

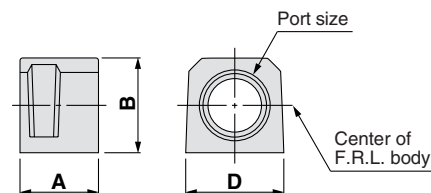
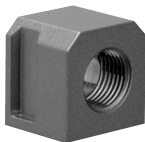
F.R.L. Unit *Series AC*

Attachment Specifications

Piping Adapter (E)

M5 x 0.8, 1/8, 1/4, 3/8, 1/2, 3/4, 1

A piping adapter allows installation/removal of the component without removing the piping and thus makes maintenance easier.



Model ^{Note)}	Port size	A	B	D	Applicable model
E100-M5	M5 x 0.8	10	14	14	AC10□, AW10, AF10, AR10, AL10
E200-□01	1/8	30	23.5	28	AC20□
E200-□02	1/4				AF20, AR20□, AW20□
E200-□03	3/8				AL20, AFM20, AFD20, AWM20, AWD20
E300-□02	1/4	32	30	30	AC25□, AC30□
E300-□03	3/8				AF30, AR30□, AW30□
E300-□04	1/2				AL30, AFM30, AFD30, AWM30, AWD30
E400-□02	1/4	32	36	36	AC40□
E400-□03	3/8				AF40, AR40□, AW40□
E400-□04	1/2				AL40, AFM40, AFD40
E400-□06	3/4				AWM40, AWD40
E500-□06	3/4	32	40	44	AC40□-06, AF40-06, AR40□-06, AW40□-06
E600-□06	3/4	35	48	53	AL40-06, AFM40-06, AFD40-06
E600-□10	1				AC50, AC55, AC60, AC50B, AC55B, AC60B
					AF50, AR50□, AL50, AF60, AR60□, AL60

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

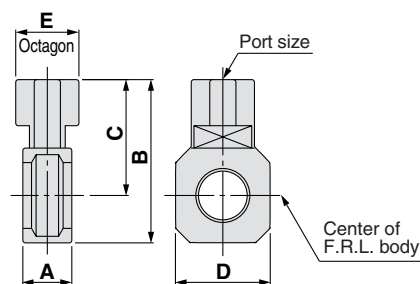
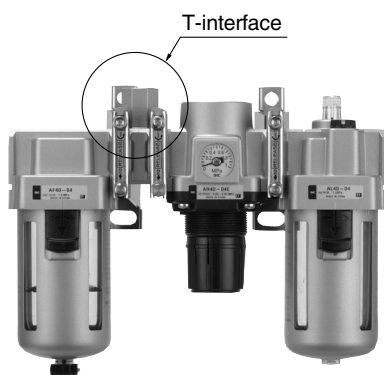
• Separate interfaces are required for modular unit.

* Factory mounting of a piping adapter on the AC models is available as a special order.

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.



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

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

• Separate interfaces are required for modular unit.

* Refer to the attachment table on Front matter 2 for standard port sizes when using with AC.

Caution in Mounting

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

Pressure Switch (S)

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



Specifications

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

Switch characteristics

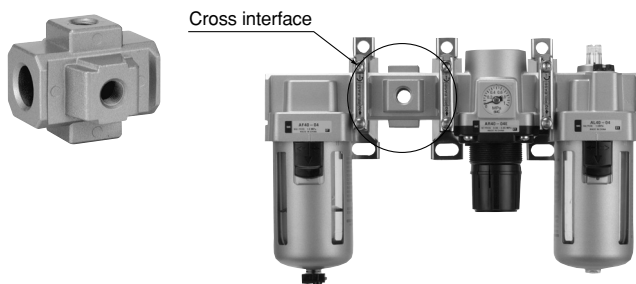
Contact point configuration	1a
Maximum contact point capacity	2VA(AC), 2W(DC)
Operating voltage: AC, DC	100V or less
Maximum operating current	AC, DC12V to 24V: 50mA AC, DC48V: 40mA AC, DC100V: 20mA

Cross Interface (C)

M5 x 0.8, 1/8, 1/4, 3/8, 1/2

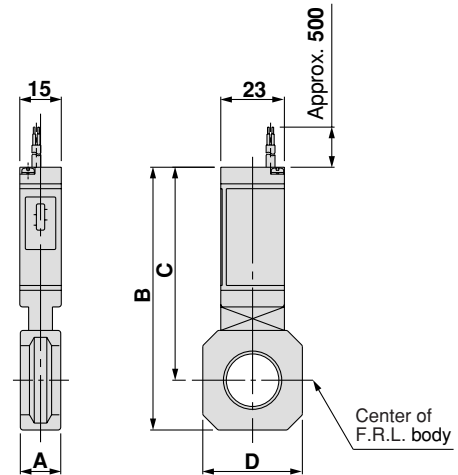
Pipings are possible in all 4 directions.

IN/OUT ports are not machined for threads. Contact SMC if threaded (machined) ports are required.



Cautions in Mounting

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



Model	A	B	C	D	Applicable model
IS1000M-20	11	76	66	28	AC20□
IS1000M-30	13	86	72	30	AC25□, AC30□
IS1000M-40	15	95	77	36	AC40□
IS1000M-50	17	99	79	44	AC40□-06
IS1000M-60	22	92.5	68.5	53	AC50□, AC55□, AC60□

Note) Separate interfaces are required for modular unit.

How to Order

IS1000M-30 — **□**

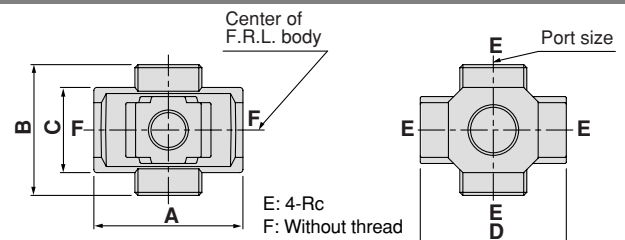
Pressure switch
Body size

20	For AC20
30	For AC25, AC30
40	For AC40-02 to 04
50	For AC40-06
60	For AC50, AC55, AC60

Accessories

X201	Lead wire length: 3m
X202	Regulating pressure range: 0.1 to 0.6MPa
X207	MPa/PSI Dual scale
X215	Lead wire length: 3m; Regulating pressure range: 0.1 to 0.6MPa

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



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					

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

• If threaded ports are required, they are available as a special order. Contact SMC.

Series AC Spacers and Brackets Accessories

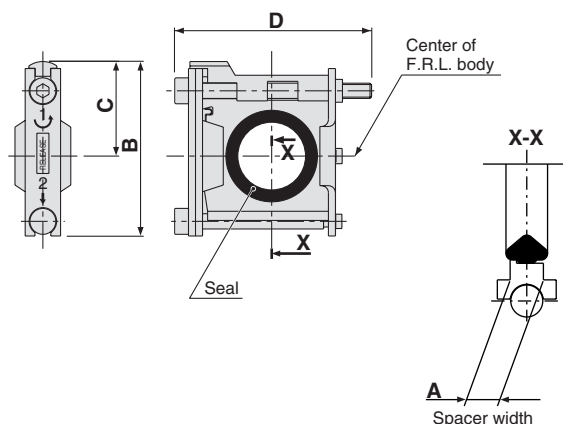
Spacer (X)



Y200



Y400



Model	A	B	C	D	Applicable model
Y100	6	27	15	33	AC10, AC10A, AC10B
Y200	3	35.5	18.5	48	AC20□
Y300	4	47	26	59	AC25□, AC30□
Y400	5	57	31	65	AC40□
Y500	5	61	33	70	AC40□-06
Y600	6	75.5	41	86	AC50, AC55, AC60 AC50B, AC55B, AC60B

Replacement parts

Description	Material	Part no.					
		Y100	Y200	Y300	Y400	Y500	Y600
Seal	HNBR ^{Note 2)}	Y100P-060AS ^{Note 1)}	Y200P-060S	Y300P-060S	Y400P-060S	Y500P-060S	Y600P-060S

Note 1) Y-100 comes with 2 O-rings.

Note 2) NBR seal is used for Y100 spacer because of no direct contact with fluid.

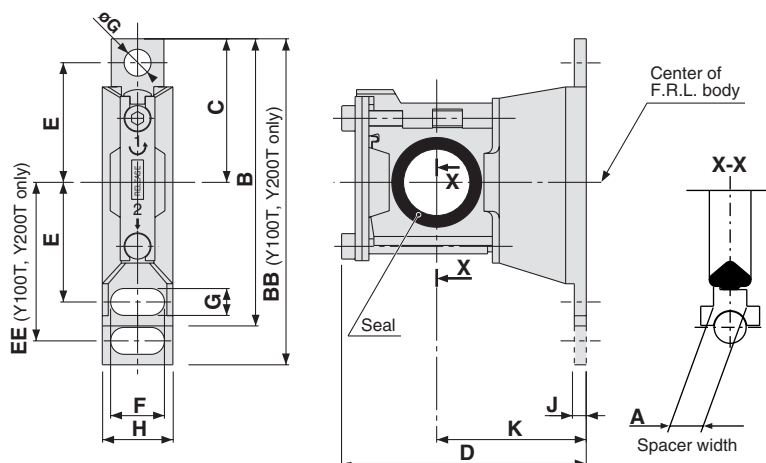
Spacer with Bracket (Z)



Y200T



Y400T



Model	A	B	BB	C	D	E	EE	F	G	øG	H	J	K	Applicable model
Y100T	6	—	56	24.5	40.5	20	27	6.8	4.5	4.5	14	2.8	25	AC10□
Y200T	3	—	67	29	53	24	33	12	5.5	5.5	19	3.2	30	AC20□
Y300T	4	82	—	41	68	35	—	14	7	7	21	4	41	AC25□, AC30□
Y400T	5	96	—	48	81.5	40	—	18	9	9	26	4	50	AC40□
Y500T	5	96	—	48	86	40	—	18	9	9	27	4.6	50	AC40□-06
Y600T	6	120	—	60	112	50	—	20	11	11	31	6.4	70	AC50, AC55, AC60, AC50B, AC55B, AC60B

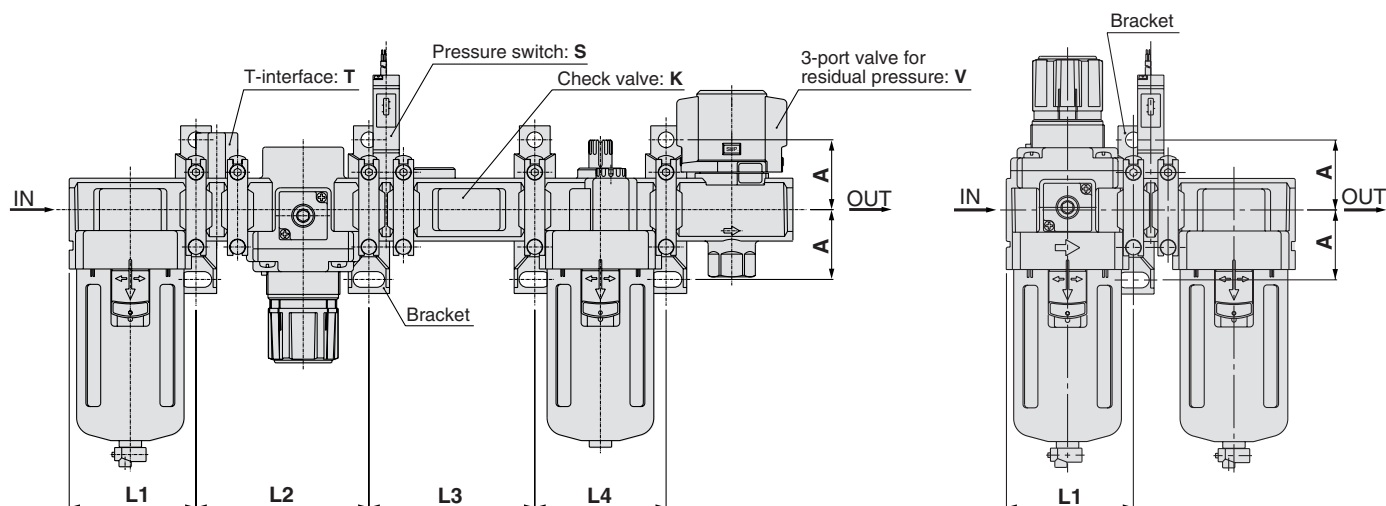
Replacement parts

Description	Material	Part no.					
		Y100T	Y200T	Y300T	Y400T	Y500T	Y600T
Seal	HNBR ^{Note 2)}	Y100P-060AS ^{Note 1)}	Y200P-060S	Y300P-060S	Y400P-060S	Y500P-060S	Y600P-060S

Note 1) Y-100T comes with 2 O-rings.

Note 2) NBR seal is used for Y100T spacer because of no direct contact with fluid.

Mounting Position for Spacer with Bracket



Attachment Model	K			S			T			V			KS			KT			KV				KST		
	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	L4	L1	L2	L3
AC10	—	—	—	—	—	—	28	48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
AC20	41.5	43	43	41.5	43	41.5	61	41.5	43	43	41.5	43	57	41.5	61	43	41.5	43	43	43	43	41.5	61	57	—
AC25	55	57	57	55	57	55	76	55	57	57	55	57	74	55	76	57	55	57	57	57	57	55	76	74	—
AC30	55	57	57	55	57	55	76	55	57	57	55	57	74	55	76	57	55	57	57	57	57	55	76	74	—
AC40	72.5	75	75	72.5	75	72.5	99	72.5	75	75	72.5	75	95	72.5	99	75	72.5	75	75	75	75	72.5	99	95	—
AC40-06	—	—	—	77.5	80	77.5	104	77.5	80	80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
AC50	—	—	—	93	96	93	124	93	96	96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
AC55	—	—	—	98	96	98	124	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
AC60	—	—	—	98	101	98	129	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Attachment Model	KSV				KTV				KSTV				ST		SV			STV			TV			
	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L1	L2	L3	L1	L2	L3	L1	L2	L3	
AC10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
AC20	41.5	43	57	43	41.5	61	43	43	41.5	61	57	43	41.5	61	41.5	43	57	41.5	61	57	41.5	61	43	
AC25	55	57	74	57	55	76	57	57	55	76	74	57	55	76	55	57	74	55	76	74	55	76	57	
AC30	55	57	74	57	55	76	57	57	55	76	74	57	55	76	55	57	74	55	76	74	55	76	57	
AC40	72.5	75	95	75	72.5	99	75	75	72.5	99	95	75	72.5	99	72.5	75	95	72.5	99	95	72.5	99	75	
AC40-06	—	—	—	—	—	—	—	—	—	—	—	—	—	77.5	104	77.5	80	102	77.5	104	102	77.5	104	80
AC50	—	—	—	—	—	—	—	—	—	—	—	—	93	124	93	96	124	93	124	124	93	124	96	
AC55	—	—	—	—	—	—	—	—	—	—	—	—	98	124	—	—	—	—	—	—	—	—	—	
AC60	—	—	—	—	—	—	—	—	—	—	—	—	98	129	—	—	—	—	—	—	—	—	—	

Attachment Model	K		S		V		KS		KV			KSV			SV	
	L1	L2	L1	L2	L1	L2	L1	L2	L1	L2	L3	L1	L2	L3	L1	L2
AC20A	41.5	43	41.5	41.5	43	41.5	57	41.5	43	43	41.5	57	43	41.5	57	—
AC30A	55	57	55	55	57	55	74	55	57	57	55	74	57	55	74	—
AC40A	72.5	75	72.5	72.5	75	72.5	95	72.5	75	75	72.5	95	75	72.5	95	—
AC40A-06	—	—	77.5	77.5	80	—	—	—	—	—	—	—	—	—	77.5	102

Attachment Model	S		T		V		SV		TV	
	L1	L1	L1	L2	L1	L2	L1	L2	L1	L2
AC10B	—	28	—	—	—	—	—	—	—	—
AC20B	41.5	41.5	41.5	43	41.5	57	41.5	61	—	—
AC25B	55	55	55	57	55	74	55	76	—	—
AC30B	55	55	55	57	55	74	55	76	—	—
AC40B	72.5	72.5	72.5	75	72.5	95	72.5	99	—	—
AC40B-06	77.5	77.5	77.5	80	77.5	102	77.5	104	—	—
AC50B	93	93	93	96	93	124	93	124	—	—
AC55B	98	98	—	—	—	—	—	—	—	—
AC60B	98	98	—	—	—	—	—	—	—	—

Attachment Model	S		T		V			SV			TV		
	L1	L2	L1	L2	L1	L2	L3	L1	L2	L3	L1	L2	L3
AC20C	41.5	43	41.5	43	41.5	43	43	41.5	43	57	41.5	43	61
AC25C	55	57	55	57	55	57	57	55	57	74	55	57	76
AC30C	55	57	55	57	55	57	57	55	57	74	55	57	76
AC40C	72.5	75	72.5	75	72.5	75	75	72.5	75	95	72.5	75	99
AC40C-06	77.5	80	77.5	80	77.5	80	80	77.5	80	102	77.5	80	104

Attachment Model	S		V		SV	
	L1	L1	L2	L1	L2	L2
AC20D	41.5	41.5	43	41.5	57	—
AC30D	55	55	57	55	74	—
AC40D	72.5	72.5	75	72.5	95	—
AC40D-06	77.5	77.5	80	77.5	102	—

L1: Dimensions from the end of the IN side to the center of the mounting hole for the first bracket.
L2: Mounting hole pitch between the first and the second bracket.
L3: Mounting hole pitch between the second and the third bracket.
L4: Mounting hole pitch between the third and the fourth bracket.
Refer to dimensions pages for dimension A from the center of the piping and the mounting hole.