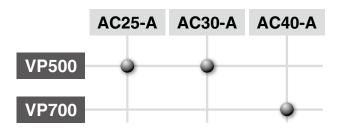
## **Modular Connection Type**

# Residual Pressure Relief 3 Port Solenoid Valve



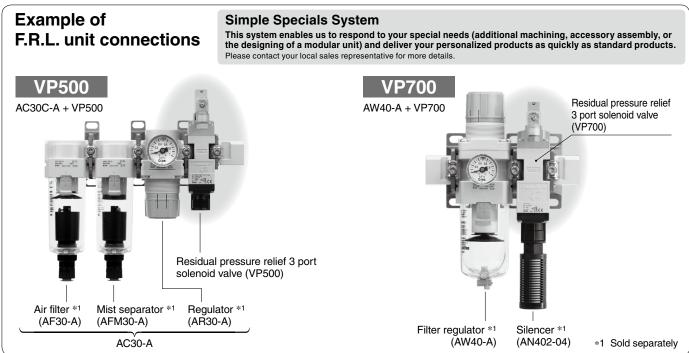
## For connecting to F.R.L. units



Allows for space saving and reduced piping labor.

Power consumption: 0.35 W (Without light)



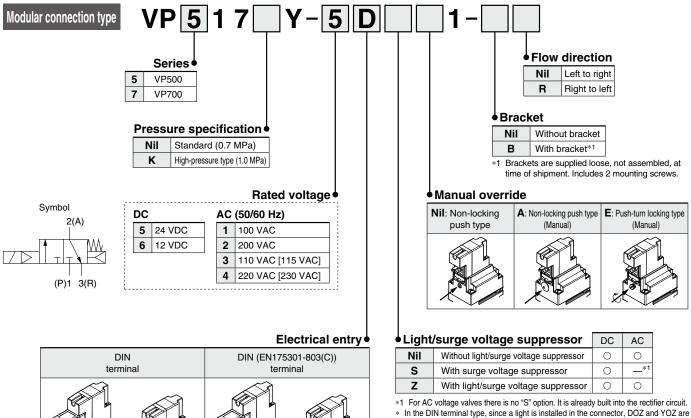


## **VP500/700** Series



#### **How to Order**





Refer to the **Web Catalog** (VP300/500 Low wattage specification) for details of the

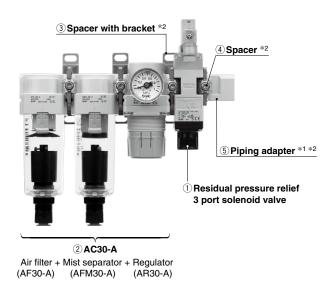
Y: With connector YO: Without connector

#### **⚠** Caution

When using the surge voltage suppressor type, residual voltage will remain. For details, refer to the **Web Catalog** (VP300/500 Low wattage specification).

#### **Assembly Example**

D: With connector DO: Without connector



- \*1 Connection threads are not available for the residual pressure relief 3 port solenoid valve. Order a piping adapter separately.
- \*2 Refer to page 3 for details of the spacer and piping adapter.

Products do not come assembled. They should be ordered separately and assembled by the customer.

\* The Simple Specials System deals with product unification. Please contact your local sales representative for more details.

Assembly example —	
① Residual pressure relief 3 port solenoid valve VP517Y-5DZ1	1 pc.
② Air combination AC30C-03DG	1 pc.
③ Spacer with bracket Y300T-A	1 pc.
4 Spacer Y300-A	1 pc.
⑤ Piping adapter E300-03-A ······	1 pc.

#### **Applicable Combinations/Attachment Part Nos.**

Residual pressure relief 3 port solenoid valve	Applicable air combination	Spacer	Spacer with bracket	Piping adapter	Silencer
VP517	AC25□-A, AC30□-A	Y300-A	Y300T-A	E300-□03-A	AN30-03 AN302-03
VP717	AC40□-A	Y400-A	Y400T-A	E400-□04-A	AN40-04 AN402-04

\* Refer to page 3 for details of the spacer.



<sup>\*</sup> In the DIN terminal type, since a light is installed in the connector, DOZ and YOZ are not available.

## Modular Connection Type Residual Pressure Relief 3 Port Solenoid Valve VP500/700 Series

#### **Specifications**

Fluid		Air				
Type of actuation		N.C.				
Internal pilot	Standard	0.2 to 0.7				
Operating pressure range [MPa]	High-pressure type	0.2 to 1				
Ambient and fluid temperature [°	C]	-10 to 50 (No freezing)				
Maximum operating frequency [H	iz]	5				
Manual override (Manual operation)		Non-locking push type Push-turn locking type (Manual) Non-locking push type (Manual)				
Pilot exhaust method		Individual exhaust				
Lubrication		Not required				
Mounting orientation		Unrestricted				
Impact/Vibration resistance [m/s²	*1	150/30				
Enclosure		IP65				

<sup>\*1</sup> Impact resistance: No malfunction occurred when it was tested in the axial direction and at right angles to the main valve and armature in both energized and deenergized states. Each condition was tested once. (Default settings) Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed in both energized and de-energized states in the axial direction and at right angles to the main valve and armature. (Default settings)

#### **Solenoid Specifications**

			DIN terminal (D)
Electrical entry			DIN terminal (Y) <en175301-803 (c)=""></en175301-803>
			D, Y
Coil rated voltage [V] DC AC (50/60 Hz)			24, 12
		50/60 Hz)	100, 110, 200, 220
Allowable voltage fluct	uatior	1	±10% of rated voltage*2
Power consumption [W]	DC	Standard	0.35 (With light: 0.45)
		100 V	0.78 (With light: 0.87)
A		110 V [115 V]	0.86 (With light: 0.97) [0.94 (With light: 1.07)]
Apparent power [VA]*1	AC	200 V	1.15 (With light: 1.30)
		220 V [230 V]	1.27 (With light: 1.46) [1.39 (With light: 1.60)]
Surge voltage suppress	sor		Varistor (DC)
Indicator light			LED (DC), Neon bulb (AC)

<sup>\*1</sup> The 110 VAC and 115 VAC are interchangeable. The 220 VAC and 230 VAC are interchangeable as well.

#### \*2 The allowable voltage fluctuation is -15% to +5% of the rated voltage for the 115 VAC or 230 VAC.

#### **Response Time/Weight**

		Res	Response time [ms](at 0.5 MPa)				
Model	Pressure specifications	Without light/surge voltage suppressor	With light/surge voltage suppressor	AC	Weight [g]		
VP517Y	Standard (0.2 to 0.7 MPa)	27	32	44	222		
VPSI/T	High-pressure type (0.2 to 1.0 MPa)	41	48	44	(With bracket: 257)		
VP717Y	Standard (0.2 to 0.7 MPa)	41	48	50	413		
VF/1/1	High-pressure type (0.2 to 1.0 MPa)	67	76	50	(With bracket: 468)		

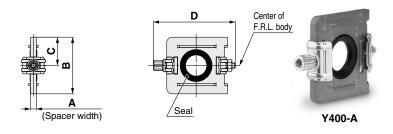
#### **Flow Rate Characteristics**

	Port size EXH.	Flow rate characteristics					
Model		1→2 (P→A)			2→3 (A→R)		
		C [dm <sup>3</sup> /(s·bar)]	b	Cv	C [dm <sup>3</sup> /(s·bar)]	b	Cv
VP517Y	G3/8	8.8	0.14	2	8.2	0.15	1.8
VP717Y	G1/2	13.8	0.11	2.9	12.9	0.18	2.9



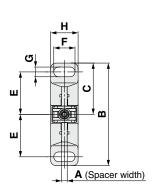
## **VP500/700** Series

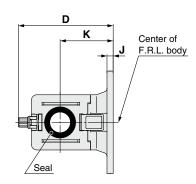
#### **Spacer**



Model	Α	В	С	D	
Y300-A	4.2	43.4	21.7	57.9	
Y400-A	5.2	53	26.5	68.5	

#### **Spacer with Bracket**







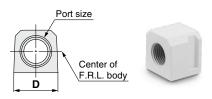
Y400T-A

Model	Α	В	С	D	Е	F	G	Н	J	K
Y300T-A	4.2	82	41	71.5	35	14	7	19	4	41
Y400T-A	5.2	96	48	86.1	40	18	9	26	5	50

#### Piping Adapter: 3/8, 1/2

A piping adapter allows installation/removal of the component without removing the piping and thus makes maintenance easier.



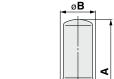


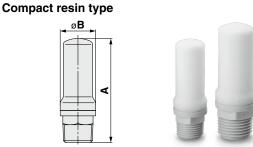
Model *1	Port size	Α	В	D
E300-□03-A	3/8	31.8	30	30
E400-□04-A	1/2	31.8	36	36

- \*1 ☐ in model numbers indicates a pipe thread type. No indication is necessary for Rc; however, indicate N for NPT, and F for G.
- \* Separate spacers are required for modular units.

#### Silencer

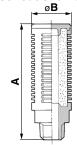
3





Dimensions			[mm
Model	Port size R	Α	В
AN30-03	3/8	58.5	20
AN40-04	1/2	68	24

#### High noise reduction type

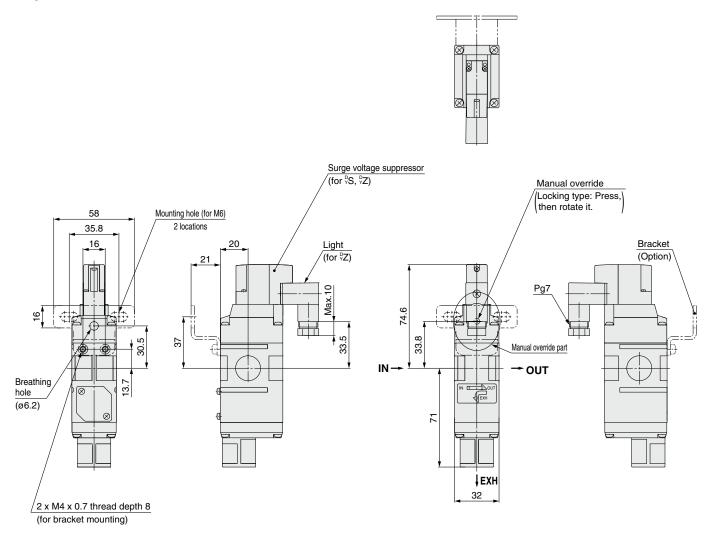




Model	Port size	Dimensions [mm]		
Model	R	Α	В	
AN302-03	3/8	84	28	
AN402-04	1/2	95	34	

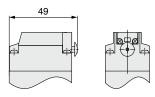
#### **Dimensions**

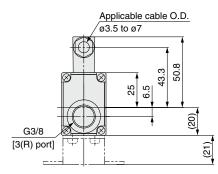
#### **VP517**



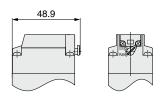
## Details of manual override part (for manual operation)

Type A





#### Type E



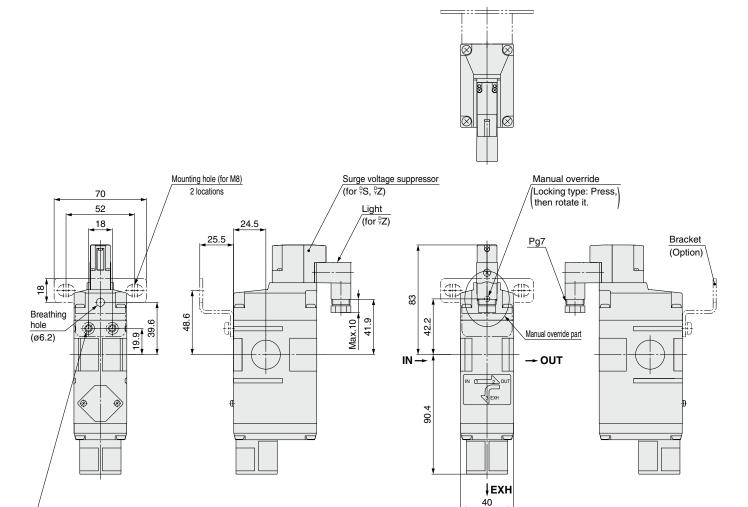


### **VP500/700** Series

#### **Dimensions**

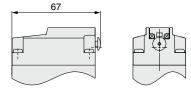
 $\frac{2 \times M5 \times 0.8 \text{ thread depth 9}}{\text{(for bracket mounting)}}$ 

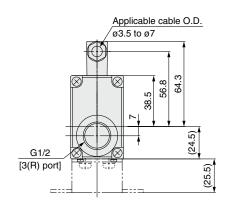
#### **VP717**



## Details of manual override part (for manual operation)

Type A





Type E

