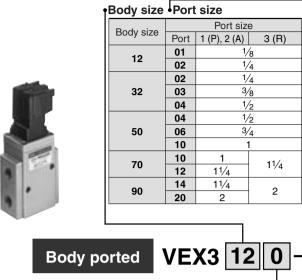
How to Order



Electrical entry (Only with solenoid) Body Symbol Electrical entry size Grommet, Lead wire length 300 mm G

Grommet, Lead wire length 600 mm L plug connector, lead wire length 300 mm LN L plug connector, without lead wire **12** Note LO L plug connector, without connector 32 М M plug connector, lead wire length 300 mm MN M plug connector, without lead wire M plug connector, without connector MO D DIN terminal DO DIN terminal, without connector G Grommet, Lead wire length 300 mm 50 Н Grommet, Lead wire length 600 mm 70 Ε Grommet terminal

5 01 D

D 01 Base mounted



Operation type Air operated External pilot solenoid Internal pilot solenoid

Body size Port size

Daduaina	Port size				
Body size	Port	1 (P), 2 (A)	3 (R)		
	Nil	Without sub-plate			
22	01	1/8			
	02	1/4			
	Nil	Without sub-plate			
42	02	1/4			
42	03	3/8			
	04	1/	9		

Thread type

Timoda type							
Nil	Rc						
F	G						
N	NPT						
Т	NPTF						

Rated voltage (Only with solenoid)

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3 *	110 VAC (50/60 Hz)
4 *	220 VAC (50/60 Hz)
5	24 VDC
6 *	12 VDC
7 *	240 VAC (50/60 Hz)
9 *	Other

* Option

90

Т D

Option (Only bracket or foot may be mounted.)

Conduit terminal

DIN terminal

(0) 2	(Only bracket or root may be meanted)							
Nil	None							
В	Bracket (Except VEX332□)							
F	Foot (VEX312□ and VEX332□ only)							
N	Silencer for pilot exhaust (P2) port (Only with solenoid)							

Light/Surge voltage suppressor

Nil	None
S	With surge voltage suppressor(Grommet only for a body size of 50 or more)
Z	With light/surge voltage suppressor (Except grommet)

Electrical entry Note (Only with solenoid)

Symbol	Electrical entry				
G	Grommet, Lead wire length 300 mm				
Н	Grommet, Lead wire length 600 mm				
L	L plug connector, lead wire length 300 mm				
LN	L plug connector, without lead wire				
LO	L plug connector, without connector				
М	M plug connector, lead wire length 300 mm				
MN	M plug connector, without lead wire				
МО	M plug connector, without connector				
D	DIN terminal				
DO	DIN terminal, without connector				

Note) Refer to page 1974 for individual part numbers of plug and DIN connectors. (Common with Series VZ)

Sub-plate and base gasket part no.

Valve size	2	4			
	VEX1 - 9 - 1 P	VEX4 - 2A - P			
Sub-plate	Port size Symbol Port size Symbol Thread type	Port size Symbol Port size Symbol Thread type			
	A 1/8 Nil Rc F G N NPT	A 1/8 B 3/8 C 1/2 N NPT			
Base gasket	VEX1 - 11 - 2	T NPTF VEX4-4			

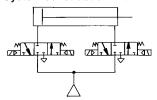
⚠ Caution

I Refer to front matters 58 and 59 for Safety Instructions and pages 3 to 7 for I ■ 3/4/5 Port Solenoid Valve Precautions.

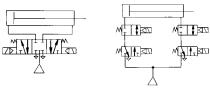
Variety of circuits in simple construction

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

System construction with VEX



Conventional system construction



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

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	VEX390□-14		
Model	Base mounted	VEX322□-01 02	VEX342□-02 04	_	_	_		
Operation	type	Air op	Air operated, External pilot solenoid, Internal pilot solenoid					
Fluid				Air				
	A:u amauatad		Main pressu	ire Low vacuum	to 1.0 MPa			
	Air operated		External pilot pressure 0.2 to 1.0 MPa					
B	External pilot	Main pressure Low vacuum to 1.0 MPa						
Pressure range	solenoid	External pil 0.2 to 0	•	External pilot pressure 0.2 to 0.9 MPa				
	Internal pilot	Main pr	essure	Main pressure				
	solenoid	0.2 to 0	.7 MPa	0.2 to 0.9 MPa				
Ambient and f	uid temperature	0 to 50°C (Air operated 60°C)						
Response (Pilot pressure) time (0.5 MPa		40 ms or less 60 ms or less						
Max. operating 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	VO307-□□□		
Electrical entry			Grommet, L plug connector, M plug connector, DIN terminal	Grommet, Grommet terminal, Conduit terminal, DIN terminal		
Coil rated AC(50/6	/60Hz)	100V, 110V, 200V, 220V, 240V				
voltage (V)	DC		6V, 12V, 24V, 48V			
Temperatu	re rise	9	-15 to +10% of 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		1.8 W (Without indicator light), 2.1 W (With indicator light)	4.8 W (Without indicator light), 5 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

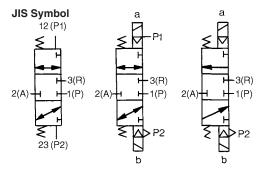
	Part no.								
Description		VEX312□-01	VEX322□-01	VEX332□-02 04	VEX342□-02 04	VEX350□-04 10	VEX370□-10	VEX390□-14 20	
Bracket (With bolt and washer)		VEX1-18-1A	_	_	_	VEX5-32A	VEX7-32A	VEX9-32A	
Foot (With bolt and washer)	F	VEX1-18-2A	_	VEX3-32-2A	_	_	_		
Pilot exhaust port P2 silencer Note)				AN120-M5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

Note) Only with solenoid.

wass (kg							
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 2.1 3.3 Solenoid 0.2 0.3 0.4 0.7 1.6 2.3 3.5

Internal pilot solenoid/External pilot solenoid



Air operated External pilot solenoid Internal pilot solenoid



