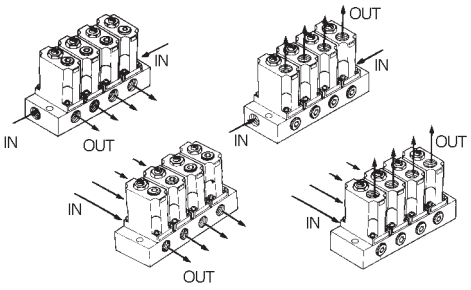
Regulator Manifold
ARM1000/2000

4 connection methods

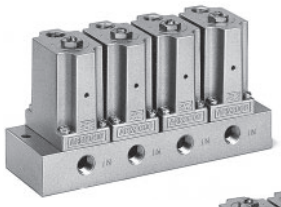


Small size pressure gauge ø15

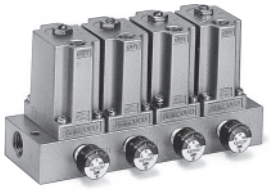
Backflow function available on the standard model

Space saving

ARM1000-6A1-01G

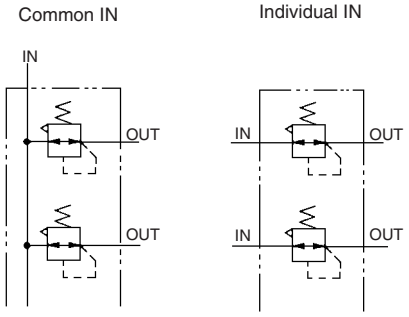


ARM2000-4B2



ARM2000-4A2-01G

Symbol



Standard Specifications

Fluid	Air
Proof pressure	1.2MPa
Max. operating pressure	0.8MPa
Set pressure range	0.05 to 0.7MPa
Ambient and fluid temperature	–5 to 60°C
Cracking pressure (Valve)	0.02MPa
Construction	Relieving style

Port Size/Weight

Model	Piping	Port size		Weight (g)	
		IN	OUT	Total weight (n: stations)	Regulator (Except manifold)
ARM1000	Common IN	1/8	1/8	(80 X n) + 23	57
	Individual IN	1/8	1/8	(79 X n) + 25	
ARM2000	Common IN	1/4	1/8	(188 X n) + 43	136
	Individual IN	1/8	1/8	(187 X n) + 45	

How to Order

ARM 1000 — 5 A1 — □ 01 G — 1

Regulator for manifold

Body size

1000	
2000	

Number of stations

1	1 station
⋮	⋮
10	10 stations

Piping

Symbol	IN	OUT
A1	Common	Manifold side
A2		Body side
B1	Individual	Manifold side
B2		Body side

* In case of A1 and B1, a pressure gauge or a plug is mounted on the body side, while in case of A2 and B2, on the manifold side.
** When mounting a pressure gauge on the body side, its front faces to the adjusting screw.

Port size (OUT side)

01	1/8

Thread

—	Rc(PT)
N	NPT

* In case of a single regulator without a manifold base, indicate "ARM1000A or ARM2000A."
** When a regulator is not mounted on the manifold, use the following blank plate ass'y (with mounting screws and O ring)
For ARM1000: Part no. 136214A
For ARM2000: Part no. 136214A

Option

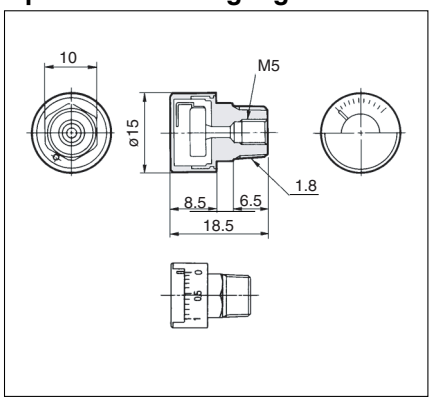
1	Set at 0.2MPa

* Pressure gauge for 1MPa is used.
** Only the adjusting spring is different from the standard model.

Accessory

—	None (with plug)
G	Pressure gauge

Option: Pressure gauge G15-10-01



•Precautions: When drain or oil gets into the gauge, an error is shown on the display.

How to Order

G15 — 10 — □ 01

Max. pressure indication

10	1.0MPa

*Pressure gauge for 0.2MPa

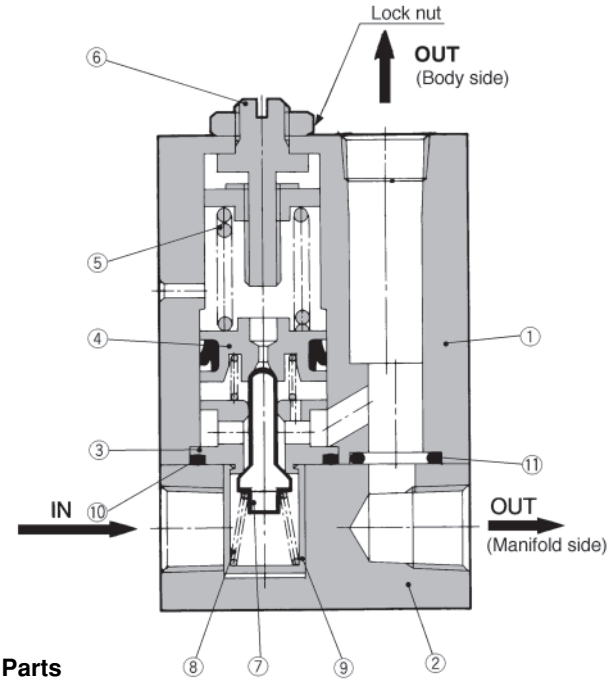
Connecting thread

01	1/8 male thread, M5 female thread

Thread

—	Rc(PT)
N	NPT

Construction (Individual IN)



Component Parts

No.	Description	Material	Note
①	Body	ADC	Chromate
②	Manifold	Aluminum alloy	Chromate
③	Valve guide	Brass	
④	Piston	Brass	
⑤	Adjusting spring	Steel wire	Zinc chromate
⑥	Adjusting screw	Steel	Electroless nickel plated

Replacement Parts

No.	Description	Material	Part no.	
			ARM1000	**ARM2000**
⑦	Valve	Brass/NBR	134819	13626
⑧	Valve spring	Stainless steel	13615	13625
⑨	Valve guide	POM	13614	13624
⑩	O ring	NBR	16.5 X 13.5 X 1.5	23 X 20 X 1.5
⑪	O ring	NBR	JIS B 2401P7	JIS B 2401P8

Setting

①Make sure to check the primary pressure before setting the secondary pressure. Turning the pressure adjustment handle clockwise increases the secondary pressure and turning it counterclockwise decreases the pressure. (To set the pressure, do so in the direction of pressure increase.)
②The secondary pressure must be set to 85% or less of the primary pressure.

⚠ Precautions

Be sure to read before handling.
Refer to p.0-26 and 0-27 for Safety Instructions and common precautions on the products mentioned in this catalogue, and refer to p.1.0-2 and 1.0-3 for precautions on every series.

Mounting/Adjustment

⚠ Warning

①In the case of the common IN style, supply pressure from the two IN ports from both ends. Failure to observe this procedure could lead to an excessive pressure drop.
②Set up the regulator while verifying the pressure that is indicated on the primary and the secondary pressure gauges. Turning the handle excessively could damage the internal parts.

⚠ Caution

①Release the lock to adjust the pressure. After the adjustment, engage the lock. Failure to observe this procedure could damage the handle or cause the secondary pressure to fluctuate.

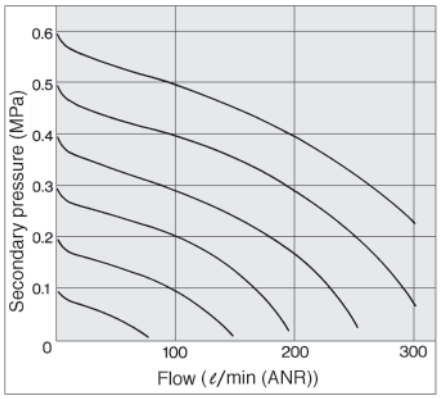
Maintenance

⚠ Warning

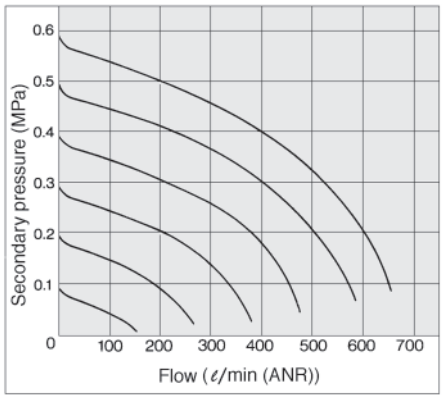
①Make sure to perform a periodic inspection of the pressure gauge when it is used by installing it between a solenoid valve and an actuator, etc.
Because of the possibility of creating sudden pressure fluctuations, the durability of the product could be shortened.
Under certain circumstances, the use of an electronic style pressure gauge is recommended.

Flow Characteristics

ARM1000 Supply pressure: 0.7MPa



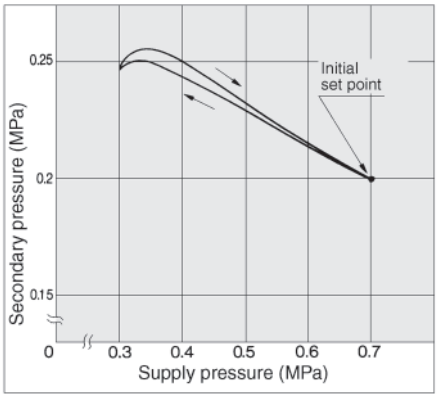
ARM2000



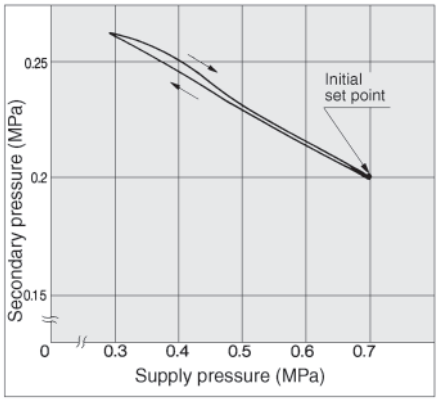
Pressure Characteristics

Initial setting Supply pressure: 0.7MPa
Secondary pressure: 0.2MPa
Flow: 10 ℓ/min (ANR)

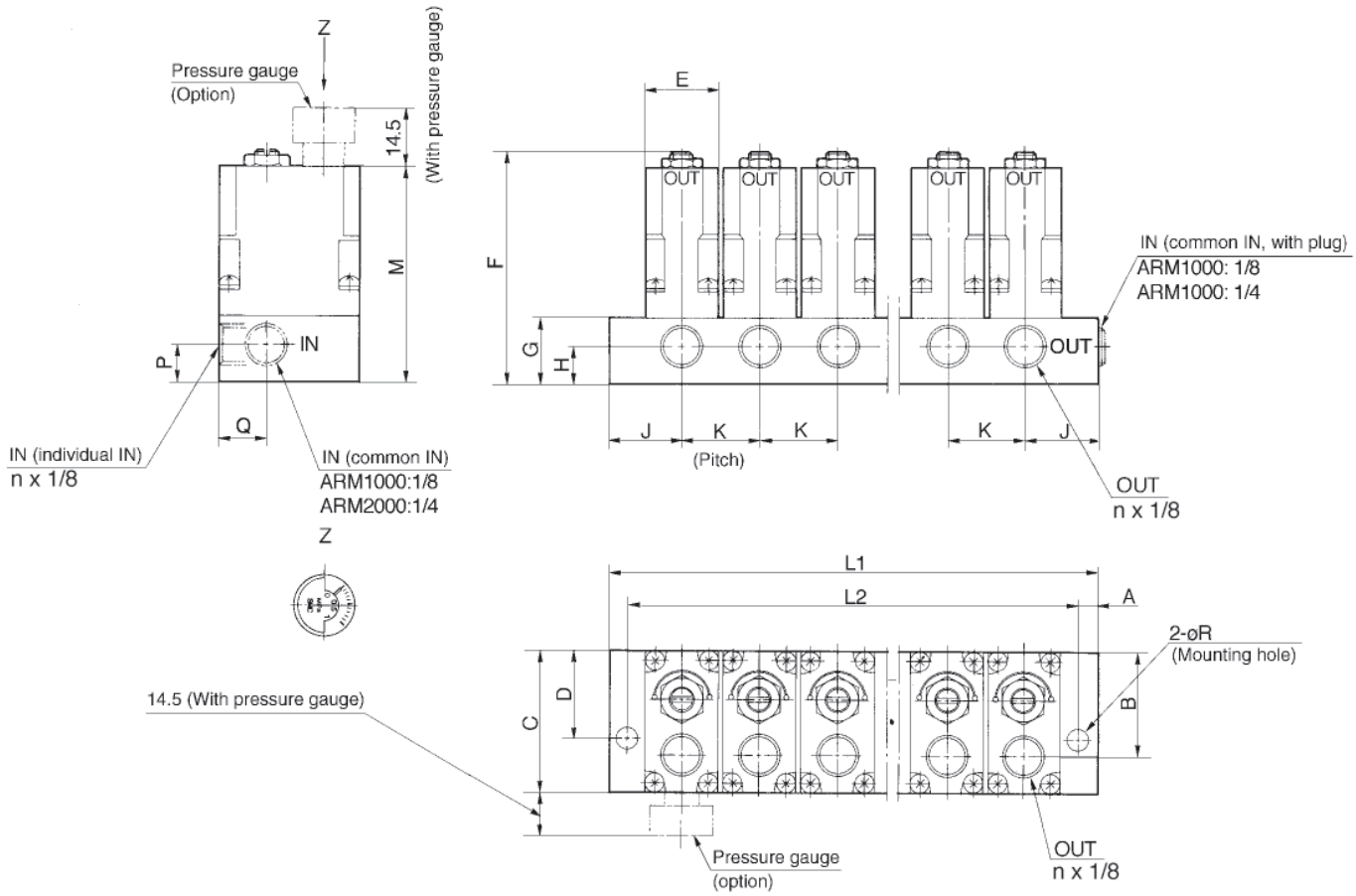
ARM1000



ARM2000



Dimensions



Dimensions

Model \ Symbol	A	B	C	D	E	F	G	H	J	K	M	P	Q	R
ARM1000	4.5	25	34	21	18	56	16	9	18	19	52	9	11.5	4.8
ARM2000	4.5	34.5	43	28	27	70	20	11.5	24	28	66	11.5	16.5	4.8

Dimensions by Number of Stations

Model	Symbol	Manifold stations (n)									
		1	2	3	4	5	6	7	8	9	10
ARM1000	L1	36	55	74	93	112	131	150	169	188	207
	L2	27	46	65	84	103	122	141	160	179	198
ARM2000	L1	48	76	104	132	160	188	216	244	272	300
	L2	39	67	95	123	151	179	207	235	263	291

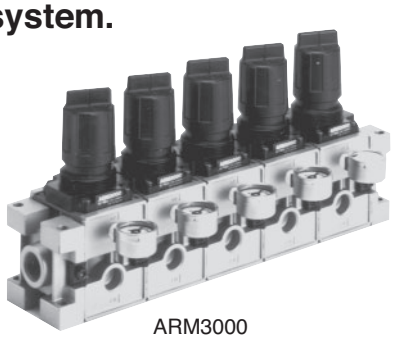
Regulator Manifold Modular Style

ARM2500/3000

A modular style that can be freely mounted on a manifold station.

Optimal for central pressure control.

Easily set up using the new handle.
Also has a One-touch lock system.

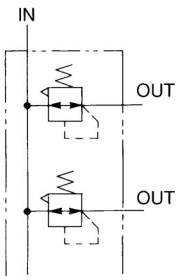


ARM3000

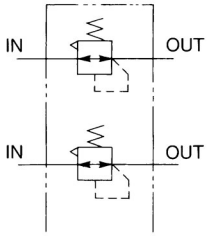
ARM2500

Symbol

Common IN



Individual IN



How to Order

E ARM 2500 — 05 A — F 02 G1

Regulator manifold

Ordering source area code

-	Japan, Asia Australia
E	Europe
N	North America

Body size

2500
3000

Number of stations

02	2 stations
⋮	⋮
10	10 stations

Piping

Symbol	Style	IN
A	Common IN	From end plate
B	Individual IN	From OUT port or G port

-	Rc
E	G
N	NPT

Port size (OUT side)

Symbol	Port size	Applicable model
02	Rc (PT) 1/4	ARM2500
03	Rc (PT) 3/8	ARM3000

Accessories (Options)

—	None (with plug)
G1	G33-10-01
G2	GA33-10-01

*Pressure gauge is attached, not mounted.

Standard Specifications

Proof pressure	1.5MPa
Max. operating pressure	1.0MPa
Set pressure range	0.05 to 0.85MPa
Ambient and fluid temperature	–5 to 60°C(Non-freezing)
Fluid	Air
Construction	Relieving style

Port Size/Weight

Model	Piping	Port size Rc(PT)			Pressure gauge port size Rc(PT)	Weight (kg)	
		IN		OUT		Regulator	End plate
		Body	End plate				
ARM2500	Common IN	—	3/8	1/4	1/8	0.26	0.06
	Individual IN	1/4	—	1/4	1/8		
ARM3000	Common IN	—	1/2	3/8	1/8	0.47	0.11
	Individual IN	3/8	—	3/8	1/8		

Weight by Number of Stations

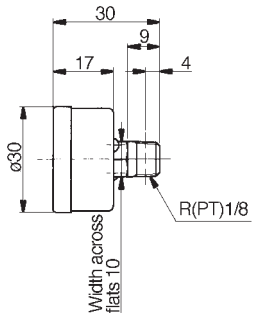
(kg)

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

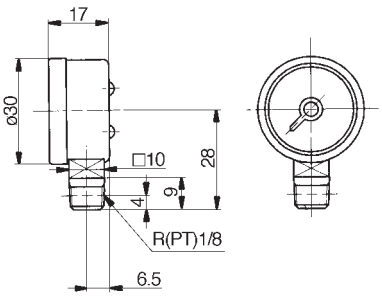
ARM2500/3000

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

G33-10-01



GA33-10-01



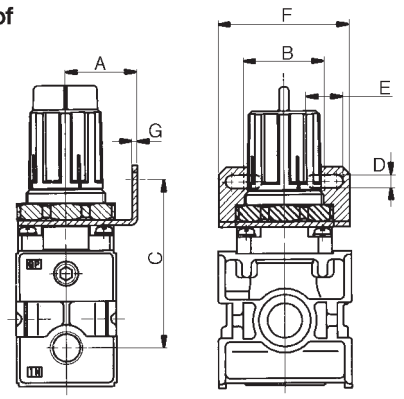
Option: Mounting Bolt Assembly

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 style can be used as a single regulator.

Example of mounting



Model	Part No.	A	B	C	D	E	F	G
ARM2500	136314	30	34	70	5.4	15.4	55	2.3
ARM3000	136414	41	40	75.5	6.5	8	53	2.3

⚠Precautions

Be sure to read before handling.
Refer to p.0-26 and 0-27 for Safety Instructions and common precautions on the products mentioned in this catalogue, and refer to p.1.0-2 and 1.0-3 for precautions on every series.

Mounting/Adjustment

⚠ Warning

① The adjustment handle must be operated manually. Using a tool to turn the handle could lead to damage.

② Set up the regulator while verifying the pressure that is indicated on the primary and the secondary pressure gauges. Turning the handle excessively could damage the internal parts.

⚠ 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 secondary pressure to fluctuate.

A) On the ARM2500 type, pull the adjustment handle to release the lock and push the adjustment handle to engage the lock. If it does not lock easily, turn the handle slightly clockwise or counterclockwise before pushing it.

B) On the ARM3000 type, 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 counterclockwise; then, push it until the orange colored line is no longer visible.

② Turning the pressure adjustment handle clockwise increases the secondary pressure and turning it counterclockwise decreases the pressure.

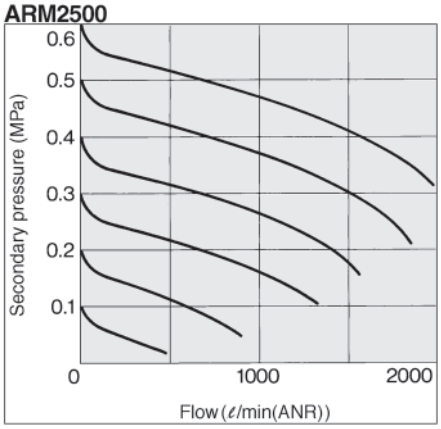
③ Make sure to check the primary pressure before setting the pressure. The secondary pressure must be set to 85% or less of the primary pressure. Failure to observe this procedure could cause the secondary pressure to fluctuate.

④ In the case of the common IN style, supply pressure from the two IN ports from both ends. Failure to observe this procedure could lead to

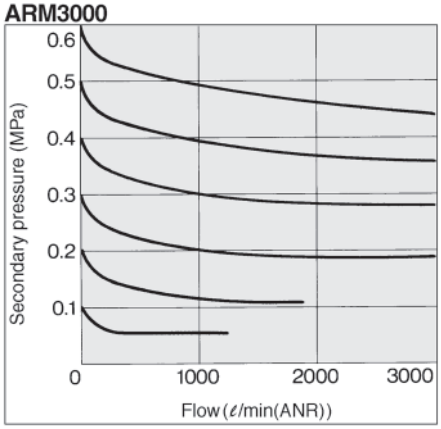
Flow Characteristics

Supply pressure: 0.7MPa

ARM2500



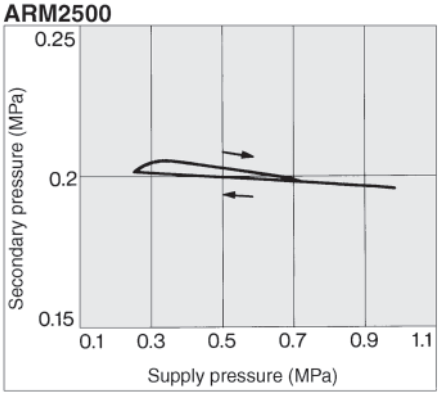
ARM3000



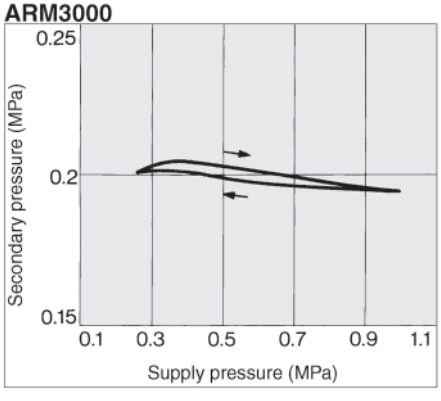
Pressure Characteristics

Initial setting P1: 0.7MPa P2: 0.2MPa
Q: 20 ℓ/min (ANR)

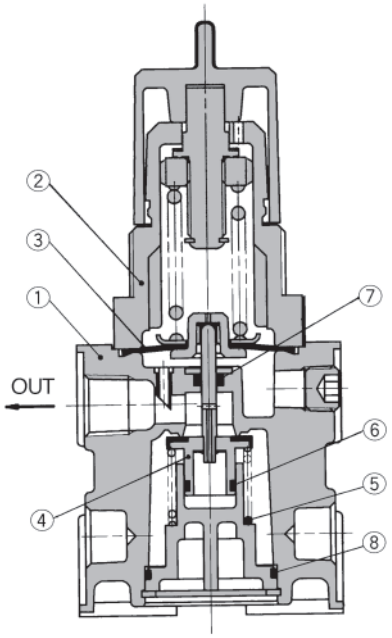
ARM2500



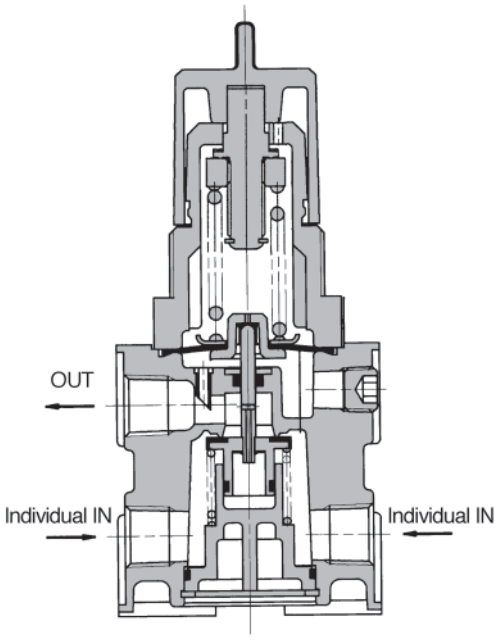
ARM3000



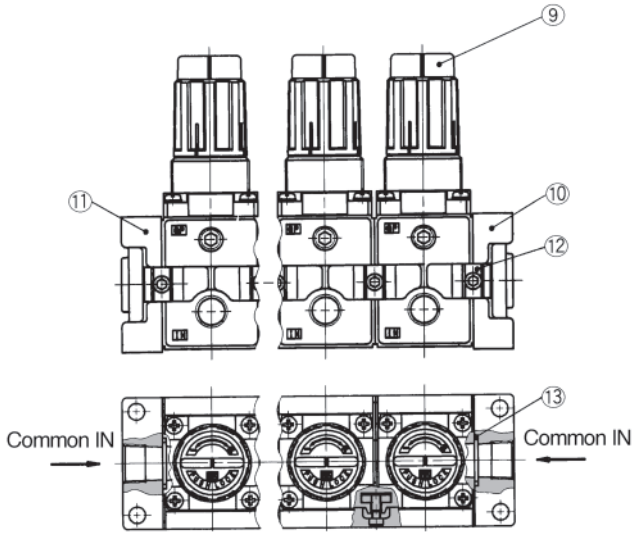
Construction



Common IN



Individual IN



Component Parts

No.	Description	Material	Note
①	Body	Aluminum die cast	Chromate/Painted silver
②	Bonnet	Polyacetal	

Replacement Parts

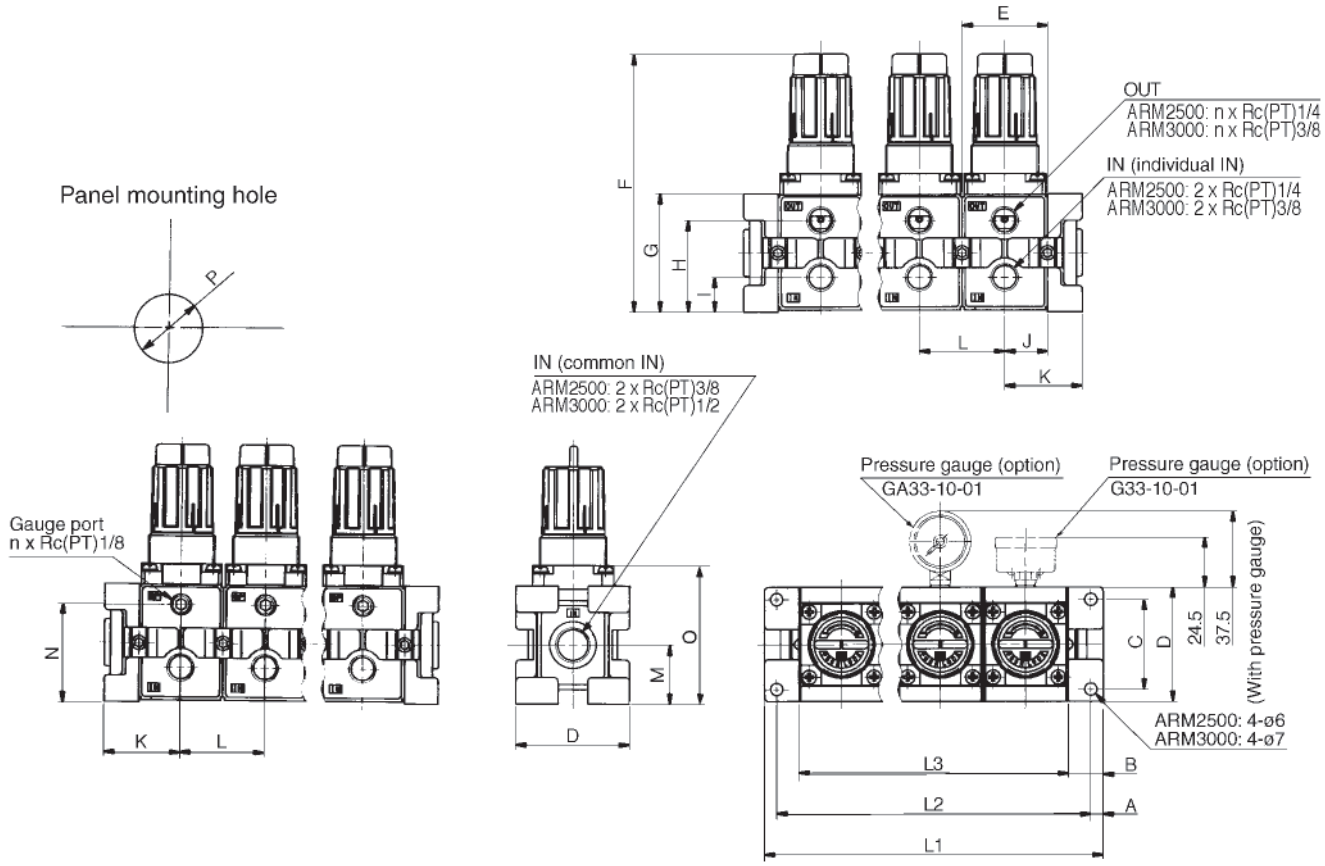
No.	Description	Material	Part No.	
			ARM2500	**ARM3000**
③	Diaphragm ass'y	NBR	1349161A	131515A
④	Valve ass'y	Brass/NBR	13639A	13649A
⑤	Valve spring	Stainless steel	136310	136410
⑥	Valve O ring	NBR	11.5 X 8.5 X 1.5	14.5 X 10.5 X 2
⑦	O ring	NBR	JIS B2401 P3	JIS B2401 P5
⑧	O ring	NBR	28 X 25 X 1.5	35 X 31 X 2

Component Parts

Description	No.	Assembly			Part No.			
		Component		Qty.	**ARM2500**		**ARM3000**	
					Common IN	Individual IN	Common IN	Individual IN
Regulator	⑨	Regulator		1	ARM2500-A-02	ARM2500-A-02	ARM3000-A-02	ARM3000-A-02
End plate ass'y	⑩	End plate R		1	13636A	13636B (Except for O ring)	13646A	13646B (Except for O ring)
	⑪	End plate L		1				
	⑫	O ring		1				
	⑬	Bracket	Bracket A	1 set 2				
			Bracket B	2				
			Hex. socket head cap screw	2				
Bracket ass'y	⑫	O ring		1	136312		136412	
	⑬	Bracket	Bracket A	1 set 2				
			Bracket B	2				
			Hex. socket head cap screw	2				

How to Order
(1) When adding n stations to ARM $\frac{2500}{3000}$-□□$\frac{A}{B}$:
·Regulator n pcs.
·Bracket ass'y n pcs.
(2) When regulators, end plate assembly and bracket assembly are assembled to make the manifold of n stations.
·Regulator n pcs.
·Bracket ass'y n pcs.
·End plate ass'y 1 pc.

Dimensions



Dimensions

Model \ Symbol	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
ARM2500	6	17	44	56	42	126.5	58	45	17	21	38	42	29	48	68	33.5
ARM3000	7	21	54	68	55	153.5	70	53	23.5	27.5	48.5	55	35	59	85.5	42.5

Dimensions by Number of Stations

Model	Symbol	Manifold stations								
		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