Conforming to OSHA Standard Pressure Relief 3 Port Valve With Locking Holes (Double Action Type) Series VHS4510/5510

Series VHS has been remodeled to achieve the expansion of flow rate and lightweight design. When selecting a model, please consider the new VHS series.

When in the exhaust position. the valve may be padlock secured. This prevents erroneous operation.

Push the handle and then turn. **Double action construction** prevents erroneous operation.

Combination with modular type FRL is possible.



Model

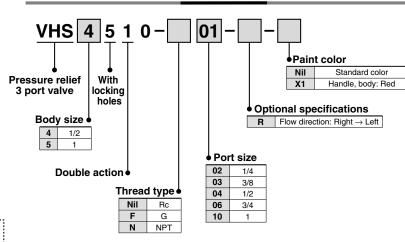
Mod	Model		VHS451	0	VHS4510-06	VHS5510		
D. d. d.	1 (P) · 2 (A)	1/4	3/8	1/2	3/4	3/4	1	
Port size	3 (R)	3/8			1/2	1/2		
Effective area	1 (P) → 2 (A)	27	38	55	77	82	125	
(mm²)	2 (A) → 3 (R)	36	40	42	49	50	53	
Mass	(kg)	0.36			0.42	0.77		

Specifications

Fluid		Air		
Proof pressure		0.1 to 1.0 MPa		
Operating pressure range		1.5 MPa		
Ambient and fluid temp	erature	−5 to 60°C (No freezing)		
Handle switching angle		90°		
Paint color (Standard)	VHS4510, 5510	Handle: Red, Body: Platinium silver		

VHS 4510 and 5510 can be locked from either side.

How to Order



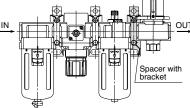
Health Administration Department of Labor) For safety control, OSHA rule requires energy

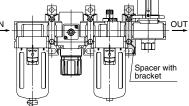
sources for certain equipment be turned off or disconnected and that the device either be locked or labelled with a warning tag.

OSHA standard (Occupational Safety and

A spacer is required if the valve is combined with modular FRL.

AC40		
0-06		
AC50/55/60		





VM□

VMG

VR□

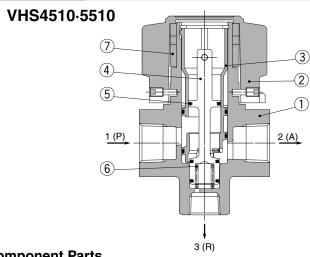
 $\mathsf{VH}\square$



JIS Symbol

Pressure Relief 3 Port Valve with Locking Hole Series VHS4510/5510

Construction

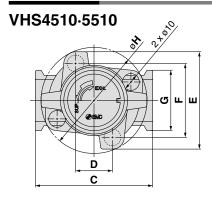


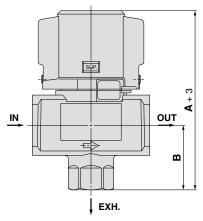
Component Parts

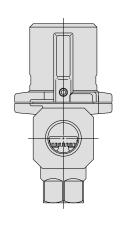
No.	Description	Material	Note					
1	Body	Aluminum die-casted	Platinum silver coated					
2	Handle	Aluminum die-casted	Red coated					
3	Sleeve	РОМ						
4	Spool	Brass	Electroless nickel plated					
(5)	O-ring	NBR						
6	Spring	Stainless steel						
7	Cam ring	Zinc alloy						

The VHS series cannot be disassembled. Parts cannot be shipped separately.

Dimensions







Model	Α	В	С	D	Е	F	G	Н
VHS4510	107	39	70	22	58	44	36	63.2
VHS4510-06	110	42	75	21	65	50	44	69.2
VHS5510	134	53	90	26	76	61	53	81.3

Be sure to read before handling. Refer to front matters 58 and 59 for Safety Instructions and pages 3 to 7 for 3/4/5 Port Solenoid Valve Precautions.

Caution on Design

⚠ Warning

- (1) Do not supply air pressure from ports other than the 1 (P) port. The valve will malfunction when air pressure is supplied from other ports.
- (2) Do not use the valve under negative pressure. It will lead to malfunction due to air leakage.

Selection

⚠ Caution

- (1) Stopping the handle between the extreme positions may cause malfunction and air leakage. The valve must be switched to each position instantly and securely.
- (2) Do not remove the mounting screws from the handle as this may cause malfunction.

Piping

⚠ Warning

- (1) The port marked with an arrow (▷) is the 1 (P) port (IN) and one on the opposite side is the 2 (A) port (OUT). The port at a right angle to them is the 3 (R) port (EXH). Be sure to confirm before connecting since erroneous connection will cause malfunction.
- (2) When the valve is exposed to a large amount of dust and debris, install a silencer on the 3(R) port (EXH) to protect the valve. Otherwise, dust will ingress from the 3 (R) port and cause air leakage.

Air Supply

⚠ Warning

(1) Install an air filter on the inlet side in proximity to the valve. Filtration degree should be 5 μm or less.

VM□

VMG





