Direct Operated Precision Regulator Modular Style Series ARP3000

- Setting sensitivity: 0.001 MPa
- Can be connected as a module to a mist separator. (AFM30 + ARP3000) (AFD30 + ARP3000)
- Direct-driven, bleed type (With relieving function)



ARP3000-02



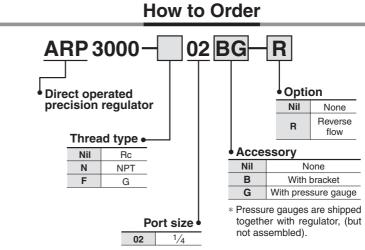
ARP3000-02BG

JIS Symbol



andard Specifications		F.R.L.	
Model	ARP3000		
Port size	1/4		
Fluid	Air		
Proof pressure	1.2 MPa	AU	
Maximum operating pressure	0.8 MPa	AF	
Regulating pressure range	0.005 to 0.3 MPa		
Setting sensitivity	0.001 MPa		
Repeatability	±0.003 MPa		
Air consumption Note)	4 to 6 @min (ANR) (0.3 MPa)	IR	
Pressure gauge port size	1/8		
Ambient and fluid temperature	-5 to 60°C (No freezing)	VEX	
Construction	Bleed type		
Weight (kg)	0.42	- AMR	
Note) Air consumption differs depending on the set pressure.			
- ccessory (Option)/Part No.			

Description		Part no.			
Bracket		B320	VBA		
Pressure gauge (1)	0.4 MPa	G36-4-🗆01			
Note 1) • in the gauge part no. indicates the threads used for connection. For Rc, leave					
 the symbol blank, and for NPT, enter "N". Please contact SMC concerning the supply of NPT pressure gauges. Note 2) Use caution not to tighten excessively when mounting a pressure gauge, otherwise it will may result in a breakdown. (Fastening torque recommended: 7 to 9 N·m.) For sealing, use a pipe tape. 					

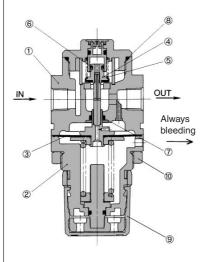


PPA

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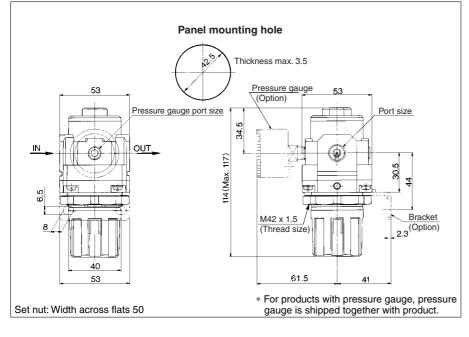
Series ARP3000

Construction



JIS Symbol								
	Description	Material			Note			
1	Body	Aluminum die-casted		s	Platinum silver painted			
2	Bonnet	Aluminum die-casted		В	lack painted			
Replacement Parts								
No.	Description		Material	Material				
3	Diaphragm assembly		Weather resista NBR	ant	1315510A			
4	Valve assembly		Brass, HNBR		1315506A			
(5)	Valve spring		Stainless steel		1315516-2			
6	Valve mini Y packing		NBR		MYN-5			
\bigcirc	O-ring		NBR		JIS B 2401P6			
8	O-ring		NBR		131545			
9	Handle		Polyacetal		1315513			
10	Set nut		Zinc die-caste	ed	131532			

Dimensions



A Precautions

Be sure to read before handling. Refer to pages 14-21-3 to 14-21-4 for Safety Instructions and Common Precautions.

Selection

A Caution

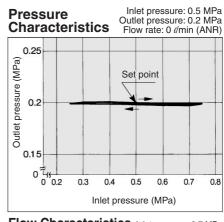
1. Set the output pressure to 90% or less of the inlet pressure.

Failure to observe this procedure could result in an excessive pressure drop.

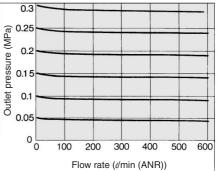
Air Supply

🗥 Warning

- 1. Use a mist separator on the inlet side. If the air contains drain or debris, it could clog the bleed holes and lead to a malfunction.
- **2.** Do not use a lubricator on the inlet side because it could clog the bleed holes and lead to a malfunction.



Flow Characteristics Inlet pressure: 0.7 MPa



▲ Caution

1. 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.

1) Pull the adjustment handle to release the lock. (An orange colored line is provided at the bottom of the adjustment handle for visual checking.)

Push the adjustment handle to engage the lock. If it does not lock easily, turn the handle slightly clockwise or; then, push it until the orange colored line is no longer visible.



- Install the valve guide (on the opposite side of the handle) 60 mm away from the ground surface.
 Maintenance and inspection will be facilitated.
- 3) Air is normally released from the bleed hole.

This is necessary for direct-operated precision regulator construction.

- Please contact SMC if this product is to be used between solenoid valve and actuator.
- 5) Fasten the main body with a set nut tightly and fix it.
 - Recommended torque for set nut: $22.5 \pm 4.5 \text{ N} \cdot \text{m}$

