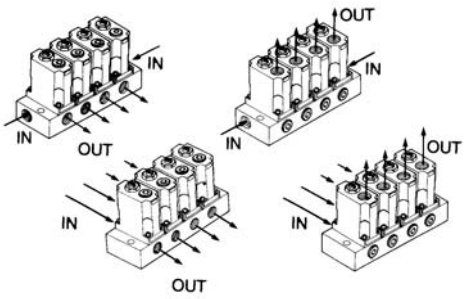
Manifold Regulator
Series ARM1000/2000

■ 4 connection methods



■ Small size pressure gauge ø15

■ Backflow function available on the standard model

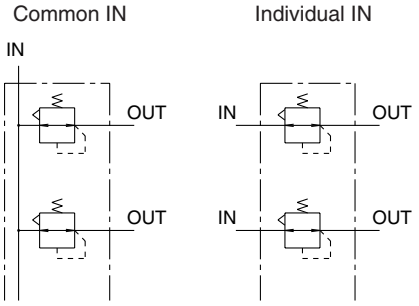
■ Space-saving

ARM1000-6A1-01G

ARM2000-4B2

ARM2000-4A2-01G

JIS Symbol



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
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

Note 1) In the 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.
Note 2) When mounting a pressure gauge on the body side, its front faces the adjusting screw.

Thread type

Nil	Rc
N	NPT

Port size (OUT side)

01	1/8

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.

Accessory

Nil	None (With plug)
G	With pressure gauge

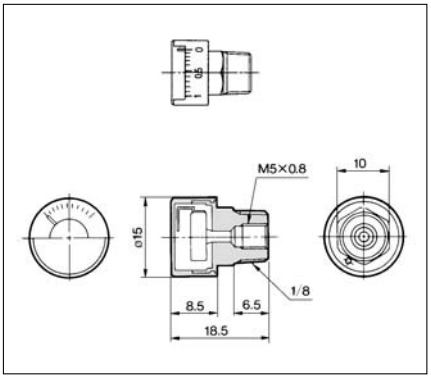
Note 3) When ordering single unit

Description		ARM1000	ARM2000
Regulator main body		ARM1000A	ARM2000A
Manifold	Common IN	13612-□	13622-□
	Individual IN	13613-□	13623-□

• "∗" in manifold part no. repersents the number of manifold stations of regulator.

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

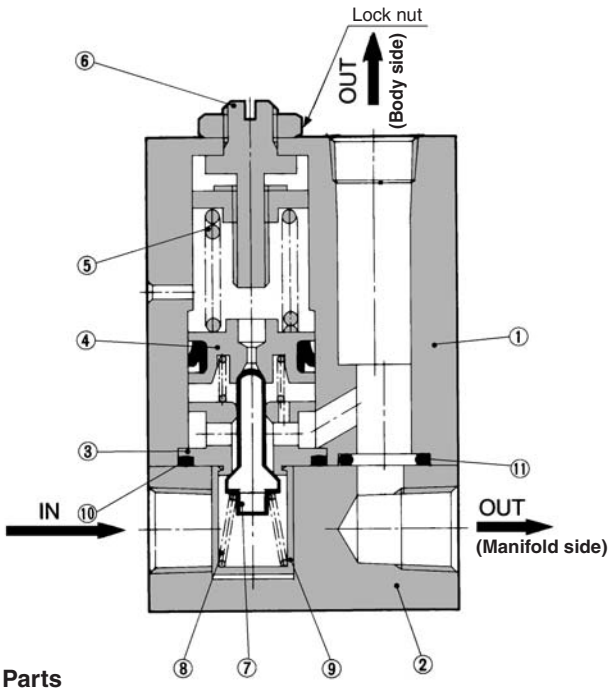
01	1/8 male thread, M5 female thread

Thread type

Nil	Rc
N	NPT

Note1) 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.

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 turing 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.

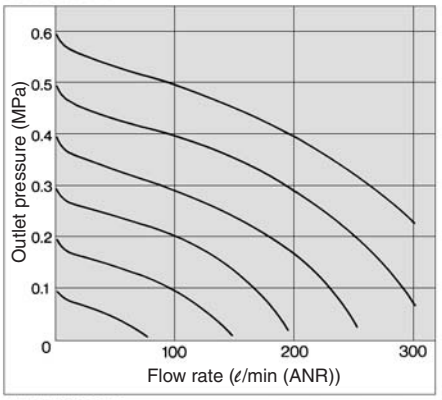
Maintenance

⚠ Warning

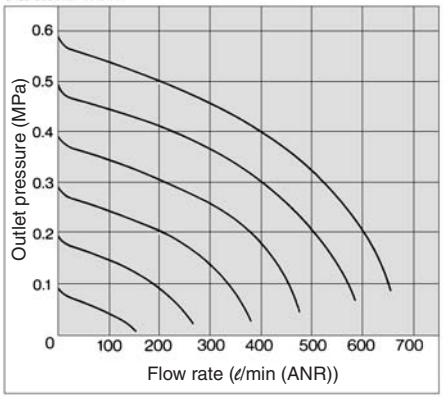
1. Make sure to perform a periodic inspection of the pressure gauge when it is used by installing it between a solenoid valve and an actuator, etc. Sudden pressure changes could happen and the durability of the product could be reduced. Using an electronic style pressure gauge is recommended, depending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

Flow Characteristics (Representative value)

ARM1000 Inlet pressure: 0.7 MPa



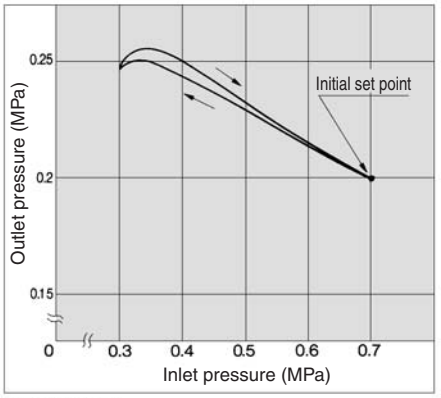
ARM2000



Pressure Characteristics (Representative value)

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

ARM1000



ARM2000