

# Pilot Operated 5 Port Solenoid Valve

## Series VF1000/3000/5000

### Single Unit

Body Ported



Note) Only DIN and conduit terminal types are available with AC mode. Refer to the electrical entry for details.



#### How to Order Valve

Body ported **VF 3 1 3 0** - **5 G** - **1-01** - -

#### Series

1	VF1000
3	VF3000
5	VF5000

#### Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center

\* Only 1 and 2 are available with the VF1000.

#### Body model

Symbol	VF1000	VF3000	VF5000
2	○	—	○
3	—	○	—

#### Pressure specifications

Nil	Standard (102 psi (0.7 MPa))
K	High-pressure type (145 psi (1 MPa))

#### Body option

0: Pilot valve individual exhaust	VF1000	VF3000	VF5000
	○	○	○
VF1000 VF3000 VF5000	○	○	○

3: Main/Pilot valve common exhaust	VF1000	VF3000	VF5000
	—	○	○
VF1000 VF3000 VF5000	—	○	○

\* Refer to "Made to Order" (Page 14) when piping to PE port is required.

#### Coil specifications

Nil	Standard
T	With power saving circuit (DC only)

Note) Be sure to select the power saving circuit type when it is continuously energized for long periods of time. (Refer to page 51 for details.)

\* T type is available with DC mode only. When T is selected, only Z type of light/surge voltage suppressor is available. (Note that when the electrical entry of DIN terminal type without connector is selected, only DOS and YOS are available.)

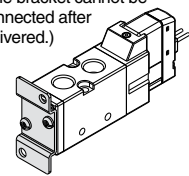
#### Rated voltage

DC	AC (50/60 Hz)
5	1
6	2
	3
	4
	7
	B

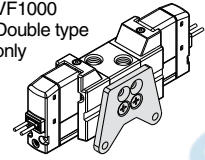
#### Bracket

Nil	Without bracket
F	With bracket

VF1000/3000 Single type (The bracket cannot be connected after delivered.)



VF1000 Double type only



\* Not available with the VF5000.

#### Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

\* M5 is available with Nil only.

#### Made to Order

Nil	—
X500	Pilot exhaust port with piping thread (M3) specification (Refer to page 14.)
X600	TRIAC output specification (Refer to page 14.)

#### A, B port size

Symbol	Port size	VF1000	VF3000	VF5000
M5	M5 x 0.8	○	—	—
01	1/8	○	○	—
02	1/4	—	○	○
03	3/8	—	—	○

#### Electrical entry

Grommet	L-type plug connector	M-type plug connector	DIN terminal	DIN (EN175301-803) terminal	Conduit terminal
G: Lead wire length 300 mm H: Lead wire length 600 mm	L: With lead wire (length 300 mm)	M: With lead wire (length 300 mm)	D: With connector	Y: With connector	T: Conduit terminal
G: Lead wire length 300 mm H: Lead wire length 600 mm DC Without light/surge voltage suppressor	LN: Without lead wire	MN: Without lead wire	DO: Without connector	YO: Without connector	
CE compliant	DC AC <sup>Note 2)</sup>	CE	CE	CE	CE

\* LN and MN types are with 2 sockets.

\* Refer to page 49 when different length of lead wire for L/M-type plug connector is required.

\* Refer to page 50 for details on the DIN (EN175301-803) terminal.

Note 1) When using IP65, select the main/pilot valve common exhaust type. (Except VF1000)

Note 2) With the same specifications as the DC type, all electrical entries for the 24 VAC type are CE marking compliant.

#### Manual override

Nil: Non-locking push type	D: Push-turn locking slotted type	E: Push-turn locking lever type

#### Light/Surge voltage suppressor

Symbol	Light/Surge voltage suppressor	DC	AC
Nil	Without light/surge voltage suppressor	○	○
S	With surge voltage suppressor	○	— <sup>Note)</sup>
Z	With light/surge voltage suppressor	○	○
R	With surge voltage suppressor (Non-polar)	○	—
U	With light/surge voltage suppressor (Non-polar)	○	—

Note) S type is not available with AC mode, since a rectifier prevents surge voltage generation.

\* In the DIN terminal type, since a light is installed in the connector, DOZ, DOU, YOZ, YOU are not available.

#### Caution

When using the surge voltage suppressor type, residual voltage will remain. Refer to page 51 for details.