Power Valve: 3 Position Valve

VEX3 Series

The body sizes 12/22/32/42 have been remodeled. For details, refer to page 1721.

System configuration

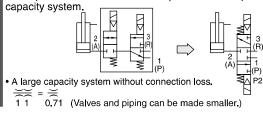
Realize a variety of circuits using

simple components.

■ Intermediate and emergency stops of large-sized cylinders

Intermediate and emergency cylinder stops

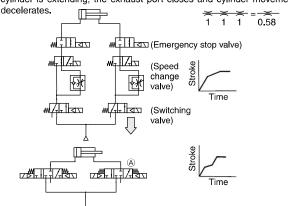
The 3 position closed center valve produces a simple and large



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

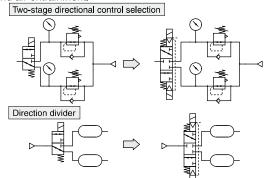
The simple system configuration permits sharp response. The large capacity system configuration without connection loss allows the use of smaller valves and piping.

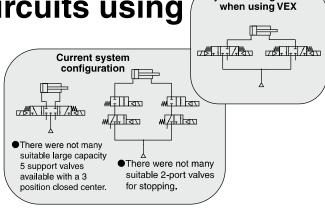
• For example, when solenoid (b) of valve (A) is turned off while the cylinder is extending, the exhaust port closes and cylinder movement decolorates.



Universal porting could be used as a selector/divider valve

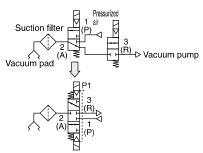
The pressure balancing poppet valve that permits any flow direction allows sequential switching operation, preventing blow by and air entrainment.





|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.



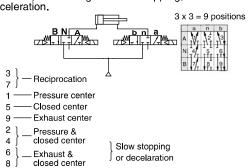
 There is no blow-by when switched from vacuum suction to vacuum release or vice versa.

⚠ Caution

•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.

For operation control of double acting cylinders

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

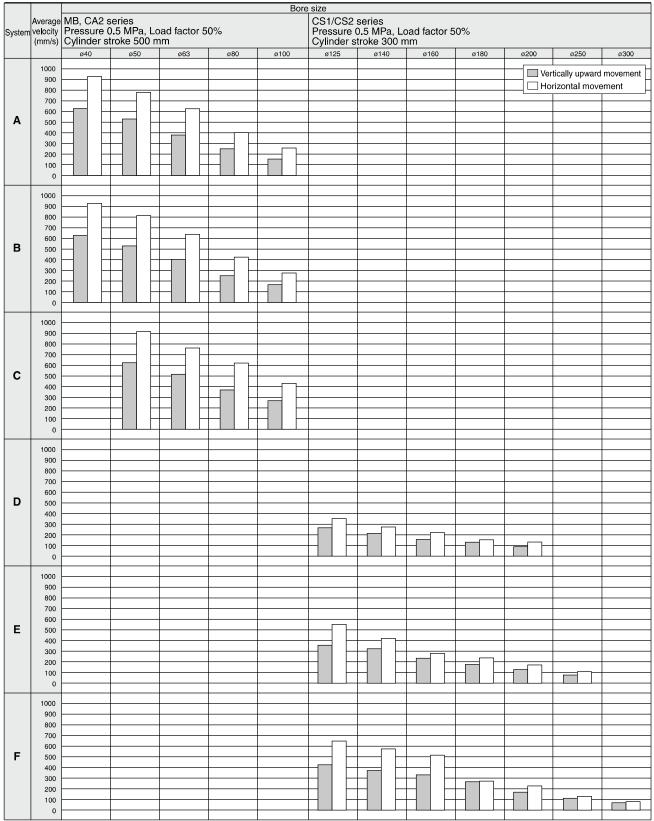


 This valve is not a non-leak specification, and thus cannot be used for long term intermediate stops or emergency stops.



Cylinder Speed Chart

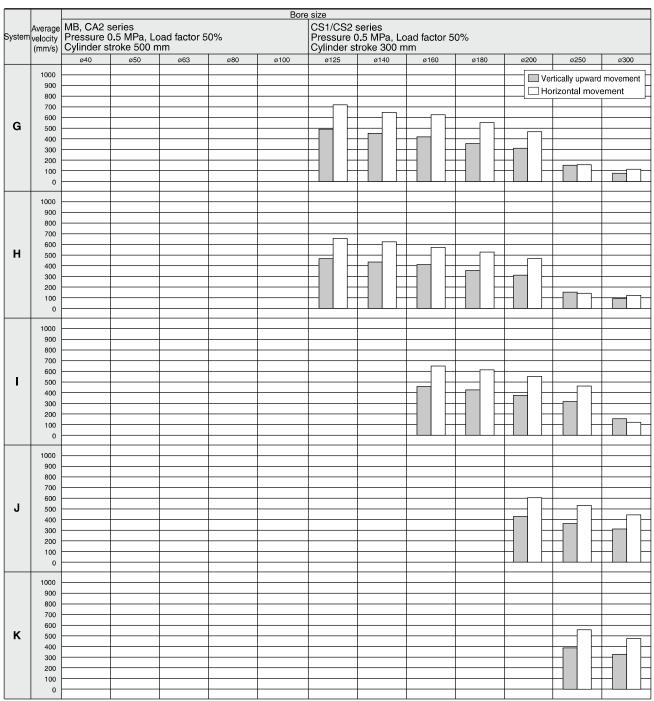
Please assume the chart is offered as the guideline. For details about various each condition, please make use of SMC Model Selection Software and then decide it.



^{*} When the cylinder is extended, the speed controller is metered-out, is connected with the cylinder directly, and its needle is fully open.

^{*} Values on the average velocity of a cylinder are obtained from the stroke length divided by full stroke time.

^{*} Load proportion is ((load weight x 9.8)/theoretical force) x 100%



- * When the cylinder is extended, the speed controller is metered-out, is connected with the cylinder directly, and its needle is fully open.

 * Values on the average velocity of a cylinder are obtained from the stroke length divided by full stroke time.

 * Load proportion is ((load weight x 9.8)/theoretical force) x 100%

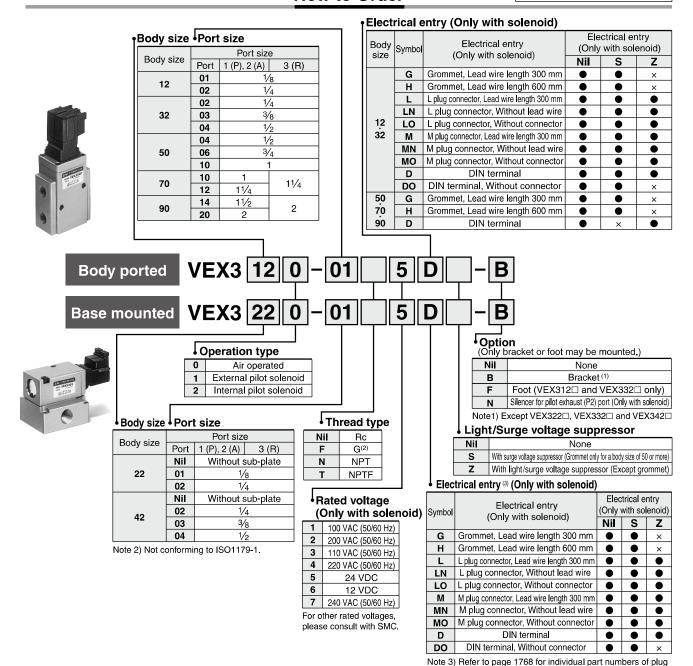
Conditions of Speed Chart

System	Solenoid valve	Speed controller	Silencer	Tubing diameter x Length
Α	VEX3 ¹ ₂ 2□-02	AS4000-02	AN20-02	ø10 x 1 m
В	VEA32 ZU-UZ	A34000-02	AN20-02	ø12 x 1 m
С	VEX3 ³ 2□-03	AS420-03	AN30-03	ø12 x 1 m
D	VLA34 20-04	AS420-04	AN40-04	SGP15A x 1 m
E	04	AS420-04	AN40-04	SGP15A x 1 m
F	VEX350□-04	AS500-06	AN500-06	SGP20A x 1 m
G	10	AS600-10	AN600-10	SGP25A x 1 m
Н	VEX370□-10	AS600-10	AN600-10	SGP25A x 1 m
J	VEA3/0□-12	AS800-12	AN700-12	SGP32A x 1 m
J	VEX390□-14	AS900-14	AN800-14	SGP40A x 1 m
K	V L ∧ 30 □ 20	AS900-20	AN900-20	SGP50A x 1 m



How to Order

The body sizes 12/22/32/42 have been remodeled. For details, refer to page 1721.



Valve size		2	4			
	VEX1 - 9 - 1 Port size Symbol Port size	Thread type Symbol Thread type	VEX4 - 2A - P Port size Thread type Symbol Port size Symbol Thread type			
Sub-plate	Symbol Port size A 1/8 B 1/4	Nil Rc F G N NPT	Symbol Port Size			
		T NPTF	T NPTF			
Base gasket	VEX	1-11-2	VEX4-4			

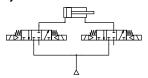
. Caution

- I 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.

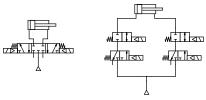
Variety of circuits in simple construction

3 position valve suitable for intermediate and emergency stop of large size cylinder.

System construction with VEX

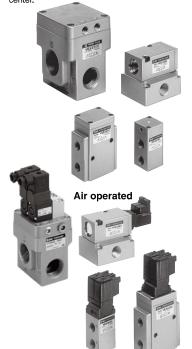


Current system construction



 There were not many suitable large capacity 5 port valves available with a 3 position closed

 There were not many suitable large capacity 2 port valves available for stopping operations.



Specifications

Model	Body ported	VEX312□-01	VEX332□-02 04	VEX350□-04 10	VEX370□-10 12	VEX390□-14 20			
Model	Base mounted	VEX322□-01	VEX342□-02 04	_	_	_			
Operation	type	Air op	erated, Externa	I pilot solenoid,	Internal pilot so	lenoid			
Fluid				Air					
	Air operated		Main pressu	ire Low vacuum	to 1.0 MPa				
	Air operated		External pilot pressure 0.2 to 1.0 MPa						
	External nilet	Main pressure Low vacuum to 1.0 MPa							
Pressure range	External pilot solenoid	External pil 0.2 to 0		External pilot pressure 0.2 to 0.9 MPa					
	Internal pilot	Main pr		Main pressure					
	solenoid	0.2 to 0.7 MPa							
Ambient and f	luid temperature	0 to 50°C (Air operated 60°C)							
Response (Pilot pressure)		40 ms or less 60 ms or less							
Max. operati	ing frequency			3 cycles/sec.					
Mounting		Free							
Lubricatio	n	Not required (Use turbine oil Class 1 ISO VG32, if lubricated.)							

Note) Non-lubricated specifications are not available for this product.

Pilot Solenoid Valve Specifications

Model			VEX3121, VEX3221, VEX3321, VEX3421 VEX3122, VEX3222, VEX3322, VEX3422				
Pilot valve			Exclusive pilot valve	VO307K-□□□1			
Electrical entry			Grommet, L plug connector, M plug connector, DIN terminal	Grommet, Grommet terminal, Conduit terminal, DIN terminal			
Coil rated	AC(50	/60Hz)	100V, 110V, 200V, 220V, 240V				
voltage (V)	D	С	6V, 12V, 24V, 48V				
Temperatu	re rise	9	–15 to +10% o	f rated voltage			
Apparent	AC	Inrush	4.5 VA/50 Hz, 4.2 VA/60 Hz	12.7 VA (50 Hz), 10.7 VA (60 Hz)			
power	AC	Holding	3.5 VA/50 Hz, 3 VA/60 Hz	7.6 VA (50 Hz), 5.4 VA (60 Hz)			
Power consumption DC		С	1.8 W (Without indicator light), 2.1 W (With indicator light)	4 W (Without indicator light), 4.2 W (With indicator light)			
Manual override			Non-locking push type	Non-locking push type			

Note) When replacing the pilot valves specified for valve sizes 1 to 4, please request SMC to replace them at the factory.

Option

		Part no.									
Description		VEX312□-01	VEX322□-01	VEX332□-02 04	VEX342□-02 04	VEX350□-04 10	VEX370□-10	VEX390□-14 20			
Bracket (With bolt and washer)	В	VEX1-18-1A	_	_	_	VEX5-32A	VEX7-32A	VEX9-32A			
Foot (With bolt and washer)	F	VEX1-18-2A	_	VEX3-32-2A	_	_	_	_			
Pilot exhaust port P2 silencer Note)	N		AN120-M5				AN210-02				

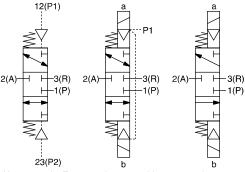
Note) Only with solenoid.

Weight

weigni							(KC
Model	VEX312□-01 02	VEX322□-01 02	VEX332□-02 04	VEX342□-02 04	VEX350□-04 10	VEX370□-10 12	VEX390□-14
Air operated	0.1	0.2	0.3	0.6	1.4	2.1	3.3
Solenoid	0.2	0.3	0.4	0.7	1.6	2.3	3.5

VEX

Internal pilot solenoid/External pilot solenoid Symbol



Air operated External pilot solenoid Internal pilot solenoid

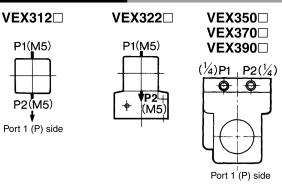


Flow Rate Characteristics

				Flow rate characteristics										
Mod	del	Port size	1 (1 (P) →2 (A)		2 (2 (A) →1 (P)		3 (R)→2 (A)			2 (A) →3 (R)		
		Size	C[dm3/(s-bar)]	b	Cv	C[dm3/(s-bar)]	b	Cv	C[dm3/(s-bar)]	b	Cv	C[dm3/(s·bar)]	b	Cv
	VEX312□-01	1/8	2.4	0.19	0.59	2.4	0.31	0.59	2.3	0.36	0.59	2.5	0.22	0.61
	VEX312□-02	1/4	3.5	0.35	0.89	3.3	0.49	0.89	3.1	0.46	0.89	3.5	0.33	0.93
Body ported	VEX332□-02	1/4	4.1	0.36	1.1	4.3	0.42	1.1	4.1	0.41	1.1	4.6	0.25	1.2
Body ported	VEX332□-03	3/8	8.7	0.29	2.2	7.9	0.52	2.2	7.8	0.51	2.4	8.7	0.33	2.4
	VEX332□-04	1/2	9.8	0.37	2.7	9.6	0.52	2.7	9.1	0.53	3.0	11	0.37	3.0
	VEX350□-04	1/2	24	0.32	6.4	24	0.30	6.4	25	0.31	6.4	22	0.27	5.7
	VEX322□-01	1/8	3.3	0.34	0.86	3.5	0.39	0.86	3.3	0.37	0.86	3.5	0.36	0.87
Base mounted	VEX322□-02	1/4	4.1	0.28	0.99	4.1	0.39	0.99	3.8	0.38	0.97	4.4	0.23	1.1
(With sub-plate)	VEX342□-02	1/4	8.1	0.34	2.0	7.9	0.39	2.0	8.2	0.33	2.1	8.1	0.37	2.2
(vvitii Sub-plate)	VEX342□-03	3/8	12	0.26	3.2	12	0.29	3.2	12	0.28	3.1	13	0.28	3.3
	VEX342□-04	1/2	13	0.20	3.3	13	0.24	3.3	12	0.29	3.2	14	0.20	3.3

Mod	Port size	Effective area (mm²)	Cv	
	VEX350□-06	3/4	160	8.9
	VEX350□-10	1	180	10
Body ported	VEX370□-10	1	300	17
Body ported	VEX370□-12	1 1/4	330	18
	VEX390□-14	1 1/2	590	33
	VEX390□-20	2	670	37

External Pilot Piping



Port	VEX3□□0	VEX3□□1	VEX3□□2
P1	External pilot	External pilot	Plug
P2	External pilot	Pilot exhaust	Pilot exhaust

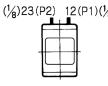
⚠ Caution

●VEX3³₄2¹₂(Solenoid)

When the VEX3240 air operated power valve is delivered from our factory, the M5 threaded pilot port P2 in the cover is open and the 1/8 pilot port in the sub-plate is plugged. When port P2 on the body Note) is used as a pilot exhaust port, remove the 1/8 plug and put the M5 plug into the pilot valve port P2 to cover it.

Note) Body for VEX332¹₂, sub-plate for VEX342¹₂

	3320	VEX3321	VEX3322
	erated	External pilot solenoid	Internal pilot solenoid
(1/2)23(P2)	12(P1)(1/4)	((1/)pa) p1(1/)	((1/)P2)







Port 1 (P), 3 (R) side

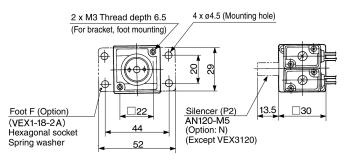
Port 1 (P), 3 (R) side

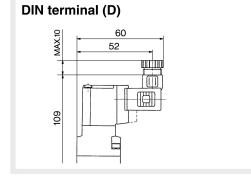
Port 1 (P), 3 (R) side

VEX3420 VEX3421 VEX3422 Air operated External pilot solenoid Internal pilot solenoid for sub-plate for subplate for subplate $(M5)12(P_{1}) + 23(P2)(M5)$ Cover Cover P2(M5) P2(M5) Plug (1/8) Plug (1/8) Sub-plate

Body Ported: VEX312 □

Air operated: VEX3120 External pilot solenoid: VEX3121 Internal pilot solenoid: VEX3122

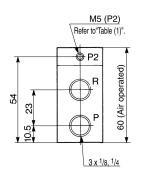


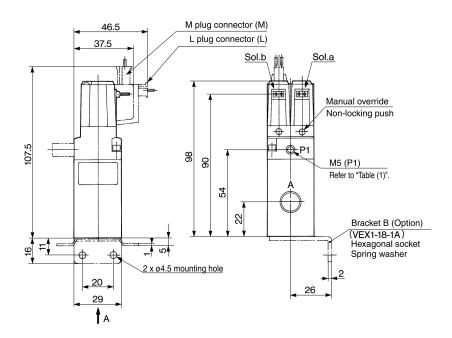


A perspective drawing

Table (1) With/Without Plug for M5 Port

Model	P1	P2
VEX3120	None	None
VEX3121	None	None
VEX3122	With plug	None





How to Use Plug Connector/Applicable Model: VEX312¹/322¹/332¹/342¹

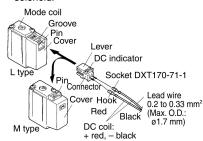
Attaching/Detaching of a plug

1. To install the connector

Push the connector straight on the pins of the solenoid, making sure the lip of the lever is securely positioned in the groove on the solenoid cover.

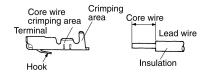
2. To deinstall the connector

Press the lever against the connector and pull the connector away straight from the solenoid.



Crimping lead wire and socket

Peel 3.2 to 3.7 mm of the tip of the lead wire, enter the core wires neatly into a socket and press contact it with a press tool. Be careful so that the cover of lead wire does not enter into the core press contacting part. (Please contact SMC for the dedicated crimping tools.)



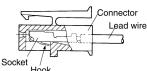
Attaching/Detaching of a socket with lead wire

Attaching

Insert a socket into the square hole (indicated at +, -) of connector, push fully the lead wire and lock by hanging the hook of a socket to the seat of connector. (Pushing in can open the hook and lock it automatically.) Then confirm the locking by lightly pulling on the lead wire.

2. Detaching

For pulling out a socket from connector, pull out the lead wire while pushing the hook of a socket with a stick with a fine point (1 mm). If a socket is to be re-used as it is, return the hook to the outside.

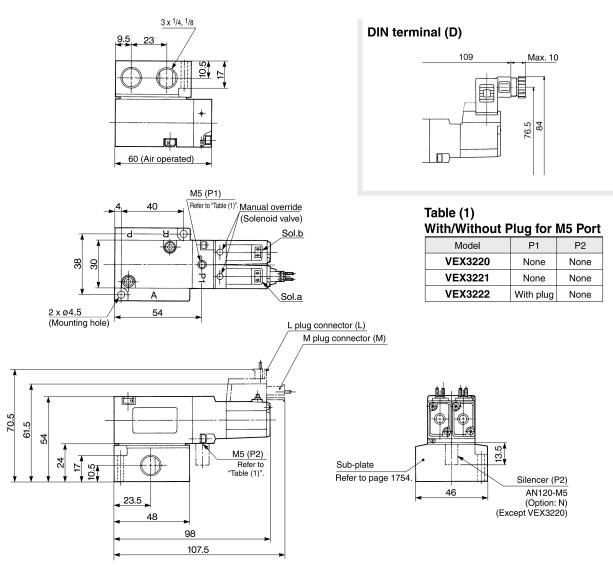






Base Mounted: VEX322□

Air operated: VEX3220 External pilot solenoid: VEX3221 Internal pilot solenoid: VEX3222

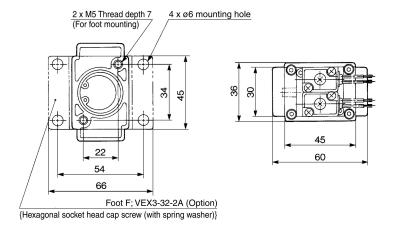


⚠ Caution

How to Use DIN Terminal

Refer to page 1768.

Air operated: VEX3320 External pilot solenoid: VEX3321 Internal pilot solenoid: VEX3322



A perspective drawing

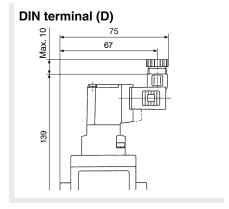
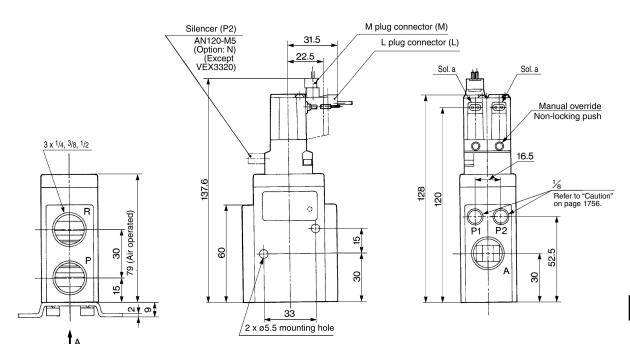


Table (1)
With/Without Plug for 1/8 Port

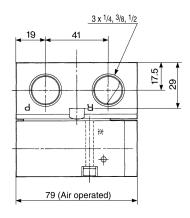
Model	P1	P2				
VEX3320	None	None				
VEX3321	None	With plug				
VEX3322	With plug	With plug				

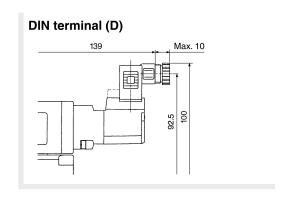




Base Mounted: VEX342□

Air operated: VEX3420 External pilot solenoid: VEX3421 Internal pilot solenoid: VEX3422





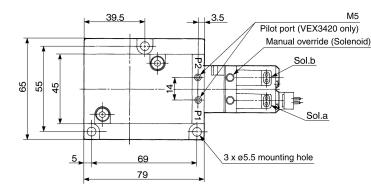


Table (1) With/Without Plug for Sub-plate

Model	P1	P2
VEX3420	With plug	With plug
VEX3421	None	With plug
VEX3422	With plug	With plug

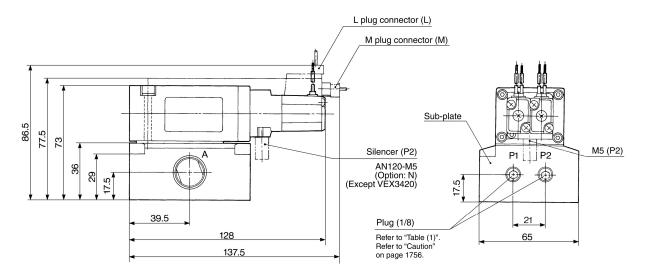


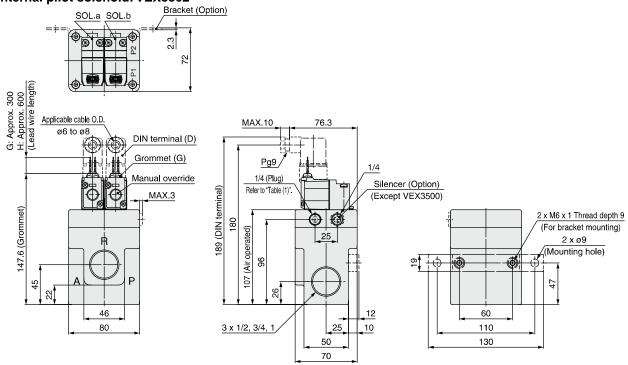
Table (1) With/Without Plug for 1/4 Port

P1

Body Ported: VEX350□/370□

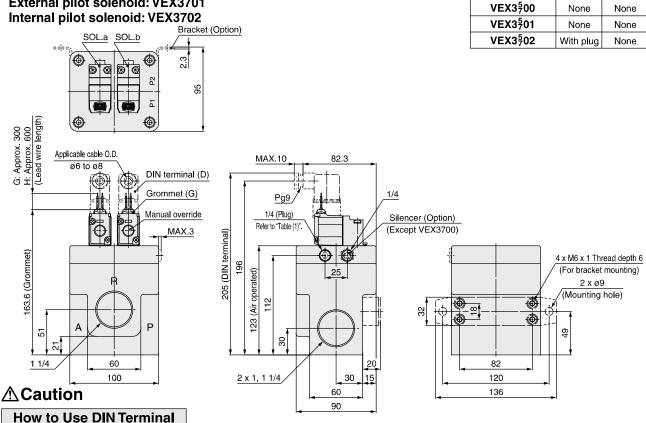
Air operated: VEX3500

External pilot solenoid: VEX3501 Internal pilot solenoid: VEX3502



Air operated: VEX3700

External pilot solenoid: VEX3701



Refer to page 1435 for VT307 series.



Base Mounted: VEX390□

Air operated: VEX3900

External pilot solenoid: VEX3901 Internal pilot solenoid: VEX3902

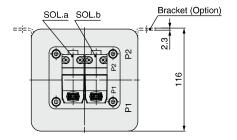
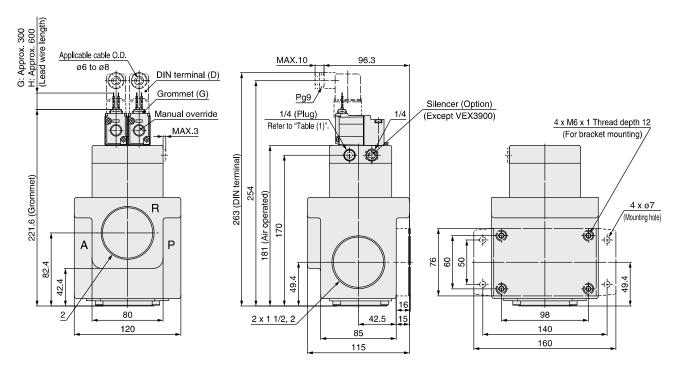


Table (1)
With/Without Plug for 1/4 Port

Model	P1	P2		
VEX3900	None	None		
VEX3901	None	None		
VEX3902	With plug	None		



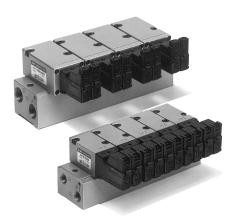
⚠ Caution

How to Use DIN Terminal

Refer to page 1435 for VT307 series.

Manifold Specifications

Manifold: VVEX Series

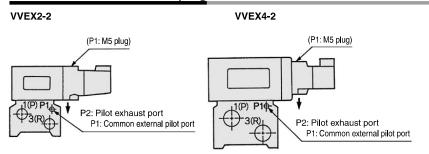


Specifications

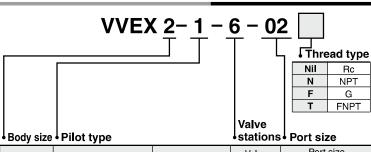
Model		VVEX2	VVEX4		
Applicable va	alve	VEX3220/VEX3222 VEX3420/VEX3422			422
Valve station	s Note)	2 to 8		2 to 6	
Port specifica	ations	Common SUP, EXH			
Pilot type Internal pilot, Common external pilot			al pilot		
Common external pilot port size		M5 x 0.8 Length of thread 5			
Port size	1 (P) 3 (R)	1/4	3/8	3/8	1/2
2 (A)			1/4	3/8	3/8
Applicable blanking plate		VEX1-17 (With gasket, screw)	(W	VEX4-5 ith gasket, sc	rew)

Note) When VVEX2 series is used with more than 5 stations, or VVEX4 series is used with more than 4 stations, apply pressure to the port 1 (P) on both sides and exhaust from the port 3 (R) on both sides.

Common External Pilot Piping



How to Order Manifold Base



- Body Size -1 Hot type					*3tation3*1 Ort 312C				
Dody size	Diletture		Annlinchla volva	V	Valve		Port size		
Body size		Pilot type	Applicable valve	stations		Port	1 (P) 3 (R)	2 (A)	
				2	2				
	1	Internal pilot VEX3222	VEX3222	:	:				
2			Air operated:	6	6	02	1/4		
	2	Common external pilot	VEX3220 Note)		:				
	_ Common external pilot			8	8				
	1	Internal pilot	VEX3422	2	2	Α	3/8	1/4	
4		Titte title prijet	Air operated:		:	В	3/8		
	2	Common external pilot	VEX3420 Note)	6	6	С	1/2	3/8	

Note) Air operated

VEX 3220 and VEX3420 (air operated) are used. Distinction between the pilots (internal or extertal pilot) of the manifold base does not matter. Either may be used.

Example for ordering a manifold base:

The valve and blank 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)

VVEX2-2-7-02N

*VEX3222-1LN 6 pcs. *VEX1-17 1 pc. Solenoid

VVEX4-2-6-A *VEX3420

*VEX3420 5 pcs. *VEX4-5 1 pc. Air operated

VEX3 manifold (Size 2, 4) Pilot type

. , ,	71			
Manifold pilot type	Manifold part no.	Applicable valve part no.	Operating pressure range	Pilot pressure range
Air operated type	VVEX□-□-□-□	VEX3220/VEX3420	Low vacuum 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/VEX3422	Low vacuum to 1.0 MPa	0.2 to 0.7 MPa
Individual external pilot type	VVEX□-□-□-□	VEX3221	Low vacuum to 1.0 MPa	0.2 to 0.7 MPa

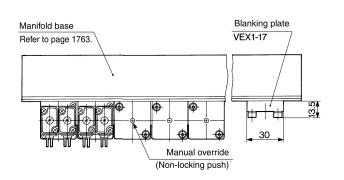
Note) If external pilot types are used, the common external pilot type is recommended.



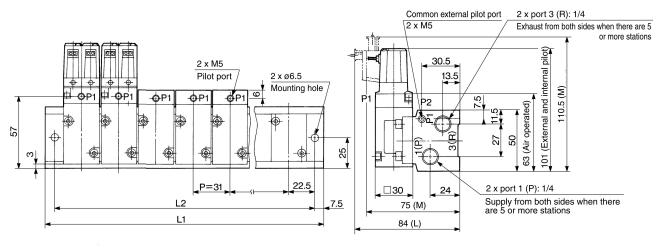


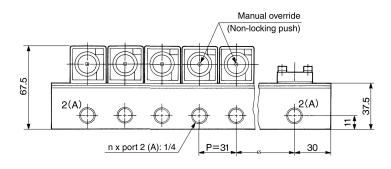
Manifold: VVEX2-□

VVEX2-1 Applicable valve: VEX3220/3222



Pilot port Pilot port Port 2 (A)Side Port 2 (A)Side Port 2 (D)Side Port 2 (D)Side Port 2 (D)Side

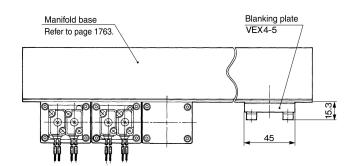


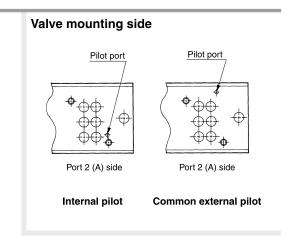


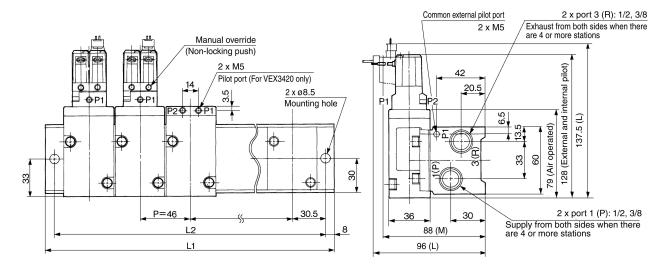
L Dime	ension	Formula $L_1 = 31n + 29$, $L_2 = 31n + 14 n$: Stati				: Station	
	2	3	4	5	6	7	8
L1	91	122	153	184	215	246	277
L2	76	107	138	169	200	231	262

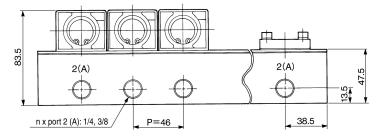
Manifold: VVEX4-□

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







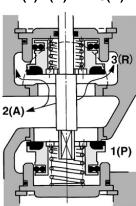


L Dime	ension	$L_1 = 46n$	+ 31, L ₂ =	46n + 15	n: Station
	2	3	4	5	6
L1	123	169	215	261	307
L2	107	153	199	245	291

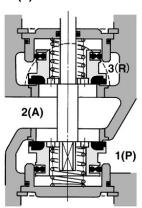


Construction/Working Principle/Component Parts

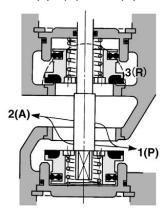
(1) 2(A) → R 3(R)



(2) Closed center

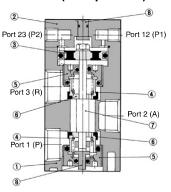


(3) 2(A) → R 3(R)

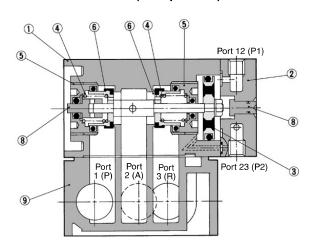


- This is a 3 port switch valve in which the shaft ⑦ extending from the driving piston ③ opens/closes a pair of poppet valves ⑥. The poppet valve has a pressure balancing mechanism in which port 2 (A) pressure is constantly applied from the back and the center spring④ is acting as a backup.
- When neither 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 (DRW (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) (DRW (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) (DRW (1)). The lower poppet valve continues to close the port 1 (P) by means of pressure balance and the spring.

VEX3120 (Air operated)



VEX3220 (Air operated)

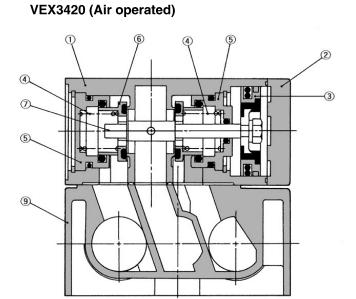


Component Parts

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	Manual override	РОМ
9	Sub-plate	Aluminum alloy

Construction/Working Principle/Component Parts

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

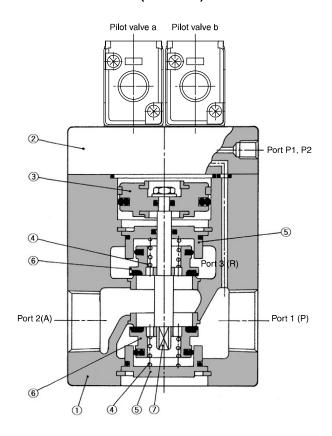


Port 2 (A)

Port 3 (R)

Port 1 (P)

VEX350□/370□/390□ (Solenoid)









VEX3 Series Specific Product Precautions

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions.

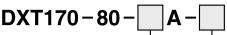
Connectors for the VEX3 Series Body Sizes 12, 22, 32 and 42 (For connectors for body sizes 50, 70, and 90, refer to VT307 series.)

Plug Connector Lead Wire Length

A Caution

The standard length of a plug connector with lead wire is 300 mm, but the following lengths are also available.

How to Order Connector Assembly



Lead wire colors

Symbol	Lead wire with socket	Note
Nil	Socket only (2 pcs.)	Without lead wire
1	Blue (2 pcs.)	For 100 VAC
2	Red (2 pcs.)	For 200 VAC
3	Gray (2 pcs.)	For other VAC
4	Red: +, Black:-	For DC

Lead wire length

Symbol	Lead wire length (L mm)	
Nil	300	
6	600	
10	1000	
15	1500	
20	2000	
25	2500	
30	3000	

How to Order

Specify the connector assembly part number together with the part number for the plug connector's solenoid valve without connector.

Note) The solenoid valve and the connector assembly are shipped separately.

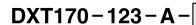
Connector Assembly with Cover

⚠ Caution

Connector assembly with protective cover enhances dust protection.

- Effective to prevent short circuit accidents due to penetration of foreign matter into the connector part.
- Cover material adopts the chloroprene rubber which is excellent in weather ability and electric insulation properties. However, use caution not to splash cutting oil, etc. onto it.
- Simple and unencumbered appearance by adopting a round-shaped cord.

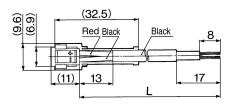
How to Order



Lead wire length

Symbol	Lead wire length (L mm)
Nil	300
6	600
10	1000
15	1500
20	2000
25	2500
30	3000

Connector assembly with cover: Dimensions





How to Use DIN Connector

⚠ Caution

Wiring

- Loosen the set screws and pull out connector from the terminal block of solenoid valve.
- Pull out screws and insert a screwdriver to the slit area near the bottom of terminal block to separate the terminal block and housing.
- 3) Loosen the terminal screws (slotted screws) on the terminal block, insert the core of the lead wire into the terminal in accordance with the wiring method, and secure with the terminal screws.
- 4) Tighten the ground nut to secure the cord.

Change of electrical entry

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

* When equipped with light, avoid damaging the light with lead wire.

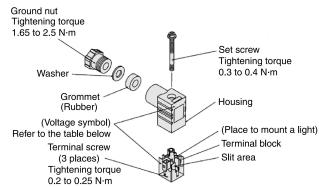
Caution

Plug a connector in or out vertically, never at an angle.

Applicable cables

Cord O.D.: ø3.5 to ø7

(Reference) 0.5 mm² 2-core and 3-core wires equivalent to JIS C 3306.



DIN connector part no. Without light

With Light		
Rated voltage	Voltage symbol	Part no.
100 VAC	100 V	DXT170-176-2-01
200 VAC	200 V	DXT170-176-2-02
110 VAC	110 V	DXT170-176-2-03
220 VAC	220 V	DXT170-176-2-04
240 VAC	240 V	DXT170-176-2-07
6 VDC	6 VD	DXT170-176-3-51
12 VDC	12 VD	DXT170-176-3-06
24 VDC	24 VD	DXT170-176-3-05
48 VDC	48 VD	DXT170-176-3-53

Connector with light circuit



AC circuit

NL: Neon light R: Resistor



DXT170-176-1

D: Protective diode LED: LED diode R: Resistor