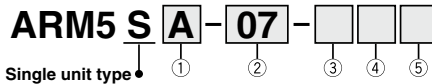



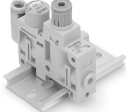


# Regulator Single Unit Type **ARM5S Series**

## How to Order



### 1. Regulator Mounting

Symbol	A	B
How to mount	Direct mount	DIN rail mount <small>(Note)</small>
Appearance		

(Note) Both the square nut and the hexagon socket head screw are attached for the DIN rail mount type. (DIN rail is not attached.)

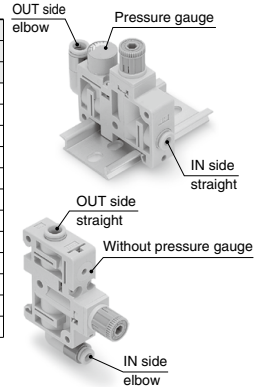
### 2. IN/OUT Fitting Type

#### Metric size

Mounting position	IN side				OUT side			
	Straight		Elbow		Straight		Elbow	
Fitting type	Ø4	Ø6	Ø4	Ø6	Ø4	Ø6	Ø4	Ø6
06	●				●			
07		●			●			
08	●					●		
18			●				●	
19				●			●	
20				●				●
25	●						●	
26		●					●	
27	●							●
32			●		●			
33				●	●			
34				●		●		

#### Inch size

Mounting position	IN side				OUT side			
	Straight		Elbow		Straight		Elbow	
Fitting type	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				●		●		



### 3. Accessory

Symbol	Accessory
<b>Nil</b>	Without pressure gauge
<b>A</b>	With pressure gauge

### 4. Semi-standard

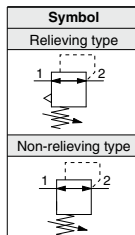
Symbol	None	0.35 MPa setting <small>(Note)</small>	Non-relieving
<b>Nil</b>	●		
<b>1</b>		●	
<b>2</b>			●
<b>3</b>		●	●

(Note) A pressure gauge with a full span of 0.8 MPa is attached.

### 5. Unit Representation

Symbol	Description
<b>Nil</b>	Display unit for product name plate and pressure gauge: MPa
<b>Z</b> <small>(Note)</small>	Display unit for product name plate and pressure gauge: psi

(Note) This option is available for use outside Japan only. (The SI units must be used in Japan.)



(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

Model	ARM5S
<b>Regulator construction</b>	Direct acting
<b>Working principle</b>	Piston type
<b>Relief mechanism</b>	<b>Standard</b> Relieving type <b>Semi-standard</b> Non-relieving type
<b>Backflow function</b>	Within (Unbalanced 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>Semi-standard</b> 0.05 to 0.35 MPa (Low pressure type)
<b>Fluid</b>	Air
<b>Ambient and fluid temperature</b>	5 to 60°C
<b>Weight (at ARM5SA-08-A)</b>	33 g

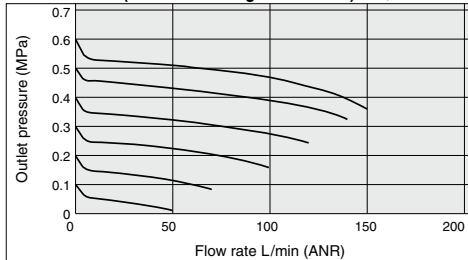
(Note) 0.1 MPa or greater set pressure is required when used in the reverse flow.



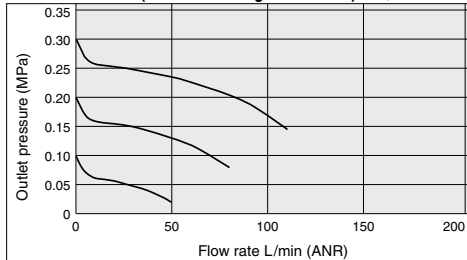
## Flow Rate Characteristics (Representative Value)

## Regulator Single Unit Type **ARM5S Series**

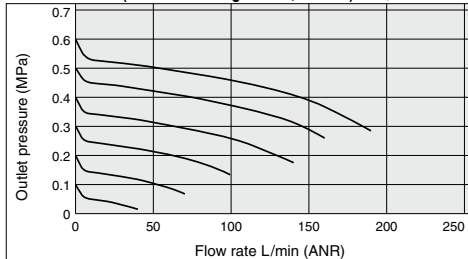
**ARM5SA-06 (One-touch fittings: IN/OUT  $\phi 4$ )** Condition: Inlet pressure 0.7 MPa



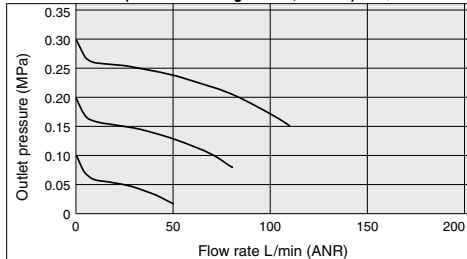
**ARM5SA-06-1 (One-touch fittings: IN/OUT  $\phi 4$ )** Condition: Inlet pressure 0.5 MPa



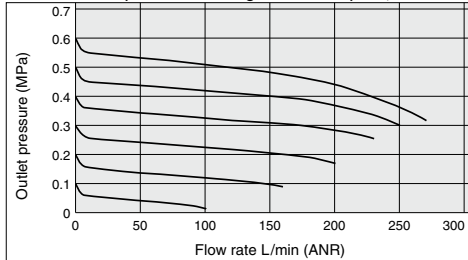
**ARM5SA-07 (One-touch fittings: IN  $\phi 6$ , OUT  $\phi 4$ )** Condition: Inlet pressure 0.7 MPa



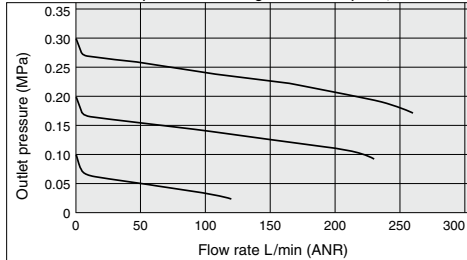
**ARM5SA-07-1 (One-touch fittings: IN  $\phi 6$ , OUT  $\phi 4$ )** Condition: Inlet pressure 0.5 MPa



**ARM5SA-08 (One-touch fittings: IN/OUT  $\phi 6$ )** Condition: Inlet pressure 0.7 MPa



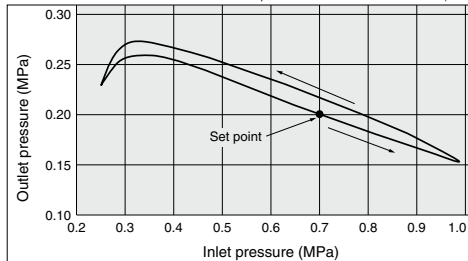
**ARM5SA-08-1 (One-touch fittings: IN/OUT  $\phi 6$ )** Condition: Inlet pressure 0.5 MPa



## Pressure Characteristics (Representative Value)

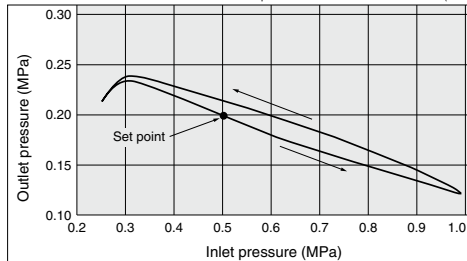
**ARM5SA-08**

Condition: Inlet pressure 0.7 MPa  
Outlet pressure 0.2 MPa  
Flow rate 20 L/min (ANR)



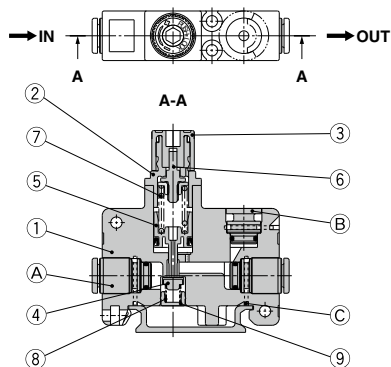
**ARM5SA-08-1**

Condition: Inlet pressure 0.5 MPa  
Outlet pressure 0.2 MPa  
Flow rate 20 L/min (ANR)



## Construction (Regulator)

## ARM5S Series



### Component Parts

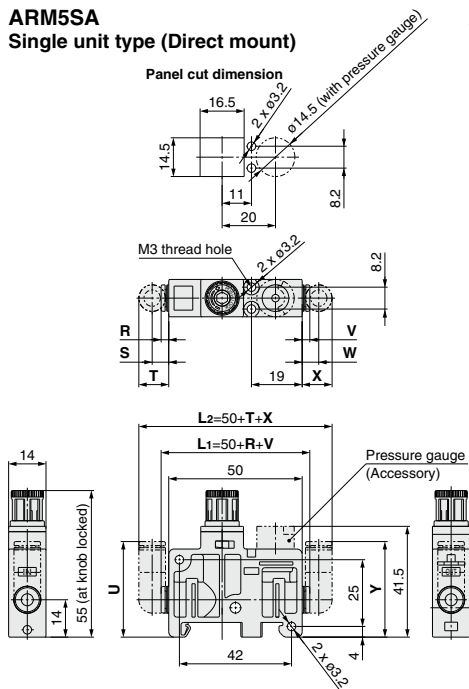
No.	Description	Material
1	Body (for single unit)	PBT
2	Bonnet	PBT
3	Knob	POM
4	Valve	HNBR, Aluminum alloy
5	Piston assembly	POM, NBR
6	Adjusting screw assembly	—
7	Adjusting spring	Stainless steel
8	Valve spring	Stainless steel
9	Valve guide	Brass, With electroless nickel plated
10	Clip	Stainless steel

### Replacement Parts

No.	Description	Material	Qty.	Part no.
A	Fitting assembly	—	2	
B	Port plug	PBT, HNBR	1	
C	Clip	Stainless steel	3	136010

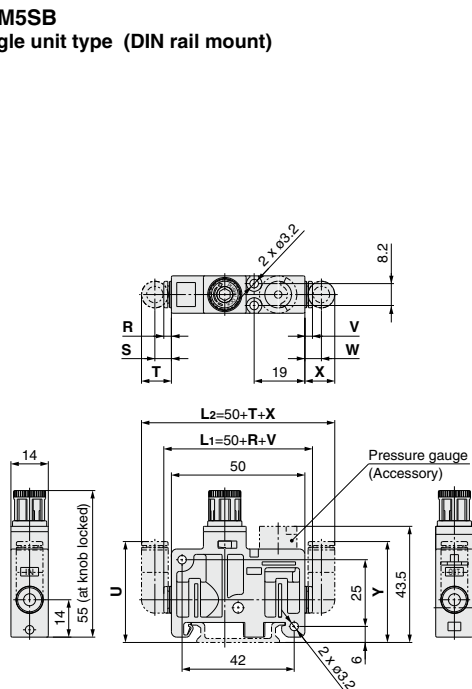
## Dimensions

### ARM5SA Single unit type (Direct mount)



Fitting size	IN side				OUT side			
	R	S	T	U	V	W	X	Y
$\phi 4, \phi 5/32$	2.5	6	11	35.5	2.5	6	11	35.5
$\phi 6$	3	6.5	11	36	3	6.5	11	36
$\phi 1/4$	6.5	6	11.5	38.5	6.5	6	11.5	38.5

### ARM5SB Single unit type (DIN rail mount)



Fitting size	IN side				OUT side			
	R	S	T	U	V	W	X	Y
$\phi 4, \phi 5/32$	2.5	6	11	37.5	2.5	6	11	37.5
$\phi 6$	3	6.5	11	38	3	6.5	11	38
$\phi 1/4$	6.5	6	11.5	40.5	6.5	6	11.5	40.5



# Regulator/Single Unit Type Options

## Pressure Gauge

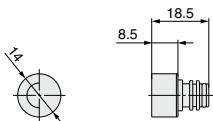
G14-  8-JA



### Indication unit

Symbol	Indication unit	Pressure gauge indication range
Nll	MPa	0 to 0.8 MPa
P	psi	0 to 120 psi

Note) The O-ring is attached.



## One-touch Fittings for Regulator

VVQ1000-50A-  C4

One-touch fittings for regulator

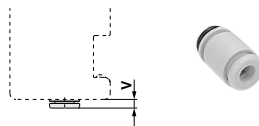
### Fitting type

Nll	Straight
L1	Elbow

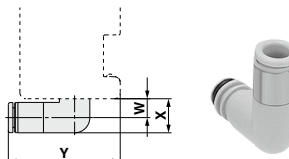
### Fitting size

C4	ø4
C6	ø6
N3	ø5/32
N7	ø1/4

### Straight type



### Elbow type



Fitting size	One-touch fittings for regulator			
	Straight	Elbow	Elbow	Elbow
ø4, ø5/32	V	W	X	Y
ø6	2.5	6	11	35.5
ø1/4	3	6.5	11	36
ø8, ø5/16	6.5	6	11.5	38.5
ø8, ø5/16	—	—	—	—

Note) The O-ring is attached.