

Pilot Operated 5 Port Solenoid Valve

VF3000/5000 Series

Single Unit

Base Mounted



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



How to Order Valve

Base mounted
(VF1000: Not available)

Series

3	VF3000
5	VF5000

* Not available with the VF1000.

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

Body model

Body option

0: Pilot valve individual exhaust

VF3000	VF5000
○	—

3: Main/Pilot valve common exhaust

VF3000	VF5000
○	—

4: Pilot valve base exhaust

VF3000	VF5000
—	○

Pressure specifications

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

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	1	100 VAC
	2	200 VAC
	3	110 VAC [115 VAC]
	4	220 VAC [230 VAC]
	7	240 VAC
	B	24 VAC

Made to Order

NII	—
X600	TRIAC output specification (Refer to page 311.)

Thread type

NII	Rc
F	G
N	NPT
T	NPTF

Port size (Sub-plate)

Symbol	Port size	VF3000	VF5000
NII	Without sub-plate	○	○
02	1/4	○	○
03	3/8	○	○
04	1/2	—	○

* Without the sub-plate, two mounting screws and a gasket are included.

Manual override

NII: Non-locking push type	D: Push-tum locking slotted type	E: Push-tum 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	○	— (new)
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.

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 800 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	DC	CE	CE	CE	CE
compliant	AC (VDE 0113)	—	—	—	—

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.

- * 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 or pilot valve base exhaust type.
- Note 2) With the same specifications as the DC type, all electrical entries for the 24 VAC type are CE marking compliant.