

Power Valve: Regulator Valve

VEX1 Series

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



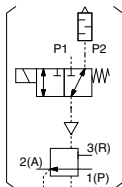
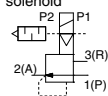
External pilot solenoid

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 range	Air operated	0.05 to 0.9 MPa												
	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	06	10	10	12	14	20
	1(P)													
	2(A)	1/8	1/4	1/8	1/4	1/4	3/8	1/2	1/2	3/4	1	1	1 1/4	1 1/2
	3(R)											1 1/4	2	2
Weight(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-□□□	VO307K-□□□1
Electrical entry	Grommet, DIN terminal	Grommet, DIN terminal
Coil rated voltage (V)	AC(50/60Hz) DC	100 V, 110 V, 200 V, 220 V, 240 V 12 V, 24 V
Allowable voltage	±10% of rated voltage	±15 to +10% of rated voltage
Apparent	AC	Inrush Holding
	9.5 VA/50 Hz, 8 VA/60 Hz 7 VA/50 Hz, 5 VA/60 Hz	12.7 VA (50 Hz), 10.7 VA (60 Hz) 7.6 VA (50 Hz), 5.4 VA (60 Hz)
power	DC	4 W (Without indicator light), 4.3 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
	F	VEX1-18-2A	—	—	—	—
Pressure gauge Note)	G	G27-10-01	G36-10-01	G46-10-01	G46-10-01	G46-10-01

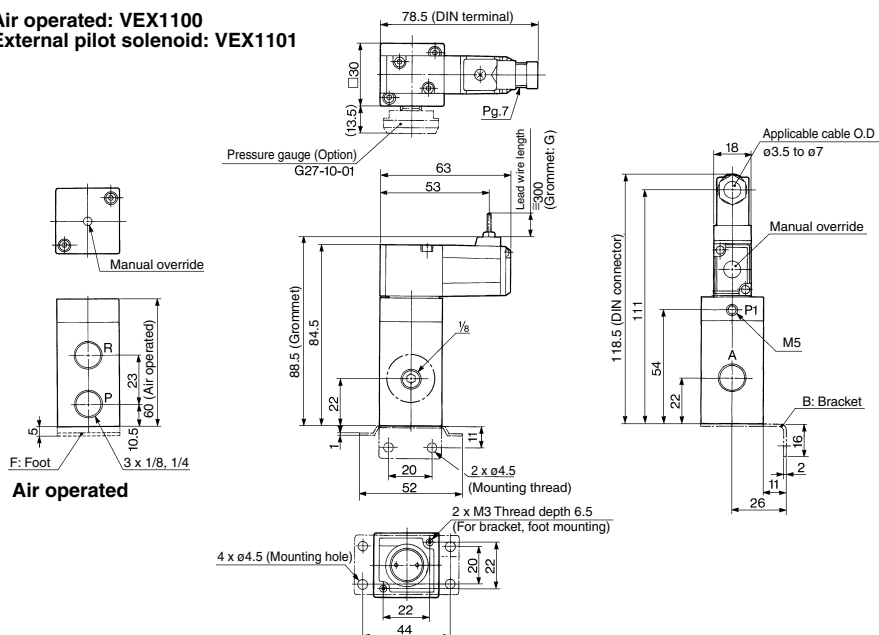
Note) When requiring a gauge different than that mentioned above, specify the model number.

Option is packed with it.
(Refer to Best Pneumatics No. 7.)
Example: VEX1300-03
G36-4-01

VEX1 Series

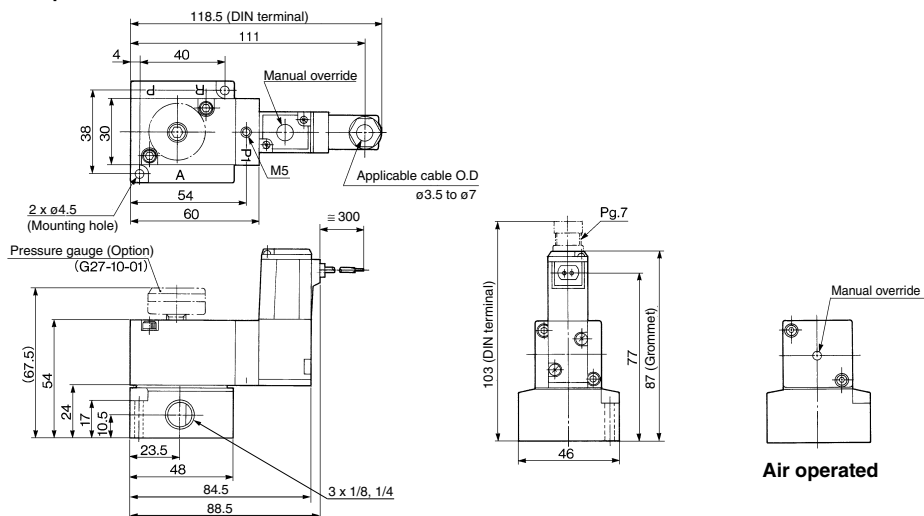
Dimensions

Air operated: VEX1100
External pilot solenoid: VEX1101



Air operated

Air operated: VEX1200
External pilot solenoid: VEX1201



Air operated

⚠ Caution

How to Use DIN Terminal

Refer to page 1418 for VK300 series.