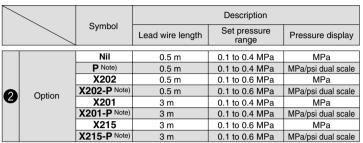
# Series AC

# **Pressure Switch: (S)**

A compact integrated pressure switch can be easily installed and facilitates the pressure detection of the line.





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	В	ody siz	ze .						
20	30	40	50	60					
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Model

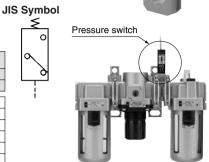
IS1000M-20

IS1000M-30

IS1000M-40

IS1000M-50

IS1000M-60



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

#### **Specifications**

Fluid	Air
Ambient and fluid temperature	-5 to 60°C (with no freezing)
Proof pressure	1.0 MPa
Maximum operating pressure	0.7 MPa
Set pressure range (when OFF)	0.1 to 0.4 MPa
Hysteresis	0.08 MPa or less

#### **Switch Characteristics**

Contact point configuration	1a
Maximum contact point capacity	2 VA (AC), 2 W (DC)
Operating voltage: AC, DC	100 V or less
	12 V to 24 VAC, DC: 50 mA
Maximum operating current	48 VAC, DC: 40 mA
	100 VAC, DC: 20 mA

Note) For detailed specifications on the IS1000 series, please refer to series IS1000 in

#### Center of F.R.L. body В D Applicable model Α C AC20□ 11 66 28 76 AC25□, AC30□ 13 72 30 86 AC40□ 15 95 77 36

AC40□-06

**AC50**□, **AC55**□, **AC60**□

 $\mathbf{\omega}$ 

22 Note) Separate spacers are required for modular unit.

79

92.5 68.5 44

53

17 99

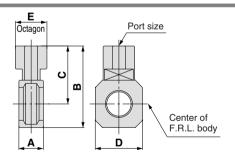
### T-interface: (T) M5 x 0.8, 1/8, 1/4, 3/8, 1/2

Using a T-interface facilitates the redirection of air flow.



## **Caution on Mounting**

If a T-interface is used on the IN side of the lubricator, lubricant may be mixed. Use the AKM series check valve to avoid such possibility.



Model	Port size	Α	В	С	D	E	Applicable model
Y110-M5	M5 x 0.8	11	19	12	14	8	AC10, AC10B
Y210-□01	1/8	15	42	32	00	10	AC20, AC20B,
Y210-□02	1/4	15	42	32	28	19	AC20C
Y310-□01	1/8	4.5		00		40	AC25, AC25B,
Y310-□02	1/4	15	53	39	30	19	AC25C, AC30, AC30B, AC30C
Y410-□02	1/4	10	00	44	00	0.4	AC40, AC40B,
Y410-□03	3/8	19	62	44	36	24	AC40C
Y510-□02	1/4	10	-00	40	44	24	AC40-06, AC40B-06
Y510-□03	3/8	19	66	46	44	24	AC40C-06
Y610-□03	3/8	-00	0.4			00	AC50, AC55,
Y610-□04	1/2	22	81	57	53	30	AC60, AC50B, AC55B, AC60B

Note 1)  $\square$  in model numbers indicates a thread type. No indication is necessary for Rc; however, indicate N for NPT, and F for G.

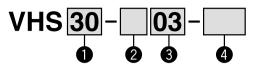
Note 2) Separate interfaces are required for modular unit.

\* Refer to the attachment table on page 321 for standard port sizes when using with the AC.



# **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.



• Semi-standard: Select one each for a to b.

Thread type

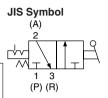
• Semi-standard symbol: When more than one specification is required, indicate in alphabetic order. Example) VHS30-03-RZ

Symbol

Nil

Note)

F Note)



50

Body size

40

30

20

**E:** 4 x Rc



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				01	1/8			-	_
				02	1/4		•	•	_
ച	Port size	:	03	3/8	_	•	•	_	
ש	Port size		04 1/2 06 3/4		1/2		T -	•	_
					3/4		T -	•	•
			10	1	_		T	•	
				+					
			Flow direction	Nil	Flow direction: Left to right		•	•	•
	Comi	a	Flow direction	R	Flow direction: Right to left	•	•	•	•

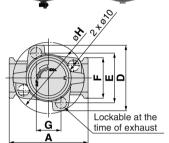
Description

Rc

NPT

G

			10	1	_	_	_	•	
				+					
		а	Flow direction	Nil	Flow direction: Left to right		•	•	•
		a	Flow direction	R	Flow direction: Right to left	•	•	•	•
4	Semi- standard			+					
Standard		b	Pressure unit	Nil	Name plate in imperial units: MPa		•	•	•
		В	Fressure unit	Z Note)	Name plate in imperial units: psi	•	•	•	•
NIL	\	al 4	a. NDT auto Th		in fau accessor con auto annountina ta tha			/Th. c	N



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	Effective area (mm²) ( ): Cv factor			
Model	IN, OUT	EXH	IN→OUT	OUT→EXH		
VHS20	1/8	1/8	10 (0.54)	11 (0.60)		
V 11320	1/4	1/0	14 (0.76)	16 (0.87)		
VHS30	1/4	1/4	16 (0.87)	14 (0.76)		
V11330	3/8	1/4	31 (1.68)	29 (1.57)		
	1/4		27 (1.46)	36 (1.95)		
VHS40	3/8	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)		
V11330	1	1/2	125 (6.78)	53 (2.87)		

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

 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

AA	
IN OUT OUT	

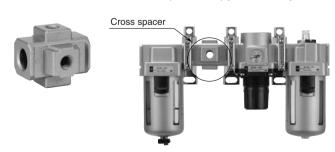
Model	Α	AA	В	С	D	Е	F	G	Н
VHS20	40	34	59	20	45	33	28	_	45
VHS30	53	46	78	29	55	42	30	_	55
VHS40	70	63	107	39	58	44	36	22	63
VHS40-06	75	67	110	42	65	50	44	21	69
VHS50	90	78	134	53	76	61	54	26	81

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

Pipings are possible in all 4 directions.

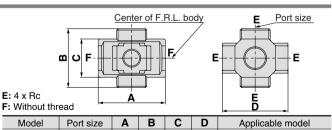
IN/OUT ports are not machined for threads.

Please contact SMC if threaded (machined) ports are required.



#### **Caution on Mounting**

- 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.
  Factory mounting of a cross interface on the AC model is available as a special



						1
Model	Port size	Α	В	С	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					AC40
Y54-□03	3/8	72	62	40	62	AC40□-06
Y54-□04	1/2					
Note 1) I is used a sumbour indicator at broad time. No indication is used as the Day						

Note 1) ☐ in model numbers indicates a thread type. No indication is necessary for Rc; however, indicate N for NPT, and F for G.

Note 2) If threaded IN/OUT ports are required, they are available as a special order. Please contact SMC.

AC

AF□

AR

AL

 $AW \square$ 

A□G

AV

AF800