

Pilot Operated 5 Port Solenoid Valve

VF1000/3000/5000 Series

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

NII	Standard (0.7 MPa)
K	High-pressure type (1 MPa)

Body option

0: Pilot valve individual exhaust

PE port* EA/EB port

VF1000	VF3000	VF5000
○	○	○
○	○	○

3: Main/Pilot valve common exhaust

PE port EA/EB port

VF1000	VF3000	VF5000
—	○	○
—	○	○

Coil specifications

NII	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 348 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	24 VDC	1	100 VAC
6	12 VDC	2	200 VAC
		3	110 VAC [115 VAC]
		4	220 VAC [230 VAC]
		7	240 VAC
		B	24 VAC

* Refer to "Made to Order" (Page 311) when piping to PE port is required.

Thread type

NII	Rc
F	G
N	NPT
T	NPTF

* M5 is available with NII only.

Bracket

NII	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.

Made to Order

NII	—
X500	Pilot exhaust port with piping thread (M3) specification (Refer to page 311.)
X600	TRIAC output specification (Refer to page 311.)

A, B port size

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

Manual override

NII: 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
NII	Without light/surge voltage suppressor	○	○
S	With surge voltage suppressor	○	—(NII)
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 348 for details.

Grommet	L-type plug connector	M-type plug connector	DIN terminal (IP65 compatible)	DIN (EN175301-803) terminal (IP65 compatible)	Conduit terminal (IP65 compatible)
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
	LN: Without lead wire	MN: Without lead wire	DO: Without connector	YO: Without connector	
G: Lead wire length 300 mm H: Lead wire length 600 mm DC Without light/surge voltage suppressor	LO: Without connector	MO: Without connector			
CE compliant	DC	DC	DC	DC	DC
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—

* LN and MN types are with 2 sockets.

* Refer to page 346 when different length of lead wire for L/M-type plug connector is required.

* Refer to page 347 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.

