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.





ARM 2500 - 05 02 G1 Made to Order Nil None Regulator for With backflow X216 manifold function Accessory (Pressure gauge) Body size Nil None (With plug) 2500 G1 Back side thread: G33-10- □01 3000 G2 Vertical side thread: GA33-10-□01 Pressure gauges are shipped togethe Number of stations (but not assembled) 02 2 stations Port size (OUT side) Symbol Port size Applicable model 10 10 stations ARM2500 1/4 03 ARM3000 Thread type Nil Rc NPT G Piping Symbol Туре

How to Order

Standard Specifications

p	
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

Common IN

Individual IN

From end plate

From OUT port or G port

(ka)

Symbol

Common IN Individual IN

IN

1

2 OUT

IN 1

2 OUT

2 OUT

2 OUT

2 OUT

JIS Symbol With backflow function

Port Size/Weight

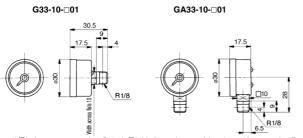
			Port size		Pressure	Weigl	nt (kg)
Model	Piping	IN side		OUT side	gauge	Regulator	End plate
		Body	End plate	OUT Side	port size	negulator	End plate
ARM2500	Common IN	_	3/8	1/4	1/8	0.26	0.06
Anivizatio	Individual IN	1/4	_	1/4	1/8	0.26	0.06
ARM3000	Common IN	_	1/2	3/8	1/8	0.47	0.11
ARM3000	Individual IN	3/8	_	3/8	1/8	0.47	0.11

Weight by the Number of Stations

					-				(3)
Model Stations	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)



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.

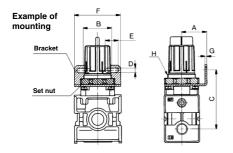
Note 2) Use caution not to tighten excessively when mounting a pressure gauge, otherwise it will may result in a breakdown. For sealing, use a sealant tape.

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

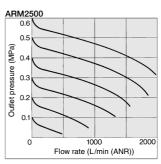
Individual IN type can be used as a single unit regulator.



Model	Part no.	Composition of assembly	Α	В	С	D	Е	F	G	Н
ADMOSOO	136314	Set nut (1349172)			70	- A	45.4			
ARM2500	130314	Bracket (B220)	30	34	70	5.4	15.4	55	2.3	M33 x 1.5
ARM3000 136414		Set nut (131532)	١							
ARIVISUUU	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



ARJ AR425 to 935

ARX

AMR

ARM

ARP

IR□-A

IR

IRV VEX

SRH

SRP

SRF

ITV

IC

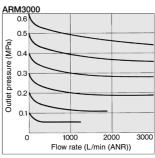
ITVH

ITVX

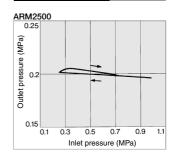
PVQ

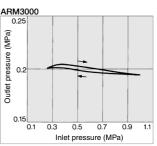
VY1 VBA VBAT

AP100



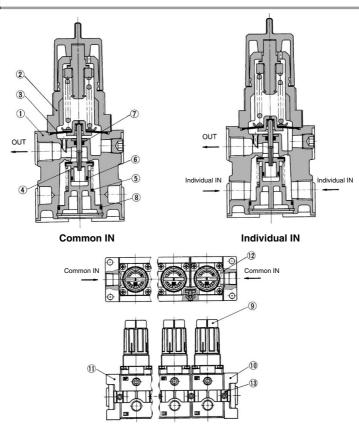






ARM2500/3000 Series

Construction



Component Parts

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

Replacement Parts

No.	Description	Material	Par	t no.		
140.	Description	Maleriai	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	NBR	KA00892	KA00904		
	valve O-ring	NBH	11.5 x 8.5 x 1.5	14.5 x 10.5 x 2		
7	O-ring	NBR	KA00078	KA00083		
,	O-ring	INDI	JIS B 2401 P3	JIS B 2401 P5		
8	O-rina	NBR	KA00299	KA00961		
	O-rilig	INDIN	28 x 25 x 1.5	35 x 31 x 2		

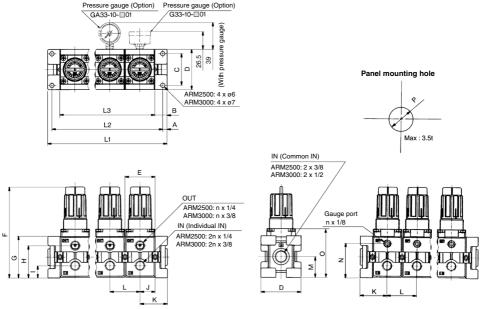
Component Parts

11	Re	mponent	Qt	y.	ARM Common IN	2500	ARM	3000		
10	Re	egulator		у.	Common IN			ARM3000		
10	End	•	1		COMMINION	Individual IN	Common IN	Individual IN		
11			٠.		ARM2500-A-02	ARM2500-B-02	ARM3000-A-03	ARM3000-B-03		
-		End plate R								
	End	d plate L	1				13646A	13646B (Except		
12	(O-ring			13636A	13636B				
Π.	اید	Bracket A	. 2		13030A	(Except				
١3 .	홄	Bracket B	1 set	1 set 2		O-ring)		O-ring)		
13 6	۾ ۾	Hex. socket nead cap screw	001	2				1		
12	-	0-ring	1							
١,	اپ	Bracket A		2						
13	옹	Bracket B	1 set 2		136	312	136	412		
	g h	Hex. socket nead cap screw								
thinby 13 by Bracket 1 by Brack				O-ring 1 Bracket A Bracket B Hex. socket head cap screw	Property of the state of the st	O-ring 1	O-ring 1 Bracket A Bracket B Set 2 136312 Head cap screw 2	O-ring 1 Bracket A 1 2 Bracket B set 2 Hex socket head cap strew 2		

- (1) When adding n stations to ARM $^{2500}_{3000}$ $\square\square^{A}_{B}$
- Regulator n pcs.
 Bracket assembly n pcs.
 When regulators, end plate assembly and bracket assembly are assembled to make the manifold of n stations.
 - Regulator n pcs.
 - Bracket assembly n pcs.
- End plate assembly 1 pc.

Manifold Regulator ARM2500/3000 Series

Dimensions



Dimensions

* For products with pressure gauge, pressure gauges are shipped together with product.

Difficitations							. o. p.	oudoto	p. 0000	gaage	, p. 000u.	o gaago.	o a. o op	pou loge		product.	- 1
Model Symbol	Α	В	С	D	E	F	G	н	ı	J	к	L	М	N	0	Р	ĺ
ARM2500	6	17	44	56	42	126.5	58	45	17	21	38	42	29	48	68	33.5	i
ARM3000	7	21	54	68	55	153.5	70	53	23.5	27.5	48.5	55	35	59	85.5	42.5	
ARIVISUUU	/	21	54	00	၁၁	153.5	70	53	23.5	27.5	46.5	၁၁	35	59	65.5	42.5	

Dimensions by the Number of Stations

Model	Cumbal			ions							
Wodei	Symbol	2	3	4	5	6	7	8	9	10	
ARM2500	L1	118	160	202	244	286	328	370	412	454	
	L2	106	148	190	232	274	316	358	400	442	
	L3	84	126	168	210	252	294	336	378	420	
ARM3000	L1	152	207	262	317	372	427	482	537	592	
	L2	138	193	248	303	358	413	468	523	578	
	L3	110	165	220	275	330	385	440	495	550	

ARJ AR425 to 935

ARX

AMR ARM

ARP

IR□-A

IRV VEX

SRH SRP

SRF

ITV IC

ITVH ITVX

PVQ

VY1 VBA VBAT

AP100



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.

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

⚠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

⚠ Warning

1. 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.

