3-Port Solenoid Valve Modular Type/Residual Pressure Release Valve

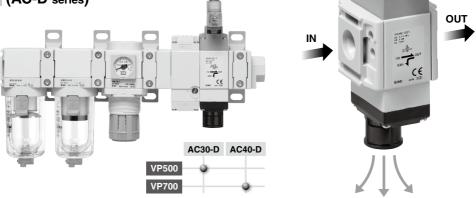
VP546E/746E Series



EXH

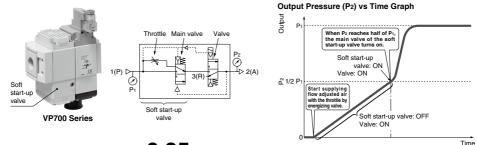
Flow rate characteristics c [dm³/(s·bar)] VP546E: 7.5 VP746E: 12.6

Can be connected to F.R.L. units (AC-D series)



Allows for space saving and reduced piping labor.

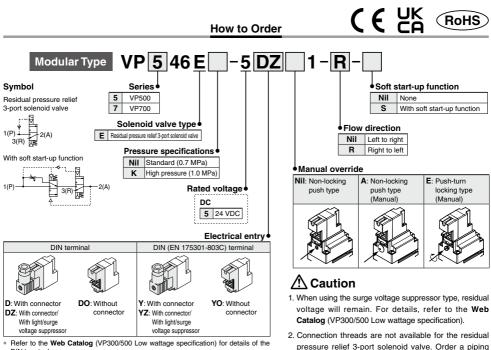
A model with a soft start-up function is also available.



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)



DIN terminal.

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.

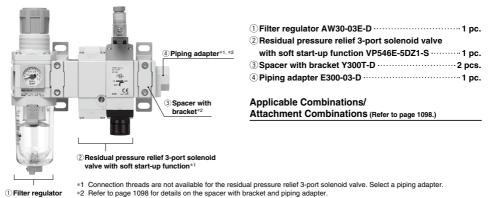
Please contact your local sales representative for more details.

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.

adapter and spacer with bracket separately.

Simple Specials Combination Example



SMC

1096

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 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/s ²]	150/30				
Enclosure	IP65				

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

*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.

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		ctuation	±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

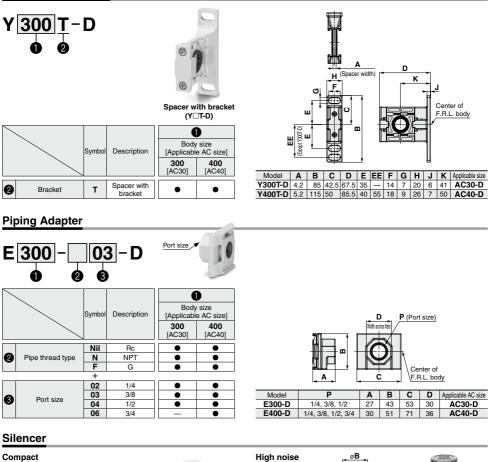
		Response time [n			
Model	Pressure specifications	Without light/surge voltage suppressor	With light/surge voltage suppressor	Weight [g]	
VP546E -	Standard (0.2 to 0.7 MPa)	38	38	331 (With soft start-up function: 588)	
	High pressure (0.2 to 1.0 MPa)	56	56		
VP746E	Standard (0.2 to 0.7 MPa)	56	56	676	
VF740E	High pressure (0.2 to 1.0 MPa)	80	80	(With soft start-up function: 1194)	

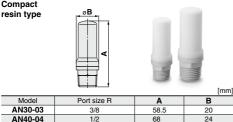
*1 Based on dynamic performance test, JIS B 8419-2010 (Coil temperature: 20°C, at rated voltage)

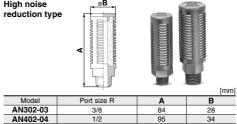
Flow Rate Characteristics

		Flow rate characteristics						
Model Port size EXH.	$1 \rightarrow 2 (P \rightarrow A)$			$2 \rightarrow 3 (A \rightarrow R)$				
	LAN.	C [dm3/(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	

Spacer with Bracket





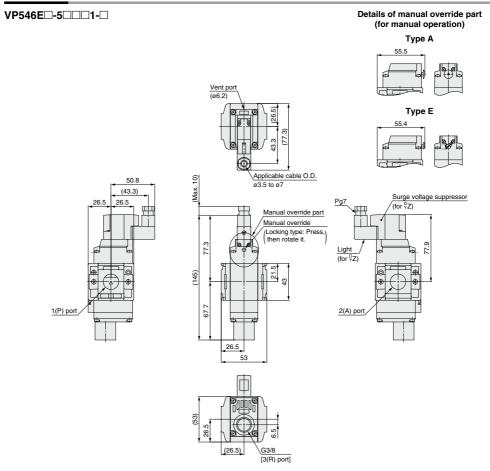


Applicable Combinations/Attachment Combinations

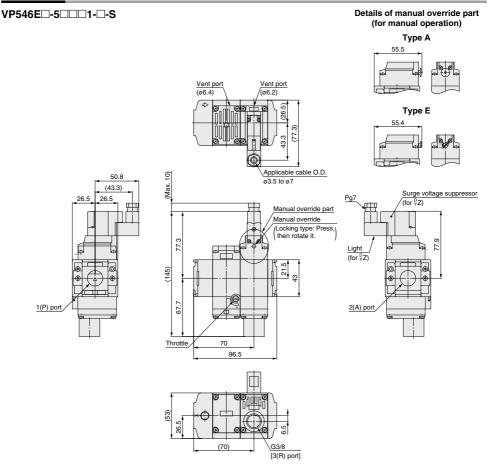
Residual pressure relief 3-port solenoid valve	Air combination	Spacer with bracket	Piping adapter	Silencer
VP546E	AC30□-D	Y300T-D	E300-□03-D	AN30-03 AN302-03
VP746E	AC40□-D	Y400T-D	E400-□04-D	AN40-04 AN402-04



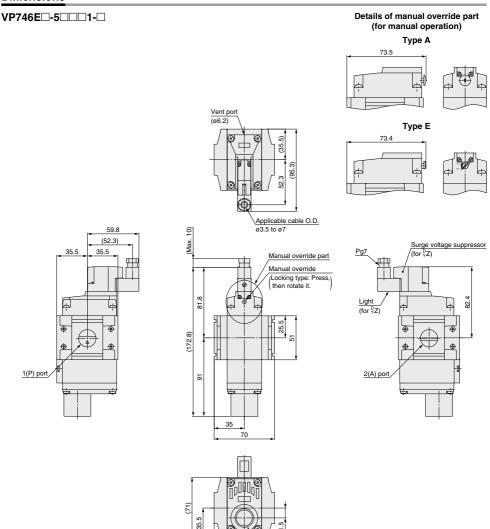
Dimensions



Dimensions



Dimensions



(35)

G1/2 [3(R) port]

Dimensions

