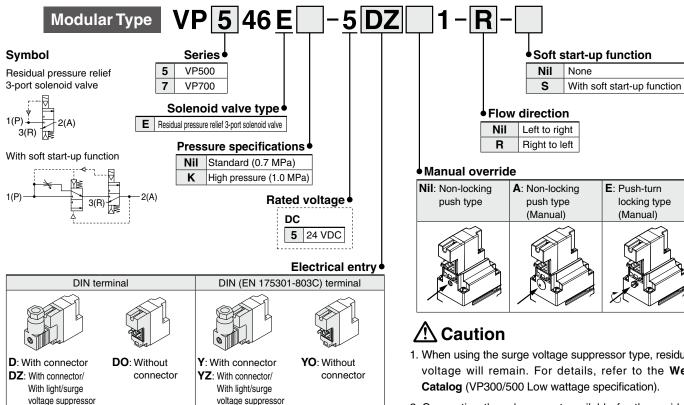
How to Order





locking type

(Manual)



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

- 1. When using the surge voltage suppressor type, residual voltage will remain. For details, refer to the Web Catalog (VP300/500 Low wattage specification).
- 2. Connection threads are not available for the residual pressure relief 3-port solenoid valve. Order a piping adapter and spacer with bracket separately.

Simple Specials System

For modular connection units (shipped assembled), the simple specials system can be used.



Short lead times

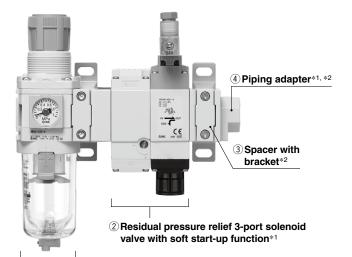
This system enables us to respond to your special needs (accessory assembly or the designing of a modular unit) as quickly as standard products.

Please contact your local sales representative for more details.

Repeat orders

Once we receive a simple special part number from one of your previous orders, we will process the order, manufacture the product, and deliver it to you as quickly as possible.

Simple Specials Combination 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-D2 pcs.
- (4) Piping adapter E300-03-D 1 pc.

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

- *1 Connection threads are not available for the residual pressure relief 3-port solenoid valve. Select a piping adapter.
- *2 Refer to page 3 for details on the spacer with bracket and piping adapter.



① Filter regulator

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

Specifications

Fluid	Air			
Type of actuation	N.C.			
Pressure specifications	Standard	High pressure		
Internal pilot operating pressure range [MPa]	0.2 to 0.7	0.2 to 1.0		
Operating and ambient temperatures [°C]	-10 to 50 (No freezing)			
Max. operating frequency*1 [Hz]	5			
Manual override	Non-locking	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*2 [m/s²]	150/30			
Enclosure	IP65			

^{*1} Excludes the type with a soft start-up function

Solenoid Specifications

Electrical entry			DIN terminal (D) DIN terminal (Y) <en 175301-803c=""></en>			
			D, Y			
Coil rated voltage [V]	DC		24			
Allowable voltage fluctuation			±10% of the rated voltage			
Power consumption [W]	DC	Standard	0.35 (With light: 0.45)			
Surge voltage suppressor		ressor	Varistor			
Indicator light			LED			

Response Time/Weight

Model	Pressure specifications	Response time [ms] (at 0.5 MPa)*1			
		Without light/surge voltage suppressor	With light/surge voltage suppressor	Weight [g]	
VP546E -	Standard (0.2 to 0.7 MPa)	38	38	331 (With soft start-up function: 588)	
	High pressure (0.2 to 1.0 MPa)	56	56		
VP746E	Standard (0.2 to 0.7 MPa)	56	56	676 (With soft start-up function: 1194)	
	High pressure (0.2 to 1.0 MPa)	80	80		

 $^{*1\,}$ Based on dynamic performance test, JIS B 8419-2010 (Coil temperature: 20°C, at rated voltage)

Flow Rate Characteristics

Model Port size EXH.	5	Flow rate characteristics					
		1 → 2 (P → A)			2 → 3 (A → R)		
	LXII.	C [dm ³ /(s·bar)]	b	Cv	C [dm ³ /(s·bar)]	b	Cv
VP546E(K)	G3/8	8.8	0.14	2	7.5	0.13	1.7
VP546E(K)-S	G3/8	6.6	0.07	1.5	7.5	0.13	1.7
VP746E(K)	G1/2	13.8	0.11	2.9	12.6	0.18	2.9
VP746E(K)-S	G1/2	10.5	0.12	2.3	12.6	0.18	2.9



^{*2} 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)

^{*} 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.