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Find the *SMC NVHS3500-N03-X116* at our website: *Click HERE*

Pressure Relief 3 Port Valve: (V)

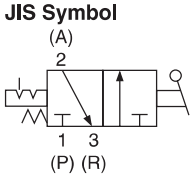
With the use of a 3-port valve for residual pressure release, pressure left in the line can be easily exhausted.



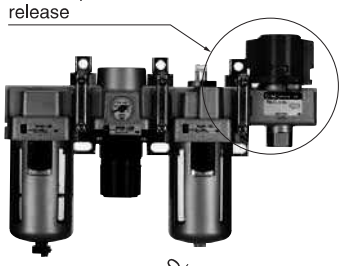
VHS 30 – ❶ 03 – ❹

❷ ❸

JIS Symbol

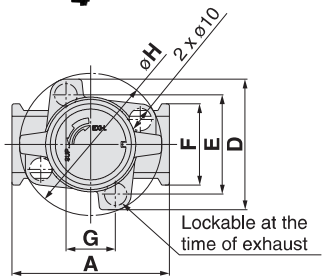


3-port valve for residual pressure release



- Semi-standard: Select one each for **a** to **b**.
- Semi-standard symbol: When more than one specification is required, indicate in alphabetic order. Example) VHS30-03-RZ

		Symbol	Description	❶ Body size 20	30	40	50
❷	Thread type	Nil	Rc	●	●	●	●
		N Note)	NPT	●	●	●	●
		F Note)	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 Pressure unit	Nil	Name plate in imperial units: MPa	●	●	●	●
		Z Note)	Name plate in imperial units: psi	●	●	●	●

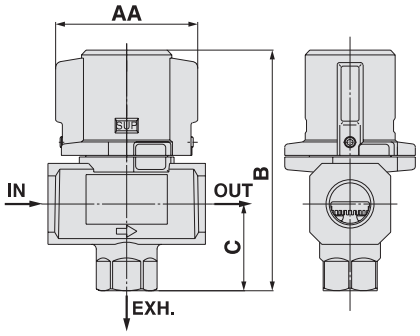


Note) For thread type: NPT only. This product is for overseas use only according to the new Measurement Law. (The SI unit type is provided for use in Japan.)

Specifications

Model	Port size IN, OUT	Port size EXH	Effective area (mm²) ( ): Cv factor IN→OUT	OUT→EXH
VHS20	1/8	1/8	10 (0.54)	11 (0.60)
	1/4		14 (0.76)	16 (0.87)
VHS30	1/4	1/4	16 (0.87)	14 (0.76)
	3/8		31 (1.68)	29 (1.57)
VHS40	1/4	3/8	27 (1.46)	36 (1.95)
	3/8		38 (2.06)	40 (2.17)
	1/2		55 (2.98)	42 (2.28)
VHS40-06	3/4	1/2	77 (1.73)	49 (2.66)
VHS50	3/4	1/2	82 (4.44)	50 (2.71)
	1		125 (6.78)	53 (2.87)

Note) Use an air filter on the IN side for operating protection.



Model	A	AA	B	C	D	E	F	G	H
VHS20	40	34	59	20	45	33	28	—	45
VHS30	53	46	78	29	55	42	30	—	55
VHS40	70	63	107	39	58	44	36	22	63
VHS40-06	75	67	110	42	65	50	44	21	69
VHS50	90	78	134	53	76	61	54	26	81

Caution on Mounting

1. If a tube, stop valve or silencer is connected to the exhaust port of the VHS20/30, the effective sectional area should be larger than the figure indicated in the following table, to prevent malfunction caused by back pressure. (This is not applicable to the VHS40/50.)

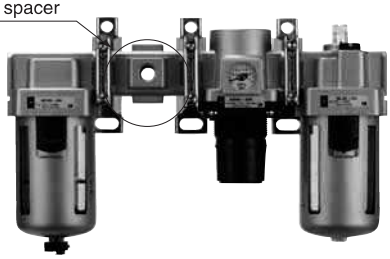
Model	Effective area (mm²)
VHS20	5
VHS30	5

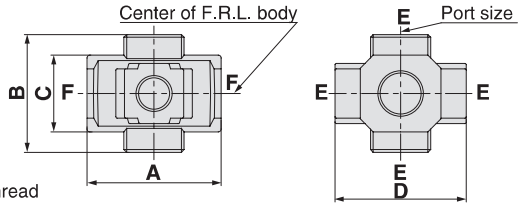
Cross Spacer: M5 x 0.8, 1/8, 1/4, 3/8, 1/2

Pipings are possible in all 4 directions.
IN/OUT ports are not machined for threads.
Please contact SMC if threaded (machined) ports are required.



Cross spacer





E: 4 x Rc
F: Without thread

Model	Port size	A	B	C	D	Applicable model
Y14-M5	M5	23	16	14	25	**AC10□**
Y24-□01	1/8	40	40	22	40	**AC20□**
Y24-□02	1/4					
Y34-□01	1/8	49	43	28	48	**AC25□, AC30□**
Y34-□02	1/4					
Y44-□02	1/4	60	48	36	54	**AC40□**
Y44-□03	3/8					
Y54-□03	3/8	72	62	40	62	**AC40□-06**
Y54-□04	1/2					

Note 1) □ in model numbers indicates a thread type. No indication is necessary for Rc.

Caution on Mounting

1. When mounting a cross interface directly on the IN side of the lubricator, be sure to use the AKM series check valve between the lubricator and cross interface.
2. Factory mounting of a cross interface on the AC model is available as a special

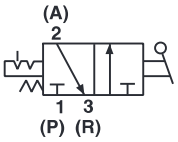
Residual Pressure Relief 3 Port Valve (V)

With the use of a 3 port valve for residual pressure release, pressure left in the line can be easily exhausted.





JIS Symbol



Model	Port Size		Effective area mm² (Cv)	
	IN, OUT	EXH	IN to OUT	OUT to EXH
VHS20	1/4	1/8	14 (0.76)	16 (0.87)
VHS30	3/8	1/4	31 (1.68)	29 (1.57)
VHS40	1/2	3/8	55 (2.98)	42 (2.28)

Paint color (Standard) Handle: Red Body: Platinum silver
Use an air filter on the IN side for operating protection.

How To Order

VHS 30 — N 02 — Z - X513

- **Residual Pressure Relief 3 Port Valve**
- **Body Size**

Symbol	Applicable Model
20	AC21
30	AC31
40	AC41

- **Thread Type**

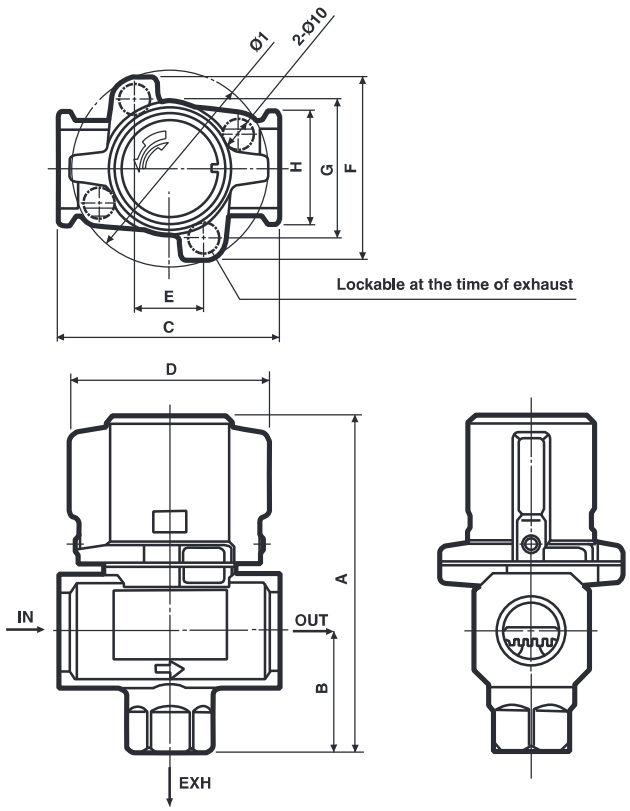
N	NPT

- **Body Size**

Symbol	Port Size	Body Size		
		20	30	40
02	1/4	●		
03	3/8		●	
04	1/2			●

- **With External Epoxy Coating, Stainless Fasteners**
- **Name Plate In Imperial Units (PSI, °F)**

Note: Other sizes, thread forms, options, etc. may be possible, please contact SMC for availability.



Dimensions

mm

Model	A	B	C	D	E	F	G	H	I
VHS20	59	20	40	34	—	45	33	28	45
VHS30	78	29	53	46	—	55	42	30	55
VHS40	107	39	70	63	22	58	44	36	63

Caution

- If a stop valve or a silencer is connected to the exhaust port of VHS20/30, the effective sectional area should be larger than the figure indicated in the following table, to prevent malfunction caused by back pressure. (This is not applicable to VHS40)

Model	Effective area (mm²)
VHS20	5
VHS30	5

- If unit is to be used in a washdown application, avoid directing fluid into the exhaust port.

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