3-Port Solenoid Valve Modular Type/ Residual Pressure Release Valve (€ ROHS)

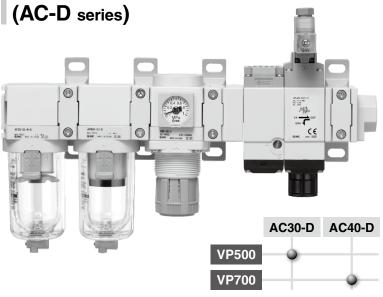


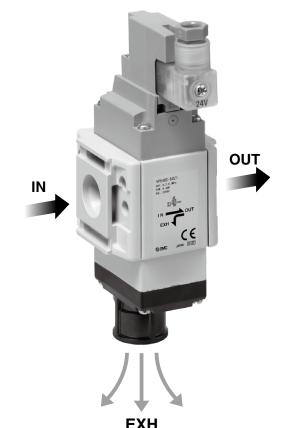
Flow rate characteristics c [dm³/(s·bar)]

VP546E: 7.5

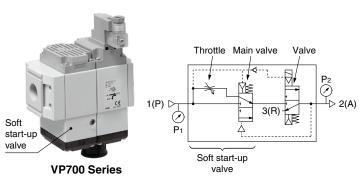
VP746E: 12.6

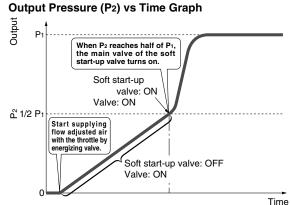
Can be connected to F.R.L. units





- Allows for space saving and reduced piping labor.
- A model with a soft start-up function is also available.





Power consumption: 0.35 W (Without light)

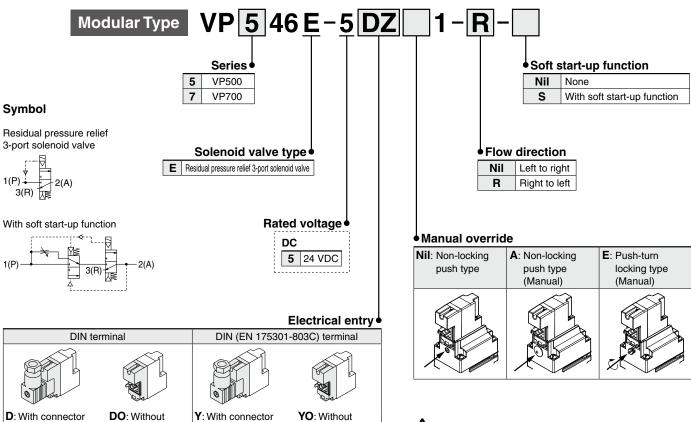
Features a check valve built into the pilot flow path (Supports pilot pressure drops caused by pressure fluctuations on the inlet side)

VP546E/746E Series



How to Order





connector

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

YZ: With connector/

With light/surge

voltage suppressor

connector

⚠ Caution

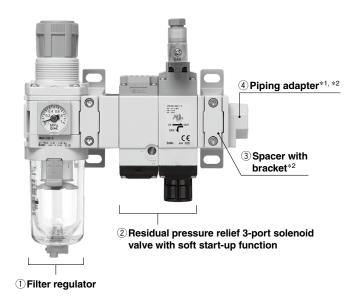
When using the surge voltage suppressor type, residual voltage will remain. For details, refer to the **Web Catalog** (VP300/500 Low wattage specification).

Assembly Example

DZ: With connector/

With light/surge

voltage suppressor



- *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 on the spacer with bracket and piping adapter.

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

Please contact your local sales representative for more details.

Ordering Example
① Filter regulator AW30-03E-D ········ 1 pc.
② Residual pressure relief 3-port solenoid valve
with soft start-up function VP546E-5DZ1-S ·······1 pc.
③ Spacer with bracket Y300T-D ······2 pcs.
④ Piping adapter E300-03-D · · · · · · · · · 1 pc.

Applicable Combinations/Attachment Part Nos. (Refer to page 3)

Residual pressure relief 3-port solenoid valve	Air combination	Spacer with bracket	Piping adapter	Silencer
VP546E	AC30□-D	Y300T-D	E300-□03-D	AN30-03 AN302-03
VP746E	AC40□-D	Y400T-D	E400-□04-D	AN40-04 AN402-04



Specifications

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

^{*1} 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 deenergized 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. The 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			DIN terminal (D) DIN terminal (Y) <en 175301-803c=""></en>
			D, Y
Coil rated voltage [V]	Coil rated voltage [V] DC		
Allowable voltage flucti	uation	1	±10% of the rated voltage
Power consumption [W] DC Standard		0.35 (With light: 0.45)	
Surge voltage suppressor			Varistor
Indicator light		LED	

Response Time/Weight

Model	Response time [ms] (at 0.5 MPa)	Weight [g]
VP546E	38	331 (With soft start-up function: 588)
VP746E 56		676 (With soft start-up function: 1194)

Flow Rate Characteristics

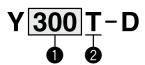
	Flow rate characteristics						
Model	Port size EXH.		1 → 2 (P → A)		$2 \rightarrow 3 (A \rightarrow R)$		
LXII.	C [dm ³ /(s·bar)]	b	Cv	C [dm ³ /(s·bar)]	b	Cv	
VP546E	G3/8	8.8	0.14	2	7.5	0.13	1.7
VP546E-S	G3/8	6.6	0.07	1.5	7.5	0.13	1.7
VP746E	G1/2	13.8	0.11	2.9	12.6	0.18	2.9
VP746E-S	G1/2	10.5	0.12	2.3	12.6	0.18	2.9



^{*} This valve is a large flow rate pilot-operated solenoid valve. If the operating pressure falls below 0.2 MPa due to a pressure drop caused by insufficient air supply, it may not be able to switch properly.

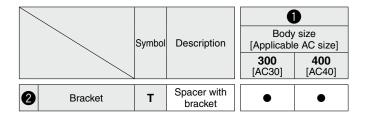
VP546E/746E Series

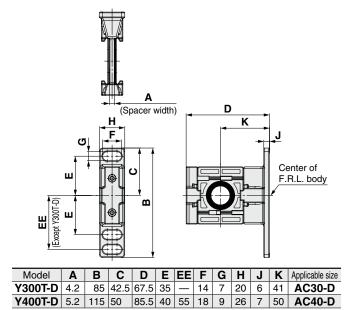
Spacer with Bracket



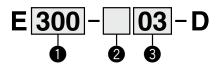


Spacer with bracket (Y□T-D)



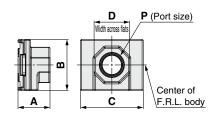


Piping Adapter: 3/8, 1/2



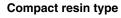


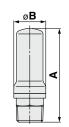
		Symbol Description		Body size [Applicable AC size]	
				300 [AC30]	400 [AC40]
		Nil	Rc	•	•
2	Pipe thread type	N	NPT	•	•
		F	G	•	•
		+			
		02	1/4	•	•
A	3 Port size	03	3/8	•	•
$oldsymbol{oldsymbol{arphi}}$		04	1/2	•	•
		06	3/4	_	•



Model	P	Α	В	С	D	Applicable AC size
E300-D	1/4, 3/8, 1/2	27	43	53	30	AC30-D
E400-D	1/4, 3/8, 1/2, 3/4	30	51	71	36	AC40-D

Silencer







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

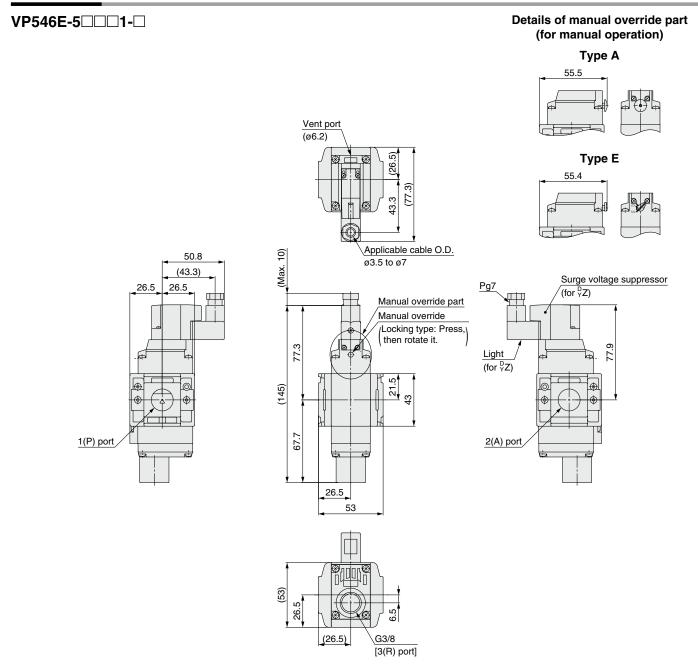
High noise reduction type



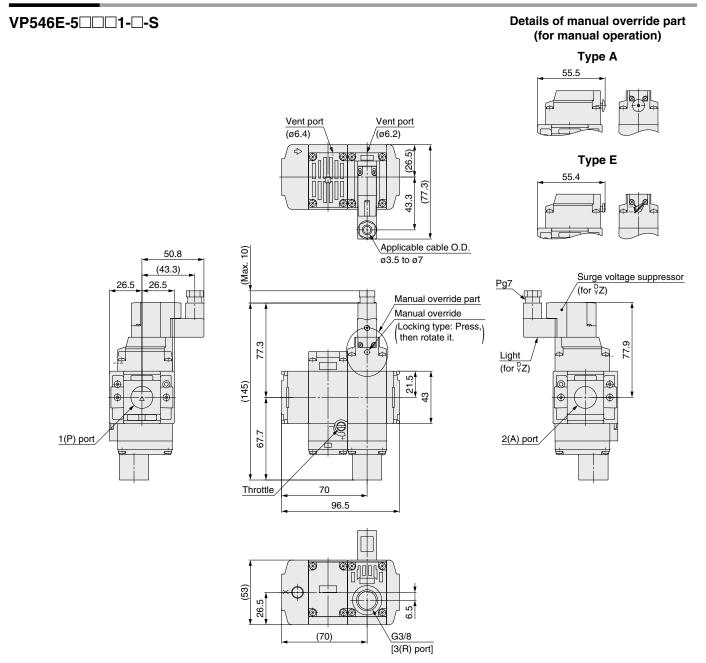


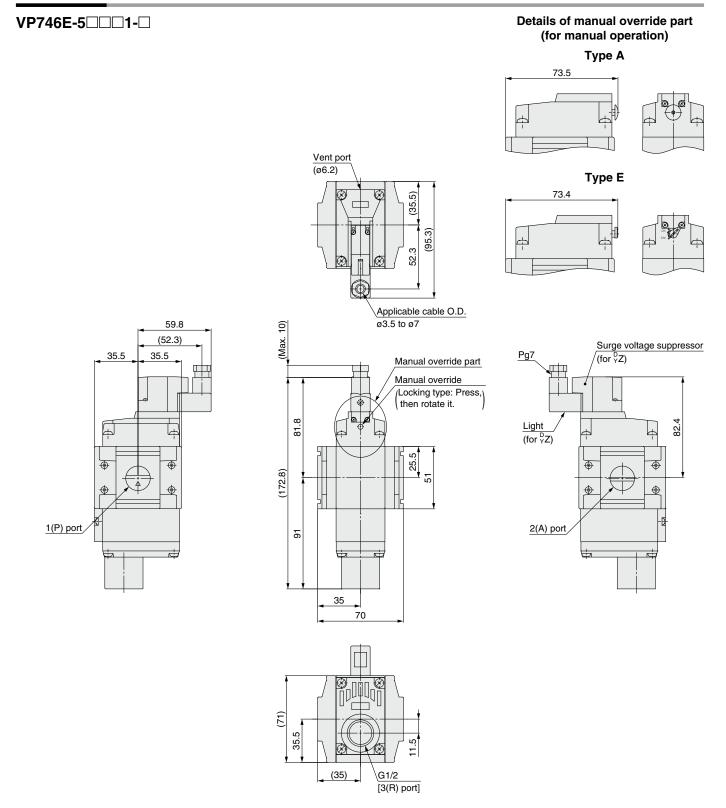
<u>. </u>			[mm]
Model	Port size R	Α	В
AN302-03	3/8	84	28
AN402-04	1/2	95	34

3-Port Solenoid Valve Modular Type/ Residual Pressure Release Valve **VP546E/746E Series**



VP546E/746E Series





VP546E/746E Series

