

Power Valve: Regulator Valve

Series VEX1

Large capacity relief regulator

Rapid tank internal pressure setting, air blow, constant pressure supply and driving, balance and driving, 2 steps directional control setting and multiple steps pressure control



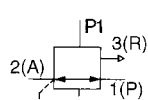
Air operated



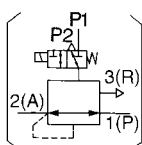
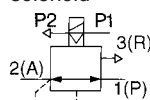
External pilot solenoid

JIS Symbol

Air operated



External pilot solenoid



Specifications

Model		VEX110□-01 02	VEX120□-01 02	VEX130□-02 03 04	VEX150□-04 06 10	VEX170□-10 12	VEX190□-14 20								
Operation type		Air operated, External pilot solenoid													
Fluid		Air													
Max. operating pressure		1.0 MPa													
Set pressure	Air operated	0.05 to 0.9 MPa													
range	Solenoid	0.05 to 0.7 MPa			0.05 to 0.9 MPa										
Ambient and fluid temp.		0 to 50°C (Air operated: 0 to 60°C) No condensation													
Hysteresis		0.03 MPa													
Repeatability		0.01 MPa													
Sensitivity		0.01 MPa													
Mounting		Free													
Lubrication		Not required (Use turbine oil Class 1 ISO VG32, if lubricated.)													
Port size	Port	01	02	01	02	02	03	04	04	06	10	10	12	14	20
	1(P)											1		1½	
	2(A)	⅛	¼	⅛	¼	¼	⅜	½	½	¾	1		1¼		2
	3(R)											1¼		2	
Mass (kg)	Air operated	0.1		0.2		0.4		1.3				1.9		3.9	
	Solenoid	0.2		0.3		0.5		1.4				2.0		4.0	

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

Pilot Solenoid Valve Specifications

Model	VEX1101 / 1201 / 1301	VEX1501 / 1701 / 1901
Pilot valve	VK334-□□□	VO307-□□□
Electrical entry	Grommet, DIN terminal	Grommet, Grommet terminal, Conduit terminal, DIN terminal
Coil rated voltage (V)	AC(50/60Hz) 100V, 110V, 200V, 220V, 240V DC 6V, 12V, 24V, 48V	
Allowable voltage	±10% of rated voltage	-15 to +10% of rated voltage
Apparent power	AC Inrush 9.5VA/50Hz, 8VA/60Hz	12.7VA(50Hz), 10.7VA(60Hz)
	Holding 7VA/50Hz, 5VA/60Hz	7.6VA(50Hz), 5.4VA(60Hz)
power	DC 4 W (Without indicator light), 4.3 W (With indicator light)	4.8 W (Without indicator light), 5 W (With indicator light)
Manual override	Non-locking push type	

Option

Description		Part no.					
		VEX110□-01 02	VEX120□-01 02	VEX130□-02 03 04	VEX150□-04 06 10	VEX170□-10 12	VEX190□-14 20
Bracket (With bolt and washer)	B	VEX1-18-1A	—	VEX3-32A	VEX5-32A	VEX7-32A	VEX9-32A
	F	VEX1-18-2A	—	—	—	—	—
Pressure gauge ^{Note)}	G	G27-10-01	G36-10-01	G46-10-01			



Note) When requiring a gauge different than that mentioned above, specify the model number.
Option is packed with it.
(Refer to Best Pneumatics No. 6.)
Example: VEX1300-03
G36-4-01

How to Order

VEX 1 3 0 1 - 03 [] [] D [] - B

Regulator valve

Operation type

0	Air operated
1	External pilot solenoid

Thread type

Nil	Rc
F	G
N	NPT
T	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 VAC
6*	12 VAC
7*	240 VAC (50/60 Hz)
9*	Other

* Option

Option

Nil	None
B	Bracket
F	Foot (VEX110□ only)
G	Gauge

• When specifying more than one option, combine symbols alphabetically.

Light/Surge voltage suppressor (Only with solenoid)

Nil	None
S	With surge voltage suppressor (For grommet only)
Z	With light/surge voltage suppressor (Except grommet)

Sub-plate and gasket part no.

Sub-plate: VEX1 - 9 - 1 [] [] P

Port size: Symbol Port size

A	1/8
B	1/4

Thread type: Symbol Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

Base gasket: VEX1 - 11 - 2

Body size

Port size

Electrical entry (Only with solenoid)

Body size	Port size			Electrical entry		
	Port	1(P), 2(A)	3(R)			
Body ported	1	01	1/8	1/8	G — Grommet (Lead wire length 300 mm) H — Grommet (Lead wire length 600 mm) D — DIN terminal DO — DIN terminal (Without connector)	
		02	1/4	1/4		
		03	3/8	3/8		
		04	1/2	1/2		
	3	04	1/2	1/2	G — Grommet (Lead wire length 300 mm) H — Grommet (Lead wire length 600 mm) E — Grommet terminal T — Conduit terminal D — DIN terminal	
		06	3/4	3/4		
		10	1	1		
		12	1 1/4	1 1/4		
	5	14	1 1/2	2	G — Grommet (Lead wire length 300 mm) H — Grommet (Lead wire length 600 mm) D — DIN terminal DO — DIN terminal (Without connector)	
		20	2	2		
		7	Nil	Without sub-plate		Nil
			01	1/8		1/8
9	02	1/4	1/4	G — Grommet (Lead wire length 300 mm) H — Grommet (Lead wire length 600 mm) D — DIN terminal DO — DIN terminal (Without connector)		
	03	3/8	3/8			

⚠ Caution

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