Manifold Regulator Modular Type ARM2500/3000 Series

- A modular type that can be freely mounted on a manifold station.
- Optimal for central pressure control.
- Easily set up using the new knob. Also has a One-touch lock system.

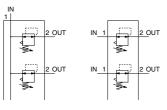




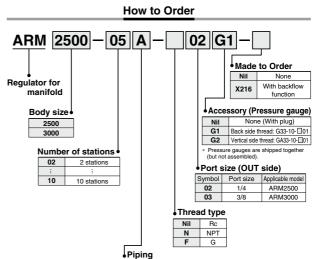
Symbol

Common IN





JIS Symbol With backflow function



	-					
Symbol	Туре	IN				
Α	Common IN	From end plate				
в	Individual IN	From OUT port or G port				

Standard Specifications

Proof pressure	1.5 MPa
Maximum operating pressure	1.0 MPa
Regulating pressure range	0.05 to 0.85 MPa
Ambient and fluid temperature	-5 to 60°C (No freezing)
Fluid	Air
Construction	Relieving type

Port Size/Weight

			Port size		Pressure	Weight (kg)		
Model	Piping	IN s	side	OUT side	gauge	Regulator	End plate	
		Body	End plate	OUT SIDE	port size	neguiator	Enu piale	
ARM2500	Common IN	_	3/8	1/4	1/8	0.26	0.06	
AHM2500	Individual IN	1⁄4	—	1/4	1/8	0.20		
ARM3000	Common IN	_	1/2	3/8	1/8	0.47	0.11	
Anivi3000	Individual IN	3/8		3/8	1⁄8	0.47	0.11	

Weight by the Number of Stations

Weight by	the N	lumbe	er of S	Statio	าร				(kg)
Model	2	3	4	5	6	7	8	9	10
ARM2500	0.68	0.96	1.23	1.51	1.78	2.06	2.33	2.61	2.89
ARM3000	1.25	1.75	2.25	2.75	3.26	3.76	4.26	4.76	5.26

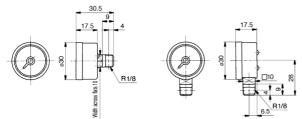


Manifold Regulator ARM2500/3000 Series

Option: Pressure Gauge (Max. pressure indication: 1.0 MPa)

G33-10-□01





Note 1) [] in the gauge part no. (e.g. G33-10- []01) indicates the type of threads used for connection. For Rc, leave the symbol blank, and for NPT, enter "N". Please consult with SMC for the supply of a pressure gauge with NPT port threads. Note 2) Use caution not to tighten excessively when mounting a pressure gauge, otherwise it will may result

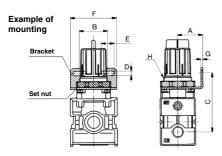
in a breakdown. For sealing, use a sealant tape.

Option/Mounting Bolt Assembly

Model Part no.		Dimensions	Qty.	Note
ARM2500	136313	Hexagon socket head cap screw (M5 x 70)	4	With flat washer
ARM3000	136413	Hexagon socket head cap screw (M6 x 85)	4	With flat washer

Option/Bracket Assembly

Individual IN type can be used as a single unit regulator.

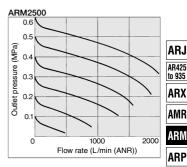


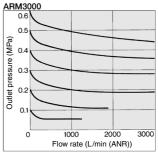
Model	Part no.	Composition of assembly	Α	В	С	D	Е	F	G	Н
ARM2500	136314	Set nut (1349172)		34	70		45.4			
ARIVI2500	130314	Bracket (B220)	30		70	5.4	15.4	55	2.3	M33 x 1.5
ARM3000	100414	Set nut (131532)		40	75.5	0.5		50		
Aniv13000	136414	Bracket (B320)	41	40	75.5	6.5	8	53	2.3	M42 x 1.5

Note) Tighten the set nut securely and fix it. Recommended torque for set nut

ARM2500: 17.5 ± 3.5 N·m ARM3000: 22.5 ± 4.5 N·m

Flow Rate Characteristics (Representative Value) Inlet pressure: = 0.7 MPa





IR -A

IR

IRV

VEX

SRH

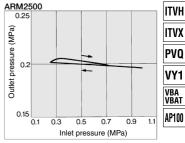
SRP

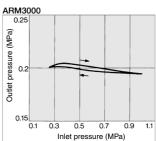
SRF

ITV

IC

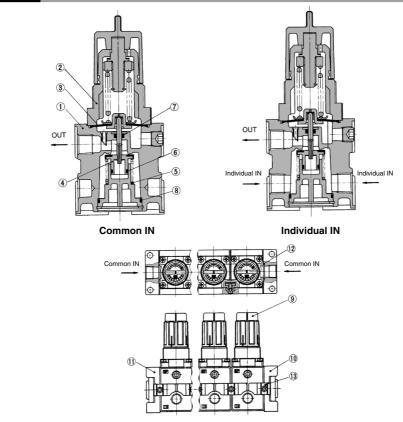






ARM2500/3000 Series

Construction



Component Parts

No.	Description	Material	Note
1	Body	Aluminum die-casted	Chromate treated/Platinum silver painted
2	Bonnet	Polyacetal	

Replacement Parts

No.	Description	Material	Part no.			
	Description	Wateria	ARM2500	ARM3000		
3	Diaphragm assembly	Weather resistant NBR	1349161A	131515A		
4	Valve assembly	Brass, HNBR	13639A	13649A		
5	Valve spring	Stainless steel	136310	136410		
6	Valve O-ring	NBB	KA00892	KA00904		
0	valve O-ring	NDN	11.5 x 8.5 x 1.5	14.5 x 10.5 x 2		
7	O-ring	NBB	KA00078	KA00083		
'	O-ring	NDN	JIS B 2401 P3	JIS B 2401 P5		
8	O-ring	NBB	KA00299	KA00961		
•	0-ning	INDIN	28 x 25 x 1.5	35 x 31 x 2		

Component Parts

		Assembly			Part no.					
Description	No.	_	omponent	Qty.		ARM	2500	ARM3000		
			omponent		у.	Common IN	Individual IN	Common IN	Individual IN	
Regulator	9	R	legulator	1		ARM2500-A-02	ARM2500-B-02	ARM3000-A-03	ARM3000-B-03	
	10	Er	nd plate R	1						
	11	Er	nd plate L	1						
End plate	12		O-ring	1		13636A	13636B	13646A	13646B	
assembly	13	ăt.	Bracket A		2	13030A	(Except O-ring)	100407	(Except O-ring)	
		Bracket	Bracket B	1 set	1 Set 2					
			Hex. socket head cap screw		2					
	12		O-ring	1	_					
Bracket		¥	Bracket A Bracket B Hex. socket		2			136412		
assembly	13	Š		1 set	2	136	312			
		Hex. socket head cap screw		2						

(1) When adding n stations to ARM ²⁵⁰⁰/₃₀₀₀ - □□^A_B

(1) The tacking to statistic to the tacking and the tacking and the tacking and the tacking and tacking and tacking assembly and bracket assembly are assembled to make the manifold of n stations.

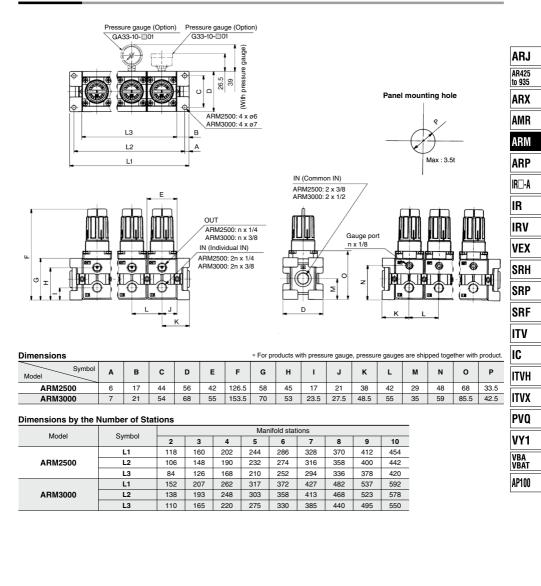
 Regulator n pcs.

n pcs.

- Bracket assembly n pcs
 End plate assembly 1 pc.
- **SMC**

Manifold Regulator ARM2500/3000 Series

Dimensions





ARM2500/3000 Series Specific Product Precautions

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 387 to 391 for Precautions on every series.

SMC

Mounting/Adjustment

≜Caution

- Release the lock to adjust the pressure. After the adjustment, engage the lock. Failure to observe this procedure could damage the knob or cause the secondary pressure to fluctuate.
 - On the ARM2500 type, pull the adjustment knob to release the lock and push the adjustment knob to engage the lock. If it does not lock easily, turn the knob slightly clockwise or counterclockwise before pushing it.
 - On the ARM3000 type, pull the adjustment knob to release the lock. (An orange colored line is provided at the bottom of the adjustment knob for visual checking.)

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

Make sure to check the inlet pressure before setting the pressure. The outlet pressure must be set to 85% or less of the inlet pressure.

Failure to observe this procedure could cause the outlet pressure to fluctuate.

 In the case of the common IN type, supply pressure from the two IN ports from both ends. Failure to observe this procedure could lead to an excessive pressure drop.

Selection

A Warning

 For ARM2500/3000, releasing the inlet pressure does not mean that all residual pressure is released (the outlet pressure cannot be released). When releasing residual pressure, use a manifold regulator with a backflow function (X216).

Maintenance

A Warning

 Make sure to perform a periodic inspection of the pressure gauge when the manifold regulator with a backflow function is installed between a solenoid valve and an actuator. Sudden pressure changes could happen and the durability of the product could be reduced. Using an electronic type pressure gauge is recommended, depending on the situation.