Regulator

AR20-B to AR60-B **Regulator with Backflow Function** AR20K-B to AR60K-B



Symbol

Regulator with **Backflow Function**



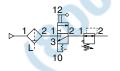
• With the backflow function, it incorporates a mechanism to exhaust the air pressure in the outlet side reliably and quickly.

Example 1) When the pressure in the rear and the front of the cylinder differs:



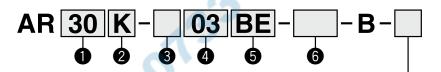
Example 2)

When the air supply is cut off and releasing the inlet pressure to the atmosphere, the residual pressure release of the outlet side can be ensured for a safety purpose.



How to Order

Refer to page 65 for size 10.



- 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-B

Made to order

(Refer to pages 77 to 79 for details.)

	_	6				0					
			Symbol	Description			Body	/ size			
					20	25	30	40 🗸	50	60	
	3	With backflow	Nil	Without backflow function	•	•	•			•	
2		function	K*1	With backflow function		•	•		•	•	
			+	THE BOOKIET ISHISISI							
			Nil	Rc	•	•			•	•	
3	Pipe thread type			NPT	•	•		•	•	•	
•		po odd typo	N F	G		•	•	•	•	•	
			+	-							
			01	1/8	• 4		_	_	_		
			02	1/4			•	•	_		
			03	3/8	7.45	•	•	•	_		
4	4 Port size			1/2		_	_	•	_		
				3/4	> _	<u> </u>	_	•	•		
			06 10	1	_	<u> </u>	_	_	•	•	
			+			1		1			
			Nil	Without mounting option	•	•	•	•	•	•	
	Option *2	a Mounting	B *3	With bracket	•	•	•	•	•	• \	
			Н	With set nut (for panel mount)	•	•	•	•	_		
			+								
			Nil	Without pressure gauge	•	•	•	•		•	
		Pressure	E	Square embedded type pressure gauge (with limit indicator)	•	•	•	• (•	
6		gauge *4	G	Round type pressure gauge (with limit indicator)	•	•	•		•	•	
)			M	Round type pressure gauge (with color zone)	•	•	•		•	•	
		b	E1	Output: NPN output, Electrical entry: Wiring bottom entry	•	•		•	•	•	
		Digital	E2	Output: NPN output, Electrical entry: Wiring top entry	•	•		•	•	•	
		pressure switch *5	E3	Output: PNP output, Electrical entry: Wiring bottom entry	•	•		•	•	•	
		OWILOT	E4	Output: PNP output, Electrical entry: Wiring top entry	•	•	•	•	•	•	
		660		SMC	13	3				6	
67				CANC							

Regulator AR20-B to AR60-B Series Regulator with Backflow Function AR20K-B to AR60K-B Series





AR20-B, AR20K-B **AR40-B, AR40K-B**

	Symbol				Description	Body size						
					-6		25	30	40	50	60	
	Semi-standard	С	Set	Nil	0.05 to 0.85 MPa setting	•	•	•	•	•	•	
			pressure *6	1	0.02 to 0.2 MPa setting	•	•	•	•	•	•	
1		+										
		d	Exhaust	Nil	Relieving type	•	•	•			•	
		u	mechanism	N	Non-relieving type	•	•	•		•	•	
				+								
4		е	Flow direction Nil		Flow direction: Left to right	•	•			•	•	
6			1 low direction	R	Flow direction: Right to left	•	•		•	•	•	
		+										
		f	Knob	Nil	Downward	•	•	•	•	•	•	
			TATIOD	Υ	Upward	• 🗾		•	•	•		
					7							
		g		Nil	Name plate and pressure gauge in SI units: MPa		•	•	•	● ○* ⁹	•	
			Pressure unit	Z *7							○*9	
				ZA*8	Digital pressure switch: With unit selection function	△*10	△*10	△*10	△*10	△*10	△*10	

- *1 Set the inlet pressure to at least 0.05 MPa higher than the set pressure.
- *2 Options B, G, H, M are not assembled and supplied loose at the time of shipment.
- *3 Assembly of a bracket and set nuts (applicable to the AR20(K)-B to AR40(K)-B).
- Including 2 mounting screws for the AR50(K)-B and AR60(K)-B
 *4 When the pressure gauge is attached, a 1.0 MPa pressure gauge will be fitted for standard (0.85 MPa) type. 0.4 MPa pressure gauge for 0.2 MPa type.
- *5 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.)
- *6 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.
- *7 For pipe thread type: NPT.
 - This product is for overseas use only according to the new Measurement Act. (The SI unit type is provided for use in Japan.)
 - Cannot be used with M: Round type pressure gauge (with color zone). Available by request for special.
 - The digital pressure switch will be equipped with the unit selection function, setting to psi initially.
- *8 For options: E1, E2, E3, E4. This product is for overseas use only according to the new Measurement Act. (The SI unit is provided for use in Japan.)
- *9 O: For pipe thread type: NPT only
- *10 A: Select with options: E1, E2, E3, E4.

Standard Specifications

8001660

•									
Model	AR20-B	AR25-B	AR30-B	AR40-B	AR40-06-B	AR50-B	AR60-B		
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		
Pressure gauge port size *1	1/8								
Fluid	Air								
Ambient and fluid temperature *2	−5 to 60°C (with no freezing)								
Proof pressure	1.5 MPa								
Maximum operating pressure	1.0 MPa								
Set pressure range	0.05 to 0.85 MPa								
Construction	Relieving type								
Weight [kg]	0.16	0.21	0.29	0.44	0.47	1.17	1.22		

^{*1} Pressure gauge connection threads are not available for F.R.L. unit with a square embedded type pressure gauge or with a digital pressure switch.

^{*2 -5} to 50°C for the products with the digital pressure switch