)]	b	C [dm³/(s-bar)]	b	C [dm²/(s-bar)]	b	operated	Pilot solenoid
	VEX312□-01	1/8	2.4	0.19	2.4	0.31	2.3	0.36	2.5	0.22	0.1	0.2
Body	VEX312□-02	1/4	3.5	0.35	3.3	0.49	3.1	0.46	3.5	0.33	0.1	0.2
ported	VEX332□-02	1/4	4.1	0.36	4.3	0.42	4.1	0.41	4.6	0.25	0.3	0.4
porteu	VEX332□-03	3/8	8.7	0.29	7.9	0.52	7.8	0.51	8.7	0.33	0.3	0.4
	VEX332□-04	1/2	9.8	0.37	9.6	0.52	9.1	0.53	11	0.37	0.3	0.4
Base	VEX322□-01	1/8	3.3	0.34	3.5	0.39	3.3	0.37	3.5	0.36	0.2	0.3
	VEX322□-02	1/4	4.1	0.28	4.1	0.39	3.8	0.38	4.4	0.23	0.2	0.3
mounted (With	VEX342□-02	1/4	8.1	0.34	7.9	0.39	8.2	0.33	8.1	0.37	0.6	0.7
sub-plate)	VEX342□-03	3/8	12	0.26	12	0.29	12	0.28	13	0.28	0.6	0.7
sub-plate)	VEX342□-04	1/2	13	0.20	13	0.24	12	0.29	14	0.20	0.6	0.7

Note 2) Non-lubricated specification is not available for this product.

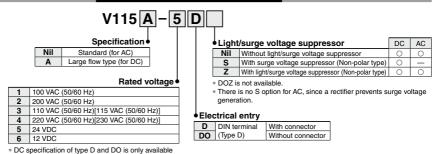
#### How to Order Pilot Valve Assembly



- \* LN and MN types are with 2 sockets.
- \* Refer to page 1737 for the different lead wire lengths of L and M plug connectors.
- \* Refer to page 1738 for the connector assembly with a dustproof cover for L and M plug connectors.

Electrical entry
For DIN terminal

## How to Order Pilot Valve Assembly



# with 12 and 24 VDC. How to Order Sub-plate and Base Gasket

Body size	22	42			
Sub-plate	VEX1 - 9 - 2   A   Port size   Thread type   Symbol   Port size   A   1/8   B   1/4   P   C   F   G   N   NPT   T   NPTF   NPTF   T   NPTF   T	VEX4 - 2A - 1   A   Port size   Thread type			
Base gasket	VEX1-11-2	VEX4-4			

## **Options/Part Number**

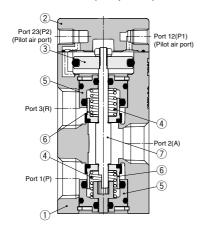
	Part number						
Description	VEX312□-01	VEX322□-01	VEX332□-02 04	VEX342□-02 03 04			
Bracket (With bolt and washer)	В	VEX1-18-1A	_	_	_		
Foot bracket (With bolt and washer)	F	VEX1-18-2A	_	VEX3-32-2A	_		
Pilot exhaust (PE) silencer Note)		AN120-M5					

Note) Only with solenoid

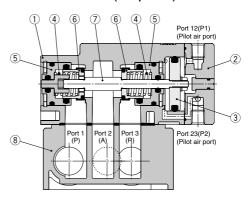


#### Construction

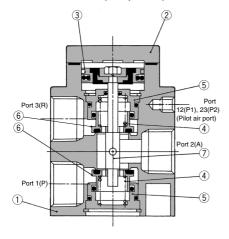
#### VEX3120 (Air operated)



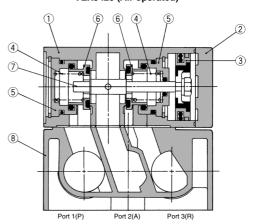
#### VEX3220 (Air operated)



#### VEX3320 (Air operated)



#### VEX3420 (Air operated)



#### **Component Parts**

No.	Description	Material
1	Body	Aluminum alloy
2	Cover	Aluminum alloy
3	Working piston	Aluminum alloy
4	Center spring	Stainless steel
5	Valve guide	Aluminum alloy
6	Poppet valve	Aluminum alloy, Rubber
7	Shaft	Stainless steel
8	Sub-plate (Refer to page 1727.)	Aluminum alloy

#### **Working Principle**

Fig. (1) A ←→ R

3(R) 2(A)

Fig. (2) Closed center

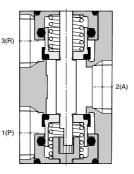
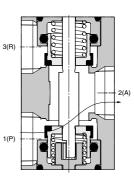


Fig. (3) P ←→ A



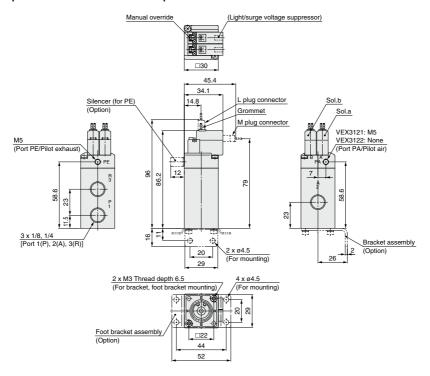
- This is a 3-port switch valve in which the shaft ① extending from the driving piston ③ opens/closes a pair of poppet valves ⑥. The poppet valve has a pressure balancing mechanism in which port 2(A) pressure is constantly applied from the back and the center spring ④ is acting as a backup.
- When neither the pilot solenoid valve "a" nor "b" are energized (or when air is exhausted both from the port 12(P1) and 23(P2) of the air operated type), no force will act on the working piston, and the spring closes the poppet valve, thus the valve assumes the closed center position (Fig. (2)).
- When the pilot solenoid valve "a" is energized (or when pressurized air enters through the port 12(P1) of the air operated type), pilot air that enters the space above the working piston pushes down the piston and opens the lower poppet valve, thus connecting the port 1(P) and port 2(A) (Fig. (3)). The upper poppet valve continues to close the port 3(R) by means of pressure balance and the spring.
- When the pilot solenoid valve "b" is energized (or when pressurized air enters through the port 23(P2) of the air operated type), the pilot air that enters the space under the working piston pushes the piston upward and opens the upper poppet valve, thus connecting the port 2(A) and port 3(R) (Fig. (1)). The lower poppet valve continues to close the port 1(P) by means of pressure balance and the spring.

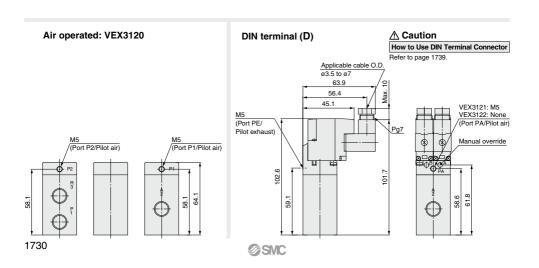


## Dimensions: Body Ported/VEX312



#### External pilot solenoid: VEX3121 Internal pilot solenoid: VEX3122

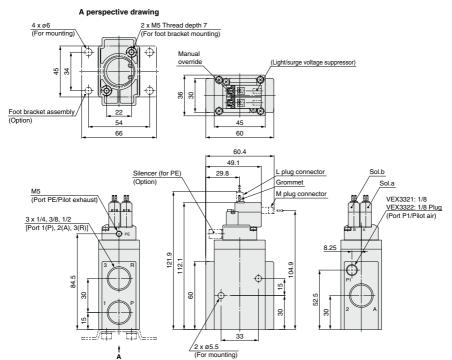




## Dimensions: Body Ported/VEX332

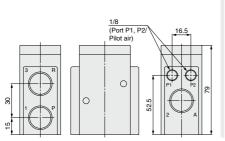


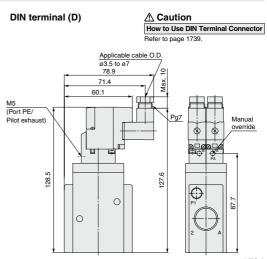
#### External pilot solenoid: VEX3321 Internal pilot solenoid: VEX3322



**SMC** 

# Air operated: VEX3320

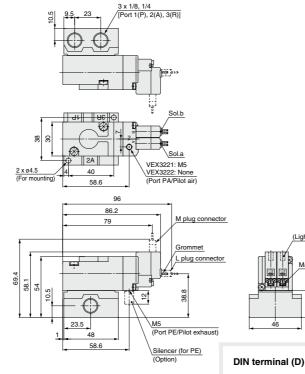


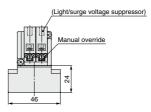


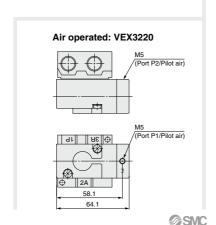
## Dimensions: Base Mounted/VEX322

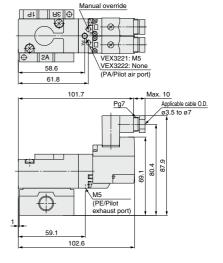
External pilot solenoid: VEX3221 Internal pilot solenoid: VEX3222











▲ Caution

Refer to page 1739.

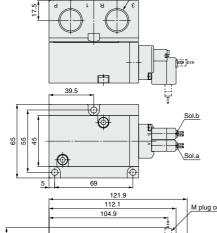
How to Use DIN Terminal Connector

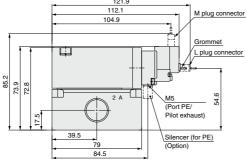
## Dimensions: Base Mounted/VEX342

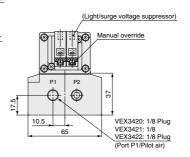
#### External pilot solenoid: VEX3421 Internal pilot solenoid: VEX3422

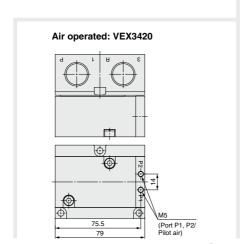
3 x 1/4, 3/8, 1/2 [Port 1(P), 2(A), 3(R)]

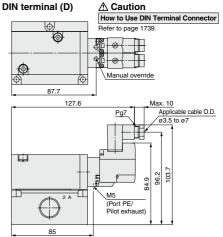












# 3 Port 3 Position Valve/VEX3 Series **Manifold Specifications**



#### **Specifications**

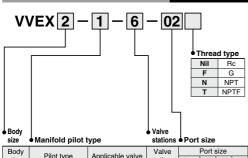
Model		VVEX2	VVEX4		
Applicable valve		VEX3220, VEX3222	VEX3420, VEX3422		
Valve stations Note)		2 to 8 stations	2 to 6 stations		
Port specification		Common	SUP, EXH		
Manifold pilot type		Internal pilot, Common external pilot			
Common external pilot port size		M5 x 0.8 Length of thread 5			
Port size 1(P) 3(R) 2(A)		1/4	3/8	3/8	1/2
			1/4	3/8	3/8
Applicable blanking plate		VEX1-17-3A (With gasket, screw)	VEX4-5-3A (With gasket, screw)		rew)

Note) When the VVEX2 series is used with 5 stations or more, or the VVEX4 series is used with 4 stations or more, apply pressure to the port P on both ends and exhaust from the port R on both ends.

## Common External Pilot Piping



#### **How to Order Manifold Base**



Doay	Pilot type		Applicable valve		4				
size		1 not type	Applicable valve		ations	Port	1(P)	3(R)	2(A)
				2	2 stations				
	1	Internal pilot	VEX3222	: :					
2			(Air operated: )		6 stations	02	1/4		
	2	2 Common external pilot	VEX3220 Note)		:				
	-			8	8 stations				
	1	Internal pilot	VEX3422	2	2 stations	Α	3/	/8	1/4
4	<u> </u>	·	Air operated:	:		В		3/8	
	2	Common external pilot	VEX3420 Note)		6 stations	С	1/	2	3/8

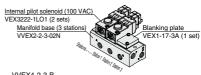
#### Note) Air operated

The VEX3220 and VEX3420 (air operated) are used. Distinction between the pilots (internal or common external pilot) of the manifold base does not matter. Either may be used.

Example for ordering a manifold base: The valve and blanking plate for manifold arrangement should be specified in order from the left side of the manifold base (with the port 2(A)

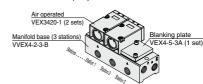
on your side) (Example) VVEX2-2-3-02N

- \* VEX3222-1LO1 2 pcs. Pilot solenoid
- \* VEX1-17-3A---1 pc.



#### VVEX4-2-3-B

- \* VEX3420-1—2 pcs. \* VEX4-5-3A—1 pc. Air operated



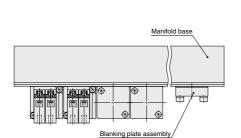
#### VEX3 Manifold (Size 2, 4) Pilot Type

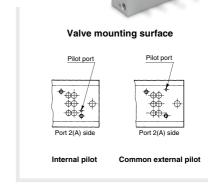
Manifold pilot type	Manifold base part number	Applicable valve part number	Operating pressure range	Pilot pressure range
Air operated type	VVEX□-□-□-□	VEX3220, VEX3420	-101.2 kPa to 1.0 MPa	0.2 to 1.0 MPa
Internal pilot type	VVEX□-1-□-□	VEX3222, VEX3422	0.2 to 0.7 MPa	_
Common external pilot type	VVEX□-2-□-□	VEX3222, VEX3421	-101.2 kPa to 1.0 MPa	0.2 to 0.7 MPa
Individual external pilot type	VVEX□-□-□-□	VEX3221	-101.2 kPa to 1.0 MPa	0.2 to 0.7 IVIPa

Note) If external pilot types are used, the common external pilot type manifold base is recommended.

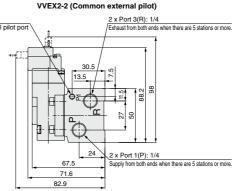
## Dimensions: Manifold/VVEX2-

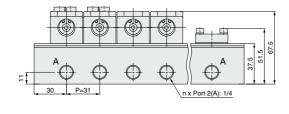
VVEX2-1 Applicable valve: VEX3220/3222 VVEX2-2 Applicable valve: VEX3220/3222

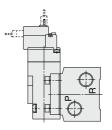




## 







VVEX2-1 (Internal pilot)

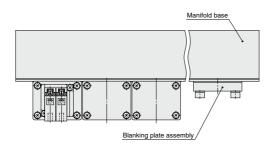
L Dime	ensions	s	For	mula: L1=3	31n+29, L2	=31n+14 r	n: Stations
L dimension Station	2	3	4	5	6	7	8
L1	91	122	153	184	215	246	277
12	76	107	138	169	200	231	262

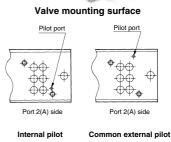


## Dimensions: Manifold/VVEX4-

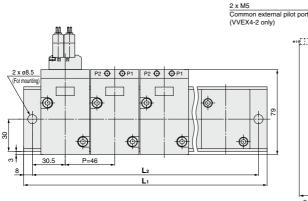


VVEX4-1 Applicable valve: VEX3420/3422 VVEX4-2 Applicable valve: VEX3420/3422

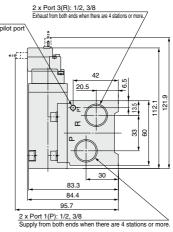




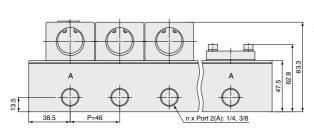
#### VVEX4-2 (Common external pilot)







#### VVEX4-1 (Internal pilot)



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L Dime	ensions	S L1=4	6n+31, L2	=46n+15 r	46n+15 n: Stations		
L dimension Station	2	3	4	5	6		
L <sub>1</sub>	123	169	215	261	307		
L2	107	153	199	245	291		



# **VEX3** Series Specific Product Precautions 1

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 3 to 9 for 3/4/5 Port Solenoid Valve Precautions.

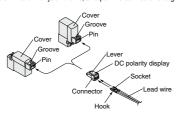
#### Connectors for VEX3 Series Body Sizes 12, 22, 32 and 42

#### **How to Use Plug Connector**

## **⚠** Caution

#### 1. Attaching and detaching connectors

- To attach a connector, hold the lever and connector unit between your fingers and insert straight onto the pins of the solenoid valve so that the lever's pawl is pushed into the groove and locks.
- To detach a connector, remove the pawl from the groove by pushing the lever downward with your thumb, and pull the connector straight out.

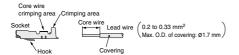


#### 2. Crimping of lead wires and sockets

Strip 3.2 to 3.7 mm at the end of the lead wires, insert the ends of the core wires evenly into the sockets, and then crimp with a crimping tool. When this is done, take care that the coverings of the lead wires do not enter the core wire crimping area.

Use an exclusive crimping tool for crimping.

(Please contact SMC for special crimping tools.)



#### 3. Attaching and detaching sockets with lead wires

#### Attaching

Insert the sockets into the square holes of the connector  $(\oplus, \ominus)$  indication), and continue to push the sockets all the way in until they lock by hooking into the seats in the connector. (When they are pushed in, their hooks open and they are locked automatically.) Then confirm that they are locked by pulling lightly on the lead wires.

#### Detaching

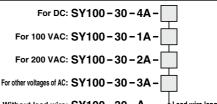
To detach a socket from a connector, pull out the lead wire while pressing the socket's hook with a stick having a thin tip (approx. 1 mm). If the socket will be used again, first spread the hook outward.



#### Plug Connector Lead Wire Length

Standard length is 300 mm, but the following lengths are also available.

#### How to Order Connector Assembly



Without lead wire: SY100 – 30 – A (with connector and 2 of sockets only)

#### How to Order

Enter the part number for a plug connector solenoid valve without connector together with the part number for a connector assembly.

<Example> Lead wire length 2000 mm

Lixamples Load Wife length 2000 min					
<for dc=""></for>	<for ac=""></for>				
VEX3122-015LO1	VEX3122-011LO1				
SY100-30-4A-20	SY100-30-1A-20				





# **VEX3** Series Specific Product Precautions 2

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 3 to 9 for 3/4/5 Port Solenoid Valve Precautions.

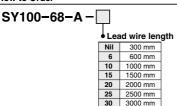
#### Connector Assembly with Cover

## 

#### Connector assembly with dustproof protective cover

- Effective to prevention of short circuit failure due to the entry of foreign matter into the connector.
- Chloroprene rubber for electrical use, which provides outstanding weather resistance and electrical insulation, is used for the cover material. However, do not allow contact with cutting oil etc.
- Simple and unencumbered appearance by adopting a roundshaped cord.

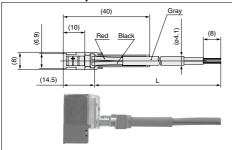
#### How to Order



#### Connector Assembly with Cover: Dimensions

50

5000 mm



#### How to Order

Enter the part number for a plug connector solenoid valve without connector together with the part number for a connector assembly with cover.

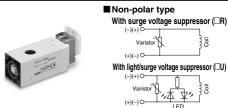
<Example> Lead wire length 2000 mm VEX3122-015LO1 SY100-68-A-20

#### Surge Voltage Suppressor

## 

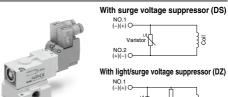
<For DC>

Grommet, L/M Plug Connector



(The non-polar type can be used with the connections made either way.)

#### **DIN Terminal**

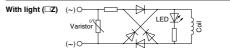


DIN terminal has no polarity.

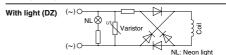
#### <For AC>

(There is no S option since a rectifier prevents surge voltage generation.)

#### Grommet, L/M Plug Connector



#### **DIN Terminal**



Note) Surge voltage suppressor of varistor has residual voltage corresponding to the protective element and rated voltage; therefore, protect the controller side from the surge. The residual voltage of the diode is approximately 1 V.





## **VEX3** Series **Specific Product Precautions 3**

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 3 to 9 for 3/4/5 Port Solenoid Valve Precautions.

#### How to Use DIN Terminal Connector

## 

#### Connection

- 1. Loosen the holding screw and pull the connector out of the solenoid valve terminal block.
- 2. After removing the holding screw, insert a flat head screwdriver, etc. into the notch on the bottom of the terminal block and pry it open, separating the terminal block and the housing.
- 3. Loosen the terminal screws (slotted screws) on the terminal block, insert the cores of the lead wires into the terminals according to the connection method, and fasten them securely with the terminal screws.
- 4. Secure the cord by fastening the ground nut.

#### ▲ Caution

When making connections, take note that using other than the supported size (ø3.5 to ø7) heavy-duty cord will not satisfy IP65 (enclosure) standards. Also, be sure to tighten the ground nut and holding screw within their specified torque ranges.

## 

#### Changing the entry direction

After separating the terminal block and housing, the cord entry can be changed by attaching the housing in the desired direction (4 directions at 90° intervals).

\* When equipped with a light, be careful not to damage the light with the cord's lead wires.

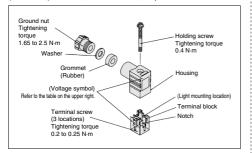
#### Precautions

Plug in and pull out the connector vertically without tilting to one

#### Compatible cable

Cord O.D.: ø3.5 to ø7

(Reference) 0.5 mm2, 2-core or 3-core, equivalent to JIS C 3306



#### **DIN Connector Part Number**

## 

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Without light SY100-61-1 With light

Rated voltage	Voltage symbol	Part number
24 VDC	24 V	SY100-61-3-05
12 VDC	12 V	SY100-61-3-06
100 VAC	100 V	SY100-61-2-01
200 VAC	200 V	SY100-61-2-02
110 VAC	110 V	SY100-61-2-03
220 VAC	220 V	SY100-61-2-04

#### Circuit Diagram with Light

