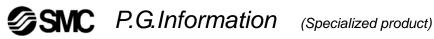
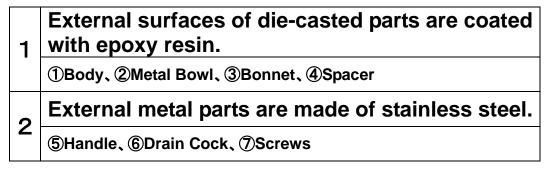
SP093X-010E P: NW



Air Line Equipment —X480 Series **Epoxy Resin Coating Specifications**

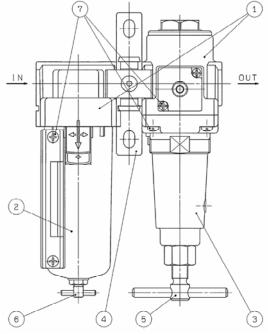
SMC CORPORATION 4-14-1, SOTO-KANDA, CHIYODA-KU, TOKYO 101-0021, JAPAN URL: http://www.smcworld.com

Feature:

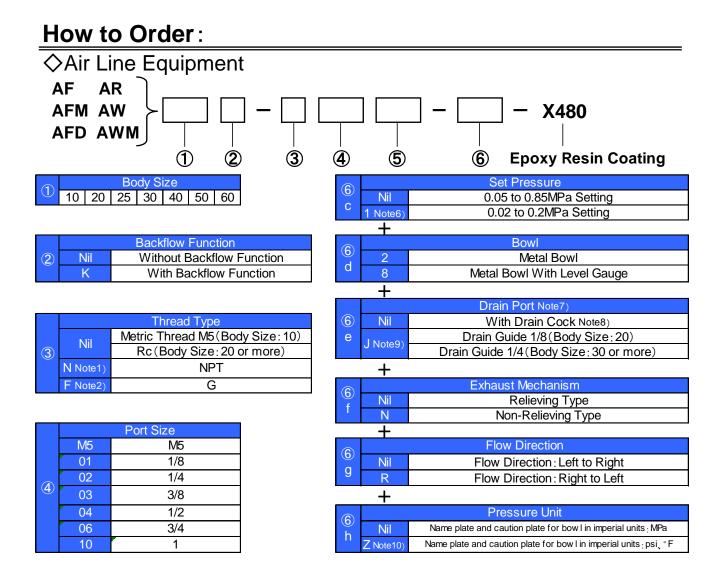


The corrosion resistance is improved vs. the standard product.

(Based on salt spray test results, corrosion resistance was twice as effective compared to the standard product .)



- Note 1) Although the corrosion resistance is more effective than the standard product, the product is not corrosion proof.
- Note 2) * The back of the AF, AFM and AFD bodies are not coated with epoxy resin.
 - * Parts of the spacer and the piping adapter, which are unexposed when combined with other components, are not coated with epoxy resin.
 - => Do Not Use in an environment directly exposed to water.
- Note 3) Be aware that original features may not be achieved due to peeling of paint or flaws generated by contact of friction between metal parts.



		Mounting Note3)
(5)	Nil	Without Mounting Option
а	B Note4)	With Bracket
	Н	With Set Nut(For Panel Fitting)

		Float Type Auto Drain Note5)
5	Nil	Without Auto Drain
b	С	Float Type Auto Drain(N.C.)
	D	Float Type Auto Drain(N.O.)

•5.6	: Select	one	each	for	а	to	h .	
------	----------	-----	------	-----	---	----	------------	--

 \cdot (5), (6) symbol : When more than one specification is

required, indicate in alphanumeric order .

Example) AR30K-03B-1NR-X480

Note 1) Regarding AF, AFM, AFD, AW and AWM, drain guide is NPT1/8 (applicable to body size 20) and NPT1/4 (applicable to body size 30 or more). The auto drain port is NPT1/4 (applicable to body size 30 or more).

Note 2) Regarding AF, AFD, AW and AWM, drain guide is G1/8 (applicable to body size 20) and G1/4 (applicable to body size 30 or more). The auto drain port is G1/4 (applicable to body size 30 or more).

Note 3) Mounting option B, H are not assembled and supplied loose at the time of shipment.

Note 4) Set nuts are attached to the bracket.[AR20(K) to AR40(K), AW20(K) to AW40(K), AWM]

Mounting screws (2 pieces) are attached. [AF, AFM, AFD, AR50(K), AR60(K), AW60(K)]

Note 5) Since resin parts of the float type auto drains, C and D, are exposed to the outside environment, they may deteriorate by cleaning agents (solvents).

Note 6) The only difference from the standard specifications is the adjusting spring for the regulator. It does not restrict the setting of 0.2 MPa or more.

Note 7) Float type auto drain :The combination of C and D is not possible.

Note 8) Regarding AF, AFM and AFD, the drain cock material for the body sizes of 10 and 20 is brass with electroless plating.

Note 9) Without a valve function.

Note 10) For thread type: M5 and NPT. This product is for overseas use only according to the new Measurement Law .

(The SI unit type is provided for use in Japan.)

♦Air Line Equipment Configuration

				6	D									(5					6			
	Model	1	2	(3				4					a		b	с		d	е	f	g	h
		Body Size	к	N	F	М5	01	02	03	04	06	10	в	н	С	D	1	2	8	J	N	R	z
		10																					0
		20											•									•	0
AF	Alta Elitera	30											•									•	0
AF	Air Filter	40											•									•	0
		50											•										0
		60											•										0
		20											•									•	0
AFM	Mist Separator	30											•									•	0
		40											•										0
	Micro	20											•										0
AFD		30											•										0
	Mist Separator	40											•									•	0
		20											•									•	0
		25											•									•	0
AR		30											•										0
AR	Regulator	40											•										0
		50											•									•	0
		60											•										0
		20											•										0
AW	Filter Demulater	30											•										0
Aw	Filter Regulator	40																					0
		60																					0
	Mist Consult	20											•										0
AWM	Mist Separator	30											•										0
	Regulator	40																					0

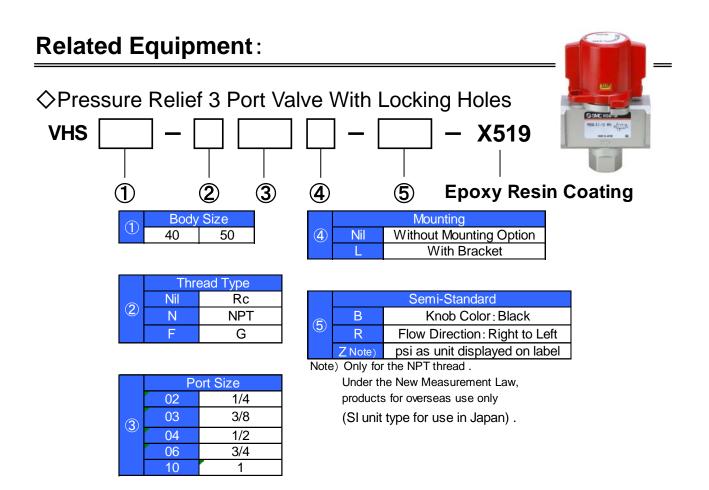
Note) O: For thread type: M5 and NPT only .

%If air line equipment other than those listed above are required, consult with us.

Specifications:

Equivalent to the standard model. (Fluid, Ambient and fluid temperature, Proof pressure, Maximum operating pressure, Set pressure range)

※Regarding AR, AW and AWM, if an application needs relief pressure, consult with us since the piston type pressure regulating construction is required.



◇Pressure Relief 3 Port Valve With Locking Holes Configuration

		1		2			3			4		5	
	Model	Body Size	Ν	F	02	03	04	06	10	L	в	R	z
VHS	Pressure Relief 3 Port Valve	40									\bullet	•	
VIIS	With Locking Holes	50						•	•	\bullet	\bullet	\bullet	

%If VHS other than those listed above are required, consult with us.

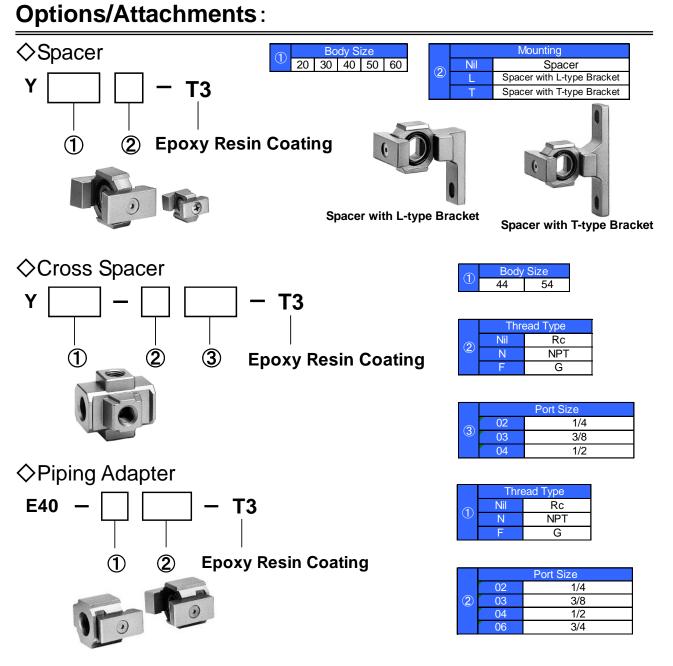
♦Pressure Gauge

G43 Series / Wetted Parts : Stainless Steel Specification (-X3)

A stud and A bourdon tube made of Stainless Steel .



***** The gauge is sold separately from the AR, AW, and the AWM. The customer should order the gauge separately for these units.



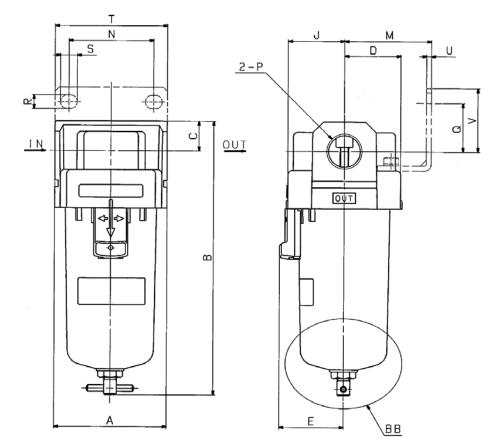
♦ Spacer, Cross Spacer and Piping Adapter Configuration

	Model	Body Size	01	02	03	04	06	10	Applicable Model
		20							AC20
		30							AC25 🗆 🕻 AC30 🗆
Y**(L、T)	Spacer	40							AC40□、VHS40
		50					•		AC40□-06、VHS40-06
		60							AC50B、AC55B、AC60B、VHS50
Y**	0	44							AC40
<u>ነ ተተ</u>	Cross Spacer	54							AC40□-06
E**(L、T)	Piping Adapter	40		•	•	•	•		AC40 AF40、AR40 AW40 AFM40、AFM40、AFM40、AFM40、AFM40、AFM40、AWM40

%If Options other than those listed above are required, consult with us.

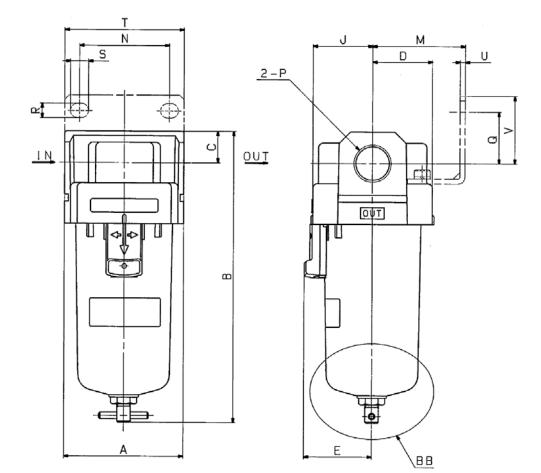
Dimensions: mm

♦ Air Filter/AF



MODEL NO.		~AF60	AF10,20	AF 30*	AF60	AF20	AF30	~AF60
ACCESSORY	WITH AUTO DRA	IN(N.O,/N.C.)						
OPTIONS	2	8	2	2	8 .	2 J	2.1	8J
EXTERNAL APPEARANCE DRAVING				B		1/8 HEX.14	<u>1/4</u> HEX.17	AA ///////////////////////////////////

DIMENSIONS																					
										(OPTI	ONAL	SP	ECIF		TIONS		SEMI-S	TANDARD	SPECIFI	CATIONS
MODEL NO.	STAND	ARD	SPE	CIF	CAT	IONS				BRA	ACKE	т мо	UNT			WITH AUTO	DRAIN WITH AUTO DORAL AND LEVEL GAUGE	METAL BOWL	WITH LEVEL GAUGE	WITH DRAIN GUIDE	WITH LEVEL GAUGE AND DRAIN GUIDE
	P	Α	C	D	E	J	AA	M	N	Q	R	S	Т	U	V	B	B	В	В	В	В
AF10-X480	M5x0.8	25	7	12.5	-	12.5	-	-	-	- 1	-	-	-	-	-			66			
AF20-X480	1/8,1/4	40	10	20	-	20	-	30	27	22	5.4	8.4	40	2.3	28	-		97			
AF30-X480	1/4,3/8	53	14	26.5	30.5	26.5	34.5	41	40	23	6.5	8		2.3			158	129	149	136	156
AF40-X480	1/4,3/8,1/2	70	18	35	38	35	41	50	54	26	8.5	10.5	70	2.3	35		194	165	185	172	192
AF40-06-X480	3/4	75	20	35	38	35	41	50	54			10.5		2.3		+	198	169	189	176	196
AF50-X480	3/4,1	90	24	45	-	45	41	70	66	35	11	13	90	3.2			274	245	265	252	272
AF60-X480	1	95	24	47.5	-	47.5	41	70	66	35	11	13	_	3.2			287	258	278	265	285



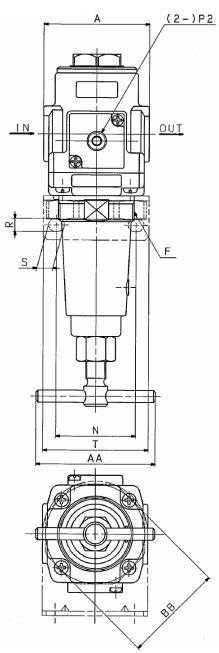
♦Mist Separator/AFM, Micro Mist Separator/AFD

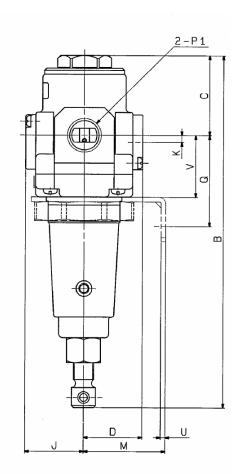
BOWL ASSEMBL	Y PORTION BB							
MODEL NO.	AFM,AFD30~A	FM, AFD40-06	AFM, AFD20	AFM, AFD30~A	FM, AFD40-06	AFM, AFD20	AFM, AFD30~A	FM, AFD40-06
ACCESSORY	WITH AUTO DRA	IN(N.O./N.C.)						
OPTIONS	2	8	2	2	8	2 J	2 J	8J
EXTERNAL APPEARANCE Drawing						1 1/8 HEX.14	<u></u> m <u></u> m	AA <u>(1/4</u> <u>HEX.17</u>

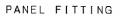
Ę	D	I	М	Е	N	s	I	ON	s

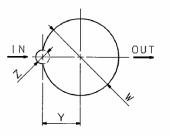
										1	DPTI	ONAL	SP	ECIF	ICA	TIONS		SEMI-S	TANDARD	SPECIFI	CATIONS
MODEL NO.	STAND	ARD	SPE	CIFI	CAT	IONS				BRA	CKE	т мо	UNT			VITH AUTO DA	RAIN WITH AUTO DORAIN AND LEVEL GAUGE	METAL BOWL	WITH LEVEL GAUGE	WITH DRAIN GUIDE	VITH-LEVEL GAUGE AND DRAIN GUIDE
	P	A	C	D	E	J	AA	M	N	Q	R	S	T	U	V	B	8	В	В	В	В
AFM, AFD20-X480	1/8,1/4	40	10	20	-	20	-	30	27	22	5.4	8.4	40	2.3	28			97		_	
AFM, AFD30-X480	1/4,3/8	53	14	26.5	30.5	26.5	34.5	41	40	23	6.5	8	53	2.3	30		158	129	149	136	156
	1/4,3/8,1/2	70	1.8	35	38	35	41	50	54	26	8.5	10.5	70	2.3	35		194	165	185	172	192
AFM, AFD40-06-X480	3/4	75	20	35	38	35	41	50	54	25	8.5	10.5	70	2.3	34		198	169	189	176	196

♦ Regulator/AR





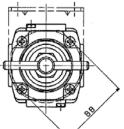


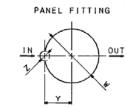


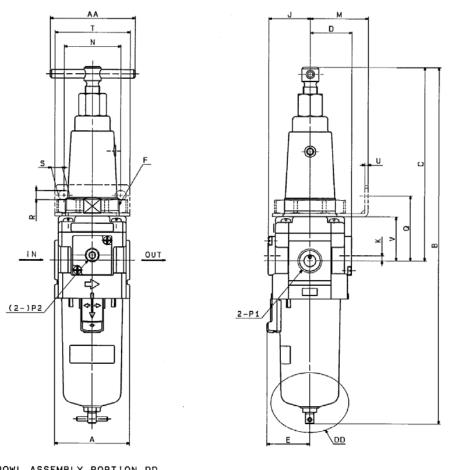
DIMENSIONS

		5	ΤΔΝΓ		SPE	CLEI	CATIONS						OP	TION	AL S	SPEC	IFIC	CATIO	DNS			
MODEL NO.					51 24		CATTONS	,					В	RACK	ET	MOUN	Т		PA	NEL	MOU	NT
	P1	P2	A	B	C	D	F	J	K	AA	BB	м	N	Q	R	S	T	U	٧	W	Y	Z
AR20(K)-X480	1/8,1/4	1/8	40	134	34	28.5	M28x1	28.5	-2	50	36	30	34	44	5.4	15.4	55	2.3	25	28.5	14	6
AR25(K)-X480	1/4,3/8	1/8	53	158	35.5	27.5	M32x1.5	27.5	0	60	41	30	34	47	5.4	15.4	55	2.3	29	32.5	16	6
AR30(K)-X480	1/4,3/8	1/8	53	177	40	29.5	M38x1.5	29.5	3.5	60	50	41	40	46	6.5	8	53	2.3	31	38.5	19	7
AR40(K)-X480	1/4,3/8,1/2	1/4	70	204	45	34	M42x1.5	34	3.5	60	55	50	54	57.5	8.5	10.5	70	2.3		42.5		7
AR40(K)-06-X480	3/4	1/4	75	205	45	34	M42x1.5	34	3	60	55	50	54	59	8.5	10.5	70			42.5		7
AR50(K)-X480	3/4.1	1/4	90	256	54	43.5	-	43.5	3.3	125	-	70	66	65.8		13	90	3.2	-	-	_	-
AR60(K)-X480	: 1	1/4	95	264	57	43.5		· · ·		125		70		65.8		13	90	3 2	_	-	-	<u> </u>

♦ Filter Regulator/AW



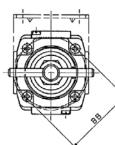


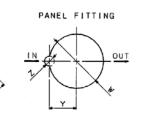


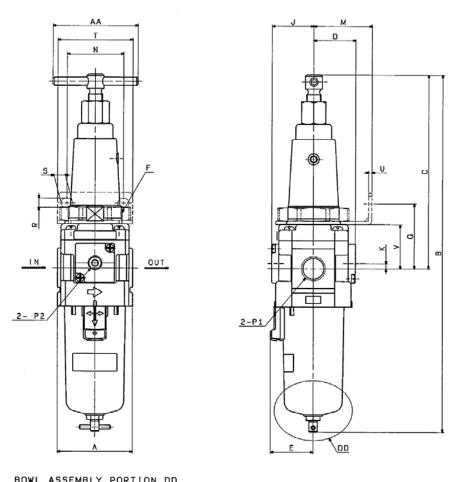
BOWL	ASSEMBLY PORTI	ON DD						
NODEL NO	. AW30(K)	~AW60(K)	AW20(K)	AW30(K)	~AW60(K)	AW20(K)	AW30(K)	~AW60(K)
ACCESSOR	WITH AUTO DRA	IN(N.O./N.C.)						
OPTION	6 2	8	2	2	8	2 J	2 J	8J
EXTERNAL APPEARANCE Draving						1/8 HEX.14	1/4 HEX.17	CC

DIMENSIONS																													
																OP	TION	NAL	SPEC	IFI	CATI	ONS				SEMI-S	TANDARD	SPECIFI	CATIONS
MODEL NO.		5	STAN	DARD	SPE	CIF	CATIONS	5						B	RAC	KΕT	мои	NT		P	ANEL	мот	JNT	WITH AUTO DRAIN	AND LEVEL GAD	NETAL BOWL	WITH LEVEL GAUGE	WITH DRAIN GUIDE	NITH LEVEL GAUGE AND DEATH GUIDE
	P1	P2	A	C	D	E	F	J	K	AA	BB	CC	M	N	G	R	S	T	U	V	W	Y	Z	8	8	в	B	B	в
AW20(K)-X480	1/8,1/4	1/8	3 40	105	26	-	M28x1	26	5	50	36	-	30	34	44	5.4	15.4	1 55	2.3	3 30	28.	5 14	6	-		192		199	
AW30(K)-X480	1/4,3/8	1/8	3 53	137	29.5	30	M38x1.5	29.5	3.5	60	50	34.5	41	40	46	6.5	8	53	2.3	3 31	38.5	5 19	7	2	81	252	272	259	279
AW40(K)-X480	1/4,3/8,1/2	1/4	1 70	159	37.5	38	M42x1.5	37.5	1.5	60	55	41	50	54	57.5	8.5	10.5	5 70	2.3	3 39	42.5	5 21	7	3	35	306	326	313	333
AW40(K)-06-X480	3/4	1/4	1 75	161	37.5	38	M42x1.5	37.5	1.2	60	55	41	50	54	59	8.5	10.5	5 70	2.3	3 40.	5 42.5	21	7		39	310	330	317	337
AW60(K)-X480	3/4,1	1/4	1 95	207	43.5	38	-	43.5	3.2	125	-	41	70	66	66	11	13	90	3.2	- 12	-	-	-		70	441.5	461.5	448	468

♦ Mist Separator Regulator/AWM



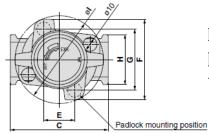




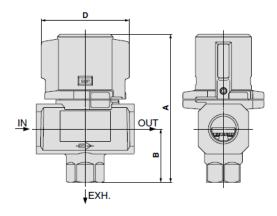
BOWL	ASSEMBLY PORTI	ON DD						
NODEL N	0. AWM30	~AWM40	AWM20	AWM30	AWM40	AWM20	AWM30	~AWM40
ACCESSO	RY WITH AUTO DRA	IN(N.O./N.C.)	2	-	-			
OPTIO	NS 2	8	2	2	8	2 J	2 J	8J
EXTERNAL APPEARANCE DRAVING						1/8 HEX.14	<u>1/4</u> HEX.17	CC

DIMENSIONS																													
																OP	TION	AL	SPEC	IFI	CATIO	ONS				SEMI-ST	ANDARD	SPECIFI	CATIONS
MODEL NO.		5	TAN	DARD	SPE	CIF	CATIONS							B	RAC	KET	MOUN	T		P	ANEL	MOU	NT	VITH AUTO DRAM	WITH AUTO DORAIN AND LEVEL GAUGE	METAL BOWL	WITH LEVEL GAUGE	VITH DRAIN GUIDE	VITH LEVEL GAUGE AND DRAIN GUIDE
	P1	P2	A	C	D	E	F	J	K	AA	88	CC	м	N	0	R	S	T	U	V	W	Y	Z	8	B	В	8	8	В
AWM20-X480	1/8,1/4	1/8	40	105	26	-	M28x1	26	5	50	36	-	30	34	44	5.4	15.4	55	2.3	30	28.5	14	6	-	_	192	_	199	
AWM30-X480	1/4,3/8	1/8	53	137	29.5	30	M38x1.5	29.5	3.5	60	50	34.5	41	40	46	6.5	8	53	2.3	31	38.5	19	7	2	81	252	272	259	279
AWM40-X480	1/4,3/8,1/2	1/4	70	159	37.5	38	M42x1.5	37.5	1.5	60	55	41	50	54	57.5	8.5	10.5	5 70	2.3	39	42.5	21	7		35	306	326	313	333

♦ Pressure Relief 3 Port Valve With Locking Holes



Model	Piping port	Α	В	С	D	E	F	G	н	- I
VHS40	1/4, 3/8, 1/2	107	39	70	63	22	58	44	36	63
VHS40-06	3/4	110	42	75	67	21	65	50	44	69
VHS50	3/4, 1	134	53	90	78	26	76	61	54	81



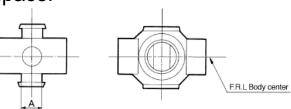
♦Spacer

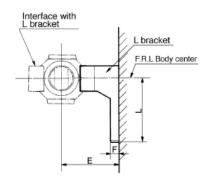
G

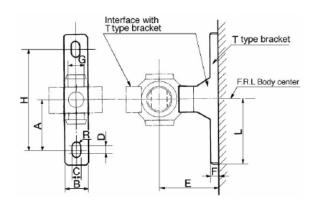
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C B

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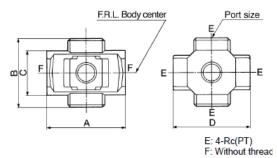


Model	Α
Y20	10
Y30	11
Y40	14
Y50	14
Y60	15

Interface with L bracket	А	в	с	D	Е	F	G	R	L
Y20L	24	15	5.5	3	30	6	10	2.75	33
Y30L	35	16	7	4	41	7	11	3.5	45
Y40L	40	22	9	4	50	7	14	4.5	50
Y50L	40	22	9	4	50	7	14	4.5	60
Y60L	50	24	12	4	70	10	15	6	62.5

Interface with T bracket	A	В	с	D	E	F	G	н	R	L
Y20T	24	15	5.5	3	30	5	10	48	2.75	33
Y30T	35	16	7	4	41	7	11	70	3.5	45
Y40T	40	22	9	4	50	7	14	80	4.5	50
Y50T	40	22	9	4	50	7	14	80	4.5	50
Y60T	50	24	12	4	70	10	15	100	6	62.5

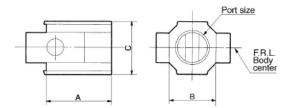
♦ Cross Spacer



Model	Port size	Α	в	С	D
Y44-□02 Y44-□03	1/4 3/8	60	48	36	54
Y54-⊡03 Y54-⊡04	3/8 1/2	72	62	40	62

Note 1) □ in parts number indicates thread. Use nothing for Rc(PT), N for NPT and F for G(PF).

◇Piping Adapter



Model	Port size	Α	в	С
E40-⊡02 E40-⊡03	1/4 3/8	33	35	42.2
E40-⊡04 E40-⊡06	1/2 3/4	50	35	42.2

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Note 1) □ in part number indicates thread type. Use nothing for Rc(PT), N for NPT and F for G(PF).

Salt Spray Test Results (For reference):

1. Test conditions

- 1) Method: In compliance with JIS Z 2371 (ASTM B117-07a), leave parts in a salt spray test chamber, and compare rust generation.
- 2) Conditions: Temperature: 35°C Salt water concentration: 5%
- 3) Time: 1000 hours [Frequency: 0hr, 24hrs, 48hrs, 72hrs, 96hrs, 168hrs, 240hrs, 480hrs, 720hrs, 1000hrs]
- 4) Samples: Parts for AF and AW30 (See Figure 1.)
- * Part descriptions: 4 parts (1) Body (2) Drain cock (3) Small screw for level gauge (4) Bonnet screw
- * Types: 2 types A) Standard (B) Special X480 (Coated with epoxy resin [External metal parts are made of SUS])
- * Refer to Table 1 for part materials and treatments. * Quantity; 2 peaces for each

2. Test results Table 1 Salt spray resistance test results	ults
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No.	Description		Туре	Material & Treatment	Results
		А	Standard	Material: ADC	Rusted in 480hrs Part of coating swelled.
1	Body	в	Special X480	Treatment: Platinum coating Material: ADC	Not rusted in 1000hrs
				Treatment: Platinum & epoxy coating Material: ADC	Part of coating swelled.
2	Drain cock	A	Standard	Treatment: Zinc chromate	Rusted in 24hrs
)		в	Special X480	Material: SUS	Not rusted in 1000hrs
3	Cross recessed round head screw for metal	А	Standard	Material: Steel Treatment: Nickel plating	Rusted in 24hrs
•	bowl with level gauge	в	Special X480	Material: SUS	Not rusted in 1000hrs
(4)	Self-tapping screw	А	Standard	Material: Steel Treatment: Zinc chromate	Rusted in 24hrs
	for AR and AW bonnet	в	Special X480	Material: SUS	Not rusted in 1000hrs

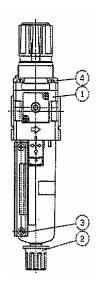


Figure 1.

Body		Screw	
Standard	X480 Epoxy Resin Coating	Standard	X480 Stainless Steel
		Drain Cock	
		Standard	X480 Stainless Steel

Caution To ensure the safest possible operation of this product, please be sure to read thoroughly the "Safety Instructions" in our "Best Pneumatics" catalog before use.