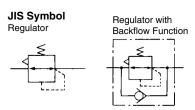
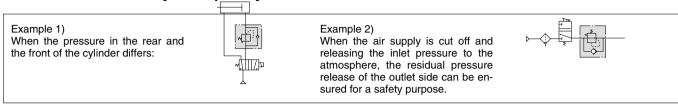
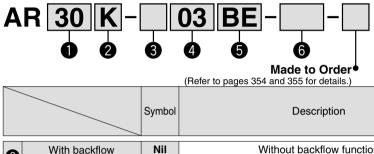
Regulator AR10 to AR60 Regulator with Backflow Function AR20K to AR60K



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



How to Order



- 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) AR30K-03BE-1NR

					(Refer to pages 354 and 355 for details.)							
Symbo						0						
				Symbol	Description	Body size						
						10	20	25	30	40	50	60
A		Wit	th backflow	Nil	Without backflow function	•	•	•	•	•	•	•
2			function	K Note 1)	With backflow function		•	•	•	•	•	•
+												
				Nil	Metric thread (M5)			_	_	_	_	_
8		Τŀ	read type		Rc		•	•	•	•	•	
9		- ''	ileau type	N	NPT	_	•	•	•	•	•	
				F	G		•	•	•	•	•	
+												
				M5	M5			_	_	_	_	
				01	1/8		•	_	_	_	_	
				02	1/4	_	•	•	•	•	_	_
4	Port size			03	3/8	_	_	•	•	•	_	
				04	1/2		_	_	_	•	_	
				06	3/4		_	_	_	•	•	
				10	1	_	_	_	_	_	•	
+												
		а	Mounting	Nil	Without mounting option	•	•	•	•	•	•	•
				B Note 3)	With bracket		•	•	•	•	•	
				Н	With set nut (for panel fitting)		•	•	•	•	_	_
	Option Note 2)			+								
		b	Pressure gauge	Nil	Without pressure gauge		•	•	•	•	•	•
				E	Square embedded type pressure gauge (with limit indicator)	_	•	•	•	•	•	•
				G	Round type pressure gauge (without limit indicator)	•	_	_	_	_	_	_
					Round type pressure gauge (with limit indicator)	_	•	•	•	•	•	•
				M	Round type pressure gauge (with color zone)		•	•	•	•	•	
			Digital pressure switch	E1 Note 4)	Output: NPN output / Electrical entry: Wiring bottom entry		•	•	•	•	•	
				E2 Note 4)	Output: NPN output / Electrical entry: Wiring top entry		•	•	•	•	•	
				E3 Note 4)	Output: PNP output / Electrical entry: Wiring bottom entry		•	•	•	•	•	
				E4 Note 4)	Output: PNP output / Electrical entry: Wiring top entry		•					

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





AR20, AR20K

AR40, AR40K

						0							
				Symbol	Description	Body size							
						10	20	25	30	40	50	60	
			Cot proceuro	Nil Note 5)	0.05 to 0.85 MPa setting		•	•	•	•	•		
		С	Set pressure	1 Note 6)	0.02 to 0.2 MPa setting			•	•	•	•	•	
	Semi-standard	+											
		d	Exhaust	Nil	Relieving type		•	•	•	•	•		
			mechanism	N	Non-relieving type		•	•	•	•	•	•	
				+									
		e	Flow direction Nil		Flow direction: Left to right			•	•	•	•	•	
6		-	riow direction	R	Flow direction: Right to left		•		•	•	•	•	
		+											
	Se	6 _f	Knob Nil		Downward			•	•	•	•	•	
		•	KIIOD	Υ	Upward			•	•	•	•	•	
			Pressure unit	Nil	Name plate and pressure gauge in imperial units: MPa		•	•	•	•	•		
		g		Z Note 7)	Name plate and pressure gauge in imperial units: psi	ONot	9) Note	9) Note 9)	Note 9)	Note 9)	Note 9)	Note 9)	
						ZA Note 8)	Digital pressure switch: With unit conversion function	_	△Note 1) \(\rightarrow \text{Note 10} \)	△Note 10)	△Note 10)	△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. 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 simultane-

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.

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) \bigcirc : For thread type: M5 and NPT only

Note 10) \triangle : 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 \(\ell \)min (ANR)]									
Construction	Relieving type									
Mass (kg)	0.06	0.26	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.

Note 4) Not applicable to the AR10.



AC

 $AF \square$

AR

 $AW \square$

A□G

ΑV AF800 AF900