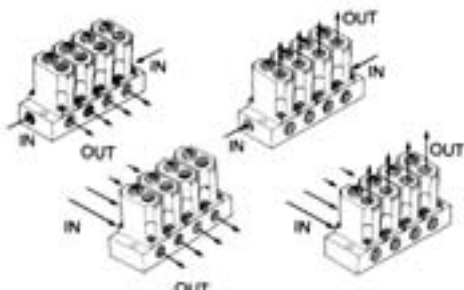


Manifold Regulator

Series ARM1000/2000

4 connection methods



Small size pressure gauge ø15

Backflow function available on the standard model

Space-saving



ARM1000-6A1-01G



ARM2000-4B2

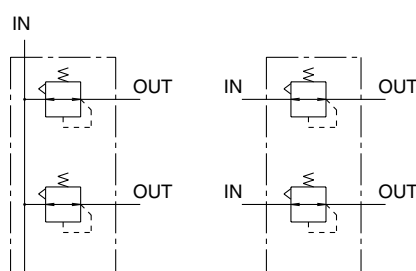


ARM2000-4A2-01G

JIS Symbol

Common IN

Individual IN



Note) A standard model is equipped with a backflow function. A main valve opens when the inlet pressure is released, and then an outlet pressure backflows into the inlet side.

Standard Specifications

Fluid	Air
Proof pressure	1.2 MPa
Maximum operating pressure	0.8 MPa
Regulating pressure range	Standard: 0.05 to 0.7 MPa 0.2 MPa setting 0.05 to 0.2 MPa
Ambient and fluid temperature	-5 to 60°C (No freezing)
Fluid	Air
Cracking pressure (Valve)	0.02 MPa
Construction	Relieving type

Port Size/Mass

Model	Piping	Port size		Mass (g)	
		IN side	OUT side	Total mass (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 -

Regulator for manifold

Body size

1000	1 station
2000	10 stations

Number of stations

Piping

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

Option

Nil	0.7 MPa setting (Standard)
1	0.2 MPa setting

Note 1) Pressure gauge for 1.0 MPa is used.
Note 2) Compared with standard specifications, its adjusting spring has only been changed. It is not the product which does not allow the pressure more than 0.2 MPa. Adjusting spring is not replaceable.

Port size (OUT side)

01 1/8

Thread type

Nil	Rc
N	NPT

Accessory

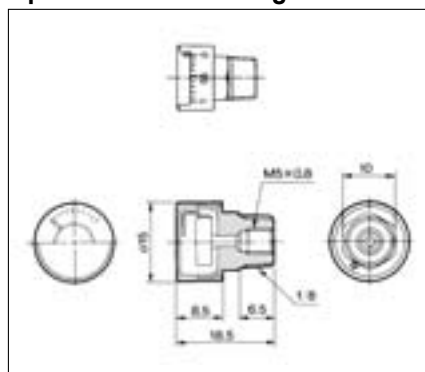
Nil	None (With plug)
G	With pressure gauge

Note 3) When ordering single unit

Description	ARM1000	ARM2000
Regulator main body	ARM1000A	ARM2000A
Manifold	Common IN	13612-□
	Individual IN	13613-□

Note 4) 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. 136114A
For ARM2000: Part no. 136214A

Option / Pressure Gauge: G15-10-01



Precautions—When drain or oil, etc. gets into the gauge, an error may occur for pressure indication.

How to Order

G15-10-01

Max. display pressure

10 1.0 MPa

* Not able to set the pressure exceeding 1.0 MPa.

Connecting thread

01 1/8 male thread, M5 female thread

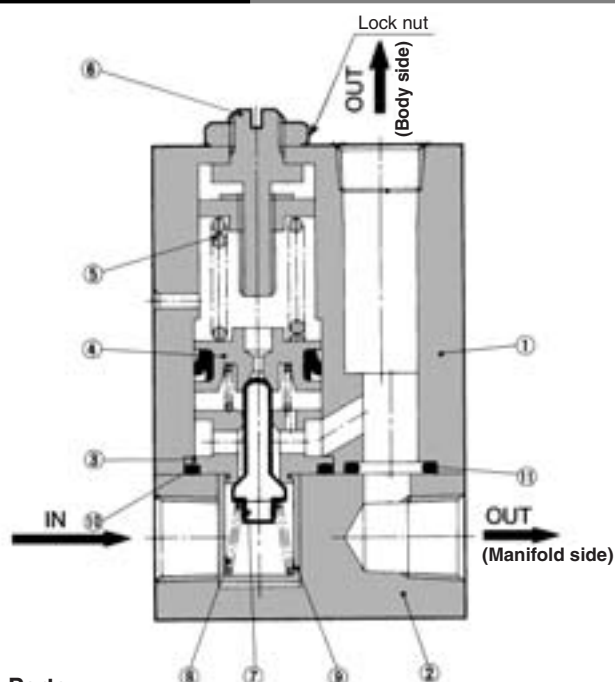
Thread type

Nil	Rc
N	NPT

Note 1) Use caution not to tighten excessively when mounting a pressure gauge, otherwise it may result in a breakdown. Tightening torque recommended (M5: 1.5 to 2 N·m, R1/8: 7 to 9 N·m) For sealing, use a pipe tape.

Series ARM1000/2000

Construction (Individual IN)



Component Parts

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

Replacement Parts

No.	Description	Material	Part no.	
			ARM1000	ARM2000
7	Valve	Brass, HNBR	134819-30#1	13626-30#1
8	Valve spring	Stainless steel	13615	13625
9	Valve guide	Polyacetal	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

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

⚠ Precautions

Be sure to read before handling.
Refer to front matters 42 and 43 for Safety Precautions and pages 287 to 291 for Precautions on every series.

Mounting/Adjustment

⚠ Warning

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

⚠ 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.
<Lock operating method>
Loosen the lock nut to unlock it, and tighten it to lock it.
2. This product can be used as a regulator with a check valve by installing it between solenoid valve and actuator.

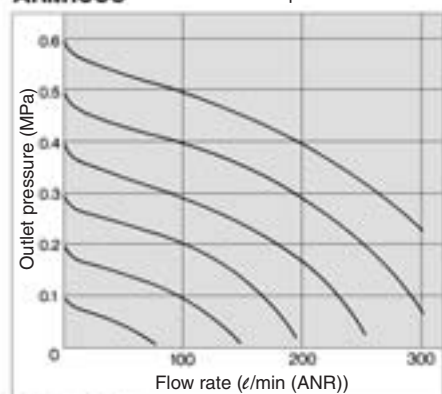
Maintenance

⚠ Warning

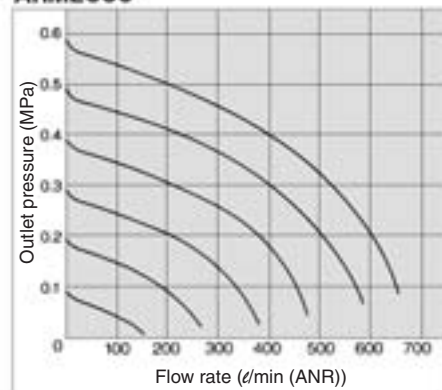
1. Make sure to perform a periodic inspection of the pressure gauge when it is used by installing it between a solenoid valve and an actuator, etc. Sudden pressure changes could happen and the durability of the product could be reduced. Using an electronic style pressure gauge is recommended, depending on the situation.

Flow Characteristics (Representative value)

ARM1000 Inlet pressure: 0.7 MPa



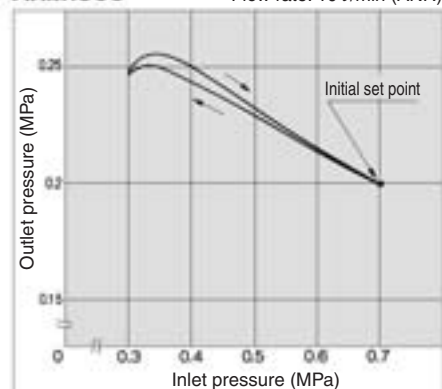
ARM2000



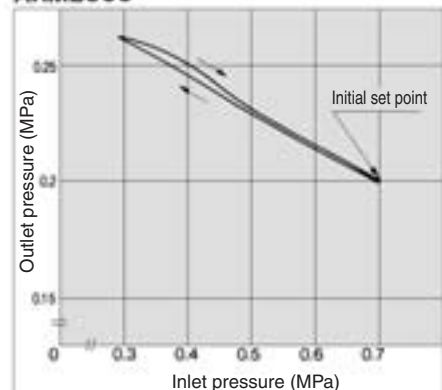
Pressure Characteristics (Representative value)

(Initial setting) Inlet pressure: 0.7 MPa
Outlet pressure: 0.2 MPa
Flow rate: 10 l/min (ANR)

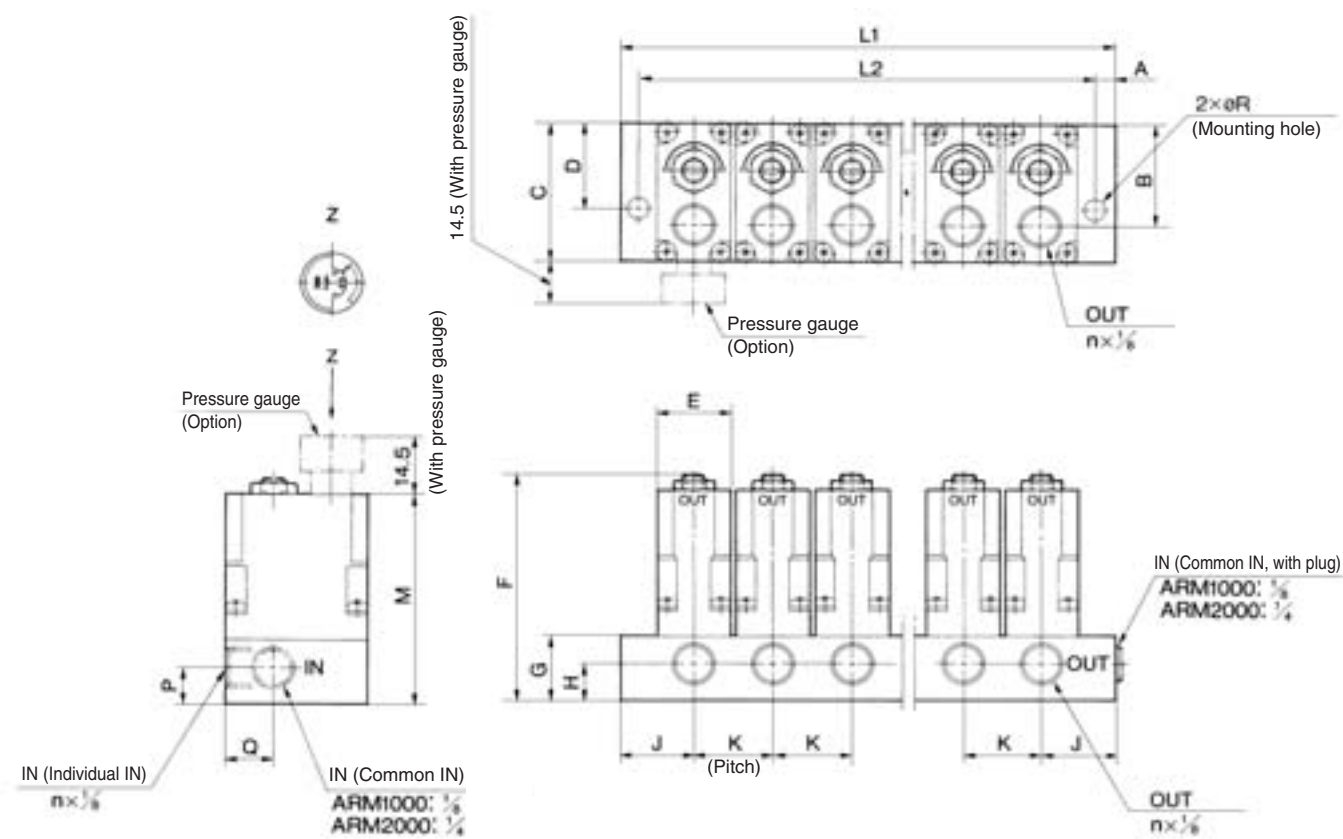
ARM1000



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 the 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

ARJ

AR425
to 935

AMR

ARM

ARP

IR

IRV

VEX1□

SRH

SRP

SRF

ARX20

VCHR

ITV

IC

PVQ

VEF
VEP

VER

VEA

VY2

VBA
VBAT

AP100