AC-D Series
Attachments

Semi-standard Symbol Selection

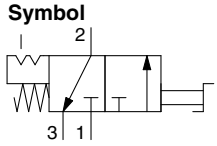
· Select one each for **a** and **b**.
· When more than one specification is required, indicate in alphabetical order.
Example) VHS30-N03-RZ-D

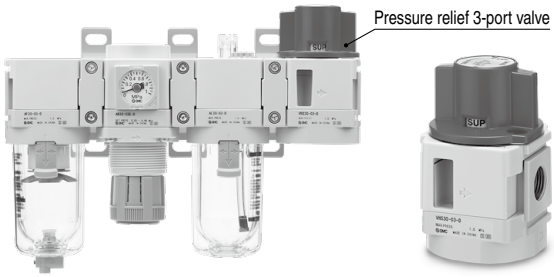
Pressure Relief 3-Port Valve: (V, V1)

· By using a pressure relief 3-port valve, pressure left in the line can be easily exhausted.

VHS ❶30 – ❷ ❸03 – ❹ – D

Symbol





		Symbol	Description	❶ Body size [Applicable AC size]				
				20 [AC20]	**30** [AC30]	**40** [AC40]	**40** [AC40-06]	**50** [AC50/AC60]*4
❷	Pipe thread type	**Nil**	Rc*1	●	●	●	●	●
		N	NPT	●	●	●	●	●
		F	G	●	●	●	●	●
		+						
❸	Port size	**01**	1/8	●	—	—	—	—
		02	1/4	●	●	●	—	—
		03	3/8	—	●	●	—	—
		04	1/2	—	—	●	—	—
		06	3/4	—	—	—	●	●
		10	1	—	—	—	—	●
		+						
❹ Semi-standard	**a** Flow direction	**Nil**	Flow direction: Left to right	●	●	●	●	●
		R	Flow direction: Right to left	●	●	●	●	●
		+						
	b Unit	**Nil**	Unit on product label: MPa	●	●	●	●	●
		Z*2	Unit on product label: psi	○*3	○*3	○*3	○*3	○*3

*1 The pipe thread type for the EXH port is G.
*2 For the pipe thread type: NPT only. This product is for overseas use only according to the New Measurement Act. (The SI unit type is provided for use in Japan.)
*3 ○: For the pipe thread type: NPT only
*4 The VHS50 can be connected to the AC60.

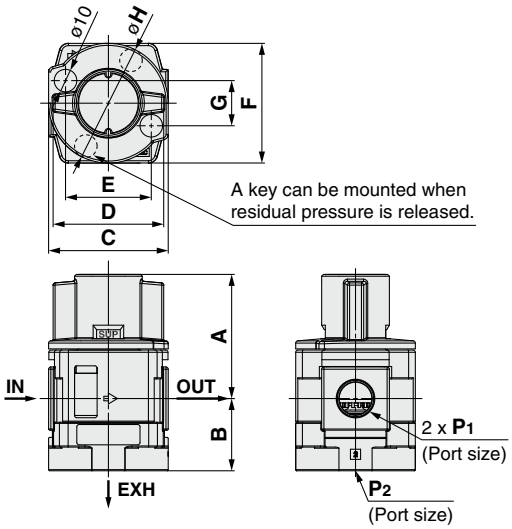
Standard Specifications

Fluid	Air
Ambient and fluid temperatures	–5 to 60°C (No freezing)
Proof pressure	1.5 MPa
Max. operating pressure	1.0 MPa

Flow Rate Characteristics

Model	Port size		Flow rate characteristics					
			IN → OUT			OUT → EXH		
	IN, OUT	EXH	C ($dm^3/s \cdot bar$)	b	Cv	C ($dm^3/s \cdot bar$)	b	Cv
VHS20	1/8	1/8	4.0	0.41	1.1	3.7	0.42	1.1
	1/4		5.8	0.31	1.4	3.8	0.42	1.1
VHS30	1/4	1/4	8.8	0.44	2.4	8.0	0.46	2.3
	3/8		14.1	0.28	3.5	7.8	0.46	2.2
VHS40	1/4	3/8	9.5	0.49	2.8	13.3	0.47	3.6
	3/8		17.2	0.47	4.8	13.6	0.47	3.7
	1/2		26.7	0.29	6.3	13.4	0.43	3.7
VHS40-06	3/4	1/2	34.0	0.22	7.6	16.1	0.41	4.4
VHS50	3/4	1/2	45.0	0.26	10.6	23.0	0.49	6.4
	1		53.3	0.36	13.5	22.8	0.49	6.3

Dimensions



Model	P1	P2	A	B	C	D	Applicable size
VHS20-D	1/8, 1/4	1/8	48.5	23	40	37	**AC20-D**
VHS30-D	1/4, 3/8	1/4	55	32	53	49	**AC30-D**
VHS40-D	1/4, 3/8, 1/2	3/8	69.7	41.3	70	63	**AC40-D**
VHS40-06-D	3/4	1/2	71.7	43.3	75	63	**AC40-06-D**
VHS50-D	3/4, 1	1/2	86.5	44.5	90	80	**AC50-D/AC60-D**

Model	E	F	G	H	Applicable size
VHS20-D	28	42	17.5	40	**AC20-D**
VHS30-D	38	53	20	53	**AC30-D**
VHS40-D	52	71	29	70	**AC40-D**
VHS40-06-D	52	71	29	70	**AC40-06-D**
VHS50-D	72	90	33	90	**AC50-D/AC60-D**

Caution on Mounting

· Use an air filter on the inlet side for operating protection.
· When mounting a silencer, etc., on the EXH port, refer to the operation manual.