How to Order VEX 1 3 0 1 - 03 D Regulator valve Option Nil None Bracket Foot (VEX110□ only) F G Gauge When specifying more Operation type than one option, combine Air operated symbols alphabeticaly. External pilot solenoid Light/Surge voltage suppressor (Only with solenoid) None Nil s With surge voltage suppressor (For grommet only) With light/surge voltage suppressor (Except grommet) Thread type Nil Rc G NPT Ν Sub-plate and gasket part no. NPTF т VEX1 - 9 - 1 Rated voltage (Only with solenoid) Thread type Port size 100 VAC (50/60 Hz) Symbol Port size Symbol Thread type 200 VAC (50/60 Hz) Sub-plate 2 1/8 Nil Rc 3* 110 VAC (50/60 Hz) В 1/4 F G 220 VAC (50/60 Hz) 4* Ν **NPT** 5 24 VAC Т NPTF 12 VAC 6* **7*** 240 VAC (50/60 Hz) VEX1-11-2 Base gasket 9* Other Option Electrical entry (Only with solenoid) Body size Port size

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

⚠ Caution

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

VEX



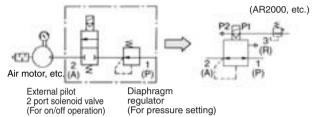
Series VEX1

Application Example

1. Relief regulator (Rapid tank internal pressure setting)

(Relieving type regulator e.g. AR2000) Relieving type diaphragm regulator Large exhaust capacity.Silencer is easy to connect.

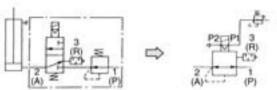
2. Air blow (As 2 port directional control regulator valve)



- · Solenoid on/off operation controls the air flow
- · Setting can be changed by remote control (Remote control)

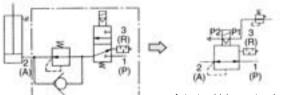
3. Constant pressure supply and driving (As 3 port directional control regulator valve)

Note) The pressure is about 0.01 MPa when OFF because of leakage.



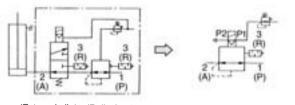
(Solenoid valve) (Regulator)

• Actuator's appropriate pressure control saves energy (Air).



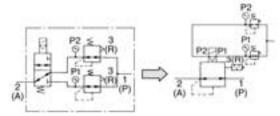
· Actuator driving system becomes

4. Balance and driving



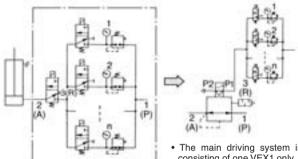
- (External pilot (Relieving type solenoid valve) regulator)
- The large capacity relief valve rapidly responds and sets the balance pressure.
- Solenoid on/off operation drives the cylinder.
- Common exhaust.

5. 2 steps directional control setting

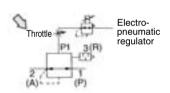


- 3 VALVES IN ONE A simple main system is ensured.
- Remotely controlled by compact pilot system.

6. Multiple steps pressure control (Toward stepless control)



- The main driving system is simple consisting of one VEX1 only.
- · Remotely controlled by compact pilot



- · Steplessly and remotely controlled by electric signals.
- Flexibile pressure control for welders.

· When the VEX outlet side capacity is small, install a speed controller AS2000, in the pilot pipe to lower the pilot pressure for vibration prevention. (Meter-in)

⚠ Caution ((5) 2 steps directional control setting, (6) multiple steps pressure control setting)

- Relieving type regulator such as AR2000, etc. should be used as pilot regulator in the application. (When the non-relieving type is used, pressure cannot be changed from high to low.)
- A sensitive regulator such as the ARP3000, etc. should be used as a pilot regulator on the low pressure side, particularly with 5. 2 steps directional control setting and 6. multipje steps pressure control. (Using a non-sensitive regulator may cause unstable pressure.)