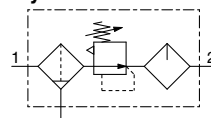


AC20A-D to AC60A-D

Symbol



How to Order

AC **30** A- **03** **DE** - - - D

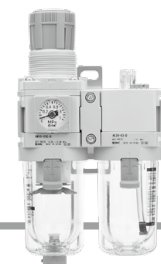
1 2 3 4 5 6

Option and Semi-standard Symbol Selection

- Select one each for a to j.
- When more than one specification is required, indicate in alphanumeric order.
- Example) AC30A-F03DE1-16NR-D

	Symbol	Description	①				
			Body size				
			20	30	40	50	60
②	Pipe thread type	Nil					
		N*1					
		F*2					
③	Port size	+					
		01					
		02					
		03					
		04					
		06					
④	a	Float type auto drain	Nil				
			C*4				
			D*5				
	b	Pressure gauge*6, *7	+				
			E				
			G				
			M				
		Digital pressure switch	E1				
			E2				
			E3				
			E4				
			E5				
			E6				
			E7				
			E8				
			E9				
			E0				
⑤	c	Pressure relief 3-port valve	Nil				
			V				
⑥	d	Set pressure*8	Nil				
			1				
	e	Bowl*9	Nil				
			2				
			6				
			8				
			C				
			6C				
	f	Filter regulator drain port*12	Nil				
			J*13				
			W*14				
			+				
	g	Lubricator lubricant exhaust port	Nil				
			3*15				
	h	Exhaust mechanism	Nil				
			N				

Air Combination **AC20A-D to AC60A-D Series**



AC30A-D

		Symbol	Description	1								
				Body size								
				20	30	40	50	60				
6	i	Flow direction	Nil	Flow direction: Left to right				●	●	●	●	●
			R	Flow direction: Right to left				●	●	●	●	●
			+									
	j	Unit	Nil	Unit on product label: MPa, °C, Pressure gauge in SI units: MPa				●	●	●	●	●
			Z*16	Unit on product label: psi, °F, Pressure gauge: MPa/psi dual scale				○*18	○*18	○*18	○*18	○*18
			ZA*17	Digital pressure switch: With unit selection function				△*19	△*19	△*19	△*19	△*19

- *1 Drain guide is NPT1/8 (applicable to the AC20A-D) and NPT1/4 (applicable to the AC30A-D to AC60A-D). The auto drain port comes with a ø3/8" One-touch fitting (applicable to the AC30A-D to AC60A-D).
- *2 Drain guide is G1/8 (applicable to the AC20A-D) and G1/4 (applicable to the AC30A-D to AC60A-D).
- *3 Options G and M are not assembled and supplied loose at the time of shipment.
- *4 When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl. Releasing the residual condensate before ending operations for the day is recommended.
- *5 If the compressor is small (0.75 kW, discharge flow is less than 100 L/min (ANR)), air leakage from the drain cock may occur during the start of operations. N.C. type is recommended.

- *6 When the pressure gauge is attached, a 1.0 MPa pressure gauge will be fitted for standard (0.85 MPa) type. 0.4 MPa pressure gauge for 0.2 MPa type.
- *7 When no pressure gauge or pressure gauge "G" or "M" is selected, it is not possible to change to an "E" or "E1" to "E0" later.
- *8 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.
- *9 Refer to chemical data on pages 111 and 129 for chemical resistance of the bowl.
- *10 A bowl guard is provided as standard equipment (polycarbonate).
- *11 A bowl guard is provided as standard equipment (nylon).
- *12 The combination of float type auto drain C and D is not available.
- *13 Without a valve function

- *14 The combination of metal bowl 2 and 8 is not available.
- *15 When choosing with W: Filter regulator drain port, the drain cock of a lubricator will be with barb fittings.
- *16 For the pipe thread type: NPT
This product is for overseas use only according to the New Measurement Act. (The SI unit type is provided for use in Japan.)
Cannot be used with M: Round type pressure gauge (with color zone). Available by request for special.
The digital pressure switch will be equipped with the unit selection function, setting to psi initially.
- *17 For options: E1 to E0
This product is for overseas use only according to the New Measurement Act. (The SI unit is provided for use in Japan.)
- *18 ○: For the pipe thread type: NPT only
- *19 △: Select with options: E1 to E0.

Standard Specifications

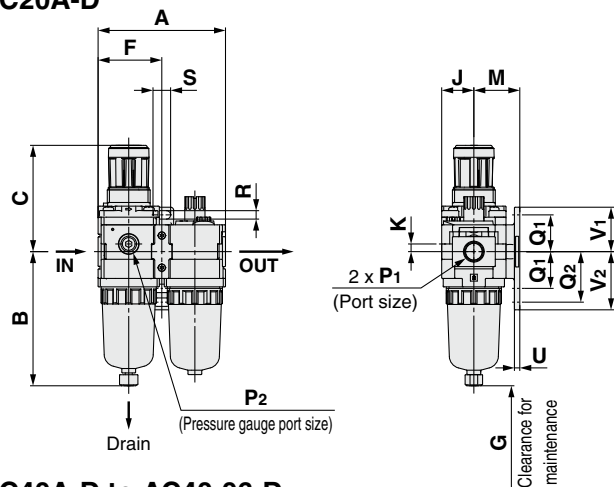
Model			AC20A-D	AC30A-D	AC40A-D	AC40A-06-D	AC50A-D	AC60A-D
Component	Filter Regulator	[AW]	AW20-D	AW30-D	AW40-D	AW40-06-D	AW60-D	AW60-D
	Lubricator	[AL]	AL20-D	AL30-D	AL40-D	AL40-06-D	AL50-D	AL60-D
Port size			1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	1
Pressure gauge port size*1			[AW] 1/8					
Fluid			Air					
Ambient and fluid temperatures*2			-5 to 60°C (No freezing)					
Proof pressure			1.5 MPa					
Max. operating pressure			1.0 MPa					
Auto drain minimum operating pressure	N.C.	[AW]	0.1 MPa	0.15 MPa				
	N.O.	[AW]	—	0.1 MPa				
Set pressure range			[AW] 0.05 to 0.85 MPa					
Nominal filtration rating*3			[AW] 5 μm					
Compressed air purity class*4			ISO 8573-1:2010 [6 : 4 : -]*5					
Drain capacity			[AW] 8 cm ³	25 cm ³	45 cm ³			
Min. dripping flow rate*6			[AL] 15 L/min (ANR)	Port size 1/4: 30 L/min (ANR) Port size 3/8: 40 L/min (ANR)	Port size 1/4: 30 L/min (ANR) Port size 3/8: 40 L/min (ANR) Port size 1/2: 50 L/min (ANR)	50 L/min (ANR)	190 L/min (ANR)	220 L/min (ANR)
Oil capacity			[AL] 25 cm ³	55 cm ³	135 cm ³			
Recommended lubricant			[AL]	Class 1 turbine oil (ISO VG32)				
Bowl material			[AW/AL]	Polycarbonate				
Bowl guard			[AW/AL]	Semi-standard (Steel)	Standard (Polycarbonate)			
Construction			[AW]	Relieving type				
Weight			0.31 kg	0.58 kg	1.12 kg	1.22 kg	2.90 kg	2.97 kg

- *1 Pressure gauge connection threads are not available for F.R.L. unit with a square embedded type pressure gauge or with a digital pressure switch.
- *2 -5 to 50°C for the products with the digital pressure switch
- *3 For the following conditions in accordance with [Test condition: ISO 8573-4:2001 compliant, Test method ISO 12500-3:2009 compliant]
Conditions: When a new element is used, and the flow capacity, inlet pressure, and the amount of solid bodies on the filter inlet side are stable
- *4 The compressed air purity class is indicated based on ISO 8573-1:2010 Compressed air – Part 1: Contaminants and purity classes.
For details on this standard, refer to page 131.
- *5 The compressed air quality class on the inlet side is [7 : 4 : 4].
- *6 The flow rate is 5 drops or greater/min under the following conditions: Inlet pressure of 0.5 MPa; Class 1 turbine oil (ISO VG32); Temperature at 20°C; Oil adjustment valve fully open.
For a circuit that repeatedly turns ON and OFF on the outlet side, make the adjustment so that the average air consumption per minute becomes the minimum dripping flow rate or more.

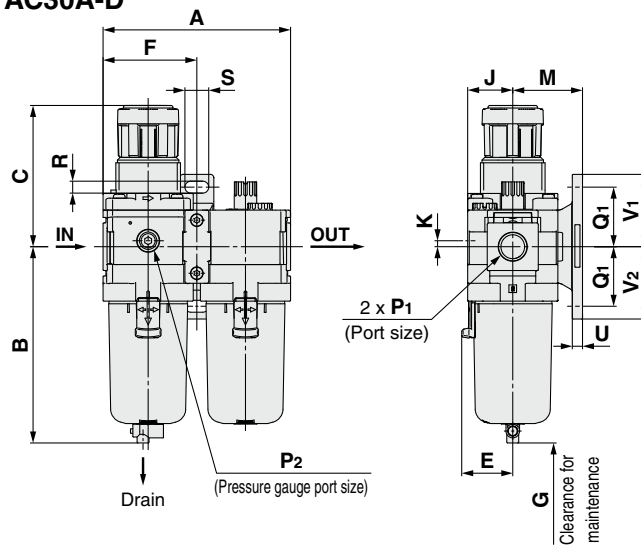
AC20A-D to AC60A-D Series

Dimensions

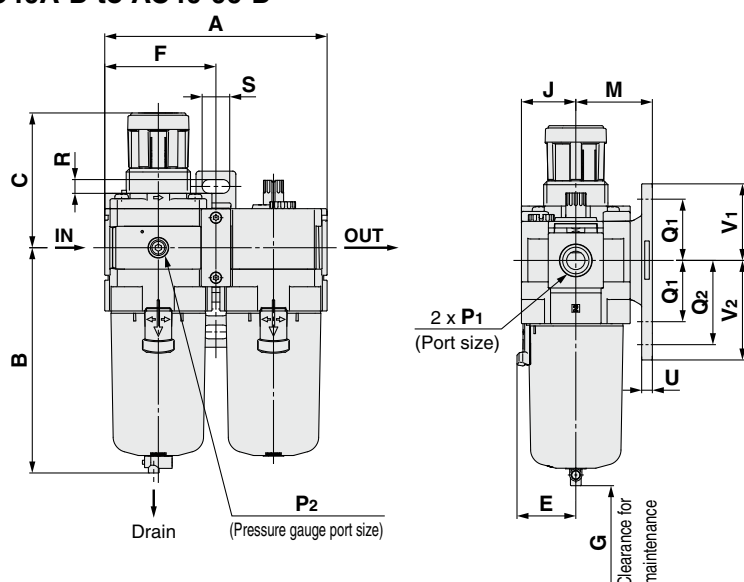
AC20A-D



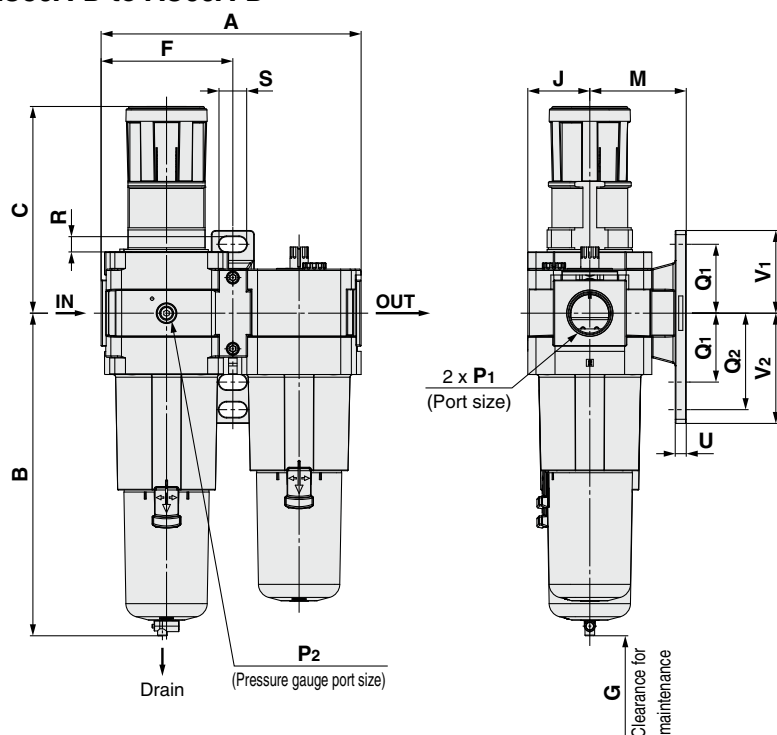
AC30A-D



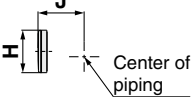
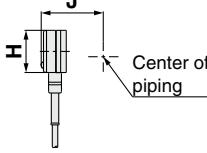
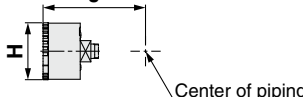
AC40A-D to AC40-06-D

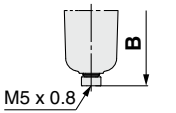
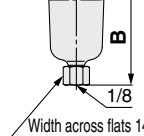
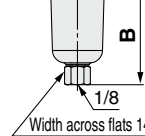
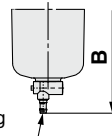
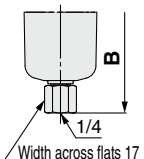
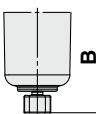
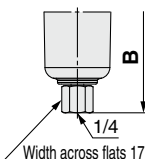
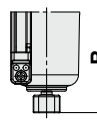
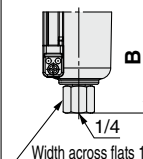


AC50A-D to AC60A-D



Air Combination **AC20A-D to AC60A-D Series**

Applicable model	Optional specifications			
	Square embedded type pressure gauge	Digital pressure switch	Round type pressure gauge	Round type pressure gauge (with color zone)
AC20A-D to AC60A-D				

Applicable model	Optional specifications	Semi-standard					
	With auto drain	PC/PA bowl		Metal bowl		Metal bowl with level gauge	
		Drain cock with barb fitting	With drain guide	With drain cock	With drain guide	With drain cock	With drain guide
AC20A-D							
AC30A-D to AC60A-D	N.O.: Black N.C.: Gray Thread type/Rc, G: ø10 One-touch fitting Thread type/NPT: ø3/8" One-touch fitting						

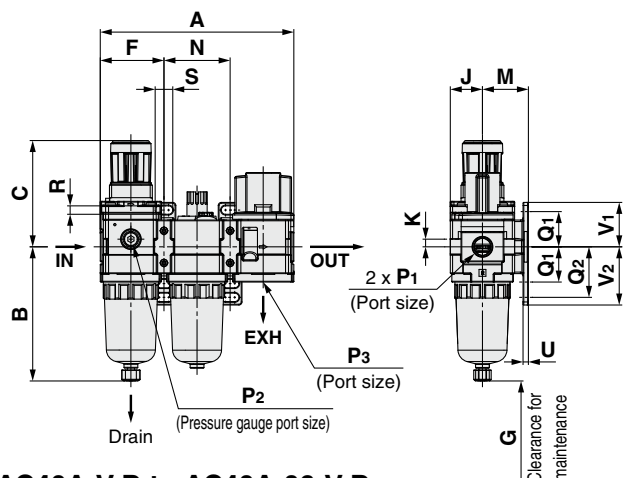
Model	Standard specifications																	
											Bracket mount							
	P ₁	P ₂	A	B	C	E	F	G	J	K	M	Q ₁	Q ₂	R	S	U	V ₁	V ₂
AC20A-D	1/8, 1/4	1/8	83.2	87.6	71.8	—	41.6	60	21	5	30	24	33	5.5	11.5	3.5	29	38
AC30A-D	1/4, 3/8	1/8	110.2	115.4	86.5	30	55.1	80	26.5	3.5	41	35	—	7	14	6	42.5	42.5
AC40A-D	1/4, 3/8, 1/2	1/8	145.2	147.1	91.5	38.4	72.6	110	35.5	—	50	40	55	9	18	7	50	65
AC40A-06-D	3/4	1/8	155.2	149.1	93	38.4	77.6	110	35.5	—	50	40	55	9	18	7	50	65
AC50A-D	3/4, 1	1/8	191.2	234.1	155	—	98.1	110	45	—	70	50	70	11	20	8	60	80
AC60A-D	1	1/8	196.2	234.1	155	—	98.1	110	45	—	70	50	70	11	20	8	60	80

Model	Optional specifications								Semi-standard specifications							
	Square embedded type pressure gauge		Digital pressure switch		Round type pressure gauge		Round type pressure gauge (with color zone)		With auto drain	PC/PA bowl		Metal bowl		Metal bowl with level gauge		
	H	J	H	J	H	J	H	J		With barb fitting	With drain guide	With drain cock	With drain guide	With drain cock	With drain guide	
AC20A-D	□28	27	□27.8	37.5	ø37.5	57.5	ø37.5	58.5	104.9	—	91.4	B	B	93.9	—	—
AC30A-D	□28	32.5	□27.8	43	ø37.5	63	ø37.5	64	157.1	123.9	122.2	117.8	122.3	137.8	142.3	
AC40A-D	□28	41.5	□27.8	52	ø42.5	73	ø42.5	73	186.9	155.6	153.9	149.5	154	169.5	174	
AC40A-06-D	□28	41.5	□27.8	52	ø42.5	73	ø42.5	73	188.9	157.6	155.9	151.5	156	171.5	176	
AC50A-D	□28	51	□27.8	61.5	ø42.5	82.5	ø42.5	82.5	273.9	242.6	240.9	236.5	241	256.5	261	
AC60A-D	□28	51	□27.8	61.5	ø42.5	82.5	ø42.5	82.5	273.9	242.6	240.9	236.5	241	256.5	261	

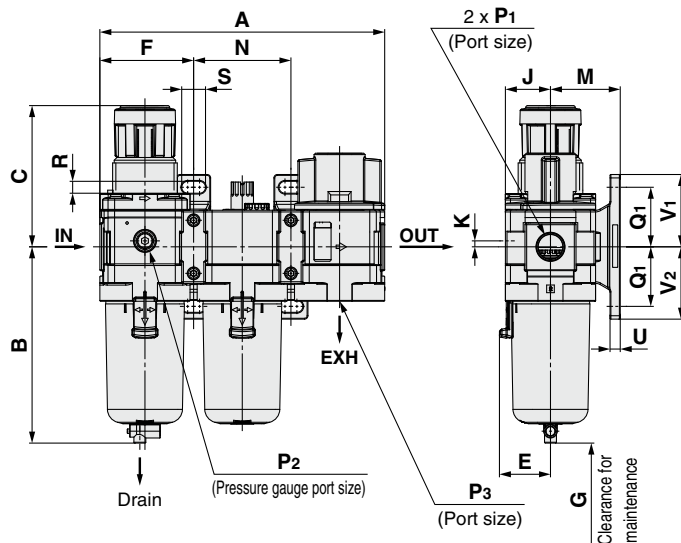
AC20A-D to AC60A-D Series

Dimensions: With Pressure Relief 3-Port Valve (V)

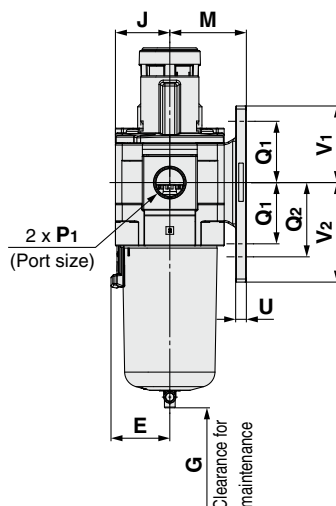
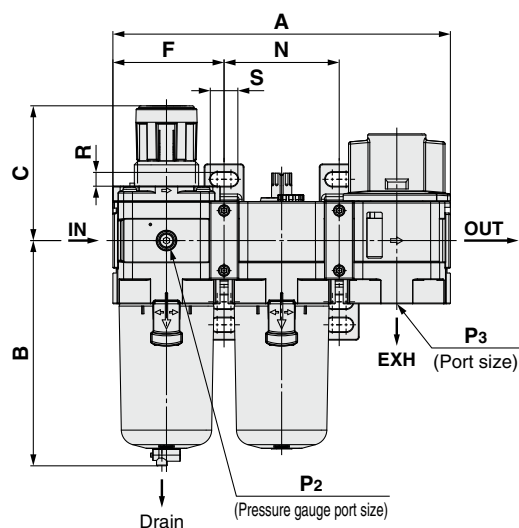
AC20A-V-D



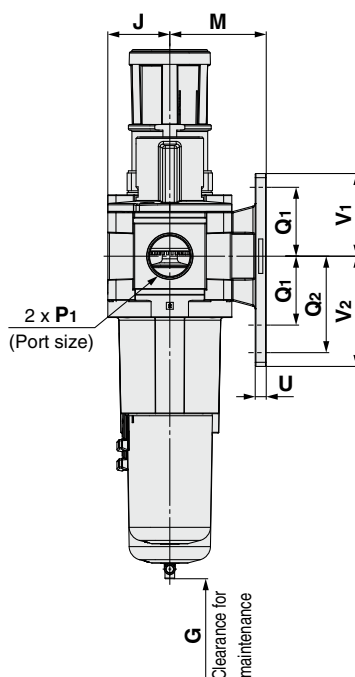
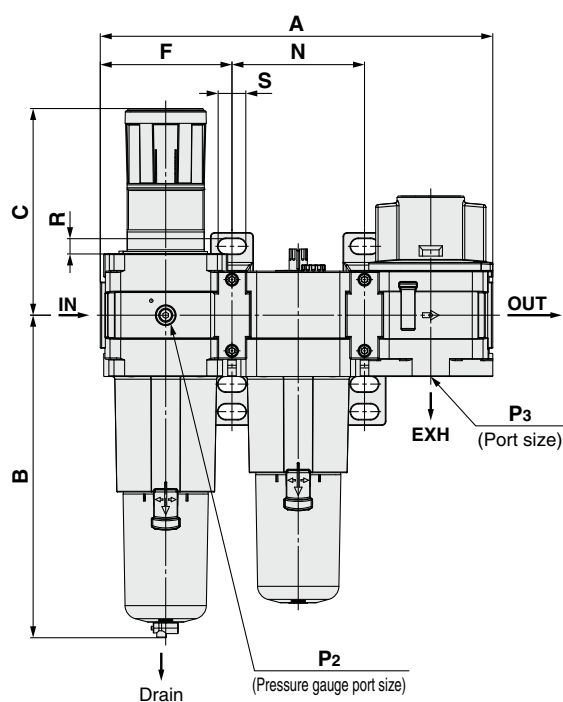
AC30A-V-D



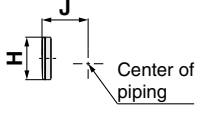
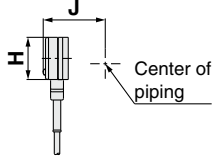
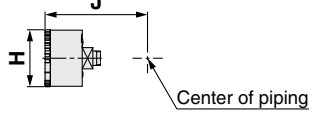
AC40A-V-D to AC40A-06-V-D

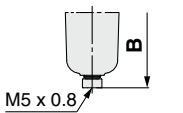
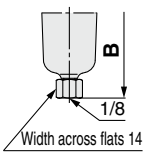
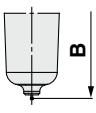
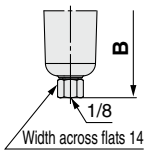
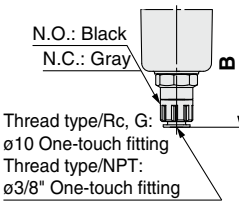
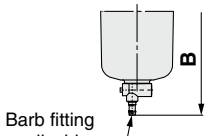
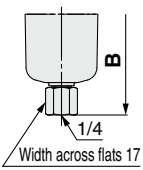
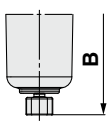
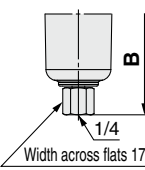
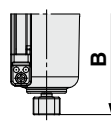
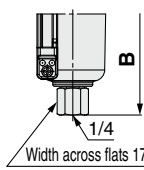


AC50A-V-D



Air Combination **AC20A-D to AC60A-D Series**

Applicable model	Optional specifications			
	Square embedded type pressure gauge	Digital pressure switch	Round type pressure gauge	Round type pressure gauge (with color zone)
AC20A-V-D to AC50A-V-D				

Applicable model	Optional specifications	Semi-standard					
	With auto drain	PC/PA bowl		Metal bowl		Metal bowl with level gauge	
		Drain cock with barb fitting	With drain guide	With drain cock	With drain guide	With drain cock	With drain guide
AC20A-V-D							
AC30A-V-D to AC50A-V-D							

Model	Standard specifications																			
												Bracket mount								
	P ₁	P ₂	P ₃	A	B	C	E	F	G	J	K	M	N	Q ₁	Q ₂	R	S	U	V ₁	V ₂
AC20A-V-D	1/8, 1/4	1/8	1/8	126.4	87.6	71.8	—	41.6	60	21	5	30	43.2	24	33	5.5	11.5	3.5	29	38
AC30A-V-D	1/4, 3/8	1/8	1/4	167.4	115.4	86.5	30	55.1	80	26.5	3.5	41	57.2	35	—	7	14	6	42.5	42.5
AC40A-V-D	1/4, 3/8, 1/2	1/8	3/8	220.4	147.1	91.5	38.4	72.6	110	35.5	—	50	75.2	40	55	9	18	7	50	65
AC40A-06-V-D	3/4	1/8	1/2	235.4	149.1	93	38.4	77.6	110	35.5	—	50	80.2	40	55	9	18	7	50	65
AC50A-V-D	3/4, 1	1/8	1/2	287.4	234.1	155	—	98.1	110	45	—	70	96.2	50	70	11	20	8	60	80

Model	Optional specifications									Semi-standard specifications					
	Square embedded type pressure gauge		Digital pressure switch		Round type pressure gauge		Round type pressure gauge (with color zone)		With auto drain	PC/PA bowl		Metal bowl		Metal bowl with level gauge	
										With barb fitting	With drain guide	With drain cock	With drain guide	With drain cock	With drain guide
	H	J	H	J	H	J	H	J	B	B	B	B	B	B	B
AC20A-V-D	□28	27	□27.8	37.5	ø37.5	57.5	ø37.5	58.5	104.9	—	91.4	87.4	93.9	—	—
AC30A-V-D	□28	32.5	□27.8	43	ø37.5	63	ø37.5	64	157.1	123.9	122.2	117.8	122.3	137.8	142.3
AC40A-V-D	□28	41.5	□27.8	52	ø42.5	73	ø42.5	73	186.9	155.6	153.9	149.5	154	169.5	174
AC40A-06-V-D	□28	41.5	□27.8	52	ø42.5	73	ø42.5	73	188.9	157.6	155.9	151.5	156	171.5	176
AC50A-V-D	□28	51	□27.8	61.5	ø42.5	82.5	ø42.5	82.5	273.9	242.6	240.9	236.5	241	256.5	261

AC-D Series

Option / Accessory / Attachment

Part No. List

Section	Model		Part no.						
			For AC20-D	For AC30-D	For AC40-D	For AC40-06-D	For AC50-D	For AC60-D	
			For AC20A-D	For AC30A-D	For AC40A-D	For AC40A-06-D	For AC50A-D	For AC60A-D	
			For AC20B-D	For AC30B-D	For AC40B-D	For AC40B-06-D	For AC50B-D	For AC60B-D	
Description			For AC20C-D	For AC30C-D	For AC40C-D	For AC40C-06-D	—	—	
			For AC20D-D	For AC30D-D	For AC40D-D	For AC40D-06-D	—	—	
Option	*1 Pressure gauge	Round type	Standard	G36-10-□01		G46-10-□01			
			0.02 to 0.2 MPa setting	G36-4-□01		G46-4-□01			
		Round type (with color zone)	Standard	G36-10-□01-L		G46-10-□01-L			
			0.02 to 0.2 MPa setting	G36-4-□01-L		G46-4-□01-L			
	Digital pressure switch*3	Square embedded type*2	Standard	GC3-10AS-D [GC3P-030AS (Pressure gauge cover only)]					
			0.02 to 0.2 MPa setting	GC3-4AS-D [GC3P-030AS (Pressure gauge cover only)]					
		NPN output/Wiring bottom entry	ISE35-N-25-MLA-X523 [ISE35-N-25-M (Switch body only)]						
		NPN output/Wiring top entry	ISE35-R-25-MLA-X523 [ISE35-R-25-M (Switch body only)]						
		PNP output/Wiring bottom entry	ISE35-N-65-MLA-X523 [ISE35-N-65-M (Switch body only)]						
		PNP output/Wiring top entry	ISE35-R-65-MLA-X523 [ISE35-R-65-M (Switch body only)]						
		Analog voltage output/Wiring bottom entry	ISE35-N-26-MLA-X523 [ISE35-N-26-M (Switch body only)]						
		Analog voltage output/Wiring top entry	ISE35-R-26-MLA-X523 [ISE35-R-26-M (Switch body only)]						
		Analog current output/Wiring bottom entry	ISE35-N-28-MLA-X523 [ISE35-N-28-M (Switch body only)]						
		Analog current output/Wiring top entry	ISE35-R-28-MLA-X523 [ISE35-R-28-M (Switch body only)]						
	IO-Link/Wiring bottom entry	ISE35-N-L-MLA-X523 [ISE35-N-L-M (Switch body only)]							
	IO-Link/Wiring top entry	ISE35-R-L-MLA-X523 [ISE35-R-L-M (Switch body only)]							
	Float type auto drain*4		N.C.	AD27-D	AD37-D	AD47-D			
			N.O.	—	AD38-D	AD48-D			
Accessory	Spacer		p. 57	Y200-D	Y300-D	Y400-D	Y500-D	Y600-D	
	Spacer with bracket		p. 57	Y200T-D	Y300T-D	Y400T-D	Y500T-D	Y600T-D	
Attachment	Pressure relief 3-port valve*5, *6		p. 58	VHS20-□01-D VHS20-□02-D	VHS30-□02-D VHS30-□03-D	VHS40-□02-D VHS40-□03-D VHS40-□04-D	VHS40-□06-D	VHS50-□06-D VHS50-□10-D	—
	Piping adapter*5, *6		p. 59	E200-□01-D E200-□02-D E200-□03-D	E300-□02-D E300-□03-D E300-□04-D	E400-□02-D E400-□03-D E400-□04-D E400-□06-D	E500-□06-D E500-□10-D	E600-□06-D E600-□10-D E600-□12-D E600-□14-D	
	L-shaped piping adapter*5, *6		p. 60	E200L-□01-D E200L-□02-D	E300L-□01-D E300L-□02-D E300L-□03-D	E400L-□02-D E400L-□03-D E400L-□04-D	E500L-□04-D E500L-□06-D	E600L-□04-D E600L-□06-D E600L-□10-D	
	T-shaped piping adapter*5, *6		p. 61	E200T-□01-D E200T-□02-D	E300T-□01-D E300T-□02-D E300T-□03-D	E400T-□02-D E400T-□03-D E400T-□04-D	E500T-□04-D E500T-□06-D	E600T-□04-D E600T-□06-D E600T-□10-D	
	T-spacer*5, *6	p. 62	Standard	Y210-□01-D Y210-□02-D	Y310-□01-D Y310-□02-D Y310-□03-D	Y410-□02-D Y410-□03-D Y410-□04-D	Y510-□02-D Y510-□03-D Y510-□04-D Y510-□06-D	Y610-□03-D Y610-□04-D Y610-□06-D	
			Slim type	Y210-□01-1-D Y210-□02-1-D	Y310-□01-1-D Y310-□02-1-D	Y410-□02-1-D Y410-□03-1-D	Y510-□02-1-D Y510-□03-1-D	Y610-□03-1-D Y610-□04-1-D	
	Cross spacer*5, *6	p. 63	Standard	Y24-□01-D Y24-□02-D	Y34-□01-D Y34-□02-D Y34-□03-D	Y44-□02-D Y44-□03-D Y44-□04-D	Y54-□02-D Y54-□03-D Y54-□04-D Y54-□06-D	Y64-□03-D Y64-□04-D Y64-□06-D	
			Front and back port selectable type	Y24-□01-1-D Y24-□02-1-D	Y34-□01-1-D Y34-□02-1-D Y34-□03-1-D	Y44-□02-1-D Y44-□03-1-D Y44-□04-1-D	Y54-□03-1-D Y54-□04-1-D Y54-□06-1-D	—	
	Pressure switch*6		p. 64	Standard Slim type	IS10M-20-D IS10M-20-1-D	IS10M-30-D IS10M-30-1-D	IS10M-40-D IS10M-40-1-D	IS10M-50-D IS10M-50-1-D	IS10M-60-D IS10M-60-1-D
	Pressure switch with T-spacer*5, *6		p. 65	IS10T-20-□01-D IS10T-20-□02-D	IS10T-30-□01-D IS10T-30-□02-D IS10T-30-□03-D	IS10T-40-□02-D IS10T-40-□03-D IS10T-40-□04-D	IS10T-50-□02-D IS10T-50-□03-D IS10T-50-□04-D IS10T-50-□06-D	IS10T-60-□03-D IS10T-60-□04-D IS10T-60-□06-D	
	Pressure switch with L-shaped piping adapter*5, *6		p. 66	IS10L-20-□01-D IS10L-20-□02-D	IS10L-30-□01-D IS10L-30-□02-D IS10L-30-□03-D	IS10L-40-□02-D IS10L-40-□03-D IS10L-40-□04-D	IS10L-50-□04-D IS10L-50-□06-D	IS10L-60-□04-D IS10L-60-□06-D IS10L-60-□10-D	
	Pressure switch with piping adapter*5, *6		p. 67	IS10E-20-□01-D IS10E-20-□02-D IS10E-20-□03-D	IS10E-30-□02-D IS10E-30-□03-D IS10E-30-□04-D	IS10E-40-□02-D IS10E-40-□03-D IS10E-40-□04-D IS10E-40-□06-D	IS10E-50-□06-D IS10E-50-□10-D	IS10E-60-□06-D IS10E-60-□10-D IS10E-60-□12-D IS10E-60-□14-D	
	Right angle adapter*6		p. 68	E210T-D	E310T-D	E410T-D	—	—	—
	Reducing adapter*6		p. 68	E310R-D	E310R-D E410R-D	E410R-D	—	—	—
	Cross adapter*5, *6		p. 69	Y24M-□02-D	Y34M-□03-D	Y44M-□04-D	—	—	—
	End plate*6		p. 70	E200E-D	E300E-D	E400E-D	—	—	—

*1 □ in part numbers for a round type pressure gauge indicates a pipe thread type. No indication is necessary for R; however, indicate N for NPT. Please contact SMC regarding the connection thread NPT and pressure gauge supply for psi unit specifications.

*2 Including one O-ring and 2 mounting screws

*3 Lead wire with connector (2 m), adapter, lock pin, O-ring (1 pc.), mounting screws (2 pcs.) are attached. []: Switch body only
Regarding how to order the digital pressure switch, refer to page 130.

*4 Minimum operating pressure: N.O. type=0.1 MPa; N.C. type=0.1 MPa (AD27-D) and 0.15 MPa (AD37-D/AD47-D). Please contact SMC separately for psi and °F unit display specifications.

*5 □ in attachment part numbers indicates a pipe thread type. No indication is necessary for Rc thread; however, indicate N for NPT thread, and F for G thread.

*6 Separate spacers are required for modular units.

AC-D Series

Accessories (Spacer / Spacer with Bracket)

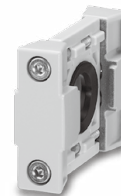
Spacer / Spacer with Bracket

Y 300 - D

① ②

	Symbol	Description	①				
			Body size [Applicable AC size]				
			200 [AC20]	300 [AC30]	400 [AC40]	500 [AC40-06]	600 [AC50/AC60]
②	Bracket	NII	Spacer	●	●	●	●
		T	Spacer with bracket	●	●	●	●

Spacer
(Y□-D)



Spacer with bracket
(Y□T-D)



Standard Specifications

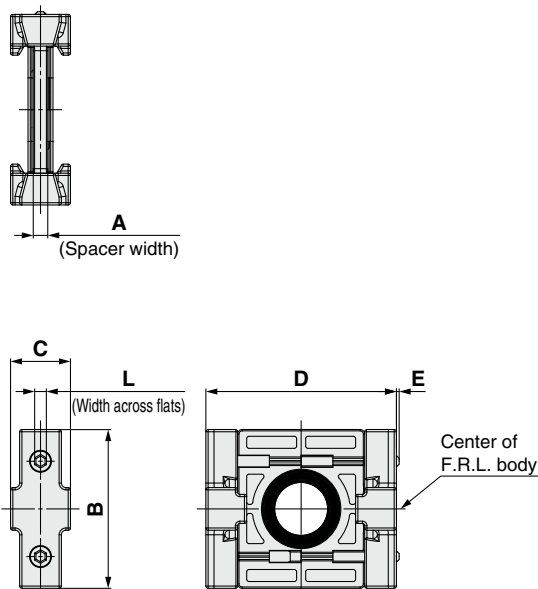
Fluid	Air
Ambient and fluid temperatures	-5 to 60°C (No freezing)
Proof pressure	1.5 MPa
Max. operating pressure	1.0 MPa

Replacement Parts

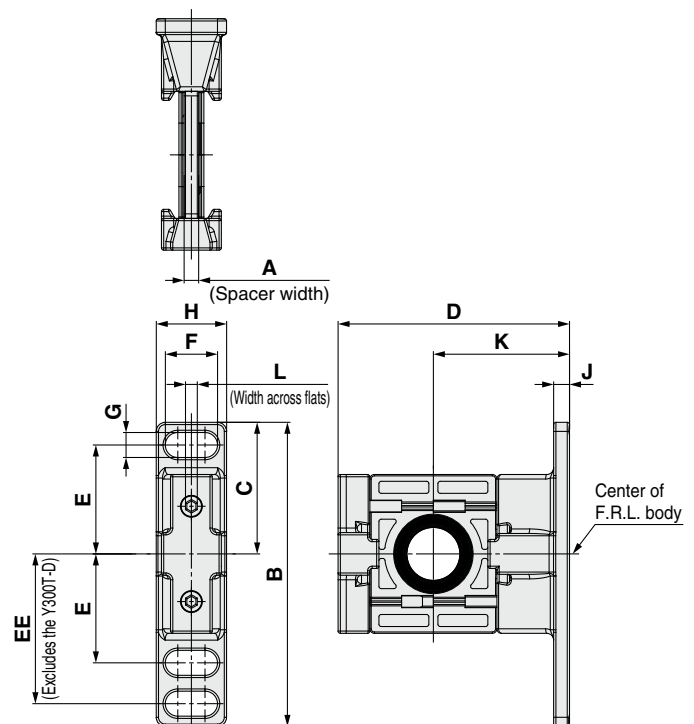
Description	Material	Part no.				
		Y200-D Y200T-D	Y300-D Y300T-D	Y400-D Y400T-D	Y500-D Y500T-D	Y600-D Y600T-D
Seal	HNBR	Y220P-050S	Y320P-050S	Y420P-050S	Y520P-050S	Y620P-050S

Dimensions

Spacer



Spacer with bracket



Model	A	B	C	D	E	L	Applicable size
Y200-D	3.2	35	13.2	42	0.6	2	AC20-D
Y300-D	4.2	43	16.2	53	—	3	AC30-D
Y400-D	5.2	51	19.2	71	—	3	AC40-D
Y500-D	5.2	54	21.2	71	—	3	AC40-06-D
Y600-D	6.2	64	27.2	90	—	4	AC50-D AC60-D

Model	A	B	C	D	E	EE	F	G	H	J	K	L	Applicable size
Y200T-D	3.2	67	29	51	24	33	11.5	5.5	15.5	3.5	30	2	AC20-D
Y300T-D	4.2	85	42.5	67.5	35	—	14	7	20	6	41	3	AC30-D
Y400T-D	5.2	115	50	85.5	40	55	18	9	26	7	50	3	AC40-D
Y500T-D	5.2	115	50	85.5	40	55	18	9	26	7	50	3	AC40-06-D
Y600T-D	6.2	140	60	115	50	70	20	11	31.2	8	70	4	AC50-D AC60-D

AC-D Series Attachments

Semi-standard Symbol Selection

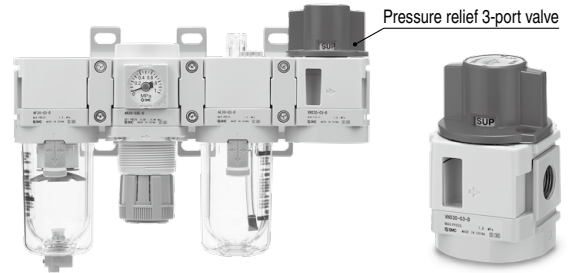
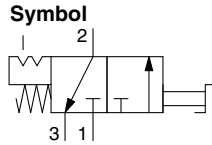
- Select one each for **a** and **b**.
- When more than one specification is required, indicate in alphabetical order.
Example) VHS30-N03-RZ-D

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 **30** - **03** - **D**

① ② ③ ④



		Symbol	Description	①					
				Body size [Applicable AC size]					
				20 [AC20]	30 [AC30]	40 [AC40]	40 [AC40-06]	50 [AC50/AC60]*4	
②	Pipe thread type	Nil	Rc*1	●	●	●	●	●	
		N	NPT	●	●	●	●	●	
		F	G	●	●	●	●	●	
+									
③	Port size	01	1/8	●	—	—	—	—	
		02	1/4	●	●	●	—	—	
		03	3/8	—	●	●	—	—	
		04	1/2	—	—	●	—	—	
		06	3/4	—	—	—	●	●	
		10	1	—	—	—	—	●	
+									
④	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.

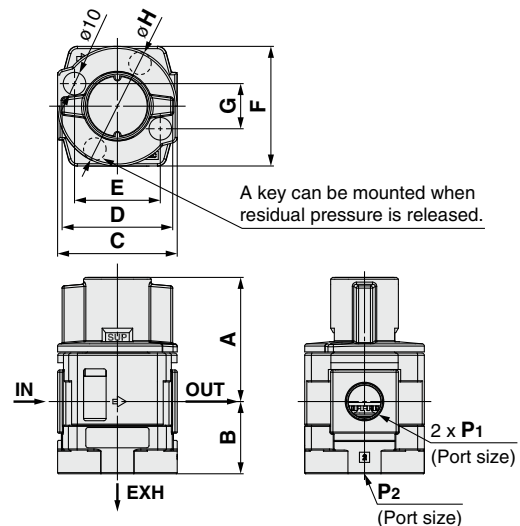
Standard Specifications

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	EXH	IN → OUT			OUT → EXH		
			C (dm³/s·bar)	b	Cv	C (dm³/s·bar)	b	Cv
VHS20	1/8	1/8	4.0	0.41	1.1	3.7	0.42	1.1
	1/4	1/8	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	1/4	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	3/8	17.2	0.47	4.8	13.6	0.47	3.7
	1/2	3/8	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	1/2	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.

AC-D Series

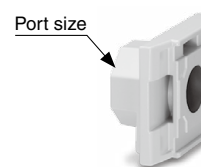
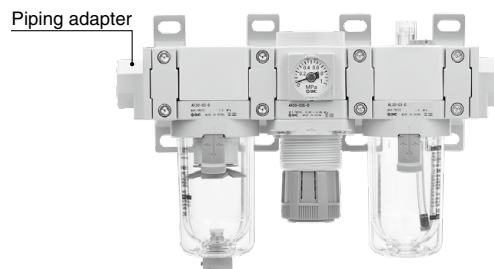
Piping Adapter: 1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2

· Using on the inlet side or the outlet side of F.R.L. units makes it easier to perform maintenance, as the component can be installed/ removed without removing the piping.

E **300** - **03** - **D**

① ② ③

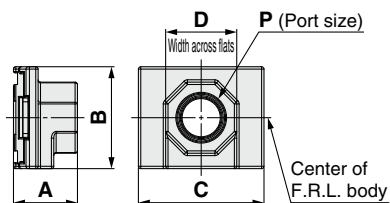
	Symbol	Description	① Body size [Applicable AC size]				
			200 [AC20]	300 [AC30]	400 [AC40]	500 [AC40-06]	600 [AC50, AC60]
②	Pipe thread type	Nil	Rc	●	●	●	●
		N	NPT	●	●	●	●
		F	G	●	●	●	●
③	Port size	+					
		01	1/8	●	—	—	—
		02	1/4	●	●	—	—
		03	3/8	●	●	—	—
		04	1/2	—	●	—	—
		06	3/4	—	—	●	●
		10	1	—	—	●	●
		12	1 1/4	—	—	—	●
		14	1 1/2	—	—	—	●



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

Dimensions



Model	P	A	B	C	D	Applicable AC size
E200-D	1/8, 1/4, 3/8	24	35	42	24	AC20-D
E300-D	1/4, 3/8, 1/2	27	43	53	30	AC30-D
E400-D	1/4, 3/8, 1/2, 3/4	30	51	71	36	AC40-D
E500-D	3/4	31	54	71	36	AC40-06-D
	1				46	
E600-D	3/4, 1	39	64	90	46	AC50-D
	1 1/4, 1 1/2				63	AC60-D

Caution on Mounting

Pipe threads are not provided on the face which connects with the other components. For use, a separate spacer (or spacer with bracket) is required.

L-Shaped Piping Adapter: 1/8, 1/4, 3/8, 1/2, 3/4, 1

- Upward/downward piping is possible on the inlet side and the outlet side of F.R.L. units.
- Ideal for space-saving and reducing piping labor
- Using on the inlet side or the outlet side of F.R.L. units makes it easier to perform maintenance, as the component can be installed/removed without removing the piping.

E **300** **L** - **03** - **D**

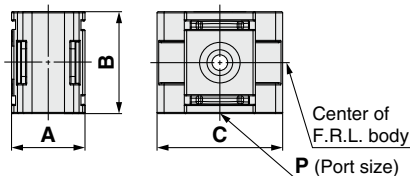
① ② ③

		Symbol	Description	①				
				Body size [Applicable AC size]				
				200 [AC20]	300 [AC30]	400 [AC40]	500 [AC40-06]	600 [AC50, AC60]
②	Pipe thread type	Nil	Rc	●	●	●	●	●
		N	NPT	●	●	●	●	●
		F	G	●	●	●	●	●
+								
③	Port size	01	1/8	●	●	—	—	—
		02	1/4	●	●	●	—	—
		03	3/8	—	●	●	—	—
		04	1/2	—	—	●	●	●
		06	3/4	—	—	—	●	●
		10	1	—	—	—	—	●

Standard Specifications

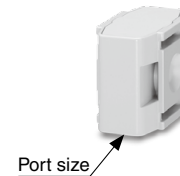
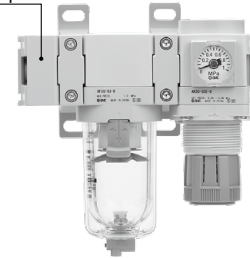
Fluid	Air
Ambient and fluid temperatures	−5 to 60°C (No freezing)
Proof pressure	1.5 MPa
Max. operating pressure	1.0 MPa

Dimensions



Model	P	A	B	C	Applicable AC size
E200L-D	1/8, 1/4	28	35	42	AC20-D
E300L-D	1/8, 1/4, 3/8	31	43	53	AC30-D
E400L-D	1/4, 3/8, 1/2	39	51	71	AC40-D
E500L-D	1/2, 3/4	47	54	71	AC40-06-D
E600L-D	1/2, 3/4, 1	62	64	90	AC50-D AC60-D

L-shaped piping adapter



Port size

Caution on Mounting

Pipe threads are not provided on the face which connects with the other components. For use, a separate spacer (or spacer with bracket) is required.

AC-D Series

T-Shaped Piping Adapter: 1/8, 1/4, 3/8, 1/2, 3/4, 1

- Both upward and downward piping are possible on the inlet and outlet sides of F.R.L. units.
- Ideal for space-saving and reducing piping labor
- Using on the inlet side or the outlet side of F.R.L. units makes it easier to perform maintenance, as the component can be installed/ removed without removing the piping.

E **300** **T** - **03** - **D**

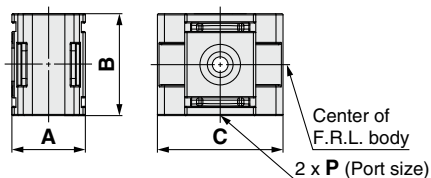
① ② ③

	Symbol	Description	① Body size [Applicable AC size]				
			200 [AC20]	300 [AC30]	400 [AC40]	500 [AC40-06]	600 [AC50, AC60]
② Pipe thread type	Nil	Rc	●	●	●	●	●
	N	NPT	●	●	●	●	●
	F	G	●	●	●	●	●
+							
③ Port size	01	1/8	●	●	—	—	—
	02	1/4	●	●	●	—	—
	03	3/8	—	●	●	—	—
	04	1/2	—	—	●	●	●
	06	3/4	—	—	—	●	●
	10	1	—	—	—	—	●

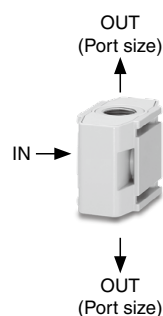
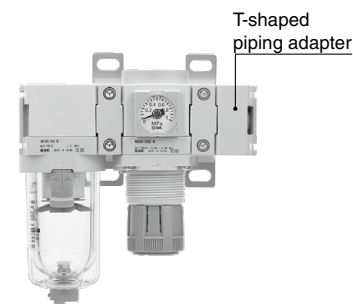
Standard Specifications

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

Dimensions



Model	P	A	B	C	Applicable AC size
E200T-D	1/8, 1/4	28	35	42	AC20-D
E300T-D	1/8, 1/4, 3/8	31	43	53	AC30-D
E400T-D	1/4, 3/8, 1/2	39	51	71	AC40-D
E500T-D	1/2, 3/4	47	54	71	AC40-06-D
E600T-D	1/2, 3/4, 1	62	64	90	AC50-D AC60-D



	Port size
IN	—
OUT	③

Caution on Mounting

Pipe threads are not provided on the face which connects with the other components. For use, a separate spacer (or spacer with bracket) is required.

T-Spacer: 1/8, 1/4, 3/8, 1/2, 3/4

· Using a T-spacer facilitates the branching of air flow.

Y **310** - **03** - **D**

① ② ③ ④

		Symbol	Description	① Body size [Applicable AC size]				
				210 [AC20]	310 [AC30]	410 [AC40]	510 [AC40-06]	610 [AC50, AC60]
②	Pipe thread type	Nil	Rc	●	●	●	●	●
		N	NPT	●	●	●	●	●
		F	G	●	●	●	●	●
③	Port size (OUT ①)	+		●	●	—	—	—
		01	1/8	●	●	—	—	—
		02	1/4	—	○*1	●	●	—
		03	3/8	—	—	○*1	○*1	●
		04	1/2	—	—	—	○*1	○*1
④	Body type	Nil	Standard	●	●	●	●	●
		1	Slim	●	●	●	●	●

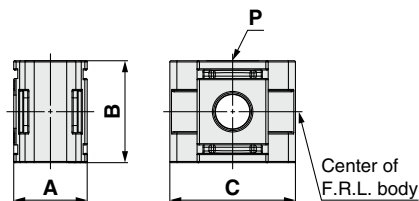
*1 ○: Only applicable to the standard type body

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

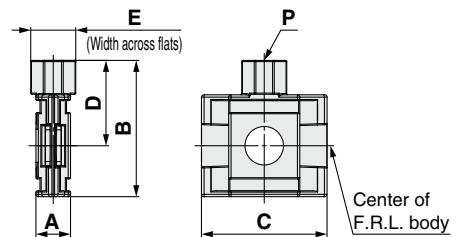
Dimensions

Body type: Standard

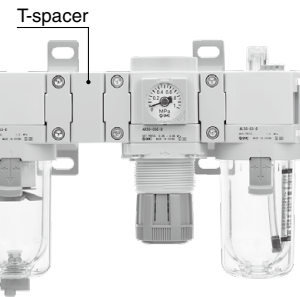


Model	P	A	B	C	Applicable AC size
Y210-D	1/8, 1/4	28	35	42	AC20-D
Y310-D	1/8, 1/4, 3/8	31	43	53	AC30-D
Y410-D	1/4, 3/8, 1/2	39	51	71	AC40-D
Y510-D	1/4, 3/8, 1/2, 3/4	47	54	71	AC40-06-D
Y610-D	3/8, 1/2, 3/4	62	64	90	AC50-D, AC60-D

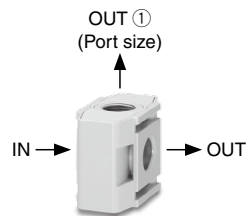
Body type: Slim



Model	P	A	B	C	D	E	Applicable AC size
Y210-1-D	1/8, 1/4	14.6	48.5	42	31	19	AC20-D
Y310-1-D	1/8, 1/4	14.6	57.5	53	36	19	AC30-D
Y410-1-D	1/4, 3/8	18.6	67	71	41.5	24	AC40-D
Y510-1-D	1/4, 3/8	18.6	70	63	43	24	AC40-06-D
Y610-1-D	3/8, 1/2	22	87	90	55	30	AC50-D, AC60-D

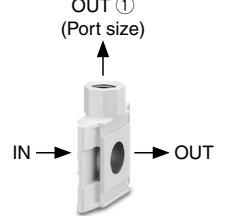


Body type: Standard (Y□-□□-D)



	Port size
IN	—
OUT	—
OUT ①	③

Body type: Slim (Y□-□□-1-D)



	Port size
IN	—
OUT	—
OUT ①	③

Caution on Mounting

- Pipe threads are not provided on the face which connects with the other components. For use, a separate spacer (or spacer with bracket) is required.
- The backflow of oil may occur when a spacer is used on the inlet side of the lubricator. Attach a check valve between the lubricator and the product to prevent backflow.
- When the slim body type is to be mounted to a wall using a spacer with bracket, use a spacer on only one side.

AC-D Series

Cross Spacer: 1/8, 1/4, 3/8, 1/2, 3/4

The piping can be branched upward/downward (OUT ①) or forward/backward (OUT ②).

Y **34** - **03** - **D**

① ② ③ ④

		Symbol	Description	①				
				Body size [Applicable AC size]				
				24 [AC20]	34 [AC30]	44 [AC40]	54 [AC40-06]	64 [AC50, AC60]
②	Pipe thread type	Nil	Rc	●	●	●	●	●
		N	NPT	●	●	●	●	●
		F	G	●	●	●	●	●
③	Port size (OUT ①)	+		●	●	—	—	—
		01	1/8	●	●	—	○*3	—
		02	1/4	—	●	●	●	●
		03	3/8	—	—	●	●	●
		04	1/2	—	—	—	●	●
④	Body type	+		●	●	●	●	●
		Nil	Standard*1	●	●	●	●	●
		1	Front and back port selectable type*2	●	●	●	●	—

*1 The front and back ports are for releasing pressure and only come in size 1/8, irrespective of the ③ port size. The minimum port size is 1.4 mm.

*2 The front and back ports come in the same size as the ③ port size.

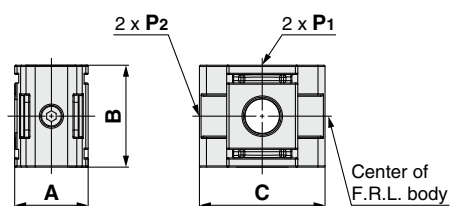
*3 "○" indicates that only the standard body type is applicable.

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

Dimensions

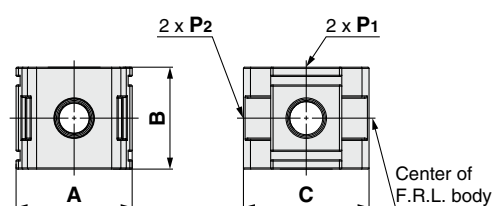
Body type: Standard



Model	P1	P2*1	A	B	C	Applicable AC size
Y24-D	1/8, 1/4	1/8	28	35	42	AC20-D
Y34-D	1/8, 1/4, 3/8	1/8	31	43	53	AC30-D
Y44-D	1/4, 3/8, 1/2	1/8	39	51	71	AC40-D
Y54-D	1/4, 3/8, 1/2, 3/4	1/8	47	54	71	AC40-06-D
Y64-D	3/8, 1/2, 3/4	1/8	62	64	90	AC50-D, AC60-D

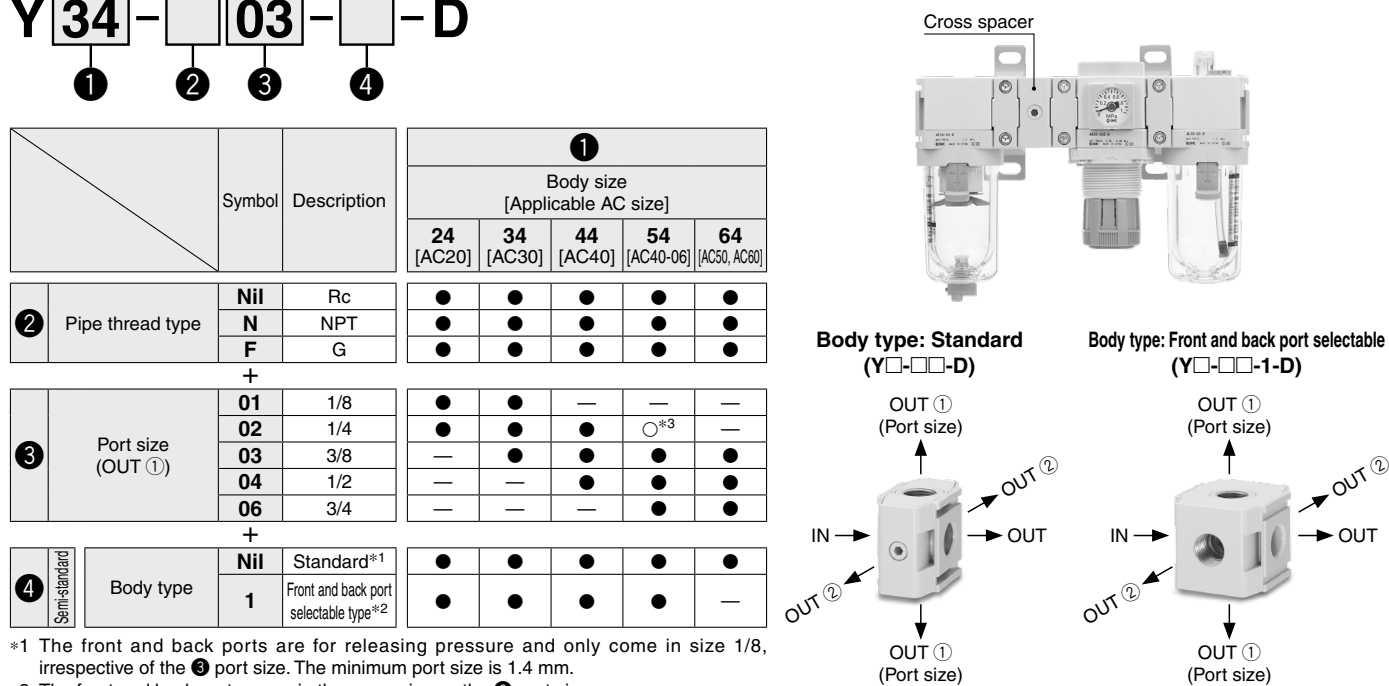
*1 A resin plug is attached to the P2 port and shipped together with the product.

Body type: Front and back port selectable



Model	P1, P2*1	A	B	C	Applicable AC size
Y24-1-D	1/8, 1/4	40	35	42	AC20-D
Y34-1-D	1/8, 1/4, 3/8	49	43	53	AC30-D
Y44-1-D	1/4, 3/8, 1/2	60	51	71	AC40-D
Y54-1-D	3/8, 1/2, 3/4	72	54	71	AC40-06-D

*1 Two hexagon socket head plugs the same size as the P1 and P2 ports are shipped together with the product.



	Port size
IN	—
OUT	—
OUT ①	③
OUT ②	1/8

	Port size
IN	—
OUT	—
OUT ①	③
OUT ②	③

Caution on Mounting

- Pipe threads are not provided on the face which connects with the other components. For use, a separate spacer (or spacer with bracket) is required.
- The backflow of oil may occur when a spacer is used on the inlet side of the lubricator. Attach a check valve between the lubricator and the product to prevent backflow.

Semi-standard Symbol Selection

- Select one each for **a** to **d**.
- When more than one specification is required, indicate in alphanumeric order.
Example) IS10M-30-6LP-D

Pressure Switch

- A compact, integrated pressure switch can be easily installed to facilitate the pressure detection of the line.

IS10M-30- -D

① ②

		Symbol	Description	①					
				Body size [Applicable AC size]					
				20 [AC20]	30 [AC30]	40 [AC40]	50 [AC40-06]	60 [AC50, AC60]	
②	a	Body type	Nil	Standard	●	●	●	●	●
			1	Slim	●	●	●	●	●
			+						
	b	Set pressure range	Nil	0.1 to 0.4 MPa	●	●	●	●	●
			6*1	0.1 to 0.6 MPa	●	●	●	●	●
			+						
	c	Lead wire length	Nil	0.5 m	●	●	●	●	●
			L	3 m	●	●	●	●	●
			Z	5 m	●	●	●	●	●
			+						
	d	Pressure unit of the scale plate	Nil	MPa	●	●	●	●	●
			P*2	MPa/psi dual scale	●	●	●	●	●

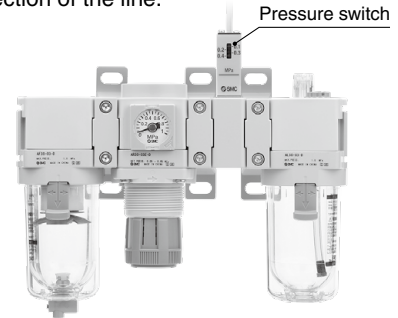
*1 The set pressure range for the 6P is 0.2 to 0.6 MPa (30 to 90 psi).

*2 This product is for overseas use only according to the New Measurement Act.
(The SI unit type is provided for use in Japan.)

Standard Specifications

Fluid	Air
Ambient and fluid temperatures	-5 to 60°C (No freezing)
Proof pressure	1.0 MPa
Max. operating pressure	0.7 MPa
Set pressure range (when OFF)	0.1 to 0.4 MPa
Hysteresis	0.08 MPa or less
Contact point configuration	1a

Symbol



Body type: Standard
(IS10M-□□-D)



Body type: Slim
(IS10M-□□-1-D)



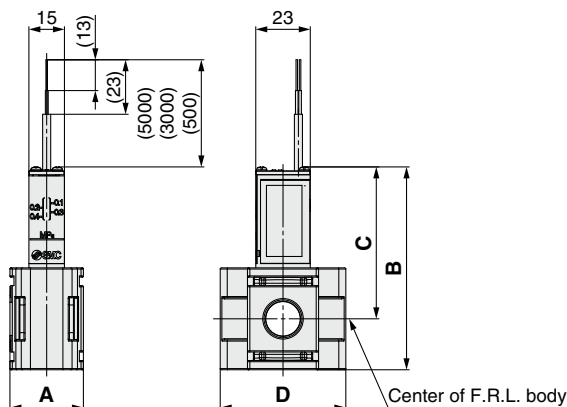
Switch Characteristics

Max. contact point capacity	2 VA (AC), 2 W (DC)
Operating voltage: AC, DC	100 V or less
Max. operating current	24 VAC, DC or less: 50 mA 48 VAC, DC or less: 40 mA 100 VAC, DC or less: 20 mA

* For detailed specifications of the IS10 series, refer to the IS10 series section on the SMC website: <https://www.smcworld.com>

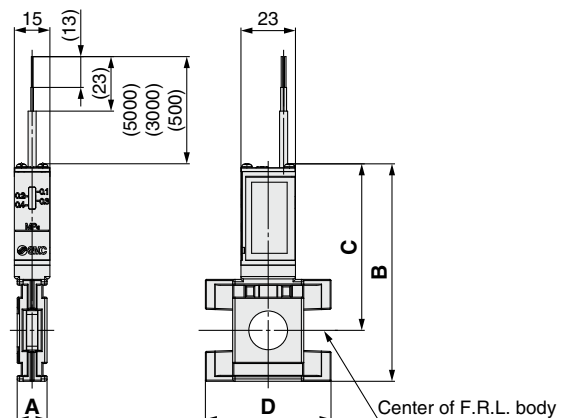
Dimensions

Body type: Standard



Model	A	B	C	D	Applicable AC size
IS10M-20-D	28	77.6	60.1	42	AC20-D
IS10M-30-D	31	85.6	64.1	53	AC30-D
IS10M-40-D	39	93.6	68.1	71	AC40-D
IS10M-50-D	47	96.6	69.6	71	AC40-06-D
IS10M-60-D	62	106.6	74.6	90	AC50-D, AC60-D

Body type: Slim



Model	A	B	C	D	Applicable AC size
IS10M-20-1-D	10.6	83.8	66.3	42	AC20-D
IS10M-30-1-D	12.6	91.8	70.3	53	AC30-D
IS10M-40-1-D	14.6	97.8	72.3	58.6	AC40-D
IS10M-50-1-D	16.6	100.8	73.8	59.3	AC40-06-D
IS10M-60-1-D	22	110.8	78.8	90	AC50-D, AC60-D

Caution on Mounting

- Pipe threads are not provided on the face which connects with the other components. For use, a separate spacer (or spacer with bracket) is required.
- When the slim body type is to be mounted to a wall using a spacer with bracket, use a spacer on only one side.

AC-D Series

Pressure Switch with T-Spacer

- A compact, integrated pressure switch can be easily installed to facilitate the pressure detection of the line.

IS10T-**30**-**03**-**D**

① ② ③ ④

	Symbol	Description	① Body size [Applicable AC size]				
			20 [AC20]	30 [AC30]	40 [AC40]	50 [AC40-06]	60 [AC50, AC60]
② Pipe thread type	Nil	Rc	●	●	●	●	●
	N	NPT	●	●	●	●	●
	F	G	●	●	●	●	●
③ Port size (OUT①)	01	1/8	●	●	—	—	—
	02	1/4	●	●	●	●	—
	03	3/8	—	—	●	●	●
	04	1/2	—	—	●	●	●
	06	3/4	—	—	—	●	●
④ Semi-standard	a Set pressure range	Nil	0.1 to 0.4 MPa	●	●	●	●
		6*1	0.1 to 0.6 MPa	●	●	●	●
	b Lead wire length	Nil	0.5 m	●	●	●	●
		L	3 m	●	●	●	●
		Z	5 m	●	●	●	●
	c Pressure unit of the scale plate	Nil	MPa	●	●	●	●
		P*2	MPa/psi dual scale	●	●	●	●
				●	●	●	●
				●	●	●	●
				●	●	●	●

*1 The set pressure range for the 6P is 0.2 to 0.6 MPa (30 to 90 psi).

*2 This product is for overseas use only according to the New Measurement Act.
(The SI unit type is provided for use in Japan.)

Standard Specifications

Fluid	Air
Ambient and fluid temperatures	-5 to 60°C (No freezing)
Proof pressure	1.0 MPa
Max. operating pressure	0.7 MPa
Set pressure range (when OFF)	0.1 to 0.4 MPa
Hysteresis	0.08 MPa or less
Contact point configuration	1a

Switch Characteristics

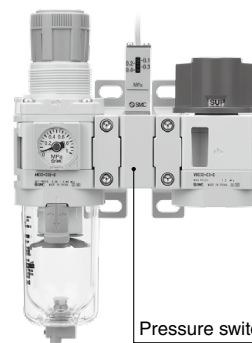
Max. contact point capacity	2 VA (AC), 2 W (DC)
Operating voltage: AC, DC	100 V or less
Max. operating current	24 VAC, DC or less: 50 mA 48 VAC, DC or less: 40 mA 100 VAC, DC or less: 20 mA

* For detailed specifications of the IS10 series, refer to the IS10 series section on the SMC website: <https://www.smcworld.com>

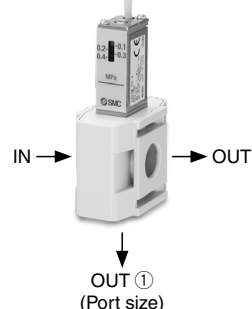
Semi-standard Symbol Selection

- Select one each for a to c.
- When more than one specification is required, indicate in alphanumeric order.
Example) IS10T-30-N03-6LP-D

Symbol

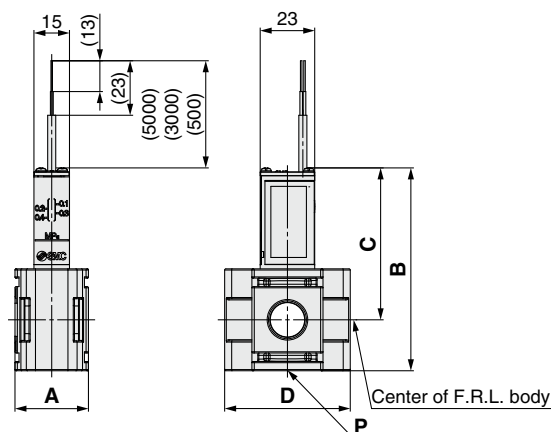


Pressure switch with T-spacer



	Port size
IN	—
OUT	—
OUT ①	③

Dimensions



Model	P	A	B	C	D	Applicable AC size
IS10T-20-D	1/8, 1/4	28	77.6	60.1	42	AC20-D
IS10T-30-D	1/8, 1/4, 3/8	31	85.6	64.1	53	AC30-D
IS10T-40-D	1/4, 3/8, 1/2	39	93.6	68.1	71	AC40-D
IS10T-50-D	1/4, 3/8, 1/2, 3/4	47	96.6	69.6	71	AC40-06-D
IS10T-60-D	3/8, 1/2, 3/4	62	106.6	74.6	90	AC50-D, AC60-D

Caution on Mounting

- Pipe threads are not provided on the face which connects with the other components. For use, a separate spacer (or spacer with bracket) is required.
- The backflow of oil may occur when a spacer is used on the inlet side of the lubricator. Attach a check valve between the lubricator and the product to prevent backflow.

Semi-standard Symbol Selection

- Select one each for a to d.
- When more than one specification is required, indicate in alphanumeric order.
Example) IS10L-30-N03-6LP-D

Pressure Switch with L-Shaped Piping Adapter

- A compact, integrated pressure switch can be easily installed to facilitate the pressure detection of the line.
- Using on the inlet side or the outlet side of F.R.L. units allows the component to be installed/removed without removing the piping.

IS10L-30-03-D

① ② ③ ④

		Symbol	Description	① Body size [Applicable AC size]					
				20	30	40	50	60	
				[AC20]	[AC30]	[AC40]	[AC40-06]	[AC50, AC60]	
②	Pipe thread type	Nil	Rc	●	●	●	●	●	
		N	NPT	●	●	●	●	●	
		F	G	●	●	●	●	●	
+									
③	Port size (OUT)	01	1/8	●	●	—	—	—	
		02	1/4	●	●	●	—	—	
		03	3/8	—	●	●	—	—	
		04	1/2	—	—	●	●	●	
		06	3/4	—	—	—	●	●	
		10	1	—	—	—	—	●	
+									
④ Semi-standard	a	Set pressure range	Nil	0.1 to 0.4 MPa	●	●	●	●	●
			6*1	0.1 to 0.6 MPa	●	●	●	●	●
	+								
	b	Lead wire length	Nil	0.5 m	●	●	●	●	●
			L	3 m	●	●	●	●	●
		Z	5 m	●	●	●	●	●	
	+								
	c	Pressure unit of the scale plate	Nil	MPa	●	●	●	●	●
			P*2	MPa/psi dual scale	●	●	●	●	●
	+								
	d	Mounting position	Nil	Right	●	●	●	●	●
			R	Left	●	●	●	●	●

*1 The set pressure range for the 6P is 0.2 to 0.6 MPa (30 to 90 psi).

*2 This product is for overseas use only according to the New Measurement Act.
(The SI unit type is provided for use in Japan.)

Standard Specifications

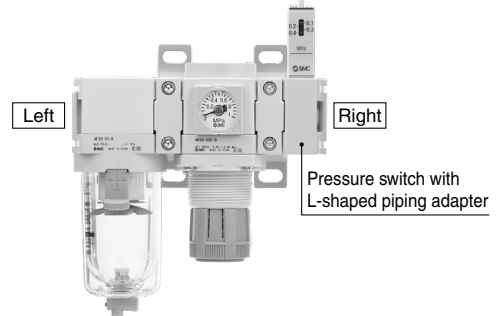
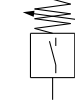
Fluid	Air
Ambient and fluid temperatures	-5 to 60°C (No freezing)
Proof pressure	1.0 MPa
Max. operating pressure	0.7 MPa
Set pressure range (when OFF)	0.1 to 0.4 MPa
Hysteresis	0.08 MPa or less
Contact point configuration	1a

Switch Characteristics

Max. contact point capacity	2 VA (AC), 2 W (DC)
Operating voltage: AC, DC	100 V or less
Max. operating current	24 VAC, DC or less: 50 mA 48 VAC, DC or less: 40 mA 100 VAC, DC or less: 20 mA

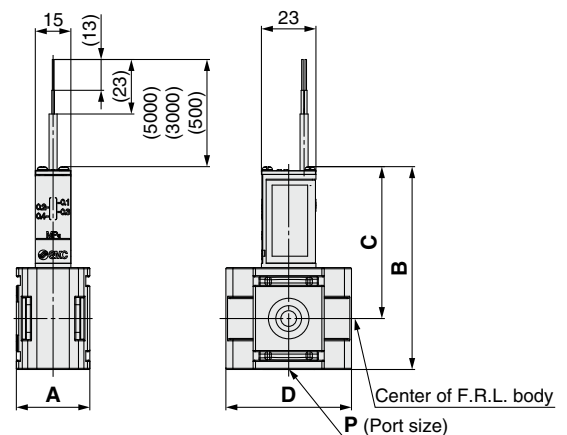
* For detailed specifications of the IS10 series, refer to the IS10 series section on the SMC website: <https://www.smcworld.com>

Symbol



	Port size
IN	—
OUT	③

Dimensions



Model	P	A	B	C	D	Applicable AC size
IS10L-20-D	1/8, 1/4	28	77.6	60.1	42	AC20-D
IS10L-30-D	1/8, 1/4, 3/8	31	85.6	64.1	53	AC30-D
IS10L-40-D	1/4, 3/8, 1/2	39	93.6	68.1	71	AC40-D
IS10L-50-D	1/2, 3/4	47	96.6	69.6	71	AC40-06-D
IS10L-60-D	1/2, 3/4, 1	62	106.6	74.6	90	AC50-D, AC60-D

Caution on Mounting

Pipe threads are not provided on the face which connects with the other components. For use, a separate spacer (or spacer with bracket) is required.

AC-D Series

Semi-standard Symbol Selection

- Select one each for a to d.
- When more than one specification is required, indicate in alphanumeric order.
Example) IS10E-30-N03-6LP-D

Pressure Switch with Piping Adapter

- A compact, integrated pressure switch can be easily installed to facilitate the pressure detection of the line.

IS10E-**30**-**03**-**D**

① ② ③ ④

		Symbol	Description	① Body size [Applicable AC size]				
				20 [AC20]	30 [AC30]	40 [AC40]	50 [AC40-06]	60 [AC50, AC60]
②	Pipe thread type	Nil	Rc	●	●	●	●	●
		N	NPT	●	●	●	●	●
		F	G	●	●	●	●	●
③	Port size (OUT)	01	1/8	●	—	—	—	—
		02	1/4	●	●	—	—	—
		03	3/8	●	●	●	—	—
		04	1/2	—	●	●	—	—
		06	3/4	—	—	●	●	●
		10	1	—	—	—	●	●
		12	1 1/4	—	—	—	—	●
		14	1 1/2	—	—	—	—	●
④	a	Set pressure range	Nil	0.1 to 0.4 MPa	●	●	●	●
			6*1	0.1 to 0.6 MPa	●	●	●	●
	b	Lead wire length	Nil	0.5 m	●	●	●	●
			L	3 m	●	●	●	●
			Z	5 m	●	●	●	●
	c	Pressure unit of the scale plate	Nil	MPa	●	●	●	●
			P*2	MPa/psi dual scale	●	●	●	●
	d	Mounting position	Nil	Right	●	●	●	●
			R	Left	●	●	●	●

*1 The set pressure range for the 6P is 0.2 to 0.6 MPa (30 to 90 psi).

*2 This product is for overseas use only according to the New Measurement Act.
(The SI unit type is provided for use in Japan.)

Standard Specifications

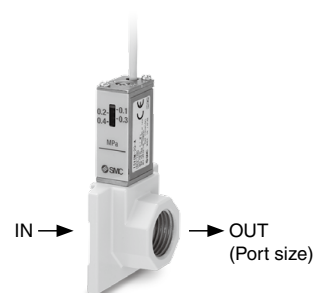
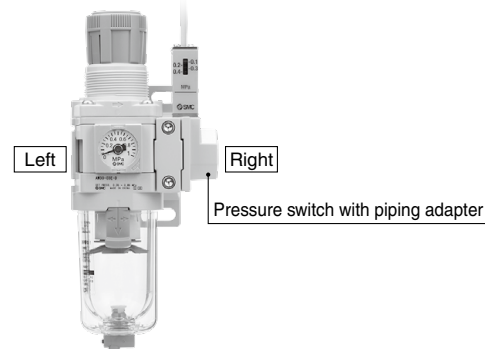
Fluid	Air
Ambient and fluid temperatures	-5 to 60°C (No freezing)
Proof pressure	1.0 MPa
Max. operating pressure	0.7 MPa
Set pressure range (when OFF)	0.1 to 0.4 MPa
Hysteresis	0.08 MPa or less
Contact point configuration	1a

Switch Characteristics

Max. contact point capacity	2 VA (AC), 2 W (DC)
Operating voltage: AC, DC	100 V or less
Max. operating current	24 VAC, DC or less: 50 mA 48 VAC, DC or less: 40 mA 100 VAC, DC or less: 20 mA

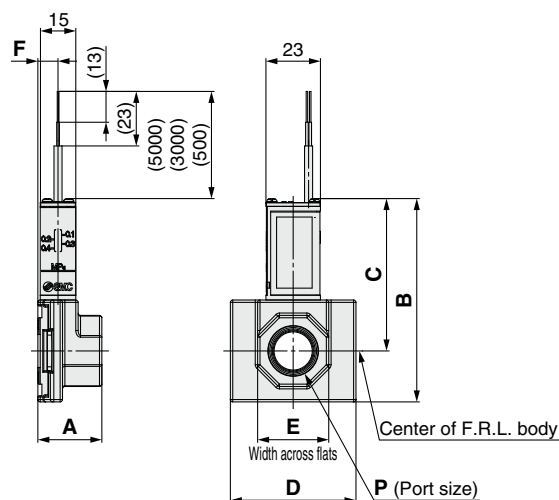
* For detailed specifications of the IS10 series, refer to the IS10 series section on the SMC website: <https://www.smcworld.com>

Symbol



	Port size
IN	—
OUT	③

Dimensions



Model	P	A	B	C	D	E	F	Applicable AC size
IS10E-20-D	1/8, 1/4, 3/8	24	77.8	60.3	42	24		AC20-D
IS10E-30-D	1/4, 3/8, 1/2	27	85.8	64.3	53	30		AC30-D
IS10E-40-D	1/4, 3/8, 1/2, 3/4	30	93.8	68.3	71	36	8.5	AC40-D
IS10E-50-D	3/4	31	96.8	69.8	71	36		AC40-06-D
	1					46		
IS10E-60-D	3/4, 1	39	106.8	74.8	90	46	9.5	AC50-D, AC60-D
	1 1/4, 1 1/2	42				63		

Caution on Mounting

Pipe threads are not provided on the face which connects with the other components. For use, a separate spacer (or spacer with bracket) is required.

Right Angle Adapter

- Allows for modular connection with the product rotated 90 degrees

E 310 T-D

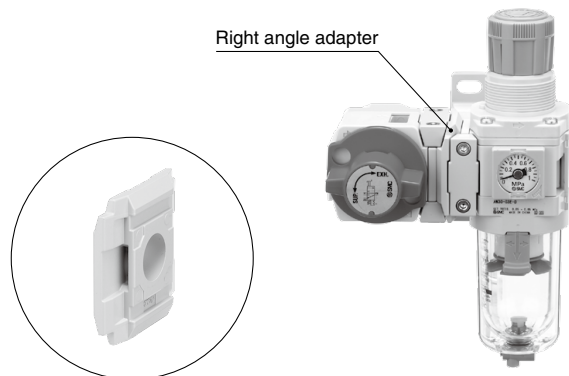
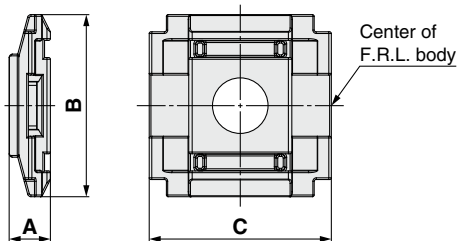
- Body size
- Right angle adapter

210
310
410

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

Dimensions



Model	A	B	C	Applicable AC size
E210T-D	9	42	42	AC20-D
E310T-D	12	53	53	AC30-D
E410T-D	15	71	71	AC40-D

Caution on Mounting

- Pipe threads are not provided on the face which connects with the other components. For use, a separate spacer (or spacer with bracket) is required.
- When mounting to a wall using a spacer with bracket, use a spacer on only one side.

Reducing Adapter

- Allows for modular connection with products 1 body size larger or smaller

E 310 R-D

- Reducing adapter

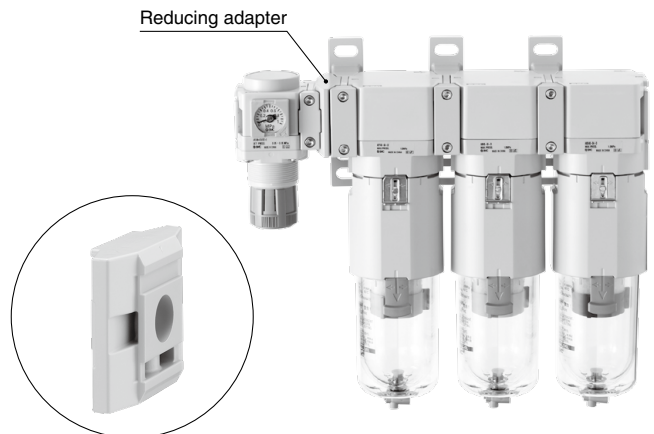
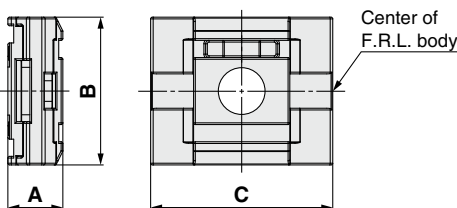
- Body size

310	For connecting sizes 20 and 30
410	For connecting sizes 30 and 40

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

Dimensions



Model	A	B	C	Applicable AC size
E310R-D	16	43	53	AC20-D, AC30-D
E410R-D	20	51	71	AC30-D, AC40-D

Caution on Mounting

- Pipe threads are not provided on the face which connects with the other components. For use, a separate spacer (or spacer with bracket) is required.
- When mounting to a wall using a spacer with bracket, use a spacer on only one side.

AC-D Series

Semi-standard Symbol Selection

- Select one each for **a** and **b**.
- When more than one specification is required, indicate in alphabetical order.
Example) Y34M-N03E-AZ-D

Cross Adapter: 1/4, 3/8, 1/2

- Allows for devices to be connected on the top, bottom, left, and right with a spacer

Y **34** M - **03** B - **03** - D

① ② ③ ④ ⑤

		Symbol	Description	①		
				Body size [Applicable AC size]		
②	Pipe thread type	Nil	Rc	●	●	●
		N	NPT	●	●	●
		F	G	●	●	●
③	Port size	+				
		02	1/4	●	—	—
		03	3/8	—	●	—
④	Option	+				
		04	1/2	—	—	●
⑤	Pressure gauge	B	Without pressure gauge (Double-sided blanking plate)	●	●	●
		E	Square embedded type pressure gauge (with limit indicator)	●	●	●
		+				
⑤	Semi-standard	a	Top/bottom spacer mounting direction*1			
		Nil	Front to back mounting	●	●	●
		A	Left to right mounting	●	●	●
⑤	Unit	+				
		Nil	Pressure gauge in SI units: MPa	●	●	●
		Z*2	Pressure gauge: MPa/psi dual scale	○*3	○*3	○*3

*1 It is possible to change the mounting direction of the spacer (From front to back to left to right). For details on how to do so, refer to the operation manual.

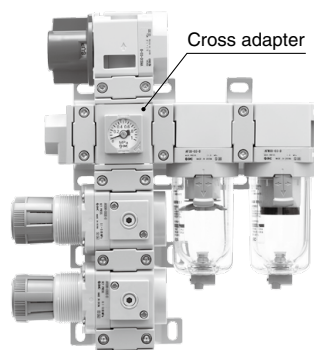
*2 For the pipe thread type: NPT. This product is for overseas use only according to the New Measurement Act. (The SI unit type is provided for use in Japan.)

*3 ○: For the pipe thread type: NPT only

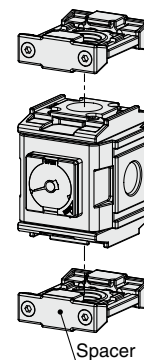
Standard Specifications

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

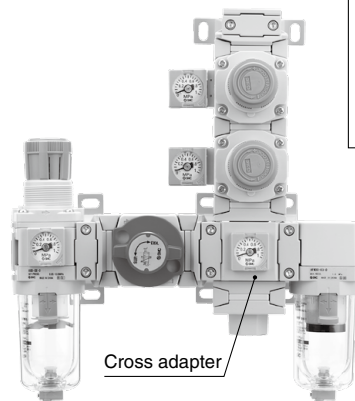
Top/bottom spacer mounting direction:
Front to back mounting (Nil)



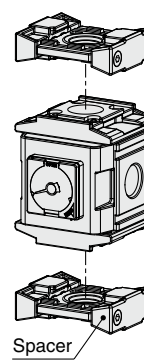
Connection example



Top/bottom spacer mounting direction:
Left to right mounting (A)



Connection example

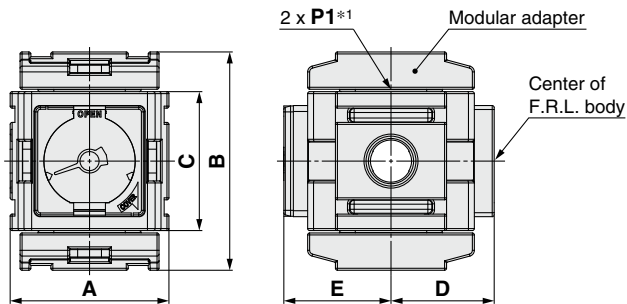


Caution on Mounting

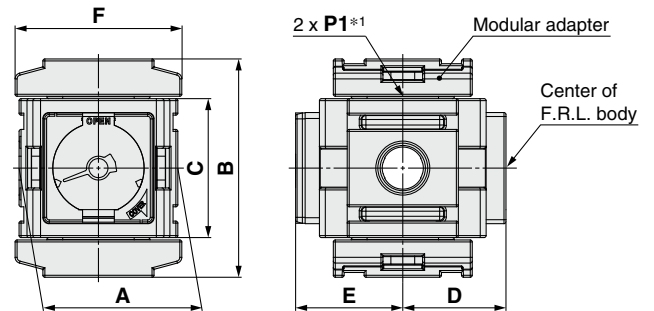
- Pipe threads are not provided on the face which connects with the other components. For use, a separate spacer (or spacer with bracket) is required.
- The backflow of oil may occur when a spacer is used on the inlet side of the lubricator. Attach a check valve between the lubricator and the product to prevent backflow.

Dimensions

Top/bottom spacer mounting direction:
Front to back mounting



Top/bottom spacer mounting direction:
Left to right mounting

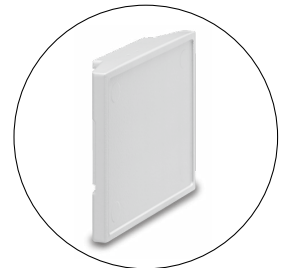
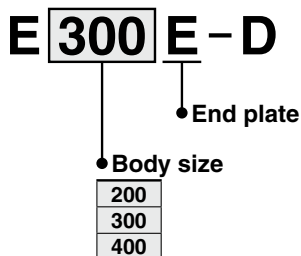


Model	Standard specifications					Optional specifications		Semi-standard specifications	Applicable AC size
						Without pressure gauge	Square embedded type pressure gauge	Spacer Left to right mounting	
	P1*1	A	B	C	D	E	E	F	
Y24M-D	1/4	40	55	35	26	26	27	42	AC20-D
Y34M-D	3/8	53	63	43	31.5	31.5	32.5	53	AC30-D
Y44M-D	1/2	70	77	51	40.5	40.5	41.5	71	AC40-D

*1 By removing the modular adapter, the female threads on the top and bottom surfaces can be used as piping ports for air release.

End Plate

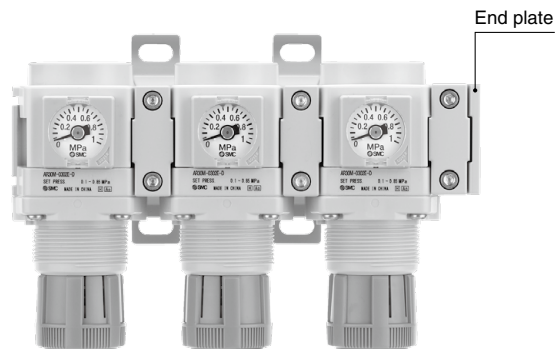
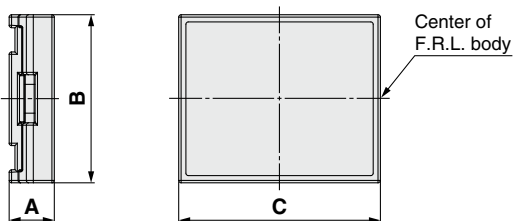
· For blocking the unused piping ports on sides without a modular connection



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

Dimensions



Model	A	B	C	Applicable AC size
E200E-D	9.4	35	42	AC20-D
E300E-D	9.4	43	53	AC30-D
E400E-D	12.4	51	71	AC40-D

Caution on Mounting

· Pipe threads are not provided on the face which connects with the other components. For use, a separate spacer (or spacer with bracket) is required.