

# 3 Port Solenoid Valve

## VP300/500/700 Series



### Selectable power consumption!

# 0.4 w

[Low wattage specification]

# 0.55 w 1.55\* w

[With power saving circuit]

[Standard]

[Starting 1.55 W, Holding 0.55 W] \* Current model: 2.0 W With DC light



VP300 series

### Low wattage specification added

\* VP300/500

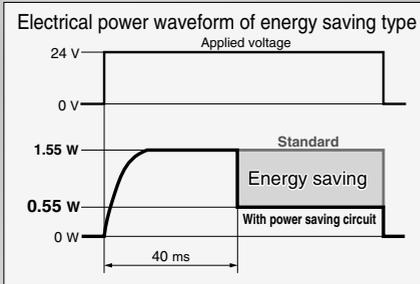
P.1278

**Power consumption** **0.35 w** (Without light)  
**0.4 w** (With light)



### Power consumption is reduced by power saving circuit.

Power consumption is decreased by approx. 1/3 by reducing the wattage required to hold the valve in an energized state. (Effective energizing time is over 40 ms at 24 VDC.) Refer to electrical power waveform as shown below.



### ■ Built-in full-wave rectifier (AC)

#### ● Noise reduction

Noise is considerably reduced by changing it to DC mode with a full-wave rectifier.

#### ● Reduced apparent power

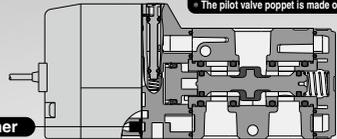
Current 5.6 VA → **1.55 VA** [Standard]

### ■ Built-in strainer in the pilot valve

Unexpected troubles due to foreign matter can be prevented.

Note) Be sure to mount an air filter on the inlet side.

Rubber material: HNBR  
Ozone-resistant specification  
The pilot valve poppet is made of FKM.



Strainer

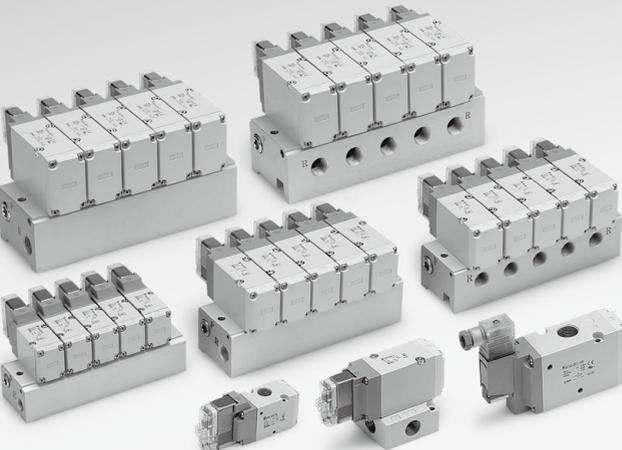
SYJ

VQZ

VP

VG

VP3



### Air Operated Valve

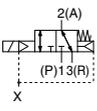
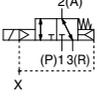
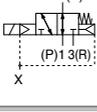
## VPA300/500/700 Series

P.1555



# Model Selection by Operating Conditions ①

## Solenoid Valve: Single Unit

	Series	Sonic conductance C [dm <sup>2</sup> /(s·bar)]	Type of actuation	Port size	Voltage	Electrical entry	Light/surge voltage suppressor	Manual override
Body ported	<b>VP300</b>	4.2	Internal pilot N.C. 	1/8 1/4		Grommet 		
	<b>VP500</b>	8.9	N.O. 	1/4 3/8		L-type plug connector 		Non-locking push type 
	<b>VP700</b>	15.3	External pilot N.C./N.O. 	3/8 1/2	12 VDC 24 VDC 24 VAC 100 VAC	M-type plug connector  DIN terminal	DC ■ With surge voltage suppressor ■ With light/surge voltage suppressor ■ With surge voltage suppressor (Non-polar) ■ With light/surge voltage suppressor (Non-polar)	Push-turn locking slotted type 
Base mounted	<b>VP300</b>	3.8	Internal pilot N.C. 	1/8 1/4	200 VAC 110 VAC 220 VAC 240 VAC		AC ■ With light/surge voltage suppressor	
	<b>VP500</b>	8.8	N.O.  External pilot N.C. 	1/4 3/8		DIN (EN1753 01-803) terminal 		Push-turn locking lever type 
	<b>VP700</b>	15.0	N.O. 	3/8 1/2		Conduit terminal 		

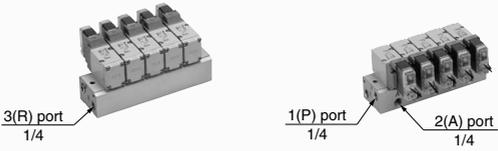
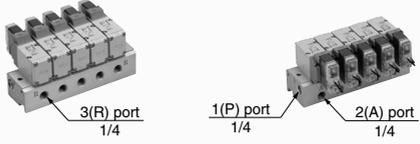
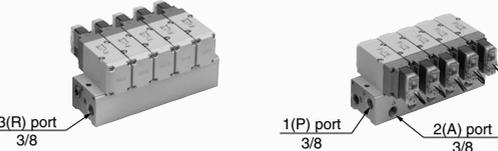
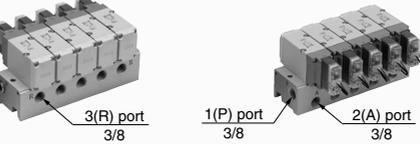
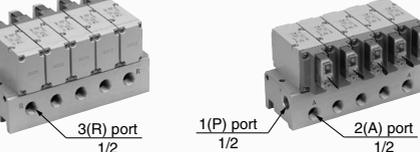
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Low wattage specification From page 1278 Power consumption: 0.35 W (Without light) 0.4 W (With light)

# Model Selection by Operating Conditions ②

## Solenoid Valve: Manifold

Series	EXH port type	Manifold base model	Applicable stations <small>(Note)</small>
VP300	Common EXH	<b>VV3P3-41</b> 	2 to 20 stations
	Individual EXH	<b>VV3P3-42</b> 	
VP500	Common EXH	<b>VV3P5-41</b> 	2 to 20 stations
	Individual EXH	<b>VV3P5-42</b> 	
VP700	Common EXH	<b>VV3P7-41</b> 	2 to 20 stations
	Individual EXH	<b>VV3P7-42</b> 	

Solenoid valve  
Base mounted

P. 1282

- SYJ
- VQZ
- VP**
- VG
- VP3

(Note) Supply pressure to 1(P) ports and exhaust air from 3(R) ports on both sides for 10 stations or more.

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

## How to Order



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



Note) Pressure specifications: 0.7 MPa, DC or 24 VAC only. Only applies to X500 and X505 for made-to-order specifications



### 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. (Refer to page 1296 for details.)

\* 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)

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

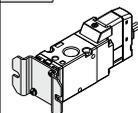
Note) For triac output, refer to the made-to-order specifications (X600).

#### 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 (Refer to page 1291).	●
X505	Interchangeable specification with the previous valve mounting hole pitch type (Refer to page 1291).	●
X600	Triac output specification (Refer to page 1291).	—

#### Manual override

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

#### 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 Nil	—	—	—	—

#### 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.

#### Caution

When using the surge voltage suppressor type, residual voltage will remain. Refer to page 1300 for details.

\* LN and MN types are with 2 sockets.

\* Refer to page 1294 when different length of lead wire for L/M-type plug connector is required.

\* Refer to page 1295 for details on the DIN (EN175301-803) terminal.

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

# Pilot Poppet Type Body Ported/Single Unit **VP300/500/700 Series**

Low power consumption 1.5 W (DC)

Possible to use as either a selector or divider valve

Possible to change from N.C. to N.O.

• Refer to page 1300 for changing the type of actuation.

Possible to use in vacuum applications

Up to -100 kPa



VP300 Series



VP500 Series



VP700 Series

## External Pilot

Use external pilot type in the following cases:

- For vacuum or for low pressure 0.2 MPa or less
- Since this valve has slight air leakage, it can not be used for holding vacuum (including positive pressure holding) in the pressure container.
- When having P port downsized in diameter
- When using A port as the atmospheric releasing port, e.g. air blow



**Made to Order**

(Refer to page 1291 for details.)

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

## Specifications

Fluid		Air
Type of actuation		N.C. or N.O. (Convertible)
Internal pilot Operating pressure range (MPa)	Standard	0.2 to 0.7
	High-pressure type	0.2 to 1.0
External pilot Operating pressure range (MPa)	Standard	-100 kPa to 0.7
	High-pressure type	-100 kPa to 1.0
Pilot pressure range		Same as operating pressure (Min. 0.2 MPa)
Ambient and fluid temperature (°C)		-10 to 50 (No freezing)
Max. operating frequency (Hz)		5
Manual override		Non-locking push type Push-turn locking slotted type Push-turn locking lever type
Pilot exhaust type		Individual exhaust
Lubrication		Not required
Mounting orientation		Unrestricted
Impact/Vibration resistance (m/s <sup>2</sup> ) <sup>Note</sup>		300/50
Enclosure		Dust-tight (IP65 for D, Y, T)

Note) Impact resistance: No malfunction occurred when it is tested in the axial direction and at the right angles to the main valve and armature in both energized and de-energized states every once for each condition. (Values at the initial period)

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period)

## Solenoid Specifications

Electrical entry		Grommet (G), (H) L-type plug connector (L) M-type plug connector (M)	DIN terminal (D) DIN (EN175301-803) terminal (Y) Conduit terminal (T)
		G, H, L, M	D, Y, T
Coil rated voltage (V)	DC	24, 12	
	AC (50/60 Hz)	24, 100, 110, 200, 220, 240	
Allowable voltage fluctuation ±10% of rated voltage*			
Power consumption (W)	DC	Standard	1.5 (With light: 1.55)
		With power saving circuit	0.55 <sup>Note)</sup> (With light only) [Starting 1.55, Holding 0.55]
Apparent power (VA) <sup>†</sup>	AC	24 V	1.5 (With light: 1.55)
		100 V	1.55 (With light: 1.65)
		110 V [115 V]	
		200 V	
		220 V [230 V]	
		240 V	
Standard	1.5 (With light: 1.75)		
With power saving circuit	0.75 <sup>Note)</sup> (With light only) [Starting 1.75, Holding 0.75]		
Surge voltage suppressor Diode (Non-polar type: Varistor)			
Indicator light LED (Neon bulb is used for AC mode of D, Y, T.)			

\* It is in common between 110 VAC and 115 VAC, and between 220 VAC and 230 VAC.

\* Allowable voltage fluctuation is -15% to +5% of the rated voltage for 115 VAC or 230 VAC.

\* Since voltage drops due to the internal circuit in S, Z, T types (with power saving circuit), the allowable voltage fluctuation should be within the following range.

24 VDC: -7% to +10%

12 VDC: -4% to +10%

Note) Refer to page 1296 for details.

## Response Time

Model	Pressure specifications	Response time ms (at 0.5 MPa)			
		Without light/surge voltage suppressor	With light/surge voltage suppressor		AC
		S, Z type	R, U type		
VP342	Standard (0.2 to 0.7)	13 or less	38 or less	16 or less	38 or less
	High-pressure type (0.2 to 1.0)	17 or less	42 or less	20 or less	42 or less
VP542	Standard (0.2 to 0.7)	14 or less	39 or less	17 or less	39 or less
	High-pressure type (0.2 to 1.0)	18 or less	43 or less	21 or less	43 or less
VP742	Standard (0.2 to 0.7)	19 or less	44 or less	22 or less	44 or less
	High-pressure type (0.2 to 1.0)	22 or less	47 or less	25 or less	47 or less

Note) Based on dynamic performance test, JIS B 8419: 2010. (Coil temperature: 20°C, at rated voltage)

SYJ

VQZ

VP

VG

VP3

Body Ported  
Base Mounted

# Low Wattage Specification VP300/500 Series

How to Order Valve



Note) AC-type models that are CE-compliant have DIN terminals only. Refer to the electrical entry for details.



VP 3 4 2 R Y - 5 D Z E 1 - 02 T A - F

**Series**

3	VP300
5	VP500

**Body type**

Mountable manifold	
2	Body ported
4	Base mounted

Note) Refer to page 1282.

**Pilot type**

Nil	Internal pilot
R	External pilot

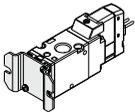
**Low wattage type**

**Rated voltage**

1	100 VAC
2	200 VAC
3	110 VAC
4	220 VAC
5	24 VDC
6	12 VDC

**Bracket**

Nil	Without bracket
F	With bracket*



\* Body ported only

**Type of actuation**

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

**Thread type**

Nil	Rc, M5
F	G
N	NPT
T	NPTF

**Port size**

**Body Ported**

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

**Base Mounted**

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

\* With a gasket and two mounting bolts.

**Manual override**

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

**Electrical entry**

24 VDC, 12 VDC/100 VAC, 110 VAC, 200 VAC, 220 VAC				24 VDC, 12 VDC/100 VAC, 110 VAC, 200 VAC, 220 VAC	
Grommet		L-type plug connector	M-type plug connector	DIN terminal	
G: Lead wire length 300 mm	L: With lead wire (Length 300 mm)	M: With lead wire (Length 300 mm)	MN: Without lead wire	<IP65 compatible> D: With connector	<IP65 compatible> Y: With connector
H: Lead wire length 600 mm	LN: Without lead wire	LO: Without connector	MO: Without connector	DO: Without connector	YO: Without connector
DC	●	●	●	●	●
AC	—	—	—	●	●

\* LN and MN types are with 2 sockets.

\* Y type DIN terminal complies with EN-175301-803C (former DIN 43650C). Refer to page 1299 for details.

**Light/Surge voltage suppressor**

**Electrical entry for G, H, L, M**

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor
Z	With light/surge voltage suppressor
R	With surge voltage suppressor (Non-polar type)
U	With light/surge voltage suppressor (Non-polar type)

\* For AC voltage valves there is no "S" option. It is already built-in to the rectifier circuit.  
\* For "R" and "U", DC voltage is only available.

**Electrical entry for D, Y**

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor (Non-polar type)
Z	With light/surge voltage suppressor (Non-polar type)

\* DOZ and YOZ are not available.  
\* For AC voltage valves there is no "S" option. It is already built-in to the rectifier circuit.

## Specifications

Fluid	Air
Type of actuation	N.C. or N.O. (Convertible)
Internal pilot operating pressure range (MPa)	0.2 to 0.7
External pilot operating pressure range (MPa)	-100 KPa to 0.7
Pilot pressure range	Equivalent to operating pressure (Min. 0.2)
Ambient and fluid temperature (°C)	-10 to 50 (No freezing)
Max. operating frequency (Hz)	5
Manual override	Non-locking push type Push-turn locking slotted type Push-turn locking lever type
Pilot exhaust type	Individual exhaust
Lubrication	Not required
Mounting orientation	Unrestricted
Impact/Vibration resistance (m/s <sup>2</sup> ) <small>Note)</small>	150/30
Enclosure	Dustproof (IP65 for D and Y)

Note) Impact resistance: No malfunction occurred when it is tested in the axial direction and at the right angles to the main valve and armature in both energized and de-energized states every once for each condition. (Values at the initial period)

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period)

## Solenoid Specifications

Electrical entry		Grommet (G), (H) L-type plug connector (L) M-type plug connector (M) G, H, L, M	DIN terminal (D) DIN (43650B) terminal (Y) D, Y	
Coil rated voltage (V)	DC	24, 12		
	AC (50/60 Hz)	100, 110, 200, 220		
Allowable voltage fluctuation		±10% of rated voltage*		
Power consumption (W)	DC Standard	0.35 (With light: 0.4 (With light of DIN terminal: 0.45))		
Apparent power (VA) <sup>†</sup>	AC	100 V	0.78 (With light: 0.81)	0.78 (With light: 0.87)
		110 V [115 V]	0.86 (With light: 0.89) [0.94 (With light: 0.97)]	0.86 (With light: 0.97) [0.94 (With light: 1.07)]
		200 V	1.18 (With light: 1.22)	1.15 (With light: 1.30)
		220 V [230 V]	1.30 (With light: 1.34) [1.42 (With light: 1.46)]	1.27 (With light: 1.46) [1.39 (With light: 1.60)]
		Surge voltage suppressor	Diode (DIN terminal, Non-polar type: Varistor)	
Indicator light		LED (Neon bulb is used for AC mode of D and Y.)		

\* It is in common between 110 VAC and 115 VAC, and between 220 VAC and 230 VAC.

† Allowable voltage fluctuation is -15% to +5% of the rated voltage for 115 VAC or 230 VAC.

‡ For details, refer to page 1298.

SYJ

VQZ

VP

VG

VP3

## Response Time

Series	Type of actuation	Response time ms (at 0.5 MPa)			
		Without light/surge voltage suppressor	With light/surge voltage suppressor		AC type
			S, Z type	R, U type	
VP300	VP342Y	16	40	21	40
	VP344Y	16	40	21	40
VP500	VP542Y	31	45	36	44
	VP544Y	31	45	36	44

Note) Based on dynamic performance test, JIS B 8419: 2010.  
(Coil temperature: 20°C, at rated voltage)

# Rubber Seal/3 Port/Pilot Poppet Type Manifold Common Exhaust **Type 41/** Individual Exhaust **Type 42** **VP300/500/700 Series**

## How to Order Manifold

### Type 41/Common exhaust



VV3P **3** - 41  - **04** 1 - **02**

#### Series

3	VP300
5	VP500
7	VP700

#### Pilot type

Nil	Internal pilot
R	External pilot

Note) When the external pilot type manifold is selected, external pilot type valves are mounted.

#### Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

#### Port size

Symbol	Port size	Applicable series
02	1/4	VP300
03	3/8	VP500
04	1/2	VP700

#### Stations

02	2 stations
:	:
20	20 stations

### Type 42/Individual exhaust



VV3P **3** - 42  - **04** 3 - **02**

#### Series

3	VP300
5	VP500
7	VP700

#### Pilot type

Nil	Internal pilot
R	External pilot

Note) When the external pilot type manifold is selected, external pilot type valves are mounted.

#### Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

#### Port size

Symbol	Port size	Applicable series
02	1/4	VP300
03	3/8	VP500
04	1/2	VP700

#### Stations

02	2 stations
:	:
20	20 stations

# Pilot Poppet Type Common Exhaust **Type 41** / Individual Exhaust **Type 42** **VP300/500/700 Series**

## How to Order Valve (With a gasket and two mounting bolts)



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



Note) Pressure specifications: 0.7 MPa, DC or 24 VAC only. Only applies to X500 and X505 for made-to-order specifications.



\* For low wattage specification, refer to "How to Order Valve" on page 1278.

**VP 3 4 4**       **- 5 G**     **1 - A -**

**Series**

3	VP300
5	VP500
7	VP700

**Pilot type**  UL-compliant

Nil	Internal pilot	●
R	External pilot	●

**Pressure specification**  UL-compliant

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. (Refer to page 1296 for details.)  
\* 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)

**Manual override**

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

**Light/surge voltage suppressor**

	DC	AC
Nil	Without light/surge voltage suppressor	<input type="radio"/>
S	With surge voltage suppressor	<input type="radio"/> (Note)
Z	With light/surge voltage suppressor	<input type="radio"/>
R	With surge voltage suppressor (Non-polar)	<input type="radio"/>
U	With light/surge voltage suppressor (Non-polar)	<input type="radio"/>

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.

**Caution**

When using the surge voltage suppressor type, residual voltage will remain. Refer to page 1300 for details.

**Made to Order**  UL-compliant

Nil	—	●
X500	Pilot exhaust port with piping thread (M3) specification (Refer to page 1291).	●
X600	Triac output specification (Refer to page 1291).	—

**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 <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>			

\* LN and MN types are with 2 sockets.  
\* Refer to page 1294 when different length of lead wire for L/M-type plug connector is required.  
\* Refer to page 1295 for details on the DIN (EN175301-803) terminal.  
Note) With the same specifications as the DC type, all lead wire entries for the 24 VAC type are CE marking compliant.



# VP300/500/700 Series

**Piping is concentrated on the base side.**

**All external pilots are gathered in the base.**

Common external pilot port allows one piping.

**2 types of exhaust ports**

Common or individual exhaust type are available. For individual exhaust type, exhaust can be restricted.

**Easy to change between N.C. and N.O.**

Type of actuation can be easily changed from normally closed to normally open by changing the direction of a valve and end-plate only 180°.

- Refer to page 1300 for changing the type of actuation.



## Manifold Specifications

Series	Base model	Piping specifications			Applicable valve	Applicable stations <sup>(Note)</sup>	Manifold base Weight: W [g] Stations: n
		1P (SUP) port type	3R (EXH) port type	Port size			
VP300	VV3P3-41	Common	Common	1/4	VP344	2 to 20 stations	W = 110n + 90
	Individual						
VP500	VV3P5-41		Common	3/8	VP544	2 to 20 stations	W = 190n + 150
	VV3P5-42		Individual				
VP700	VV3P7-41		Common	1/2	VP744	2 to 20 stations	W = 410n + 380
	VV3P7-42		Individual				

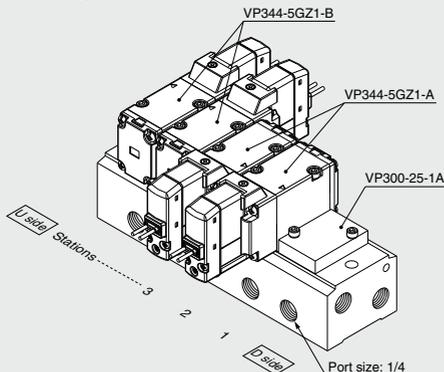
Note) Supply pressure to 1(P) ports and exhaust pressure from 3(R) ports on both sides for 10 stations or more.

## Manifold Option

Description	Part no.	Applicable manifold base model
Blanking plate assembly (With a gasket and two mounting bolts)	VP300-25-1A	VV3P3
	VP500-25-1A	VV3P5
	VP700-25-1A	VV3P7

## How to Order Manifold Assembly (Example)

### Ordering example (VV3P3-41)



VV3P3-41-051-02 ..... 1 set (Type 41, 5-station manifold base part no.)  
 \* VP300-25-1A ..... 1 set (Blanking plate assembly part no.)  
 \* VP344-5GZ1-A ..... 2 sets (N.C. type part no.)  
 \* VP344-5GZ1-B ..... 2 sets (N.O. type part no.)

The asterisk denotes the symbol for assembly.  
 Prefix it to the part nos. of the solenoid valve, etc.

\* Indicate the valves to be attached below the manifold part number, in order starting from station 1 as shown in the drawing.



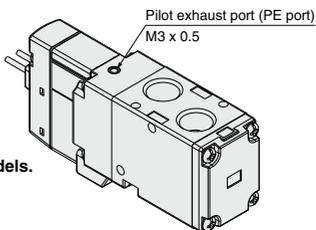
## 1 Pilot Exhaust Port with Piping Thread (M3) Specification

In this specification, piping to the pilot exhaust port (PE port) is available when the valve is used in an environment where the exhaust from the pilot valve is not allowable, or intrusion of ambient dust should be prevented.

### How to Order Valve

VP $\frac{3}{5}$  $\frac{4}{4}$  □□□ - □□□□□ 1 - □□□□ - X500

- Entry is the same as standard products. The specifications, performance and external dimensions are the same as those of standard models.



## 2 Body Ported Interchangeable Specification with the Previous Valve Mounting Hole Pitch Type

The mounting hole has been changed to the long type in order to provide interchangeability with the previous VP300/500 series.

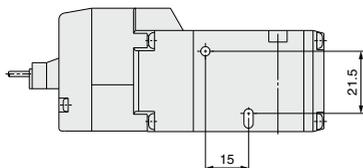
### How to Order Valve

VP $\frac{3}{5}$ 42 □□□ - □□□□□ 1 - □□□□ - X505

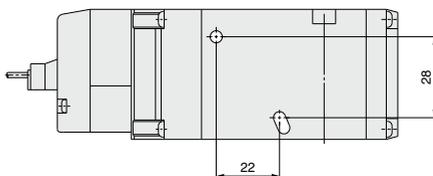
- Entry is the same as standard products. The specifications, performance and external dimensions are the same as those of standard models.

Note) VP742 is not available because the mounting hole pitch is the same as the previous type.

VP342



VP542



SYJ

VQZ

VP

VG

VP3

## 3 TRIAC Output Specification

For AC type valve, use this specification when the pilot valve is not recovered even though valve power supply is turned OFF at the equipment using output unit with large leakage voltage over 8% of the rated voltage (TRIAC output such as PLC or SSR, etc.). Combination with low wattage specification is not possible.

### How to Order Valve

VP $\frac{3}{5}$  $\frac{4}{7}$  □□□ - □□□□□ 1 - □□□□ - □ - □ - X600

- Entry is the same as standard products.

Note) Rated voltage: AC type only

# Rubber Seal 3 Port/Pilot Poppet Type VP300/500/700 Series



## How to Order

30-VP 3 4 4 - 1 D B - 01 A - F - Q

Conforming to  
CSA standard

VP series  
solenoid valve

Body size\*

3	1/4 standard
5	3/8 standard
7	1/2 standard

Type of actuation\*

4	In common between N.C. and N.O. (Pilot type)
---	----------------------------------------------

Body type\*

2	Body ported
4	Base mounted

Valve option\*

Nil	Standard (Internal pilot)
R*	External pilot

\* Semi-standard

Rated voltage\*

1	100 VAC, 50/60 Hz
2	200 VAC, 50/60 Hz
3*	110 to 120 VAC, 50/60 Hz
4*	220 VAC, 50/60 Hz
5	24 VDC
6*	12 VDC
7*	240 VAC, 50/60 Hz

\* Semi-standard

Electrical entry\*

D	DIN terminal (With connector)
DO	DIN terminal (Without connector)

CE-compliant

Nil	—
Q	CE-compliant

Option

Nil	Without bracket
F	With bracket

\* 30-VP342, 542, and 742 only

Passage symbol

A	Normally closed
B	Normally open

Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

Port size

Symbol	Port size	30-VP342	30-VP542	30-VP742
Nil*	Without sub-plate	●	●	●
01	1/8	●		
02	1/4	●	●	
03	3/8		●	●
04	1/2			●

\* 30-VP344, VP544, and VP744 only

Manual override

Nil	Push type
B*	Locking slotted type
C*	Locking lever type

\* Semi-standard

Light/Surge voltage suppressor

Nil	None
Z*	With light/surge voltage suppressor

\* Semi-standard

## Caution

For safety instructions, specific product precautions, product specifications, dimensions, and model selection, refer to the individual product catalog (discontinued products). However, note that the DIN connector differs from the standard product.