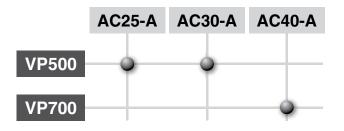
Modular Connection Type

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)



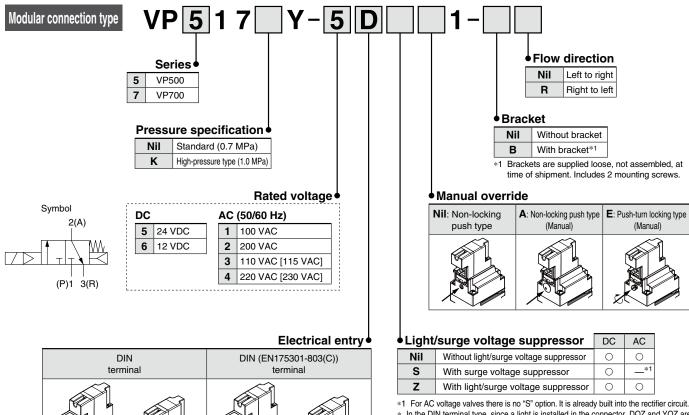
Example of Simple Specials System This system enables us to respond to your special needs (additional machining, accessory assembly, or the designing of a modular unit) and deliver your personalized products as quickly as standard products. F.R.L. unit connections **VP500** VP700 Residual pressure relief AC30C-A + VP500 AW40-A + VP700 3 port solenoid valve Residual pressure relief 3 port solenoid valve (VP500) Air filter *1 Mist separator *1 Regulator *1 (AF30-A) (AFM30-A) (AR30-A) Filter regulator *1 Silencer *1 AC30-A (AW40-A) (AN402-04) *1 Sold separately

VP500/700 Series



How to Order





YO: Without connector

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

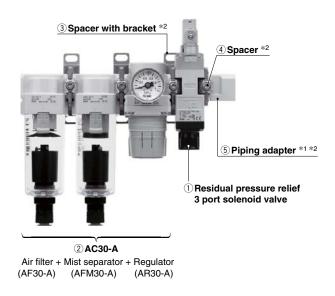
Y: With connector

A 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-A1 pc.
4 Spacer Y300-A1 pc.
⑤ Piping adapter E300-03-A ······1 pc.

Applicable Combinations/Attachment Part Nos.

Residual pressure relief 3 port solenoid valve	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.



^{*} 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 [Hz]		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

^{*1} 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

Electrical entry			DIN terminal (D) DIN terminal (Y) <en175301-803 (c)=""></en175301-803>		
			D, Y		
Coil rated voltage [V] DC AC (50/60 Hz) Allowable voltage fluctuation			24, 12		
		50/60 Hz)	100, 110, 200, 220		
		1	±10% of rated voltage*2		
Power consumption [W] DC Standard		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]		220 V [230 V]	1.27 (With light: 1.46) [1.39 (With light: 1.60)]		
Surge voltage suppressor		*	Varistor (DC)		
Indicator light			LED (DC), Neon bulb (AC)		

^{*1} The 110 VAC and 115 VAC are interchangeable. The 220 VAC and 230 VAC are interchangeable as well.

$\ast 2$ 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		
VP31/1	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		
VP/1/1	High-pressure type (0.2 to 1.0 MPa)	67	76	50	(With bracket: 468)		

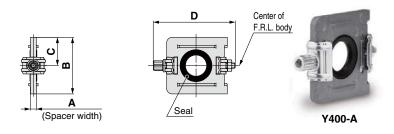
Flow Rate Characteristics

Model		Flow rate characteristics					
	Port size EXH.	1→2 (P→A)			2→3 (A→R)		
		C [dm ³ /(s·bar)]	b	Cv	C [dm ³ /(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



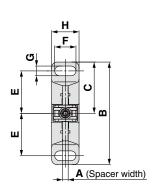
VP500/700 Series

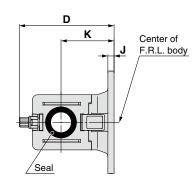
Spacer



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







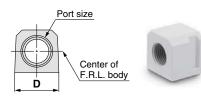
Y400T-A

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.

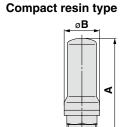




Model *1	Port size	Α	В	D
E300-□03-A	3/8	31.8	30	30
E400-□04-A	1/2	31.8	36	36

- *1 \square 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.

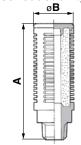
Silencer





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

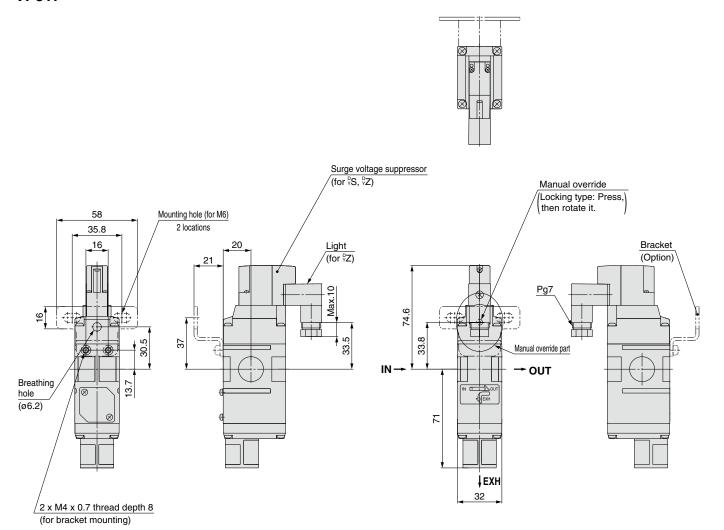




Model	Port size	Dimensio	ons [mm]
Model	R	Α	В
AN302-03	3/8	84	28
AN402-04	1/2	95	34

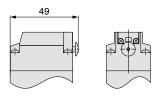
Dimensions

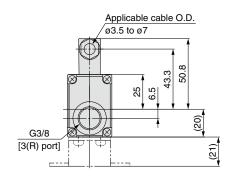
VP517



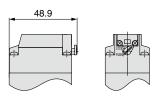
Details of manual override part (for manual operation)

Type A





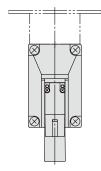
Type E

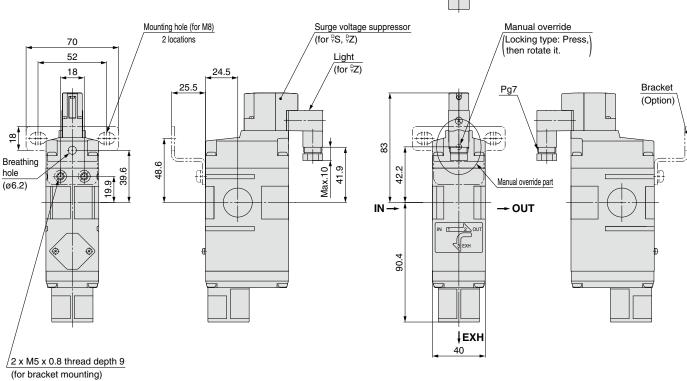


VP500/700 Series

Dimensions

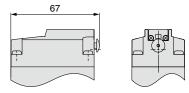
VP717

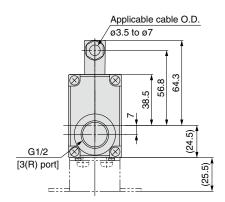




Details of manual override part (for manual operation)

Type A





Type E

