

# Compact Manifold Regulator

# Common Supply Type

## ARM11A Series

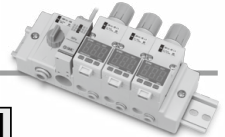


Made to Order  
(Refer to page 1030 for details.)

### How to Order

ARM11A **A** **1** - **3** **07** - **M** **Z** - **N**

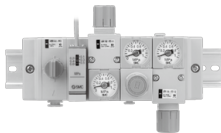
①    ②    ③    ④    ⑤    ⑥    ⑦    ⑧



#### 1. Knob Position

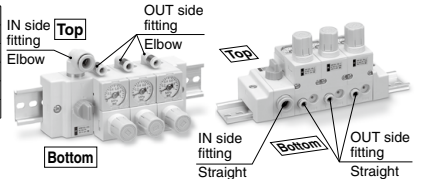
Symbol	Position
A	Top
B	Front
C	Bottom

Top | Front | Bottom



#### 2. IN/OUT Piping Position

Position Symbol	IN side		OUT side	
	Bottom	Top	Bottom	Top
1	●		●	
2		●		●
3	●			●
4		●	●	



#### 3. Regulator Block Stations

Symbol	Stations
1	1 station
2	2 stations
3	3 stations
4	4 stations
5	5 stations
6	6 stations
7	7 stations
8	8 stations
9	9 stations
M	10 stations

#### 4. IN/OUT Fitting Type (Refer to the figure below.)

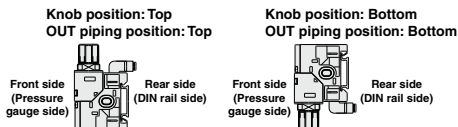
##### Metric size

Mounting position	Fitting type	IN side				OUT side			
		Straight	Elbow	Straight	Elbow	Note			
Symbol		ø6	ø8	ø10	ø6	ø8	ø10	ø4	ø6
07		●						●	
08		●							●
09			●					●	
10			●					●	
11				●				●	
12				●				●	
19					●				●
20					●				●
21						●			●
22							●		●
23								●	
24								●	
26		●							●
27		●							●
28			●						●
29			●						●
30				●					●
31				●					●
33					●				●
34					●				●
35						●			●
36							●		●
37								●	●
38								●	●

##### Inch size

Mounting position	Fitting type	IN side			OUT side				
		Straight	Elbow	Straight	Elbow	Note			
Symbol		ø1/4	ø5/16	ø3/8	ø1/4	ø5/16	ø3/8	ø5/32	ø1/4
57		●						●	
58		●							●
59			●					●	
60			●					●	
61				●				●	
62				●				●	
69					●				●
70					●				●
71						●			●
72							●		●
73								●	
74								●	
76		●							●
77		●							●
78			●						●
79			●						●
80				●					●
81				●					●
83					●				●
84					●				●
85						●			●
86							●		●
87								●	●
88								●	●

Note) When the knob and the OUT piping are located on the same side, the elbow fitting is directed to the rear side (DIN rail side). Use caution to ensure the regulator is not disturbed, depending on piping direction, when choosing to attach a digital pressure switch.



# Compact Manifold Regulator Common Supply Type **ARM11A Series**

## 5. Accessories

Symbol	Pressure display <sup>Note 1, 2)</sup>		Supply block type <sup>Note 3)</sup>				Supply block mounting position		
	Without pressure display	With pressure display	Common supply block	Common supply block with pressure switch	3-way valve common supply block	3-way valve common supply block + Pressure switch block	L side (Left)	R side (Right)	B side (Both)
Nii	●		●				●		
A	●			●			●		
B	●				●		●		
C	●					●	●		
D	●		●					●	
E	●			●				●	
F	●				●			●	
G	●					●		●	
H	●		●						●
J		●	●				●		
K		●		●			●		
L		●			●		●		
M		●				●	●		
N		●	●					●	
O		●		●				●	
P		●			●			●	
Q		●				●		●	
R		●	●						●

Note 1) Pressure display means a pressure gauge or digital pressure switch is attached.

When choosing to attach a digital pressure switch is chosen for attachment, be sure to enter the symbol, referring to table B, "Digital Pressure Switch Output Specifications". Otherwise, a pressure gauge will come with the regulator.

Note 2) Pressure gauges are not compatible with copper-free and fluorine-free specifications.

Note 3) Pressure switches are not available with the oil-free specification.

## 6. Semi-standard

Symbol	None	0.35 MPa setting <sup>Note 1)</sup>	Non-relieving	Oil-free <sup>Note 2)</sup>
Nil	●			
1		●		
2			●	
3				●
4		●	●	
5		●		●
6			●	●
7		●	●	●

Note 1) A pressure gauge with a full span of 0.4 MPa is attached.

Note 2) The oil-free specification is grease-free in the fluid contact area.

## 7. Unit Representation

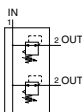
Symbol	Description
Nil	Display unit for product name plate and pressure gauge: MPa
Z <sup>Note 1, 2)</sup>	Display unit for product name plate and pressure gauge: psi
ZA <sup>Note 1, 3)</sup>	Digital pressure switch: with unit switching (MPa is initially set.)

Note 1) This option is available for use outside Japan only. (The SI unit has to be used in Japan.) Additionally, the pressure switch offers dual unit presentation in MPa and psi.

Note 2) The digital pressure switch is equipped with unit switching and initially set to psi.

Note 3) This option is available with the digital pressure switch. A lead wire with connector (2 m) is included.

### Symbol



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

Without pressure display



With pressure display



With pressure gauge

With digital pressure switch

Common supply block



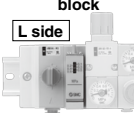
Common supply block with pressure switch



3-way valve common supply block



3-way valve common supply block + Pressure switch block



## 8. Digital Pressure Switch Output Specifications <sup>Note)</sup>

Symbol	Details
Nil	None
N	NPN open collector
P	PNP open collector

Note) When a digital pressure switch is attached, the "pressure display" in table 5 "Accessories" will be equipped.

The electrical entry is positioned on the side opposite the knob.

## Specifications

Manifold (Regulator block, Common supply block, 3-way valve common supply block)

Regulator construction		Direct acting
Working principal		Diaphragm regulator
Relief mechanism	Standard	Relief type
	Optional	Non-relieving type
Backflow function <sup>Note 1)</sup>		Within (Unbalance type)
IN side tubing O.D.		ø6, ø8, ø10, ø1/4, ø5/16, ø3/8
OUT side tubing O.D.		ø4, ø6, ø5/32, ø1/4
Proof pressure		1.5 MPa
Maximum operating pressure		1.0 MPa
Set pressure range	Standard	0.05 to 0.7 MPa
	Optional	0.05 to 0.35 MPa (Low pressure type)
Fluid		Air
Ambient and operating fluid temperature <sup>Note 2)</sup>		5 to 60°C

Note 1) 0.1 MPa or greater set pressure is required when used in the reverse flow.

Note 2) 5 to 50°C when the digital pressure switch will be used.

Refer to pages 1018 and 1020 for the digital pressure switch and pressure switch specifications.

# Compact Manifold Regulator

# Individual Supply Type

## ARM11B Series

### How to Order

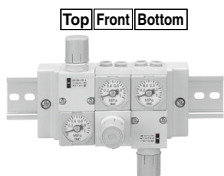
ARM11B **B** **1** - **3** **06** - **A** **Z** - **N**

①
②
③
④
⑤
⑥
⑦
⑧



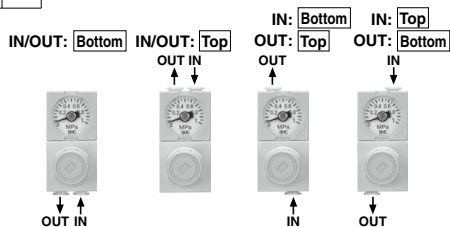
### 1. Knob Position

Symbol	Position
A	Top
B	Front
C	Bottom



### 2. IN/OUT Piping Position

Position Symbol	IN side		OUT side	
	Bottom	Top	Bottom	Top
1	●		●	
2		●		●
3	●			●
4		●	●	



### 3. Regulator Block Stations

Symbol	Stations
1	1 station
2	2 stations
3	3 stations
4	4 stations
5	5 stations
6	6 stations
7	7 stations
8	8 stations
9	9 stations
M	10 stations

### 4. IN/OUT Fitting Type (Refer to the figure below.)

#### Metric size

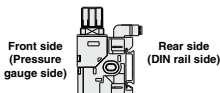
Mounting position	Fitting type Symbol	IN side		OUT side	
		Straight	Elbow <sup>Note</sup>	Straight	Elbow <sup>Note</sup>
06	●	○4	○6	○4	○6
07	●	○4	○6	○4	○6
08	●	○4	○6	○4	○6
18	●	○4	○6	○4	○6
19	●	○4	○6	○4	○6
20	●	○4	○6	○4	○6
25	●	○4	○6	○4	○6
26	●	○4	○6	○4	○6
27	●	○4	○6	○4	○6
32	●	○4	○6	○4	○6
33	●	○4	○6	○4	○6
34	●	○4	○6	○4	○6

#### Inch size

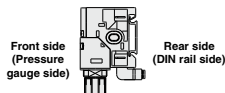
Mounting position	Fitting type Symbol	IN side		OUT side	
		Straight	Elbow <sup>Note</sup>	Straight	Elbow <sup>Note</sup>
56	●	○5/32	○1/4	○5/32	○1/4
57	●	○5/32	○1/4	○5/32	○1/4
58	●	○5/32	○1/4	○5/32	○1/4
68	●	○5/32	○1/4	○5/32	○1/4
69	●	○5/32	○1/4	○5/32	○1/4
70	●	○5/32	○1/4	○5/32	○1/4
75	●	○5/32	○1/4	○5/32	○1/4
76	●	○5/32	○1/4	○5/32	○1/4
77	●	○5/32	○1/4	○5/32	○1/4
82	●	○5/32	○1/4	○5/32	○1/4
83	●	○5/32	○1/4	○5/32	○1/4
84	●	○5/32	○1/4	○5/32	○1/4

Note) When the knob and the OUT piping are located on the same side, the elbow fitting is directed to the rear side (DIN rail side). Use caution to ensure the connector is not disturbed, depending on piping direction, when choosing to attach a digital pressure switch.

Knob position: Top  
OUT piping position: Top



Knob position: Bottom  
OUT piping position: Bottom



# Compact Manifold Regulator Individual Supply Type **ARM11B Series**

## 5. Accessory (Pressure Display)

Symbol	Accessory
<b>Nil</b>	Without pressure display
<b>A</b> <small>Note 1, 2)</small>	With pressure display

Note 1) Pressure display means a pressure gauge or digital pressure switch is attached.

When choosing to attach a digital pressure switch is chosen for attachment, be sure to enter the symbol, referring to table 8, "Digital Pressure Switch Output Specifications". Otherwise, a pressure gauge will come with the regulator.

Note 2) Pressure gauges are not compatible with copper-free and fluorine-free specifications.

Without pressure display



With pressure display



With pressure gauge

With digital pressure switch

## 7. Unit Representation

Symbol	Description
<b>Nil</b>	Display unit for product name plate and pressure gauge: MPa
<b>Z</b> <small>Note 1, 2)</small>	Display unit for product name plate and pressure gauge: psi
<b>ZA</b> <small>Note 1, 3)</small>	Digital pressure switch: with unit switching (MPa is initially set.)

Note 1) This option is available for use outside Japan only. (The SI unit has to be used in Japan.)

Note 2) The digital pressure switch is equipped with unit switching and initially set to psi.

Note 3) This option is available with the digital pressure switch. A lead wire with connector (2 m) is included.

## 8. Digital Pressure Switch Output Specifications Note)

Symbol	Details
<b>Nil</b>	None
<b>N</b>	NPN open collector
<b>P</b>	PNP open collector

Note) When a digital pressure switch is attached, the "pressure display" in table 5 "Accessory" will be equipped. The electrical entry is positioned on the side opposite the knob.

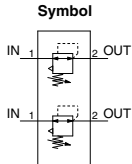
## 6. Semi-standard

Symbol	None	0.35 MPa setting <small>Note 1)</small>	Non-relieving	<small>Note 2)</small> Oil-free
<b>Nil</b>	●			
<b>1</b>		●		
<b>2</b>			●	
<b>3</b>				●
<b>4</b>		●	●	
<b>5</b>		●		●
<b>6</b>			●	●
<b>7</b>		●	●	●

Note 1) A pressure gauge with a full span of 0.4 MPa is attached.

Note 2) The oil-free specification is grease-free in the fluid contact area.

## Specifications



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

<b>Regulator construction</b>		Direct acting
<b>Working principal</b>		Diaphragm regulator
<b>Relief mechanism</b>	<b>Standard</b>	Relief type
	<b>Optional</b>	Non-relieving type
<b>Backflow function</b> <small>Note 1)</small>		Within (Unbalance type)
<b>IN side tubing O.D.</b>		ø4, ø6, ø5/32, ø1/4
<b>OUT side tubing O.D.</b>		ø4, ø6, ø5/32, ø1/4
<b>Proof pressure</b>		1.5 MPa
<b>Maximum operating pressure</b>		1.0 MPa
<b>Set pressure range</b>	<b>Standard</b>	0.05 to 0.7 MPa
	<b>Optional</b>	0.05 to 0.35 MPa (Low pressure type)
<b>Fluid</b>		Air
<b>Ambient and operating fluid temperature</b> <small>Note 2)</small>		5 to 60°C

Note 1) 0.1 MPa or greater set pressure is required when used in the reverse flow.

Note 2) 5 to 50°C when the digital pressure switch will be used.

Refer to page 1018 for the digital pressure switch specifications.

## ⚠ Specific Product Precautions

Be sure to read this before handling the products.

Refer to page 9 for safety instructions and pages 13 to 17 for precautions on every series.

## Maintenance

## ⚠ Warning

1. Make sure to perform a periodic inspection of the pressure gauge when the compact manifold regulator 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.

# Regulator

# Single Unit Type

## ARM10 Series

### How to Order

Standard Type **ARM10 - 06 G - 1 Z - N**

① ② ③ ④ ⑤

### 1. IN/OUT Fitting Type

#### Metric size

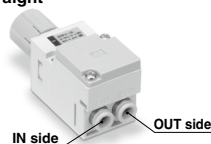
Mounting position Fitting type Symbol	IN side				OUT side			
	Straight	Elbow <sup>Note 1)</sup>	Straight	Elbow <sup>Note 1)</sup>	Straight	Elbow <sup>Note 1)</sup>	Straight	Elbow <sup>Note 1)</sup>
06	●				●			
07		●			●			
08			●			●		
18			●				●	
19				●			●	
20				●				●
25	●							●
26		●						●
27			●					●
32			●		●			
33				●	●			
34				●		●		

#### Inch size

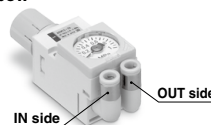
Mounting position Fitting type Symbol	IN side				OUT side			
	Straight	Elbow <sup>Note 1)</sup>	Straight	Elbow <sup>Note 1)</sup>	Straight	Elbow <sup>Note 1)</sup>	Straight	Elbow <sup>Note 1)</sup>
56	●				●			
57		●			●			
58			●			●		
68			●				●	
69				●			●	
70				●				●
75	●							●
76		●						●
77			●					●
82			●		●			
83				●	●			
84				●		●		

Note) Use caution to ensure the connector is not disturbed, depending on piping direction, when choosing to attach a digital pressure switch.

#### Straight



#### Elbow



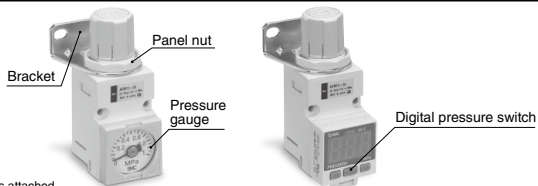
### 2. Accessories

Symbol	None	Bracket <sup>Note 1)</sup>	Pressure gauge <sup>Note 2)</sup>	Panel nut
NII	●			
B		●		●
G			●	
P				●
BG		●	●	●
GP			●	●

Note 1) In case of a type with bracket, the panel nut is included.

Note 2) Pressure display means a pressure gauge or digital pressure switch is attached.

When choosing to attach a digital pressure switch is chosen for attachment, be sure to enter the symbol, referring to table 5, "Digital Pressure Switch Output Specifications". Otherwise, a pressure gauge will come with the regulator. Additionally, pressure gauges are not compatible with copper-free and fluorine-free specifications.



### 3. Semi-standard

Symbol	None	0.35 MPa setting <sup>Note 1)</sup>	Non-relieving	Oil-free <sup>Note 2)</sup>
NII	●			
1		●		
2			●	
3				●
4		●	●	
5		●		●
6			●	●
7		●	●	●

Note 1) A pressure gauge with a full span of 0.4 MPa is attached.

Note 2) The oil-free specification is grease-free in the fluid contact area.

### 4. Unit Representation

Symbol	Description
NII	Display unit for product name plate and pressure gauge: MPa
Z <sup>Note 1, 2)</sup>	Display unit for product name plate and pressure gauge: psi
ZA <sup>Note 1, 3)</sup>	Digital pressure switch: with unit switching (MPa is initially set.)

Note 1) This option is available for use outside Japan only. (The SI unit has to be used in Japan.) Additionally, the pressure switch offers dual unit presentation in MPa and psi.

Note 2) The digital pressure switch is equipped with unit switching and initially set to psi.

Note 3) This option is available with the digital pressure switch. A lead wire with connector (2 m) is included.

### 5. Digital Pressure Switch Output Specifications <sup>Note)</sup>

Symbol	Details
NII	None
N	NPN open collector
P	PNP open collector

Note) When a digital pressure switch is attached, the "pressure display" in table 2 "Accessories" will be equipped.



**Made to Order**  
(Refer to page 1030 for details.)

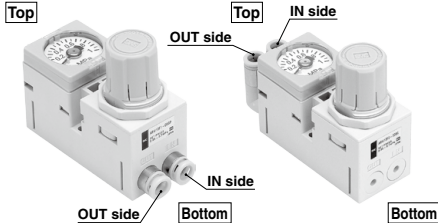
## How to Order

**Front Knob Type** **ARM10F** 1 - 06 G -   Z - N

①      ②      ③      ④      ⑤      ⑥

### 1. IN/OUT Piping Position

Position Symbol	IN side		OUT side	
	Bottom	Top	Bottom	Top
1	●		●	
2		●		●
3	●			●
4		●	●	



### Example of panel mounting



### 2. IN/OUT Fitting Type

#### Metric size

Mounting position Fitting type Symbol	IN side				OUT side			
	Straight		Elbow <sup>Note 1)</sup>		Straight		Elbow <sup>Note 1)</sup>	
	ø4	ø6	ø4	ø6	ø4	ø6	ø4	ø6
06	●				●			
07		●			●			
08		●				●		
18			●				●	
19				●			●	
20				●				●
25	●						●	
26		●					●	
27		●					●	
32			●		●			
33				●	●			
34				●		●		

#### Inch size

Mounting position Fitting type Symbol	IN side				OUT side			
	Straight		Elbow <sup>Note 1)</sup>		Straight		Elbow <sup>Note 1)</sup>	
	ø5/32	ø1/4	ø5/32	ø1/4	ø5/32	ø1/4	ø5/32	ø1/4
56	●				●			
57		●			●			
58		●				●		
68			●				●	
69				●			●	
70				●				●
75	●						●	
76		●					●	
77		●					●	
82			●		●			
83				●	●			
84				●		●		

Note 1) Use caution to ensure the connector is not disturbed, depending on piping direction, when choosing to attach a digital pressure switch.

### 3. Accessories

Symbol	None	<sup>Note 1)</sup> Bracket	<sup>Note 2)</sup> Pressure display	Panel nut	<sup>Note 3)</sup> Decorative cover
NII	●			●	
B		●		●	
G			●	●	
BG		●	●	●	
GP			●	●	
GPC <sup>Note 4)</sup>			●	●	●

Note 1) In case of a type with bracket, the panel nut is included.

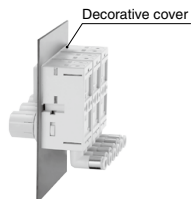
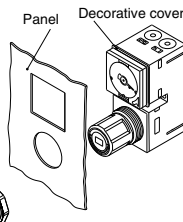
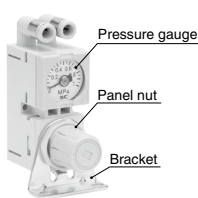
Note 2) Pressure display means a pressure gauge or digital pressure switch is attached.

**When choosing to attach a digital pressure switch is chosen for attachment, be sure to enter the symbol, referring to table 6, "Digital Pressure Switch Output Specifications". Otherwise, a pressure gauge will come with the regulator.**

Additionally, pressure gauges are not compatible with copper-free and fluorine-free specifications.

Note 3) Not attachable to a model with digital pressure switch.

Note 4) Please note that the dimensions will be bigger when GPC is selected.



## 4. Semi-standard

Symbol	None	0.35 MPa setting <sup>Note 1)</sup>	Non-relieving	Oil-free <sup>Note 2)</sup>
<b>NII</b>	●			
<b>1</b>		●		
<b>2</b>			●	
<b>3</b>				●
<b>4</b>		●	●	
<b>5</b>		●		●
<b>6</b>			●	●
<b>7</b>		●	●	●

Note 1) A pressure gauge with a full span of 0.4 MPa is attached.

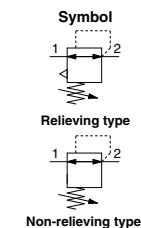
Note 2) The oil-free specification is grease-free in the fluid contact area.

## 6. Digital Pressure Switch Output Specifications <sup>Note)</sup>

Symbol	Details
<b>NII</b>	None
<b>N</b>	NPN open collector
<b>P</b>	PNP open collector

Note) When a digital pressure switch is attached, the "pressure display" in table 3 "Accessories" will be equipped.

The electrical entry is positioned on the side opposite the knob.



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

## 5. Unit Representation

Symbol	Description
<b>Nil</b>	Display unit for product name plate and pressure gauge: MPa
<b>Z</b> <sup>Note 1, 2)</sup>	Display unit for product name plate and pressure gauge: psi
<b>ZA</b> <sup>Note 1, 3)</sup>	Digital pressure switch: with unit switching (MPa is initially set.)

Note 1) This option is available for use outside Japan only. (The SI unit has to be used in Japan.)

Note 2) The digital pressure switch is equipped with unit switching and initially set to psi.

Note 3) This option is available with the digital pressure switch. A lead wire with connector (2 m) is included.

## Specifications

Model		ARM10	ARM10F
<b>Regulator construction</b>		Direct acting	
<b>Working principal</b>		Diaphragm regulator	
<b>Relief mechanism</b>	<b>Standard</b>	Relief type	
	<b>Optional</b>	Non-relieving type	
<b>Backflow function</b> <sup>Note 1)</sup>		Within (unbalance type)	
<b>IN side tubing O.D.</b>		ø4, ø6, ø5/32, ø1/4	
<b>OUT side tubing O.D.</b>		ø4, ø6, ø5/32, ø1/4	
<b>Proof pressure</b>		1.5 MPa	
<b>Maximum operating pressure</b>		1.0 MPa	
<b>Set pressure range</b>	<b>Standard</b>	0.05 to 0.7 MPa	
	<b>Optional</b>	0.05 to 0.35 MPa (Low pressure type)	
<b>Fluid</b>		Air	
<b>Ambient and operating fluid temperature</b> <sup>Note 2)</sup>		5 to 60°C	
<b>Weight</b>		60 g	72 g

Note 1) 0.1 MPa or greater set pressure is required when used in the reverse flow.

Note 2) 5 to 50°C when the digital pressure switch will be used.

Refer to page 1018 for the digital pressure switch specifications.



## Specific Product Precautions

Be sure to read this before handling the products.

Refer to page 9 for safety instructions and pages 13 to 17 for precautions on every series.

## Maintenance

## ⚠ Warning

1. Make sure to perform a periodic inspection of the pressure gauge when the compact manifold regulator 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.