Modular Type Regulators Series AR

Regulator Series AR	Model	Port size	Options
	AR10	M5 x 0.8	
The same of the sa	AR20	1/8, 1/4	
	AR25	1/4, 3/8	
Mps	AR30	1/4, 3/8	
	AR40	1/4, 3/8, 1/2	
	AR40-06	3/4	Bracket Square embedded type
	AR50	3/4, 1	pressure gauge (except the AR10)
Pages 496 through to 505	AR60	1	Round type pressure gauge
Regulator with Backflow Function Series AR□K	AR20K	1/8, 1/4	Digital pressure switch
School Andrews	AR25K	1/4, 3/8	(except the AR10) Panel mount
	AR30K	1/4, 3/8	T anel mount
- MARIE AL COMPANIE AND ADMINISTRATION OF THE PARTY OF TH	AR40K	1/4, 3/8, 1/2	
	AR40K-06	3/4	
	AR50K	3/4, 1	
Pages 496 through to 505	AR60K	1	

AW-A
AC
AF
AF
AR
AL
AW
AGG

E□ AV AF

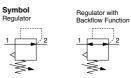
AC-A

AF-A

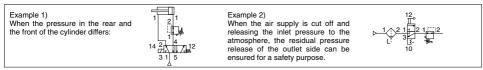
AR-A

AL-A

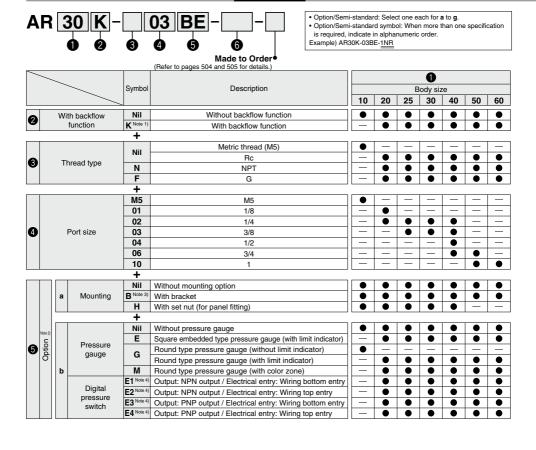
AR10 to AR60 Regulator with Backflow Function AR20K to AR60K



 With the backflow function it incorporates a mechanism to exhaust the air pressure in the outlet side reliably and quickly.



How to Order



Regulator Series AR10 to AR60 Regulator with Backflow Function Series AR20K to AR60K





AC-A AF-A AF□-A

AR-A AL-A AW-A AC

AR20, AR20K

AR40, AR40K

_														
	_	_	_	Symbol	Description					0				AF
				Syllibol	Description	Body size								[
L							10	20	25	30	40	50	60	AF□
			0.1	Nil Note 5)	0.05 to 0.85 MPa setting		•	•	•	•	•	•	•	
		C	Set pressure	1 Note 6)	0.02 to 0.2 MPa setting	iΓ	•	•	•	•	•	•	•	AR
				+										
		d	Exhaust	Nil	Relieving type	iL	•	•	•	•	•	•	•	AL
		l "	mechanism	N	Non-relieving type	il	•	•	•	•	•	•	•	
	밀			+										AW□
	ğ	e	Flow direction	Nil	Flow direction: Left to right	ΙL	•	•	•	•	•	•	•	
6	Semi-standard	-	riow direction	R	Flow direction: Right to left	ı	•	•	•	•	•	•	•	A□G
	'हं			+										
	%		Knob	Nil	Downward	ĺ	•	•	•	•	•	•	•	l E□
		١.	KIIOD	Υ	Upward	i	•	•	•	•	•	•	•	
				+		_								AV
				Nil	Name plate and pressure gauge in imperial units: MPa		•	•	•	•	•	•	•	
		g	Pressure unit	Z Note 7)	Name plate and pressure gauge in imperial units: psi		Note 9)	O Note 9)	0 .	ONote 9)	\sim	\sim	0 .	AF
				ZA Note 8)	Digital pressure switch: With unit conversion function	П	-1	△Note 10)						

- Note 1) The AR10 type comes with a backflow function as a standard feature. (K is not available.) When using the AR10 type as w/ backflow function, backflow may not occur with the set pressure 0.15 MPa or less. For AR20K to 60K, please set the inlet pressure to at least 0.05 MPa higher than the set pressure.
- Note 2) Option B, G, H, M are not assembled and supplied loose at the time of
- shipment.

 Note 3) Assembly of a bracket and set nuts (AR10, AR20(K) to AR40(K))
- Including 2 mounting screws for the AR50(K) and AR60(K)
- Note 4) When choosing with H (panel mount), the installation space for lead wires will not be secured. In this case, select "wiring top entry" for the electrical entry. (Select "wiring bottom entry" when the semi-standard Y is chosen simultaneously.)
- Note 5) Only the AR10 has a pressure setting of 0.05 to 0.7 MPa.

- 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. When the pressure gauge is attached, a 0.2 MPa pressure gauge will be fitted.
- Note 7) 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.) The digital pressure switch will be equipped with the unit conversion function,

setting to psi initially.

The combination of the round type pressure gauge with color zone "M" and a psi display "Z" is not orderable as a standard product. However, this combination is available as a special.

- Note 8) For options: E1, E2, E3, E4. This product is for overseas use only according to the new Measurement Law. (The SI unit is provided for use in Japan.)
- Note 9) ○: For thread type: M5 and NPT only Note 10) △: Select with options: E1, E2, E3, E4.

Standard Specifications

Standard Specifications	•							
Model	AR10	AR20(K)	AR25(K)	AR30(K)	AR40(K)	AR40(K)-06	AR50(K)	AR60(K)
Port size	M5 x 0.8	1/8, 1/4	1/4, 3/8	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	1
Pressure gauge port size Note 1)	1/16 Note 2)		1/8			1/	/4	
Fluid		Air						
Ambient and fluid temperature Note 3)		−5 to 60°C (with no freezing)						
Proof pressure				1.5	MPa			
Maximum operating pressure				1.0	MPa			
Set pressure range	0.05 to 0.7 MPa			0.05 to 0).85 MPa			
Relief pressure Note 4)	Set pressure + 0.05 MPa [at relief flow rate of 0.1 L/min (ANR)]							
Construction	Relieving type							
Weight (kg)	0.06	0.16	0.21	0.29	0.44	0.47	1.17	1.22

Note 1) Pressure gauge connection threads are not available for F.R.L. unit with a square embedded type pressure gauge (AR20(K) to AR60(K)).

Note 2) Use a bushing (part no:131368) when connecting the R1/8 pressure gauge to the Rc1/16.

Note 3) -5 to 50°C for the products with the digital pressure switch.





Series AR10 to AR60 Series AR20K to AR60K

Options/Part No.

Option	_	Model	AR10	AR20(K)	AR25(K)	AR30(K)	AR40(K)	AR40(K)-06	AR50(K)	AR60(K)		
Brack	et assem	nbly Note 1)	AR10P-270AS	AR20P-270AS	AR25P-270AS	AR30P-270AS	AR40P	-270AS	AR50P-27	70AS Note 2)		
Set nu	ıt		AR10P-260S	AR20P-260S	AR25P-260S	AR25P-260S AR30P-260S AR40P-260S		P-260S	Note 3)	Note 3)		
	Note 4) Round	Standard	G27-10-R1	G36-10-□01				G46-10-□02				
	type	0.02 to 0.2 MPa setting	G27-10-R1 ^{Note 5)}		G36-2-□01			G46-2-□02				
Press- ure	Round Note 4)		_		G36-10-□01-L	-		G46-10-□02-L				
gauge	type (with color zone)	0.02 to 0.2 MPa setting	_		G36-2-□01-L			G46-2-	.□02-L			
-	Square Note 6)	Standard	_		GC3-1	0AS [GC3P-0	10AS (Pressu	re gauge cover	r only)]			
	embedded type	0.02 to 0.2 MPa setting	_		GC3-	2AS [GC3P-01	0AS (Pressur	e gauge cover	only)]			
		NPN output: Wiring bottom entry		ISE35-N-25-MLA [ISE35-N-25-M (Switch body only)] Note 7)								
Digita		NPN output: Wiring top entry		ISE35-R-25-MLA [ISE35-R-25-M (Switch body only)] Note 7)								
press		PNP output: Wiring bottom entry	_	ISE35-N-65-MLA [ISE35-N-65-M (Switch body only)] Note 7)								
		PNP output: Wiring top entry		ISE35-R-65-MLA [ISE35-R-65-M (Switch body only)] Note 7)								

Note 1) Assembly of a bracket and set nuts

Note 2) Assembly of a bracket and 2 mounting screws

Note 3) Please consult with SMC regarding the set nuts for the AR50(K) and AR60(K).

Note 4) in part numbers for a round pressure gauge indicates a type of connection thread. 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.

Note 5) Pressure gauge for general purpose

Note 6) Including one O-ring and 2 mounting screws. []: Pressure gauge cover only

Note 7) Lead wire with connector (2 m), adapter, lock pin, O-ring (1 pc.), mounting screw (2 pcs.) are attached. []: Switch body only Also, regarding how to order the digital pressure switch, please refer to page 538.

⚠ Specific Product Precautions

Be sure to read before handling. Refer to front matter 43 for Safety Instructions and pages 365 to 369 for F.R.L. Precautions.

Selection

⚠ Warning

 Residual pressure disposal (outlet pressure removal) is not possible for the AR20 to AR60 even though the inlet pressure is exhausted. When the residual pressure disposal is performed, use the regulator with a backflow function (AR20K to AR60K).

Maintenance

🗥 Warning

 When using the regulator with backflow function between a solenoid valve and an actuator, check the pressure gauge periodically. Sudden pressure fluctuations may shorten the durability of the pressure gauge. A digital pressure gauge is recommended for such situation or as deemed necessary.

Mounting and Adjustment

\land Warning

- Set the regulator while verifying the displayed values of the inlet and outlet pressure gauges. Turning the regulator knob excessively can cause damage to the internal parts.
- The pressure gauge included with regulators for 0.02 to 0.2 MPa setting is for up to 0.2 MPa use only (except the AR10). Exceeding 0.2 MPa of pressure can damage the gauge.
- 3. Do not use tools on the pressure regulator knob as this may cause damage. It must be operated manually.

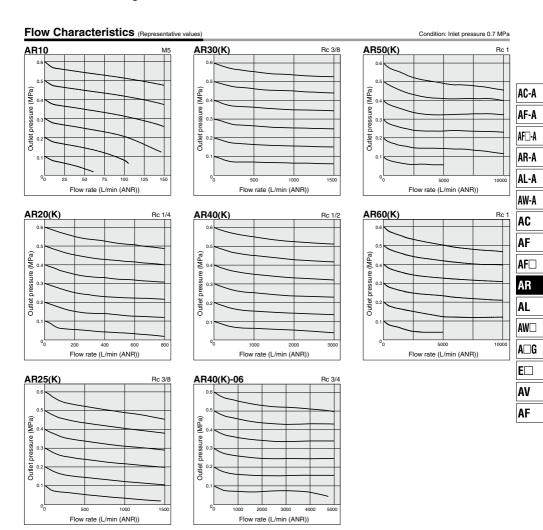
- Be sure to unlock the knob before adjusting the pressure and lock it after setting the pressure. Failure to follow this procedure can cause damage to the knob and the outlet pressure may fluctuate.
- Pull the pressure regulator knob to unlock. (You can visually verify this with the "orange mark" that appears in the gap.)
- Push the pressure regulator knob to lock. When the knob is not easily locked, turn it left and right a little and then push it (when the knob is locked, the "orange mark", i.e., the gap will disappear).



A knob cover is available to prevent careless operation of the knob. Refer to page 539 for details.



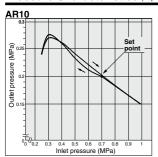
Regulator Series AR10 to AR60 Regulator with Backflow Function Series AR20K to AR60K

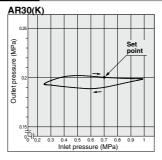


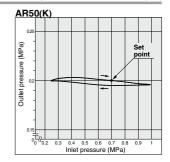
Series AR10 to AR60 Series AR20K to AR60K

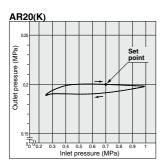
Pressure Characteristics (Representative values)

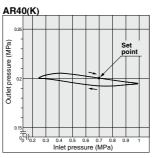
Conditions: Inlet pressure 0.7 MPa, Outlet pressure 0.2 MPa, Flow rate 20 L/min (ANR)

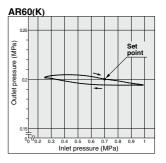


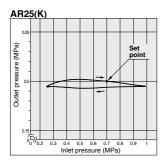


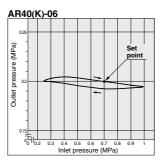








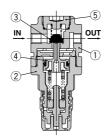




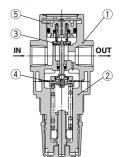
Regulator Series AR10 to AR60 Regulator with Backflow Function Series AR20K to AR60K

Construction

AR10



AR20(K), AR25(K)



AC-A

AF-A AF□-A AR-A AL-A

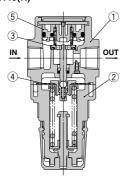
AW-A AC AF

AF□ AR AL

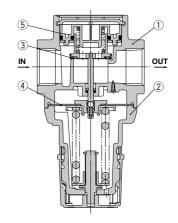
AW□ A□G E□ AV

AF

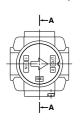
AR30(K), AR40(K)

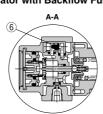


AR50(K), AR60(K)



AR20K to AR60K (Regulator with Backflow Function)





Component Parts

00	iponent i arto					
No.	Description	Material	Model	Color		
_	Body	Zinc die-cast	AR10	Platinum silver		
'	i Body	Aluminum die-cast	AR20(K) to AR60(K)	i iamium silvei		
-	Bonnet	Polyacetal	AR10, AR20(K) to AR40(K)-06	Black		
2 Boillet	Aluminum die-cast	AR50(K), AR60(K)	DidUK			

Replacement Parts

No.	Description	Material								
INO.	Description	Material	AR10	AR20(K)	AR25(K)	AR30(K)	AR40(K)	AR40(K)-06	AR50(K)	AR60(K)
3	Valve assembly	Brass, HNBR	AR10P-090S	AR20P-410S	AR25P-410S	AR30P-410S	AR40I	P-410S	AR50P-410S	AR60P-410S
4	Diaphragm assembly	Weatherable NBR	AR10P-150AS Note 1)	AR20P-150AS	AR25P-150AS	AR30P-150AS	AR40P-150AS		AR50P	-150AS
5	Valve guide assembly	Polyacetal	131329	AR20P-050AS	AR25P-050AS	AR30P-050AS	AR40F	-050AS	AR50P-050AS	AR60P-050AS
6	Check valve assembly Note 2)	_	_	AB20KP-020AS						

Note 1) The AR10 is a piston type. Assembly of a piston and a seal (KSYP-13).

Note 2) Check valve assembly is applicable for a regulator with backflow function (AR20K to AR60K) only.

Series AR10 to AR60 Series AR20K to AR60K

Working Principle (Regulator with Backflow Function)

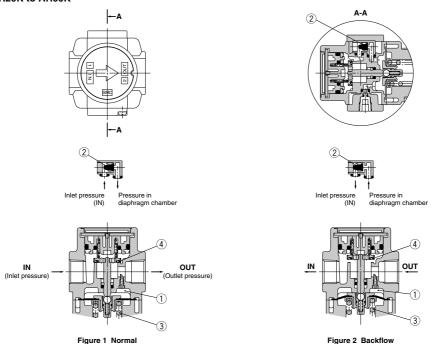


When the inlet pressure is higher than the regulating pressure, the check valve operates as a normal regulator (Figure 1).

When the inlet pressure is shut off and exhausted, any inlet pressure applied to the valve ① will be lost. The force for seating the valve ① is the valve spring force ② only. When the valve ① is opened using the outlet force, the outlet pressure will be exhausted at the inlet side. (Figure 2)

When the set pressure is 0.15 MPa or less, valve ① may not open due to the valve spring ② force.

AR20K to AR60K

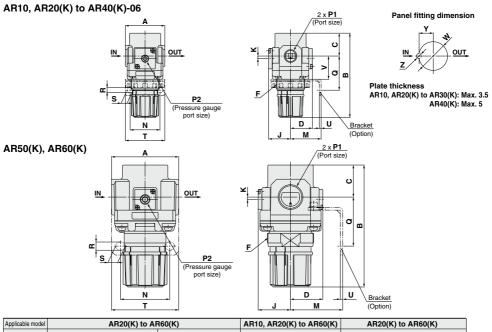


When the inlet pressure is higher than the regulating pressure, the check valve ② closes and operates as a normal regulator (Figure 1). When the inlet pressure is shut off and released, the check valve ② opens and the pressure in the diaphragm chamber ① is released into the inlet side (Figure 2).

This lowers the pressure in the diaphragm chamber ① and the force generated by the pressure regulator spring ③ lifts the diaphragm. Valve ④ opens through the stem, and the outlet pressure is released to the inlet side (Figure 2).

Regulator Series AR10 to AR60 Regulator with Backflow Function Series AR20K to AR60K

Dimensions



Applicable mode	AR20(K) to AF	R60(K)	AR10, AR20(K) to AR60(K)	AR20(K) to AR60(K)
Option	Square embedded type pressure gauge	Digital pressure switch	Round type pressure gauge	Round type pressure gauge (with color zone)
Dimensions	Center of piping	Center of piping	=	Center of piping

				Standar								Op	tional sp	ecificatio	ns		
Model				Standar	u specii	iications					re type re gauge	Dig pressur	ital e switch	Roun	d type e gauge	Round typ gauge (with	e pressure color zone)
	P1	P2	Α	B Note 1)	С	D	F	J	K	Н	J	Н	J	Н	J	Н	J
AR10	M5 x 0.8	1/16	25	58	11	12.5	M18 x 1	12.5	0	_	_	_	_	ø26	26	_	_
AR20(K)	1/8, 1/4	1/8	40	94	26.5	28.5	M28 x 1	28.5	2 ^{Note 2)}	□28	29.5	□27.8	40	ø37.5	65	ø37.5	65
AR25(K)	1/4, 3/8	1/8	53	101	28	27.5	M32 x 1.5	27.5	0	□28	28.5	□27.8	39	ø37.5	64	ø37.5	64
AR30(K)	1/4, 3/8	1/8	53	116	31	29.5	M38 x 1.5	29.5	3.5	□28	30.5	□27.8	41	ø37.5	66	ø37.5	66
AR40(K)	1/4, 3/8, 1/2	1/4	70	128	36	34	M42 x 1.5	34	3.5	□28	35	□27.8	45	ø42.5	72.5	ø42.5	74
AR40(K)-06	3/4	1/4	75	129	36	34	M42 x 1.5	34	3	□28	35	□27.8	45	ø42.5	72.5	ø42.5	74
AR50(K)	3/4, 1	1/4	90	169	43	43.5	M62 x 1.5	43.5	3.3	□28	44.5	□27.8	55	ø42.5	82	ø42.5	84
AR60(K)	1	1/4	95	176	46	43.5	M62 x 1.5	43.5	3.3	□28	44.5	□27.8	55	ø42.5	82	ø42.5	84

					Option	al specifi	cations				
Model			Br	acket mo		Panel mount					
	М	N	Q	R	S	Т	U	V	W	Υ	Z
AR10	25	28	30	4.5	6.5	40	2	18	18.5	_	_
AR20(K)	30	34	44	5.4	15.4	55	2.3	25	28.5	14	6
AR25(K)	30	34	44	5.4	15.4	55	2.3	26	32.5	16	6
AR30(K)	41	40	46	6.5	8	53	2.3	31	38.5	19	7
AR40(K)	50	54	54	8.5	10.5	70	2.3	35.5	42.5	21	7
AR40(K)-06	50	54	56	8.5	10.5	70	2.3	37	42.5	21	7
AR50(K)	70	66	65.8	11	13	90	3.2	_	_	_	_
AR60(K)	70	66	65.8	11	13	90	3.2	_	_	_	_

Note 1) The total length of B dimension is the length when the filter regulator knob is unlocked.

Note 2) For the AR20 only, the position of the pressure gauge is above the center of the piping.



AC-A

AF-A

AF□-A

AR-A

AL-A

AW-A AC

AF AF 🗆

AR

AL

AW□

A□G

E□ A۷ AF

Regulator AR20 to AR60 Made to Order Specifications:



AR30-03G-X440 AR30-03-X425

1 Special Temperature Environment

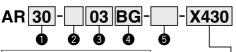
Special materials are used in the manufacturing of seals and resin parts to allow them to withstand various temperature conditions in cold or tropical (hot) climates.

Specifications

Made-to	-order part no.	-X430	-X440	
Environment		Low temperature	High temperature	
Ambient temperature (°C)		-30 to 60	-5 to 80	
Fluid ten	perature (°C)	-5 to 60 (with no freezing)		
	Rubber parts	Special NBR	FKM	
Material	Main parts	Metal (Aluminu	m die-cast), etc.	

Applicable Model

Model	AR25	AR30	AR40	AR40-06	AR50	AR60
Port size	1/4, 3/8	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	1



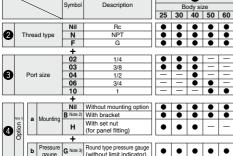
. Option/Semi-standard: Select one each for a to g. Option/Semi-standard symbol: When more

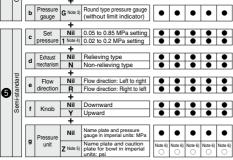
than one specification is required, indicate in alphanumeric order.

Example) AR30-03BG-1NR-X430

For high/low temperature

X430 Low temperature X440 High temperature





Note 1) Option B, G, H are not assembled and supplied loose at the time of shipment. Note 2) Assembly of a bracket and set nuts (AR25 to AR40) Including 2 mounting screws for the AR50 and AR60

Note 3) Mounting thread for pressure gauge: 1/8 for the AR25 to AR30; 1/4 for the

AR40 to AR60. Pressure gauge type: G43
Note 4) 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. When the pressure gauge is attached, a 0.2 MPa pressure gauge will be fitted.

Note 5) For thread type: NPT. This product is for overseas use only according to the

new Measurement Law. (The SI unit type is provided for use in Japan.) Note 6) O: For thread type: NPT only

2 High Pressure

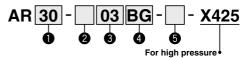
Strong materials are used in the manufacturing of air filters intended for high pressure operation. Also, construction modification allows a wider regulating pressure range.

Specifications

Made-to-order part no.	-X425
Proof pressure (MPa)	3.0
Maximum operating pressure (MPa)	2.0
Set pressure range (MPa)	0.1 to 1.7
Ambient and fluid temperature (°C)	-5 to 60 (with no freezing)

Applicable Model

Model	AR20	AR25	AR30	AR40	AR40-06	AR50	AR60
Port size	1/8 1/4	1/4 3/8	1/4 3/8	1/4 3/8 1/2	3/4	3/4 1	1



- · Option/Semi-standard: Select one each for a to f.
- . Option/Semi-standard symbol: When more than one specification is required, indicate in alphabetic order.

Example) AR30-03BG-NR-X425

					Symbol	Description				Po d	ody size				
			_		-,	2000, p.1000		20	25	30	40		60		
_			_		Nil	Rc	ı	•	•	•	•	•	•		
0	1	hre	a	d type	N	NPT	1	•	•	•	•	•	•		
_					F	G		•	•	•	•	•	•		
			Τ		+		•						_		
					01	1/8	1	•	_	_	_	-	-		
					02	1/4		•	•	•	•	_	_		
8		ъ-	_	size	03	3/8		_	•	•	•	_	_		
J		20	ιt	SIZE	04	1/2		_	_	_	•	-	-		
					06	3/4	1	_	_	_	•	•	Ι-		
					10	1	1	-	_	_	-	•	•		
			_		+		•						_		
			Τ		Nil	Without mounting option		•	•	•	•	•	•		
	Note 1)		1		B Note 2)	With bracket		•	•	•	•	•	•		
_		а	1	Mounting		With set nut	1			_	_				
4)	Option		1		Н	(for panel fitting)		•	•	•	•	-	-		
_	ō	_	Ī		+								_		
		Γ.	Τ	Pressure	G Note 3)	Round type pressure switch			_						
		b	1	gauge	G Note 3)	(with limit indicator)		•	•	•	•	•	•		
		_	_		+		•								
			Τ	Exhaust	Nil	Relieving type		•	•	•	•	•			
		C	1	mechanism	N	Non-relieving type		•	•	•	•	•	•		
		_	Ī		+		•						_		
		d	П	Flow	Nil	Flow direction: Left to right		•	•	•	•	•	•		
	P.	٥	1	direction	R	Flow direction: Right to left		•	•	•	•	•	•		
_	Semi-standard		Ī		+		•								
0	sta		Τ	Knob	Nil	Downward		•	•	•	•	•	•		
_	ř.	е	1	KNOD	Υ	Upward		•	•	•	•	•	•		
	Ser	_	_		+		•								
	ĺ			Pressure	Nil	Name plate and pressure gauge in imperial units: MPa		•	•	•	•	•	•		
		f		unit	Z Note 4)	Name plate and caution plate for bowl in imperial units: psi		Note 5)	Note 5)	Note 5)	Note 5)	Note 5)	Note:		

Note 1) Option B. G. H are not assembled and supplied loose at the time of shipment. Note 2) Assembly of a bracket and set nuts (AR20 to AR40)

Including 2 mounting screws for the AR50 and AR60 Note 3) Mounting thread for pressure gauge: 1/8 for AR20 to AR30, 1/4 for AR40 to

AR60. Pressure gauge type: G46-20-□

Note 4) For thread type: NPT. This product is for overseas use only according to the new Measurement Law. (The SI unit type is provided for use in Japan.) Note 5) O: For thread type: NPT only



Regulator AR10 to AR60 Regulator with Backflow Function AR20K to AR60K Made to Order Specifications:



AC-A

AF-A

AR-A

AW-A

AC

AF

AF□ AR

AWD
ADG
ED
AV

Please contact SMC for detailed dimensions, specifications, and lead times.

3 0.4 MPa Setting

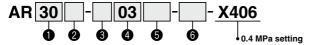
The maximum set pressure is 0.4 MPa. When a pressure gauge is included, the display will show a range from 0 to 0.4 MPa.

Specifications

Proof pressure	1.5 MPa
Maximum operating pressure	1.0 MPa
Set pressure range	0.05 to 0.4 MPa

Applicable Model

Model	AR10	AR20(K)	AR25(K)	AR30(K)	AR40(K)	AR40(K)-06	AR50(K)	AR60(K)
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



- Option/Semi-standard: Select one each for a to f.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphabetic order Example) AR30K-03BE-NR-X406

		-,	=									
	_	_	_	Symbol	Description				O Body siz			
		Pressure gauge b Digital pressure	Joyindon	2 conputer	10	20	25	30 30	40	50	60	
•				Nil	Without backflow function		•	•	•	•	•	•
0	١ ١	With b	ackflow function	K Note 1)	With backflow function	-	•	•	•	•	•	•
				+								
					Metric thread (M5)		-	_	_	_	-	
_		_		Nil	Rc		•	•	•	•	•	•
❸			nread type	N	NPT		•	•	•	•	•	•
				F	G		•	•	•	•	•	•
				+								
				M5	M5		-	_	_	_	-	_
				01	1/8		•	_	_	-	_	-
				02	1/4		•	•	•	•	_	-
Ø	4		Port size	03	3/8		-	•	•	•	-	-
				04	1/2		-	-	_	•	-	-
				06	3/4		_	_	_	•	•	_
				10	1		-	_	_	-	•	•
				+								
				Nil	Without mounting option	•	•	•	•	•	•	•
		а	Mounting	B Note 3)	With bracket	•	•	•	•	•	•	•
			_	Н	With set nut (for panel fitting)	•	•	•	•	•	_	-
				+							•	
	No. 41 (7)			Nil	Without pressure gauge		•	•	•	•	•	•
_				E	Square embedded type pressure gauge (with limit indicator)		•	•	•	•	•	•
6	뚫		Pressure gauge	G	Round type pressure gauge (without limit indicator)		_	_	_	_	_	_
_	🗗			-	Round type pressure gauge (with limit indicator)		•	•	•	•	•	•
		b		M	Round type pressure gauge (with color zone)		•	•	•	•	•	•
				E1 Note 4)	Output: NPN output / Electrical entry: Wiring bottom entry		•	•	•	•	•	•
			Digital pressure	E2 Note 4)	Output: NPN output / Electrical entry: Wiring top entry		•	•	•	•	•	•
			switch	E3 Note 4)	Output: PNP output / Electrical entry: Wiring bottom entry		•	•	•	•	•	•
	Ш			E4 Note 4)	Output: PNP output / Electrical entry: Wiring top entry		•	•	•	•	•	•
				+								
		١.		Nil	Relieving type	∟●	•	•	•	•	•	•
			mechanism	N	Non-relieving type	┚┖╸	•	•	•	•	•	•
				+								
	و	۱,	Elow direction	Nil	Flow direction: Left to right	∟●_	•	•	•	•	•	•
	g	u u	1 low direction	R	Flow direction: Right to left	┚┖╸	•	•	<u> </u>	•	•	_
6	ᄪ	_		+								
"		-	Knoh	Nil	Downward	_	•	•	•	•	•	•
	le l		KIIOD	Υ	Upward		•		_ •		•	
	0,			+								
				Nil	Name plate and pressure gauge in imperial units: MPa		•	•	•	•	•	•
		f	Pressure unit	Z Note 5)	Name plate and pressure gauge in imperial units: psi	ONote 7)			ONote 7)		ONote 7)	
				ZA Note 6)	Digital pressure switch: With unit switching function		△ Note 8)	△ Note 8)	△ Note 8)	△ Note 8)	△ Note 8)	△ Note 8)

Note 1) The AR10 type comes with a backflow function as a standard feature. (K is not available.) When using the AR10 type as w backflow function, backflow may not occur with the set pressure 0.15 MPa or less. For AR20K to 60K, please set the inlet pressure to at least 0.05 MPa higher than the set pressure.

Note 2) Option B. G, H are not assembled and supplied loose at the time of shipment. Note 3) Assembly of a bracket and set nuts (AR10, AR20(K) to AR40(K)) Including 2 mounting screws for the AR50(K), AR60(K)

Note 4) When choosing with H (panel mount), the installation space for lead wires will not be secured. In this case, select "wiring top entry" for the electrical entry.

(Select "wiring bottom entry" when the semi-standard Y is chosen simultane-

ously.)

Note 5) 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.)

The digital pressure switch will be equipped with the unit conversion function,

setting to psi initially.

Note 6) For options: E1, E2, E3, E4. This product is for overseas use only according to the new Measurement Law. (The SI unit is provided for use in Japan.)

Note 7) O: For thread type: M5 and NPT only Note 8) A: Select with options: E1, E2, E3, E4



Pilot Operated Regulator Series AR425 to 935

Standard Specifications

Model	AR425	AR435	AR625	AR635	AR825	AR835	AR925	AR935			
Port size	1/4, 3	/8, 1/2	3/4	, 1	1 1/4,	11/2	2				
Fluid	Air										
Proof pressure	1.5 MPa										
Max. operating pressure	1.0 MPa										
Set pressure range (MPa) (1)	0.05 to 0.83	0.02 to 0.2	0.05 to 0.83	0.02 to 0.2	0.05 to 0.83 0.02 to 0.2		0.05 to 0.83	0.02 to 0.2			
Air consumption (for bleed hole) (2)	5 L/min (ANR) (at maximum pressure)										
Pressure gauge port size	1/4										
Ambient and fluid temperature	-5 to 60°C (No freezing)										
Construction	Internal pilot relieving type (Pilot air is always bleeding.)										
Weight (kg)	0	.7	1.1		2.5		4.5				

Note 1) Outlet pressure range: P2 is 90% of P1 or less.

Note 2) Air consumption differs depending on the set pressure. Due to the construction, the pressure gap between inlet and outlet cannot be set within 0.03 MPa, even if the handle is set at the maximum.

Accessory (Option)/Part No.

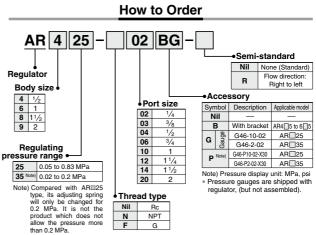
		Par		
Description Model	AR4□5	AR6□5	AR8□5	AR9□5
Bracket	B24P	B25P	_	_
Pressure gauge with limit indicator Note 1)	G	46-10-□02 (Max. 1.0 MPa),)	

- In the gauge part no. (e.g. G46-10-III02), II indicate kind of the connecting thread. Put nothing for Rc and "N" for NPT thread.
 Please consult with SMC for NPT pressure gauge.
- Use caution not to tighten excessively when mounting a pressure gauge, otherwise it may result in a breakdown. Use a pipe tape for sealing. Note 2) Recommended torque: 12 to 14 N·m.

Internal pilot operated relieving type regulator

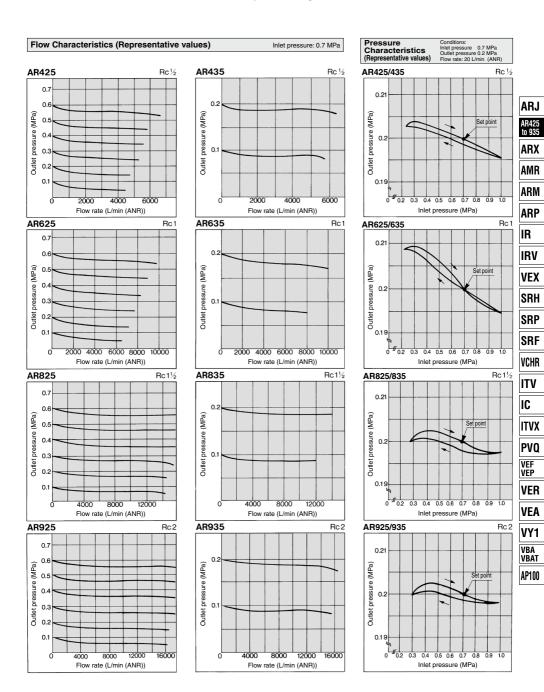






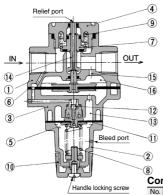
Symbol

Pilot Operated Regulator Series AR425 to 935



Series AR425 to 935

Construction



When handle (10) is turned clockwise to compress pressure adjustment spring 8, the pressure from the IN side passes through diaphragm (1), opens pilot valve 12, and enters upper pilot chamber 13. This pressure and the force generated by pressure adjustment spring (8) act as resistance, resulting in equilibrium. Then, this pressure passes through diaphragm 6 of the main valve and stem (4), and pushes valve (main valve) 7 open, thus auiding the pressure to the OUT side. At the same time, the pressure passes through feedback hole 15, and enters diaphragm chamber 16, thus establishing the OUT side pressure (outlet pressure).

Component Parts

No.	Description	Material	Note
1	Body	Aluminum die-casted *	Platinum silver painted
2	Bonnet	Aluminum die-casted	Platinum silver painted
3	Chamber	Aluminum die-casted	Platinum silver painted
4	Valve guide	Zinc die-casted *	Platinum silver painted

 In the case of AR825/835/925/935, the material is aluminum alloy.

Replacement Parts

No	Description	Material	Qty.		Part	t no.			
6 M	Description	Ivialeriai	Qiy.	AR425, 435	AR625, 635	AR825, 835	AR925, 935		
5, 11	Exhaust valve assembly Note)	_	1	132586A	132586A	132586A	132586A		
6	Main valve side diaphragm assembly	_	1	132581A	132659A	13275A	13285A		
7	Valve assembly	_	1	132572A	132653A	132752A	132829A		
_	Adjusting spring	Steel wire		135053 (AR425)	135053 (AR625)	135053 (AR825)	135053 (AR925)		
۰	Adjusting spring	Steel wire	'	135025 (AR435)	135025 (AR635)	135025 (AR835)	135025 (AR935)		
9	Valve spring	Stainless steel	1	135211	132656	132713	13289		
10	Handle	ABS	1	1 13414					

Note) Diaphragm is included.

⚠ Precautions

Be sure to read before handling. I Refer to front matter 43 for Safety I Instructions and pages 365 to 369 for Precautions on every series.

Mounting/Adjustment

∆Warning

- Install the valve guide (on the opposite side of the handle) 60 mm away from the ground surface to facilitate maintenance inspection.
- Do not use the regulator with flow exceeding the Max. flow indicated in "Flow Characteristics" as this can cause failure in pressure adjustment.

∆Caution

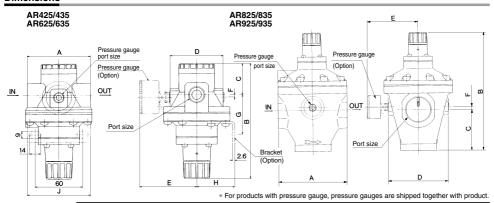
 Release the lock to adjust the pressure. After the adjustment, engage the lock. Failure to observe this procedure could damage the handle or cause the outlet pressure to fluctuate.

<Lock operating method>

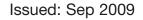
Loosen the handle locking screw to unlock it, and tighten it to lock it.

Please contact SMC if this product is to be used between solenoid valve and actuator.

Dimensions



Model	Port size	Port size Pressure gauge port size		В	_	D	_	_	Bracket dimensions			Bracket part
Model	FULL SIZE	Fressure gauge port size	A	-	•	י ו	-	-	G	Н	J	no.
AR425/43	5 1/4, 3/8, 1/2	1/4	80	145.5	39.5	67	73	3	50.0	48	80	B24P
AR625/63	3/4, 1	1/4	98	155	43	78	78.5	7	85	52	90	B25P
AR825/83	5 1 1/4, 11/2	1/4	126	216	75	110	94.5	5	_	_	_	_
AR925/93	5 2	1/4	160	241	90	140	109.5	10	_	_	_	_

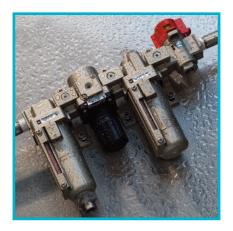




SMC Corporation of America

10100 SMC Boulevard Noblesville, IN 46060

www.smcusa.com



P.G. Information Epoxy Coated F.R.L. Units

AC21/31/41-***-*-X2217 AF20/30/40-***-*-X480 AR20/30/40-***-*-X48 AL20/30/40-***-*-X480 AW20/30/40-***-*-X48 VHS20/30/40-***-*-X513 Y20/30/40*-T4

Application: Air preparation in an environment that requires enhanced corrosion protection.

Feature 1: Die cast aluminum components are epoxy coated for improved chemical resistance.

Feature 2: Steel external hardware is replaced with stainless steel for improved chemical

resistance.

Comparison with Standard Product:

- 1) Functional performance is equivalent to standard product.
- 2) Product withstood salt spray testing per ASTM B117-07A with excellent results (See test results on page 12). Improved performance vs. other chemicals is anticipated but has not been verified.

Applications:

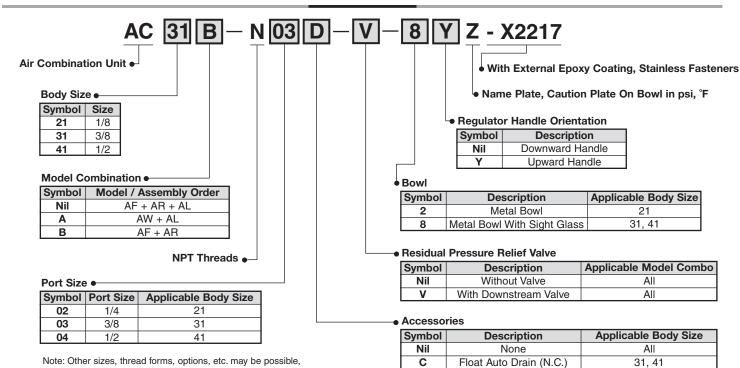
- Marine environments
- Water splash zone in various processes
- Washdown in food plants (non-food or splash zone only)

Related Products:

- KQG Series 316 SUS One-touch Fittings Coming Soon: KQG2
- KQB2 Series Ni plated brass One-touch Fittings (Coming Soon)
- ASG Series 316 SUS One-touch Speed Controls
- CG5 Series repairable 304 SUS Cylinder
- NCM Series with X6009 option crimped body 304 SUS Cylinder, domestic interchange
- CJ5 Series crimped body 304 SUS Cylinder
- HY Series Aluminum body Hygienic Design Actuators

ER.L. Unit Series AC21~41

How To Order





please contact SMC for availability.

Specifications

Body size	21	31	41					
Operating specifications	Same as standar	d - see catalog ES40	0-42D or NC160A					
Port size	1/4" NPT	1/4" NPT 3/8" NPT						
Auto drain port (AF, AW)	N/A	1/4"	NPT					
Bowl type (AF, AL, AW)	Metal	Metal with	sight gauge					
Body material		Die cast aluminum						
Bowl material (AF, AL, AW)		Die cast aluminum						
Body, Bowl surface treatment		Epoxy resin coating						
Bonnet (AR, AW)	Polyacetal							
Manual drain (AF, AW)	POM							
External screws		Stainless steel 410						
Individual mounting brackets		Epoxy coated steel						
Panel mount nut (AR, AW)		POM						
Connector brackets (AC)	Die	cast zinc (epoxy coa	ted)					
Fill plug (AL)	Stainless steel 304							
Sight dome (AL)	Polycarbonate							
Sight glass hardware (AF,AL,AW)	Stainless steel 304							

Float Auto Drain (N.O.)

D

Dimensions - Refer to drawings on page 3

mm

31, 41

AC	A*	AA**	В	С	Е	F	G	J	K	M	N	Q	U	V	W
AC21	140	190	160	73	_	45.5	40	26	5	30	51	24	5	33	_
AC31	181	245	220	86	30	58.5	55	29.5	3.5	41	64	35	7	45	34.5
AC41	238	322	239	92	38	75.5	80	37.5	1.5	50	81	40	7	50	41

^{*} Without relief valve option ** With relief valve option

mm

AC-A	A *	AA**	В	С	Е	F	G	J	K	М	N	Q	U	V	W
AC21A	90	140	160	73	_	45.5	40	26	5	30	51	24	5	33	_
AC31A	117	181	220	86	30	58.5	55	29.5	3.5	41	64	35	7	45	34.5
AC41A	154	238	239	92	38	75.5	80	37.5	1.5	50	81	40	7	50	41

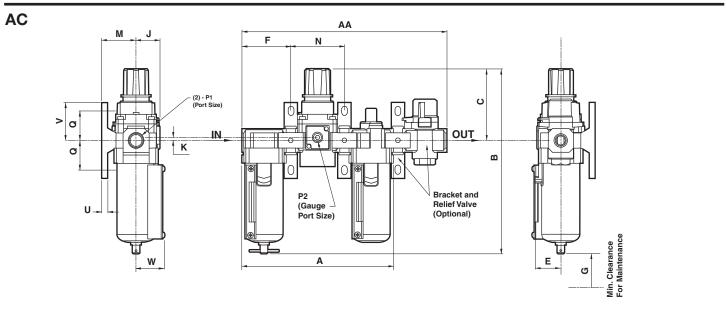
^{*} Without relief valve option ** With relief valve option

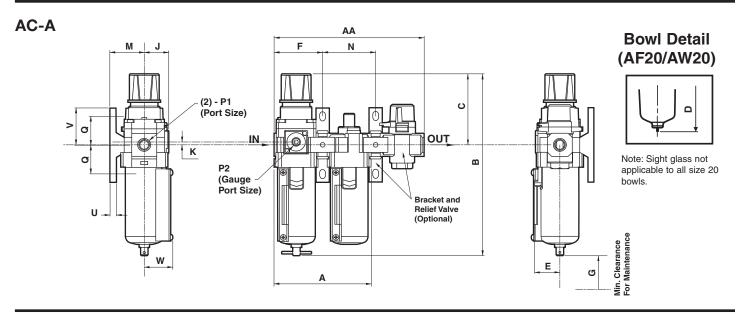
 $\mathsf{m}\mathsf{m}$

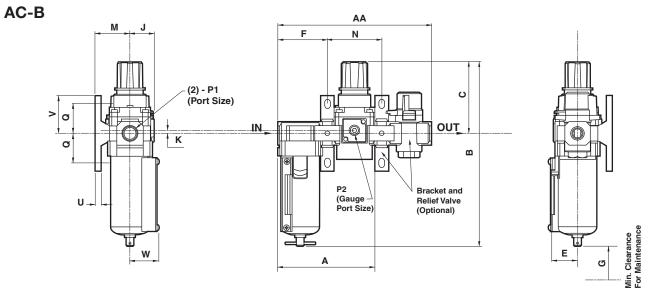
AC-B	A *	AA**	В	С	Е	F	G	J	K	М	N	Q	U	V	W
AC21B	90	140	160	73	_	45.5	40	26	5	30	51	24	5	33	_
AC31B	117	181	220	86	30	58.5	55	29.5	3.5	41	64	35	7	45	34.5
AC41B	154	238	239	92	38	75.5	80	37.5	1.5	50	81	40	7	50	41

^{*} Without relief valve option ** With relief valve option

Series AC21~41 ER.L. Unit

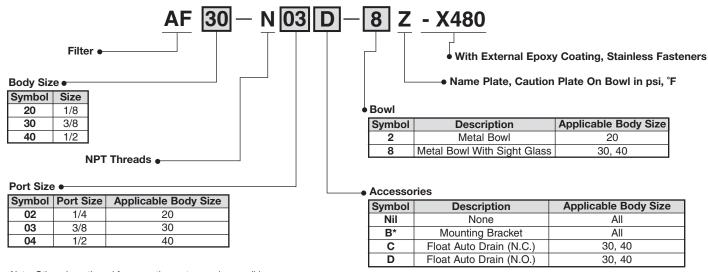






Notes: Filter & Filter Regulator Bowls depict manual drain, see individual sections for details with auto-drain options.

How To Order



Note: Other sizes, thread forms, options, etc. may be possible, please contact SMC for availability.

*Note: Bracket is not assembled and is supplied loose at time of shipment.



Specifications

Body size	20	30	40										
Operating specifications	Same as standar	d - see catalog ES40	0-42D or NC160A										
Port size	1/4" NPT	3/8" NPT	1/2" NPT										
Auto drain port	N/A	1/4"	NPT										
Bowl type	Metal	Metal with s	sight gauge										
Body material	Die cast aluminum												
Bowl material	Die cast aluminum Die cast aluminum												
Body, Bowl surface treatment		Epoxy resin coating											
Manual drain (AF, AW)		POM											
External screws		Stainless steel 410											
Individual mounting brackets		Epoxy coated steel											
Sight glass hardware		Stainless steel 304											

Dimensions - Refer to drawings on page 5

Standard

																			111111
Madal	Port Size									Dime	nsion	S							Mounting Bracket Kit
Model	Α	С	D	Е	F	G	Н	J	K	L	M	N	Р	Q	R	S	Т	W	(Optional)
AF20	NPT 1/4	40	97	10	40	_	18	30	27	22	5.4	8.4	40	2.3	26	32	M4 X 0.7	_	AF20P-050AS-X480
AF30	NPT 3/8	53	149	14	53	57	16	41	40	23	6.5	8	53	2.3	35	44	M4 X 0.7	34.5	AF30P-050AS-X480
AF40	NPT 1/2	70	185	18	70	73	17	50	54	26	8.5	10.5	70	2.3	47	60	M5 X 0.8	41	AF40P-050AS-X480

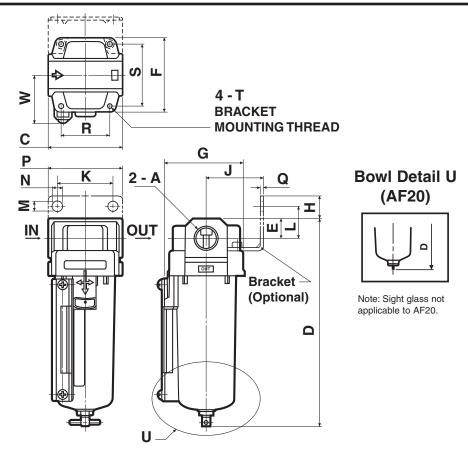
Auto Drain

mm

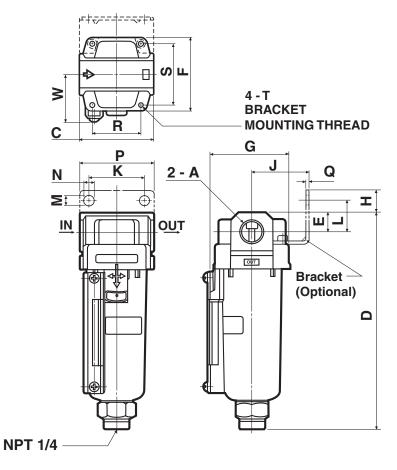
Madal	Port Size									Dime	nsion	IS							Mounting Bracket Kit
Model	Α	С	D	Е	F	G	Н	J	K	L	M	N	Р	Q	R	S	Т	W	(Optional)
AF30	NPT 3/8	53	158	14	53	57	16	41	40	23	6.5	8	53	2.3	35	44	M4 X 0.7	34.5	AF30P-050AS-X480
AF40	NPT 1/2	70	194	18	70	73	17	50	54	26	8.5	10.5	70	2.3	47	60	M5 X 0.8	41	AF40P-050AS-X480

Series AF20~40 Filter

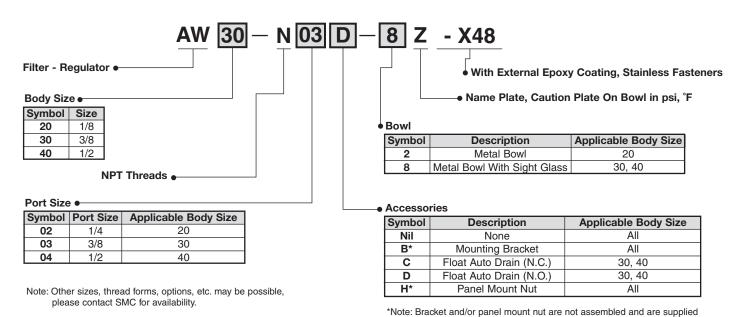
Standard (Manual Drain)

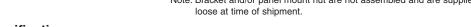


With Auto Drain



How To Order







Specifications

<u> </u>													
Body size	20	30	40										
Operating specifications	Same as standar	d - see catalog ES40	0-42D or NC160A										
Port size	1/4" NPT	3/8" NPT	1/2" NPT										
Auto drain port	N/A	1/4"	NPT										
Bowl type	Metal	Metal with s	sight gauge										
Body material	Die cast aluminum Die cast aluminum												
Bowl material	Die cast aluminum												
Body, Bowl surface treatment													
Bonnet		Polyacetal											
Manual drain (AF, AW)		POM											
External screws		Stainless steel 410											
Individual mounting brackets		Epoxy coated steel											
Panel mount nut		POM											
Sight glass hardware		Stainless steel 304											

Accessories

Model	Mounting Bracket Kit (Optional)	Panel Mounting Nut (Optional)
AW20	AW20P-270AS-X480	AR20P-260S
AW30	AR30P-270AS-X480	AR30P-260S
AW40	AR40P-270AS-X480	AR40P-260S

Dimensions - Refer to drawings on page 7

Standard

mm

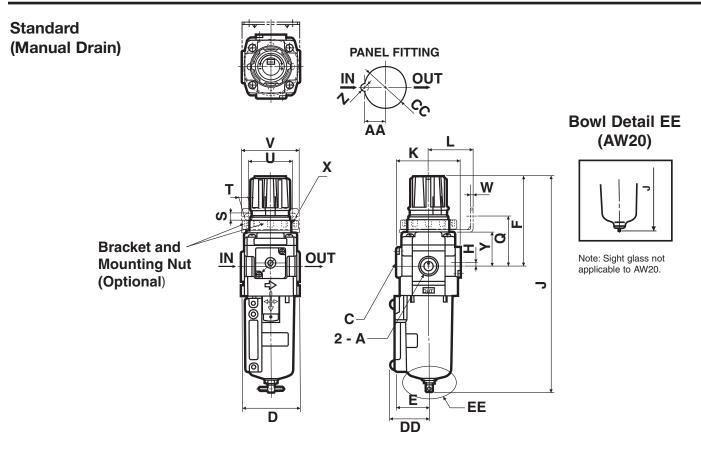
Madal	Port Size	Gauge Port						D	ime	nsio	ns										
Model	Α	С	D	DD	Е	F	Н	J	K	L	Q	S	Т	U	٧	W	Х	Υ	Z	AA	CC
AW20	NPT 1/4	NPT 1/8	40		_	70(max.73)	5	157(max.160)	52	30	44	5.4	15.4	34	55	2.3	M28 X 1	30	6	14	28.5
AW30	NPT 3/8	NPT 1/8	53	34.5	30	83(max.86)	3.5	218(max.221)	59	41	46	6.5	8	40	53	2.3	M38 X 1.5	31	7	19	38.5
AW40	NPT 1/2	NPT 1/4	70	41	38	88(max.92)	1.5	255(max.259)	75	50	54	8.5	10.5	54	70	2.3	M42 X 1.5	35.5	7	21	42.5

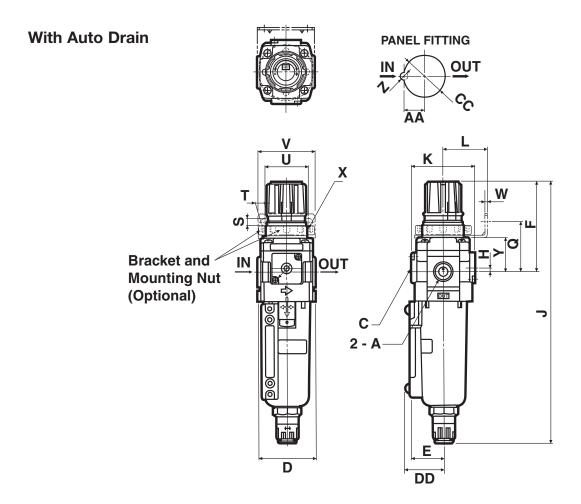
Auto Drain

r	r	١	r	۲	١	

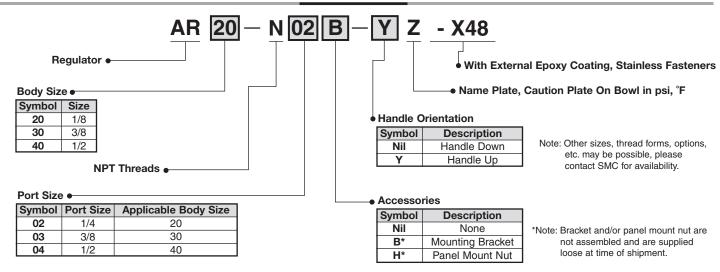
Madal	Port Size	Gauge Port						D	ime	nsio	ns										
Model	Α	O	D	DD	Е	F	Н	J	K	L	Q	S	Т	U	٧	W	Х	Υ	Z	AA	CC
AW30	NPT 3/8	NPT 1/8	53	34.5	30	83(max.86)	3.5	239(max.242)	59	41	46	6.5	8	40	53	2.3	M38 X 1.5	31	7	19	38.5
AW40	NPT 1/2	NPT 1/4	70	41	38	88(max.92)	1.5	276(max.280)	75	50	54	8.5	10.5	54	70	2.3	M42 X 1.5	35.5	7	21	42.5

Series AW20~40 Filter - Regulator





How To Order





Specifications

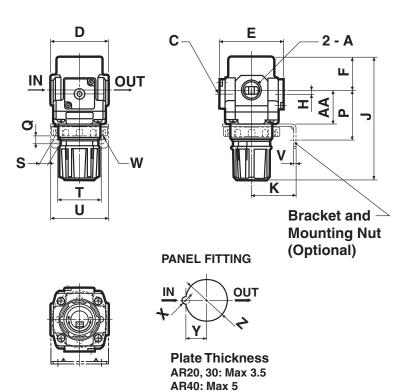
Body size	20	30	40
Operating specifications	Same as standar	d - see catalog ES40	0-42D or NC160A
Port size	1/4" NPT	3/8" NPT	1/2" NPT
Body material		Die cast aluminum	
Body, Bowl surface treatment		Epoxy resin coating	
Bonnet		Polyacetal	
Individual mounting brackets		Epoxy coated steel	
Panel mount nut		POM	

Dimensions

																					1111111
Madal	Port Size	Gauge Port								Dime	ensio	ns									
Model	Α	С	D	Е	F	Н	J	K	L	М	Р	Q	S	Т	U	٧	W	Х	Υ	Z	AA
AR20	NPT 1/4	NPT 1/8	40	57	26.5	-2	91(max.94)	30	65	37.5	44	5.4	15.4	34	55	2.3	M28 X 1	6	14	28.5	25
AR30	NPT 3/8	NPT 1/8	53	59	31	3.5	113(max.116)	41	66	37.5	46	6.5	8	40	53	2.3	M38 X 1.5	7	19	38.5	31
AR40	NPT 1/2	NPT 1/4	70	68	36	3.5	124(max.128)	50	74	42.5	54	8.5	10.5	54	70	2.3	M42 X 1.5	7	21	42.5	35.5

Accessories

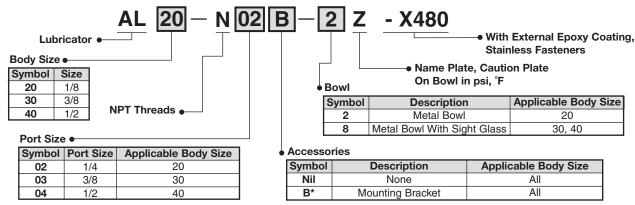
Model	Mounting Bracket Kit (Optional)	Panel Mounting Nut (Optional)
AR20	AR20P-270AS-X48	AR20P-260S
AR30	AR30P-270AS-X48	AR30P-260S
AR40	AR40P-270AS-X48	AR40P-260S



mm

Series AL20~40 Luhricator

How To Order



*Note: Bracket is not assembled and is supplied loose at time of shipment.

Polycarbonate

Stainless steel 304

Note: Other sizes, thread forms, options, etc. may be possible, please contact SMC for availability.



Specifications

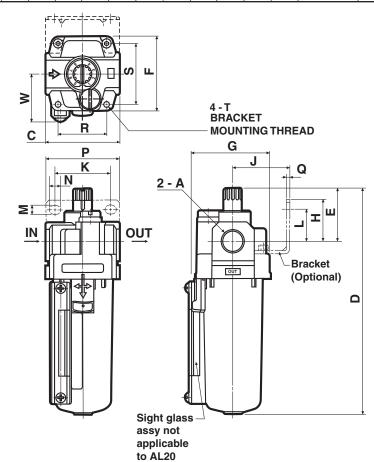
Sight glass hardware

Body size 20 30 Operating specifications Same as standard - see catalog ES40-42D or NC160A Port size 1/4" NPT 3/8" NPT 1/2" NPT Metal **Bowl type** Metal with sight gauge **Body material** Die cast zinc Die cast aluminum **Bowl material** Die cast aluminum Body, Bowl surface treatment Epoxy resin coating Individual mounting brackets Epoxy coated steel Fill plug Stainless steel 304 Sight dome

Dimensions

mm

Madal	Port Size									Dime	nsion	ıs							Mounting Bracket Kit
Model	Α	С	D	Е	F	G	Н	J	K	L	М	N	Р	Q	R	S	Т	W	(Optional)
AL20	NPT 1/4	40	121	36	40	_	28	30	27	22	5.4	8.4	40	2.3	26	32	M4 X 0.7	_	AF20P-050AS-X480
AL30	NPT 3/8	53	162	38	53	57	30	41	40	23	6.5	8	53	2.3	35	44	M4 X 0.7	34.5	AF30P-050AS-X480
AL40	NPT 1/2	70	196	40	70	73	35	50	54	26	8.5	10.5	70	2.3	47	60	M5 X 0.8	41	AF40P-050AS-X480



Residual Pressure Relief 3 Port Valve (V)

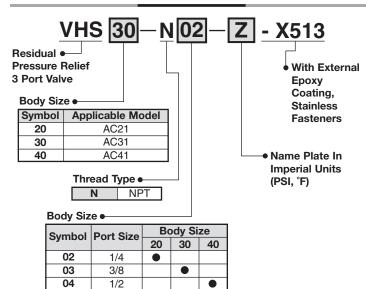
With the use of a 3 port valve for residual pressure release, pressure left in the line can be easily exhausted.



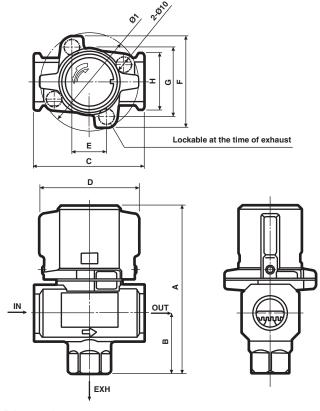
Model	Port S	Size	Effective area mm ² (Cv)					
wodei	IN, OUT	EXH	IN to OUT	OUT to EXH				
VHS20	1/4	1/8	14 (0.76)	16 (0.87)				
VHS30	3/8	1/4	31 (1.68)	29 (1.57)				
VHS40	1/2	3/8	55 (2.98)	42 (2.28)				

Paint color (Standard) Handle: Red Body: Platinum silver Use an air filter on the IN side for operating protection.

How To Order



Note: Other sizes, thread forms, options, etc. may be possible, please contact SMC for availability.



Dimensions

mm

Model	Α	В	С	D	E	F	G	Н	I
VHS20	59	20	40	34	_	45	33	28	45
VHS30	78	29	53	46	_	55	42	30	55
VHS40	107	39	70	63	22	58	44	36	63

Caution

• If a stop valve or a silencer is connected to the exhaust port of VHS20/30, the effective sectional area should be larger than the figure indicated in the following table, to prevent malfunction caused by back pressure. (This is not applicable to VHS40)

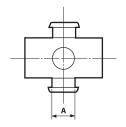
	Model	Effective area (mm²)
	VHS20	5
1	VHS30	5

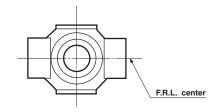
• If unit is to be used in a washdown application, avoid directing fluid into the exhaust port.

Spacer

Epoxy Coated Aluminum, Stainless Screws, NBR Seals







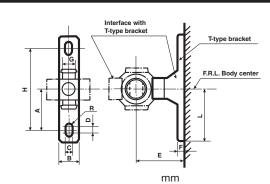
Dimensions

	mm
Model	Α
Y20-T4	10
Y30-T4	11
Y40-T4	14

Interface With T Bracket

Epoxy Coated Aluminum, Stainless Screws, NBR Seals





Dimensions

Interface With T Bracket	А	В	С	D	E	F	G	н	R	L	Applicable Models
Y20T-T4	24	15	5.5	3	30	5	10	48	2.75	33	AC21*-X2217
Y30T-T4	35	16	7	4	41	7	11	70	3.5	45	AC31*-X2217
Y40T-T4	40	22	9	4	50	7	14	80	4.5	50	AC41*-X2217

Other Available Air Line Products with Epoxy Coating/Stainless Hardware

Series	Description	Option Code
(N)AV	Soft Start Valve	X480
AMG	Water Removal Filter	X229
AR20-60	Regulator with Stainless T-handle, aluminum bonnet for UV resistance	X480
AVL	Soft Start Valve with Pilot Lock-Out	X480
AW20-40	Filter-Regulator with Stainless T-handle, aluminum bonnet for UV resistance	X480
E*00	Piping Adapter	X480
Y*10	T Interface	X480
Y*4	Cross Interface	Т3

Please contact SMC for ordering information

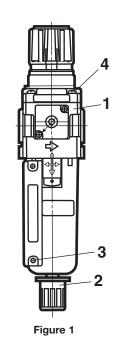
Salt Spray Test Results (for reference)

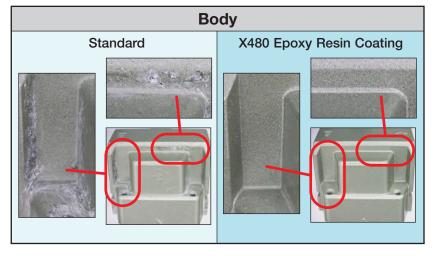
1. Test Conditions

- **1) Method:** In compliance with ASTM B117-07a (JIS Z 2371), leave parts in a salt spray test chamber, and compare rust generation.
- 2) Conditions: Temperature: 95°F (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 pieces for each

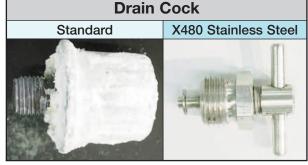
2. Test Results Table 1 Salt spray resistance test results

No.	Description	Туре		Material & Treatment	Results
1	Pody	A Standard		Material: Die Cast Aluminum Treatment: Platinum Coating	Rusted in 480hrs Part of coating swelled
'	Body		Special X480	Material: Die Cast Aluminum Treatment: Platinum & Epoxy Coating	Not rusted in 1000hrs Part of coating swelled
	Ducin cools	A Standard		Material: Die Cast Aluminum Treatment: Zinc Chromate	Rusted in 24hrs
2	Drain cock	В	Special X480	Material: SUS	Not rusted in 1000hrs
3	Cross recessed round head		Standard	Material: Steel Treatment: Nickel Plating	Rusted in 24hrs
3	screw for metal bowl with level gauge	В	Special X480	Material: SUS	Not rusted in 1000hrs
1	Self-tapping screw for AR and AW bonnet	Α	Standard	Material: Steel Treatment: Zinc Chromate	Rusted in 24hrs
4		В	Special X480	Material: SUS	Not rusted in 1000hrs





Screw								
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.