

Rubber Seal 3 Port/Pilot Poppet Type Body Ported/Single Unit VP300/500/700 Series

Note) Manual override with locking function (D and E type) are excluded, because they don't comply with safety standard.

How to Order

Body ported

VP 3 4 2 [] [] [] - 5 G [] [] [] 1-01 [] A - [] - []

Series

3	VP300
5	VP500
7	VP700

Pilot type

Nil	Internal pilot	●
R	External pilot	●

Pressure specification

Nil	Standard (0.7 MPa)	●
K	High-pressure type (1.0 MPa)	—

Coil specification

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 a long time.

* T type is only available for DC mode. 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	UL-compliant	
5	24 VDC	●
6	12 VDC	●

AC (50/60 Hz) Note)

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

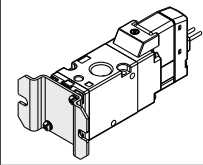
Note) For triac output, refer to the made-to-order specifications (X600).

Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

Bracket

Nil	Without bracket
F	With bracket



Type of actuation

A	N.C. (Normally closed)
B	N.O. (Normally open)

Port size

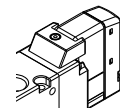
Symbol	Port size	VP300	VP500	VP700
01	1/8	○	—	—
02	1/4	○	○	—
03	3/8	—	○	○
04	1/2	—	—	○

Made to Order

Nil	—	●
X500	Pilot exhaust port with piping thread (M3) specification.	●
X505	Interchangeable specification with the previous valve mounting hole pitch type.	●
X600	Triac output specification.	—

Manual override

Nil: Non-locking push type



Light/surge voltage suppressor

		DC	AC
Nil	Without light/surge voltage suppressor	○	○
S	With surge voltage suppressor	○	— ^{Note)}
Z	With light/surge voltage suppressor	○	○
R	With surge voltage suppressor (Non-polar)	○	—
U	With light/surge voltage suppressor (Non-polar)	○	—

Note) There is no S option for 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 600 mm	L: With lead wire (length 300 mm) LN: Without lead wire	M: With lead wire (length 300 mm) MN: Without lead wire	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	LO: Without connector	MO: Without connector	DO: Without connector	YO: Without connector	
CE-compliant	DC AC ^{Note)}	CE	CE	CE	CE

* LN and MN types are with 2 sockets.

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

Caution

When using the surge voltage suppressor type, residual voltage will remain.

SMC validation products have been validated based on ISO 13849-2: 2012 Annex A, B & D.

Rubber Seal 3 Port/Pilot Poppet Type Base Mounted/Single Unit VP300/500/700 Series

(Note) Manual override with locking function (D and E type) are excluded, because they don't comply with safety standard.

How to Order

Base mounted

VP 3 4 4 - 5 G 1 - A -

Series

3	VP300
5	VP500
7	VP700

Pilot type

Nil	Internal pilot	UL-compliant
R	External pilot	●

Pressure specification

Nil	Standard (0.7 MPa)	UL-compliant
K	High-pressure type (1.0 MPa)	—

Coil specification

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 a long time.

* T type is only available for DC mode. 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	UL-compliant
5	24 VDC ●
6	12 VDC ●

AC (50/60 Hz)	Note	UL-compliant
1	100 VAC	—
2	200 VAC	—
3	110 VAC [115 VAC]	—
4	220 VAC [230 VAC]	—
7	240 VAC	—
B	24 VAC	●

(Note) For triac output, refer to the made-to-order specifications (X600).

Type of actuation

A	N.C. (Normally closed)
B	N.O. (Normally open)

Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

Made to Order

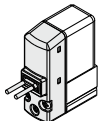
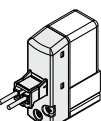
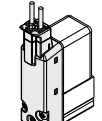
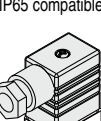
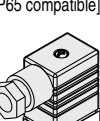
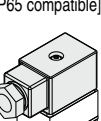
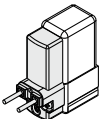




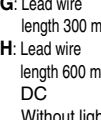
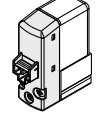
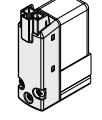
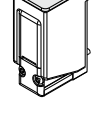
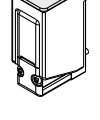
Nil	UL-compliant
X500	Pilot exhaust port with piping thread (M3) specification. ●
X600	Triac output specification. —

Port size (Sub-plate)

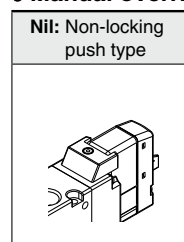
Symbol	Port size	VP300	VP500	VP700
Nil	Without sub-plate*			
01	1/8	○	○	—
02	1/4	○	○	—
03	3/8	—	○	○
04	1/2	—	—	○

* With a gasket and two mounting bolts.

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)	 [IP65 compatible] D: With connector	 [IP65 compatible] 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	
 G: Lead wire length 300 mm H: Lead wire length 600 mm DC Without light/surge voltage suppressor	 LO: Without connector	 MO: Without connector	 DO: Without connector	 YO: Without connector	
CE-compliant DC	CE	CE	CE	CE	CE
AC	—	—	—	—	—

Manual override



Light/surge voltage suppressor

Nil	DC	AC
S	Without light/surge voltage suppressor	○
S	With surge voltage suppressor	○ (Note)
Z	With light/surge voltage suppressor	○
R	With surge voltage suppressor (Non-polar)	○
U	With light/surge voltage suppressor (Non-polar)	○

(Note) There is no S option for AC mode, since a rectifier prevents surge voltage generation.

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When using the surge voltage suppressor type, residual voltage will remain.

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