

Air Combination Filter Regulator + Lubricator

AC1010 to 4010



AC3010

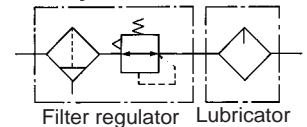


AC2010



AC1010

JIS symbol



Standard Specifications

Model		AC1010	AC2010	AC3010	AC4010	AC4010-06
Combination equipment	Filter regulator	AW1000	AW2000	AW3000	AW4000	AW4000-06
	Lubricator	AL1000	AL2000	AL3000	AL4000	AL4000-06
Port size		M5	1/8 1/4	1/4 3/8	1/4 3/8 1/2	3/4
Gauge port size (Rc(PT))		1/16	1/8	1/8	1/4	1/4
Fluid		Air				
Proof pressure		1.5MPa				
Max. operating pressure		1.0MPa				
Set pressure range		0.05 to 0.7 MPa	0.05 to 0.85 MPa			
Flow (l/min(ANR)) (Port size) ⁽¹⁾		90(M5)	500(1/4)	1700(3/8)	3000(1/2)	3000(3/4)
Ambient and fluid temperature		-5 to 60°C (Non-freezing)				
Filtration		5μm				
Recommended lubricant		Turbin oil class 1 (ISO VG32)				
Bowl material		Polycarbonate				
Construction/Filter regulator		Relieving style				
Weight (kg)		0.22	0.66	0.98	1.93	1.99
Accessory (Standard equipment)	Bowl guard	—	—	●	●	●
	Bracket ⁽²⁾	B110T	B210T	B310T	B410T	B510T

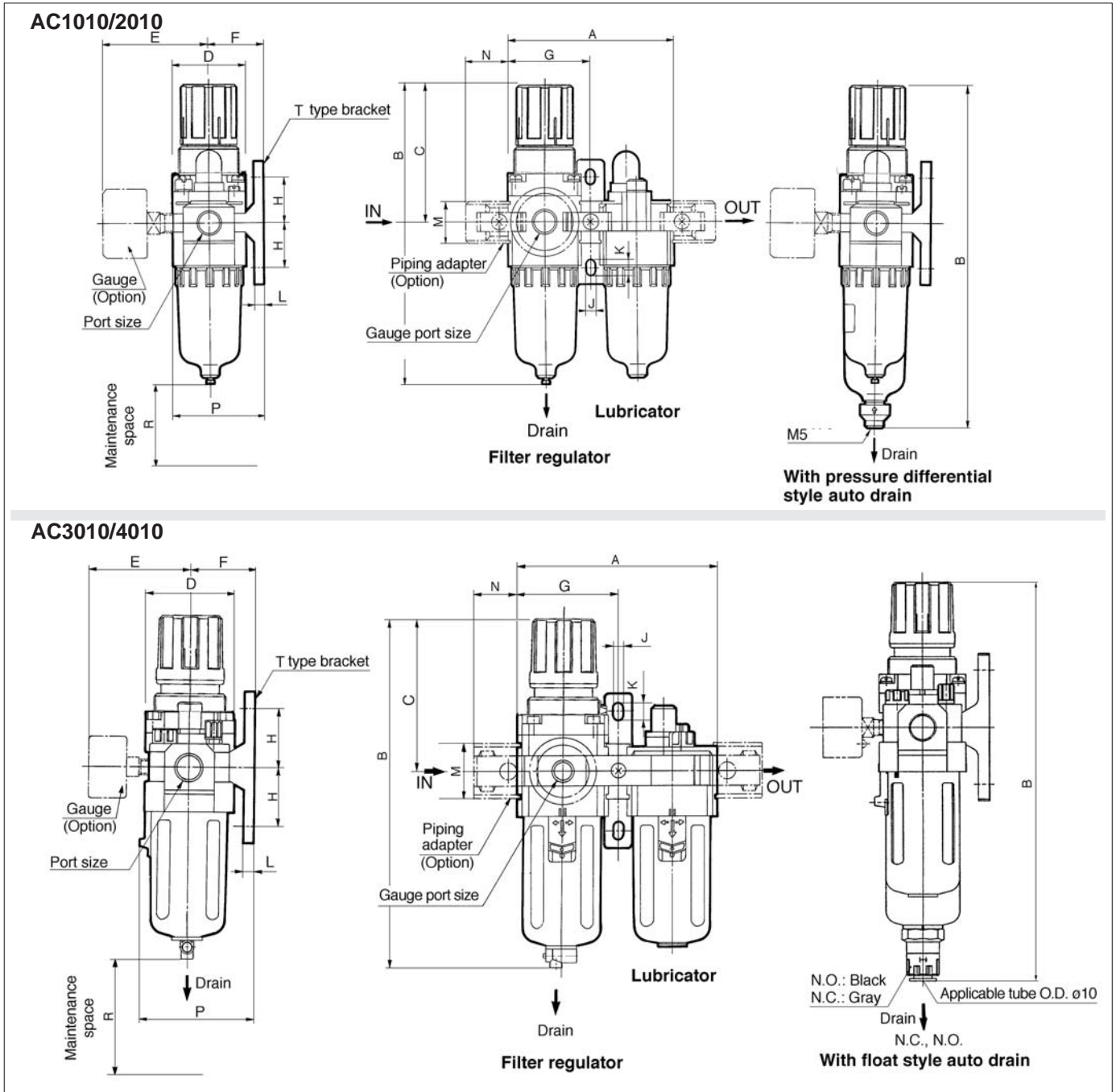
Note 1) Conditions: Supply pressure 0.7MPa, Set pressure 0.5MPa
 Note 2) For a set of 3 pieces or more: L type bracket

Attachments/Accessories (Options)

Description	Model	Part No.				
		For AC1010	For AC2010	For AC3010	For AC4010	For AC4010-06
Piping adapter		E10-M5	E20- ^{□01} _{□02} ^{□03}	E30- ^{□02} _{□03} ^{□04}	E40- ^{□02} _{□03} ^{□04} ^{□06}	E50- ^{□03} _{□04}
Pressure switch with piping adapter		—	IS1000E- ^{2□01} _{2□02} ^{2□03} Y	IS1000E- ^{3□02} _{3□03} ^{3□04} Y	1S1000E- ^{4□02} _{4□03} ^{4□04} ^{4□06} Y	—
Check valve ⁽³⁾		—	AKM2000- ^{□01} _{□02}	AKM3000- ^{□01} _{□02}	AKM4000- ^{□02} _{□03}	—
Residual pressure exhaust 3 port valve		—	VHS2000- ^{□01} _{□02}	VHS3000- ^{□02} _{□03}	VHS4000- ^{□02} _{□03} ^{□04}	—
Cross interface		Y14-M5	Y24- ^{□01} _{□02}	Y34- ^{□01} _{□02}	Y44- ^{□02} _{□03}	Y54- ^{□03} _{□04}
Interface		Y10	Y20	Y30	Y40	Y50
Pressure gauge	1.0MPa	G27-10-R1	G36-10- ^{□01}	G36-10- ^{□01}	G46-10- ^{□02}	G46-10- ^{□02}
	0.2MPa	(G27-10-R1) ⁽⁴⁾	G36-2- ^{□01}	G36-2- ^{□01}	G46-2- ^{□02}	G46-2- ^{□02}
Auto drain float style ⁽⁵⁾	N.O.	—	—	AD43	AD44	AD44
	N.C.	—	—	AD53	AD54	AD54
Auto drain pressure differential style		AD61	AD62	—	—	—

AC1010 to 4010

Dimensions



Model	Port size	Bracket mounting size											With auto drain					
		A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	Float	Press. Diff.
AC1010	M5	58	109.5	50.5	25	26	25	29	20	4.5	7.5	5	17.5	16	38.5	50	—	130
AC2010	1/8, 1/4	90	164.5	78	40	56.8	30	45	24	5.5	8.5	5	22	23	50	80	—	187.5
AC3010	1/4, 3/8	117	207.5	92.5	53	60.8	41	58.5	35	7	11	7	34.2	26*	70.5	80	248.5	—
AC4010	1/4, 3/8, 1/2	154	259	112	70	70.5	50	77	40	9	13	7	42.2	33*	88	105	300	—
AC4010-06	3/4	164	263	114	70	70.5	50	82	40	9	13	7	46.2	36	88	105	304	—

Option**

Model	Barb fitting	With drain guide	Metal bowl	Metal bowl with level gauge
	B	B	B	B
AC1010	—	—	109.5	—
AC2010	—	—	164.5	—
AC3010	216	213.5	220.5	240.5
AC4010	267.5	265	272	292
AC4010-06	272	269.5	276.5	296.5

*For piping adapter AC3010, port size 1/2: 40mm
For AC4010, port size 3/4: 50mm

**For options (with barb fitting, with drain fitting, with drain guide, metal bowl, with level gauge), body length (B dimension) is different.

Air Combination
Air Filter + Regulator

AC1020 to 6020



AC4020



AC3020

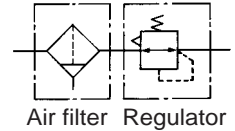


AC2020



AC1020

JIS Symbol



Standard Specifications

Model		AC1020	AC2020	AC2520	AC3020	AC4020	AC4020-06	AC5020	AC5520	AC6020
Combination equipment	Air filter	AF1000	AF2000	AF3000	AF3000	AF4000	AF4000-06	AF5000	AF6000	AF6000
	Regulator	AR1000	AR2000	AR2500	AR3000	AR4000	AR4000-06	AR5000	AR5000	AR6000
Port size		M5	1/8 1/4	1/4 3/8	1/4 3/8	1/4 3/8 1/2	3/4	3/4 1	1	1
Gauge port size		1/16	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4
Fluid		Air								
Proof pressure		1.5 MPa								
Max. operating pressure		1.0 MPa								
Set pressure range		0.05 to 0.7 MPa	0.05 to 0.85 MPa							
Flow (l/min(ANR))(Port size) ⁽¹⁾		100 (M5 X 0.8)	550(1/4)	1500(3/8)	2000(3/8)	4000(1/2)	5000(3/4)	6000(3/4)	7000(1)	8000(1)
Ambient and fluid temperature		-5 to 60°C (Non-freezing)								
Filtration		5μm								
Bowl material		Polycarbonate								
Construction/Regulator		Relieving style								
Weight (kg)		0.21	0.54	0.68	0.82	1.61	1.71	2.52	2.63	2.98
Accessory (Standard equipment)	Bowl guard	—	—	●	●	●	●	●	●	●
	Bracket ⁽²⁾	B110T	B210T	B310T	B310T	B410T	B510T	B610T	B610T	B610T

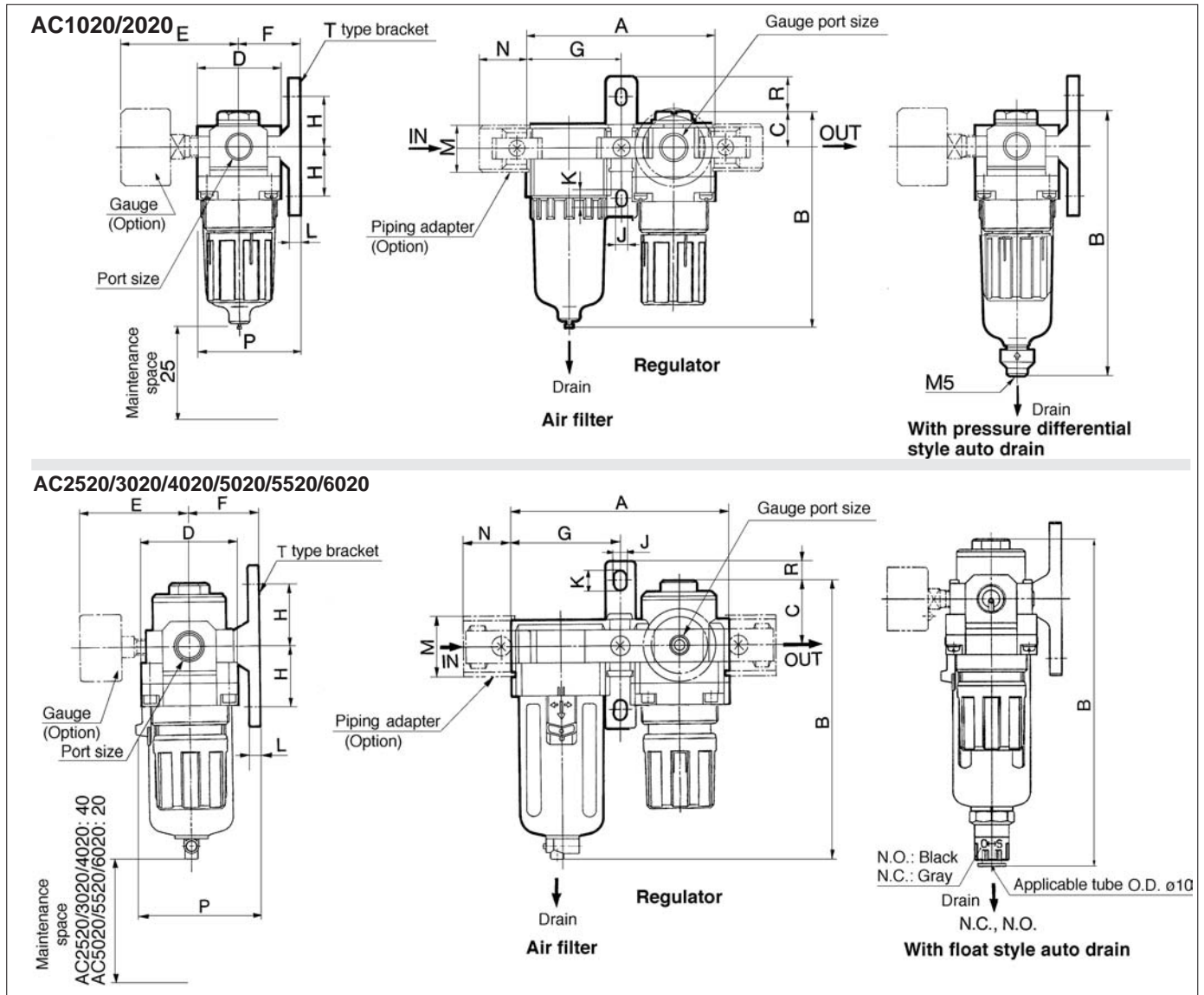
Note 1) Conditions: Supply pressure 0.7MPa, Set pressure 0.5MPa
Note 2) Set of 3 or more than 3 pieces: L type bracket

Attachments/Accessories (Options)

Description	Model	Part No.									
		For AC1020	For AC2020	For AC2520	For AC3020	For AC4020	For AC4020-06	For AC5020	For AC5520	For AC6020	
Piping adapter		E10-M5	E20- ^{□01} _{□02} ^{□03}	E30- ^{□02} _{□03} ^{□04}	E30- ^{□02} _{□03} ^{□04}	E40- ^{□02} _{□03} ^{□04} ^{□06}	E50-□06	E60- ^{□06} _{□10}	E60- ^{□06} _{□10}	E60- ^{□06} _{□10}	
Pressure switch with piping adapter		—	IS1000E- ^{2□01} _{2□02} ^{2□03} Y	IS1000E- ^{3□02} _{3□03} ^{3□04} Y	IS1000E- ^{3□02} _{3□03} ^{3□04} Y	IS1000E- ^{4□02} _{4□03} ^{4□04} ^{4□06} Y	—	—	—	—	
Pressure switch		—	IS1000M-2Y	IS1000M-3Y	IS1000M-3Y	IS1000M-4Y	IS1000M-5Y	IS1000M-6Y	IS1000M-6Y	IS1000M-6Y	
T type interface ⁽³⁾		Y11-M5	Y21- ^{□01} _{□02}	Y31- ^{□01} _{□02}	Y31- ^{□01} _{□02}	Y41- ^{□02} _{□03}	Y51- ^{□02} _{□03}	Y61- ^{□03} _{□04}	Y61- ^{□03} _{□04}	Y61- ^{□03} _{□04}	
Residual press. exhaust 3 port valve		—	VHS2000- ^{□01} _{□02}	VHS3000- ^{□02} _{□03}	VHS3000- ^{□02} _{□03}	VHS4000- ^{□02} _{□03^{□06}}	—	—	—	—	
Cross interface		Y14-M5	Y24- ^{□01} _{□02}	Y34- ^{□01} _{□02}	Y34- ^{□01} _{□02}	Y44- ^{□02} _{□03}	Y54- ^{□03} _{□04}	—	—	—	
Interface		Y10	Y20	Y30	Y30	Y40	Y50	Y60	Y60	Y60	
Accessory	Pressure gauge	1.0MPa	G27-10-R1	G36-10-□01	G36-10-□01	G36-10-□01	G46-10-□02	G46-10-□02	G46-10-□02	G46-10-□02	
		0.2MPa	(G27-10-R1) ⁽⁴⁾	G36-2-□01	G36-2-□01	G36-2-□01	G46-2-□02	G46-2-□02	G46-2-□02	G46-2-□02	
	Auto drain float ⁽⁵⁾	N.O.	—	—	AD43	AD43	AD44	AD44	AD44	AD44	AD44
		N.C.	—	—	AD53	AD53	AD54	AD54	AD54	AD54	AD54
Auto drain press. differential		AD61	AD62	—	—	—	—	—	—	—	

AC1020 to 6020

Dimensions



Model	Port size	A	B	C	D	E	Bracket mounting size						M	N	P	R	With auto drain	
							F	G	H	J	K	L					Float	Press. Diff.
																	B	B
AC1020	M5	58	70	11	25	26	25	29	20	4.5	7.5	5	17.5	16	38.5	16	—	90.5
AC2020	1/8, 1/4	90	103.5	17	40	56.8	30	45	24	5.5	8.5	5	22	23	50	16	—	126.5
AC2520	1/4, 3/8	117	140	25	53	60.8	41	58.5	35	7	11	7	34.2	26*	70.5	20	181	—
AC3020	1/4, 3/8	117	150	35	53	60.8	41	58.5	35	7	11	7	34.2	26*	70.5	10	191	—
AC4020	1/4, 3/8, 1/2	154	184.5	37.5	70	65.5	50	77	40	9	13	7	42.2	33*	88	12.5	225.5	—
AC4020-06	3/4	164	189.5	40.5	70	69.5	50	82	40	9	13	7	46.2	36	88	9.5	230.5	—
AC5020	3/4, 1	195	268	48	90	75.5	70	97.5	50	12	16	10	55.2	40	115	14.5	309.5	—
AC5520	1	200	282	48	95	75.5	70	102.5	50	12	16	10	55.2	40	117.5	14.5	323.5	—
AC6020	1	205	282	48	95	78	70	102.5	50	12	16	10	55.2	40	117.5	14.5	323.5	—

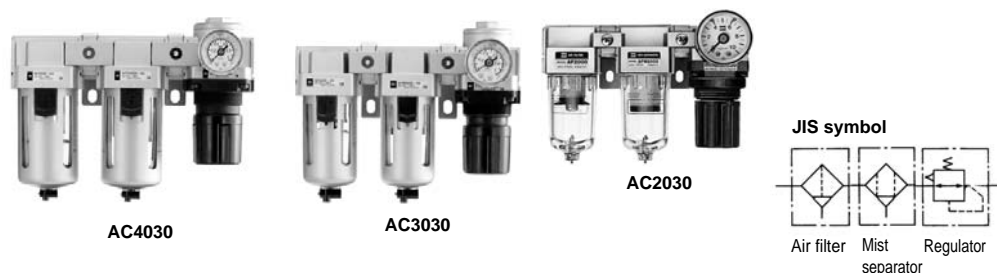
Option**

Model	Barb fitting	With drain guide	Metal bowl	Metal bowl with level gauge
	B	B	B	B
AC1020	—	—	70	—
AC2020	—	—	103.5	—
AC2520	148.5	146	153	173
AC3020	158.5	156	163	183
AC4020	193	190.5	197.5	217.5
AC4020-06	198	195.5	202.5	222.5
AC5020	276.5	274	281	301
AC5520	290.5	288	295	315
AC6020	290.5	288	295	315

*For piping adapter AC2520, 3020, port size 1/2: 40mm
For AC4020, port size 3/4: 50mm

**For options (with barb fitting, with drain guide, metal bowl, with level gauge), body length (B dimension) is different.

Air Combination Air Filter + Mist Separator + Regulator AC2030 to 4030



Standard Specifications

Model		AC2030	AC2530	AC3030	AC4030	AC4030-06
Combination equipment	Air filter	AF2000	AF3000	AF3000	AF4000	AF4000-06
	Mist separator	AFM2000	AFM3000	AFM3000	AFM4000	AFM4000-06
	Regulator	AR2000	AR2500	AR3000	AR4000	AR4000-06
Port size	1/8 1/4	1/4 3/8	1/4 3/8	1/4 3/8 1/2	3/4	
Gauge port size	1/8	1/8	1/8	1/4	1/4	
Fluid	Air					
Proof pressure	1.5MPa					
Max. operating pressure	1.0MPa					
Min. operating pressure	0.05MPa					
Set pressure range	0.05 to 0.85MPa					
Flow (ℓ/min (ANR)) ⁽¹⁾	200	450	450	1100	1100	
Ambient and fluid temperature	-5 to 60°C (Non-freezing)					
Filtration	AF: 5μm, AFM: 0.3μm(95% scavenging particle diameter)					
Density of oil mist on secondary side	Max. 1.0mgf/Nm ³ (≒0.8ppm) ⁽²⁾					
Bowl material	Polycarbonate					
Construction/Filter regulator	Relieving style					
Weight (kg)	0.71	1.03	1.17	2.21	2.46	
Accessory (Standard equipment)	Bowl guard	—	●	●	●	●
	Bracket	B210L	B310L	B310L	B410L	B510L

Note 1) Conditions: Supply pressure 0.7MPa, Set pressure 0.5MPa Rated flow changes depending on supply pressure
 Note 2) With compressor discharging density of 30mgf/Nm³

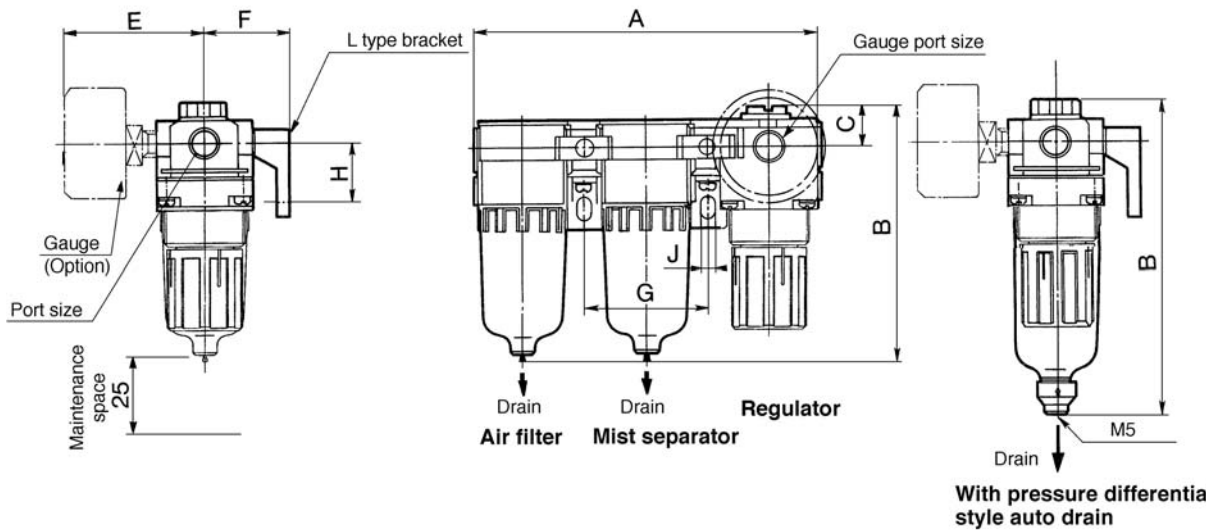
Attachments/Accessories (Options)

Description	Model	Part No.					
		For AC2030	For AC2530	For AC3030	For AC4030	For AC4030-06	
Attachment	Piping adapter	E20-□01 □02 □03	E30-□02 □03 □04	E30-□02 □03 □04	E40-□02 □03 □04 □06	E50-□06	
	Pressure switch with piping adapter	IS1000E-2□01 □02 2□03 Y	IS1000E-3□02 □03 3□04 Y	IS1000E-4□02 □03 3□04 3□04 Y	IS1000E-4□02 □03 4□04 4□06 Y	Y54-□03 □04	
	Pressure switch	IS1000M-2Y	IS1000M-3Y	IS1000M-3Y	IS1000M-4Y	IS1000M-5Y	
	T type interface ⁽³⁾	Y21-□01 □(02)	Y31-□(01) □02	Y31-□(01) □02	Y41-□(02) □03	Y51-□(02) □03	
	Residual pressure exhaust 3 port valve	VHS2000-□01 □02	VHS3000-□02 □03	VHS3000-□02 □03	VHS4000-□02 □03 □04	—	
	Cross interface	Y24-□01 □02	Y34-□01 □02	Y34-□03 □02	Y44-□02 □03	Y54-□03 □04	
	T type bracket	B210T	B310T	B310T	B410T	B510T	
Accessory	Interface	Y20	Y30	Y30	Y40	Y50	
	Pressure gauge	1.0MPa	G36-10-□01	G36-10-□01	G36-10-□01	G46-10-□02	G46-10-□02
		0.2MPa	G36-2-□01	G36-2-□01	G36-2-□01	G46-2-□02	G46-2-□02
	Auto drain float style ⁽⁴⁾	N.O.	—	AD43	AD43	AD44	AD44
		N.C.	—	AD53	AD53	AD54	AD54
Auto drain pressure differential style	AD62	—	—	—	—		

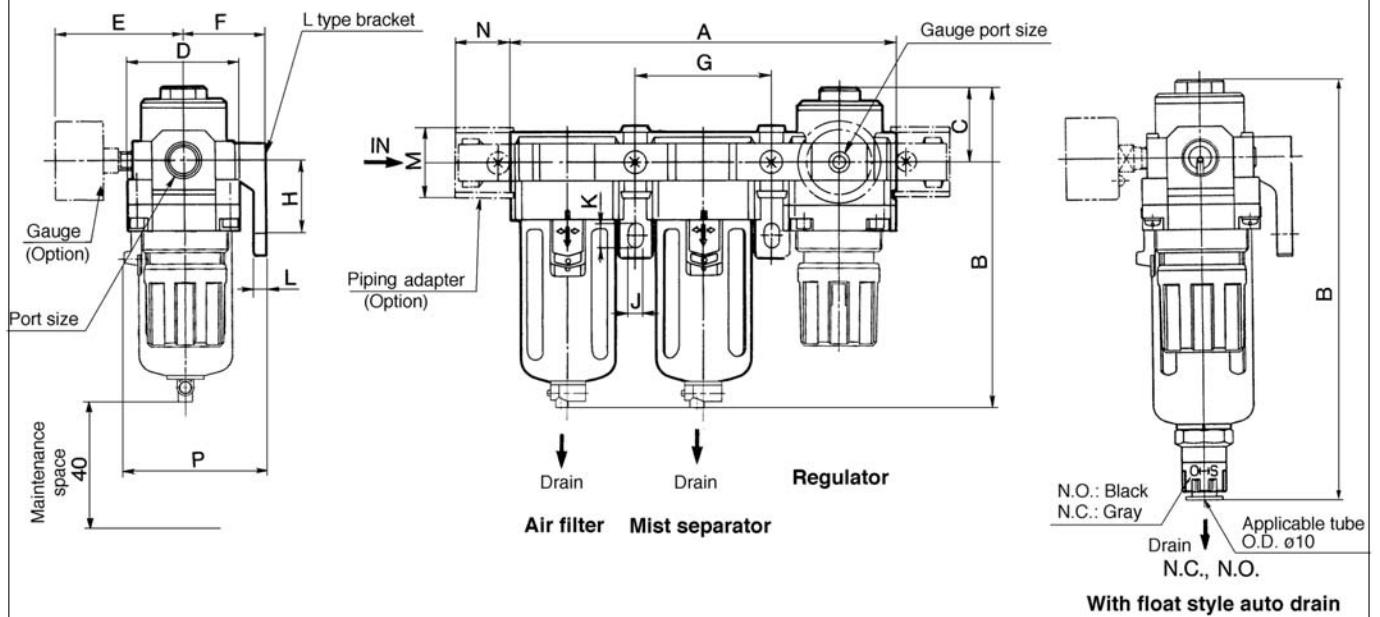
AC2030 to 4030

Dimensions

AC2030



AC2530/3030/4030



Model	Port size	A	B	C	D	E	Bracket mounting size						M	N	P	With auto drain	
							F	G	H	J	K	L				Float	Press. Diff.
																B	B
AC2030	1/8, 1/4	140	103.5	17	40	56.8	30	50	24	5.5	8.5	5	22	23	50	—	126.5
AC2530	1/4, 3/8	181	140	25	53	60.8	41	64	35	7	11	7	34.2	26*	70.5	181	—
AC3030	1/4, 3/8	181	150	35	53	60.8	41	64	35	7	11	7	34.2	26*	70.5	191	—
AC4030	1/4, 3/8, 1/2	238	184.5	37.5	70	65.5	50	84	40	9	13	7	42.2	33*	88	225.5	—
AC4030-06	3/4	253	189.5	40.5	70	69.5	50	89	40	9	13	7	46.2	36	88	230.5	—

Option**

Model	Barb fitting	With drain guide	Metal bowl	Metal bowl with level gauge
	B	B	B	B
AC2030	—	—	103.5	—
AC2530	148.5	146	153	173
AC3030	158.5	156	163	183
AC4030	193	190.5	197.5	217.5
AC4030-06	198	195.5	202.5	222.5

*For piping adapter AC2530, 3030, port size 1/2: 40mm
For AC4030, port size 3/4: 50mm

**For options (with barb fitting, with drain guide, metal bowl, with level gauge), body length (B dimension) is different.

Air Combination Filter Regulator + Mist Separator

AC2040/3040/4040



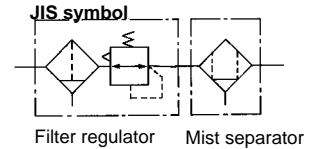
AC4040



AC3040



AC2040



Standard Specifications

Model		AC2040	AC3040	AC4040	AC4040-06
Combination equipment	Filter regulator	AW2000	AW3000	AW4000	AW4000-06
	Mist separator	AFM2000	AFM3000	AFM4000	AFM4000-06
Port size		1/8 1/4	1/4 3/8	1/4 3/8 1/2	3/4
Gauge port size		1/8	1/8	1/4	1/4
Fluid		Air			
Proof pressure		1.5MPa			
Max. operating pressure		1.0MPa			
Min. operating pressure		0.05MPa			
Set pressure range		0.05to0.85MPa			
Flow (l/min (ANR))(Port size) ⁽¹⁾		150	330	800	800
Ambient and fluid temperature		-5 to 60°(Non-freezing)			
Filtration		AW: 5μm, AFM: 0.3μm(95% scavenging particle diameter)			
Density of oil mist on secondary side		Max1.0mgf/Nm ³ (≒0.8ppm) ⁽²⁾			
Bowl material		Polycarbonate			
Construction/Filter regulator		Relieving style			
Weight (kg)		0.63	0.97	1.91	1.99
Accessory (Standard equipment)	Bowl guard	—	●	●	●
	Bracket ⁽³⁾	B210T	B310T	B410T	B510T

Note 1) Conditions: Supply pressure 0.7MPa, Set pressure 0.5MPa Rated flow changes depending on supply pressure.

Note 2) With compressor discharging density of 30mgf/Nm³

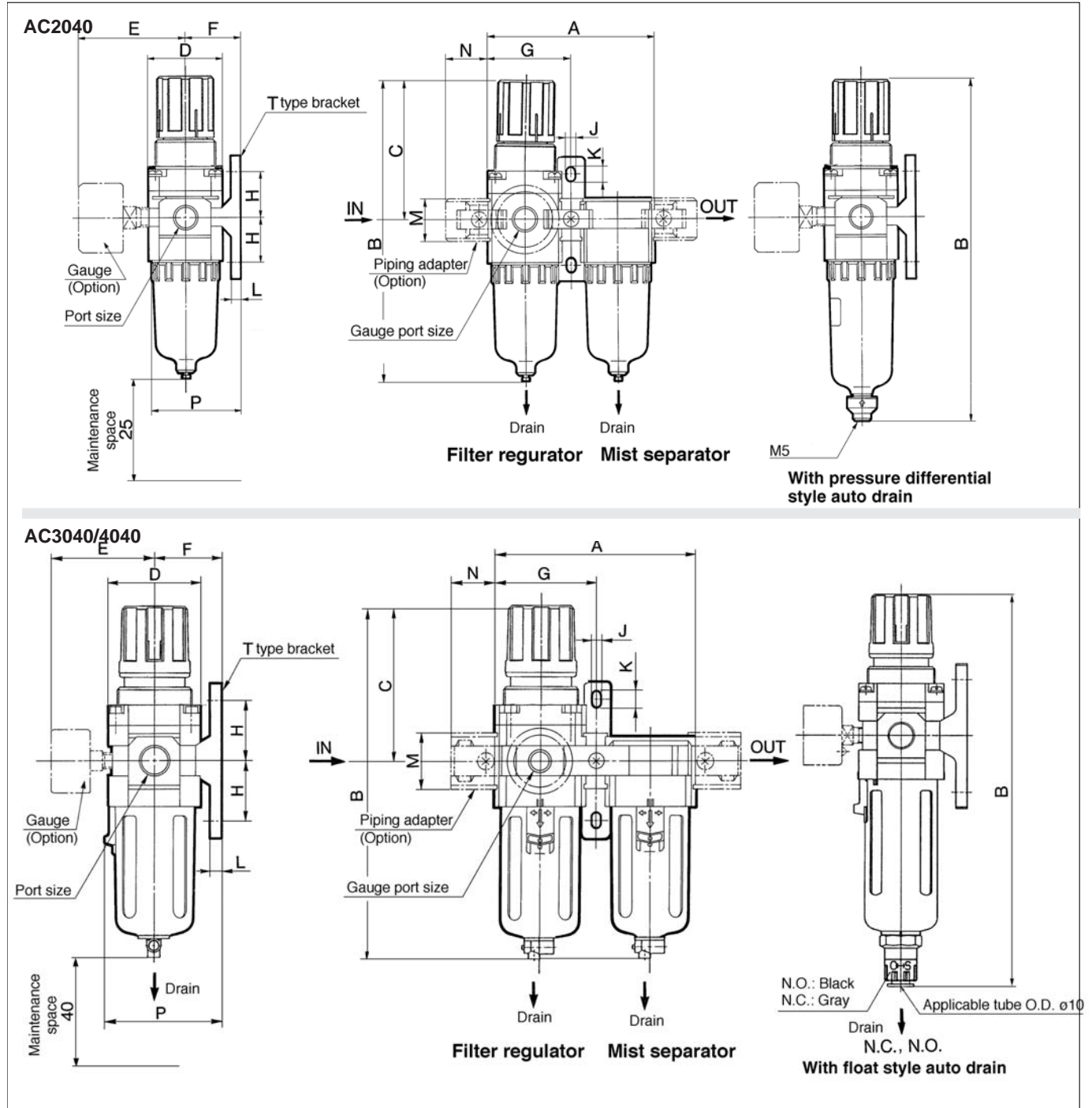
Note 3) L bracket for a set of 3 pieces or more.

Attachments/Accessories (Options)

Description	Model	Part No.			
		For AC2040	For AC3040	For AC4040	For AC4040-06
Piping adapter		E20-□ ⁰¹ □ ⁰² □ ⁰³	E30-□ ⁰² □ ⁰³ □ ⁰⁴	E40-□ ⁰² □ ⁰³ □ ⁰⁴ □ ⁰⁶	E50-□ ⁰⁶
Pressure switch with piping adapter		IS1000E- ² □ ⁰¹ ² □ ⁰² Y ² □ ⁰³	IS1000E- ³ □ ⁰² ³ □ ⁰³ Y ³ □ ⁰⁴	IS1000E- ⁴ □ ⁰² ⁴ □ ⁰³ Y ⁴ □ ⁰⁴ ⁴ □ ⁰⁶	—
Residual pressure exhaust 3 port valve		VHS2000-□ ⁰¹ □ ⁰²	VHS3000-□ ⁰² □ ⁰³	VHS4000-□ ⁰² □ ⁰³ □ ⁰⁴	—
Cross interface		Y24-□ ⁰¹ □ ⁰²	Y34-□ ⁰¹ □ ⁰²	Y44-□ ⁰² □ ⁰³	Y54-□ ⁰³ □ ⁰⁴
Interface		Y20	Y30	Y40	Y50
Pressure gauge	1.0MPa	G36-10-□ ⁰¹	G36-10-□ ⁰¹	G46-10-□ ⁰²	G46-10-□ ⁰²
	0.2MPa	G36-2-□ ⁰¹	G36-2-□ ⁰¹	G46-2-□ ⁰²	G36-2-□ ⁰²
Auto drain float style ⁽⁴⁾	N.O.	—	AD43	AD44	AD44
	N.C.	—	AD53	AD54	AD54
Auto drain pressure differential style		AD62	—	—	—

AC2040/3040/4040

Dimensions



Model	Port size	A	B	C	D	E	Bracket mounting size						M	N	P	With auto drain	
							F	G	H	J	K	L				Float	Press. Diff.
																B	B
AC2040	1/8, 1/4	90	164.5	78	40	56.8	30	45	24	5.5	8.5	5	22	23	50	—	187.5
AC3040	1/4, 3/8	117	207.5	92.5	53	60.8	41	58.5	35	7	11	7	34.2	26*	70.5	248.5	—
AC4040	1/4, 3/8, 1/2	154	259	112	70	70.5	50	77	40	9	13	7	42.2	33*	88	300	—
AC4040-06	3/4	164	263	114	70	70.5	50	82	40	9	13	7	46.2	36	88	304	—

Option**

Model	Barb fitting	With drain guide	Metal bowl	Metal bowl with level gauge
	B	B	B	B
AC2040	—	—	164.5	—
AC3040	216	213.5	220.5	240.5
AC4040	267.5	265	272	292
AC4040-06	272	269.5	276.5	296.5

*For piping adapter AC3040, port size 1/2: 40mm
For AC4040, port size 3/4: 5mm

**For options (with barb fitting, with drain guide, metal bowl, with level gauge), body length (B dimension) is different.