# **ARJ1020F**

Compact and lightweight (16g)
Low cracking pressure 0.02MPa
Standard model equipped with backflow function



ARJ1020F-M5-04 ARJ1020F-M5-06



JIS symbol



#### **Standard Specifications**

Model		ARJ1020F		
Port	IN side	M5 (Male thread)		
size	OUT side (Applicable tube O.D.)	ø4	ø6	
Fluid		Ai	r	
Proof p	ressure	1.2M	лРа	
Max. o	perating temperature	0.8MPa		
Set pre	essure range	0.1 to 0.7MPa		
Ambier	nt and fluid temperature	−5 to 60° (Non-freezing)		
Constr	uction	Relieving style		
Weight (kg)		0.015	0.015 0.016	
Cracking pressure (Valve)		0.02MPa		
Applicable tube material(1)		Nylon, Soft nylon, Polyurethane		

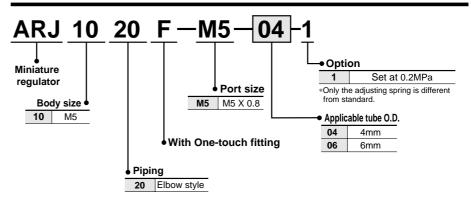
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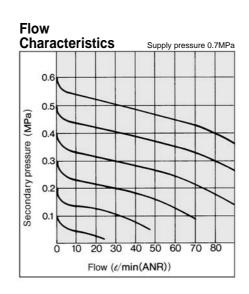
Note 1) Be sure to recognize the maximum operating pressure for soft nylon and polyurethane. (Refer to p.2.0-0 of fittings and tubing.)

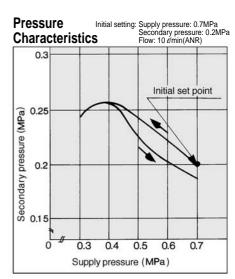
#### Accessory (Option) Part No.

Description	Part No.	
Manifold base	ARJM10-4, -6, -10	

#### **How to Order**

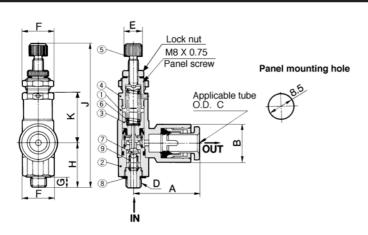






## Miniature Regulator ARJ1020F

#### **Construction/Dimensions**



#### **Component Parts**

No.	Description	Material	Note
1	Body	PBT	
2	Valve guide	Brass	Electroless nickel plated
3	Piston	Polyacetal	
4	Bonnet	Brass	Electroless nickel plated
(5)	Handle	Brass	Electroless nickel plated
6	Adjusting spring	Steel wire	Zinc chromated
7	Valve	Brass	Rubber lining

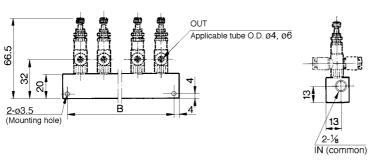
#### Replacement Parts

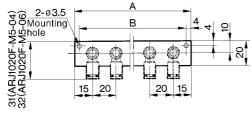
No.	Description	Material	Part no.
7	Valve	Brass/NBR	13434
8	Gasket	Stainless steel/ NBR	P233014-04
9	Spring	Stainless steel	134313
	Gasket	NBR	

**Dimensions** 

Model	Α	В	С	D	E	F	G	Н	J	K
ARJ1020F-M5-04	21	10.4	4	M5	6	10.6	2.5	15.5	50	17.2
ARJ1020F-M5-06	22	12.8	6	CIVI	0	(Width across flats: 10)	3.5	15.5	50	17.2

#### Manifold Base (Option)/Dimensions





Manifold base part No.	Stations	A dimension	B dimension
ARJM10-4	4	90	82
ARJM10-6	6	130	122
ARJM10-10	10	210	202

### **A** 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

#### **Piping**

#### **∆Warning**

- ①To connect the IN side, hold the valve guide at its wrench flats (opposite side 10) and tighten it at the recommended torque of 1.5 to 2Nm. Excessive torque or holding it at an area other than the specified area could lead to equipment damage.
- When connecting piping to the product or operating the handle, make sure that no bending moment is applied to the product in order to prevent damage.

#### Mounting/Adjustment

#### **∆**Warning

①Set 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.

Lock operating method

Loosen the lock nut to unlock it, and tighten it to lock it.

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## Series ARJ210

Lightweight body made of aluminum (60g)

Two styles of piping connections provided for the IN side: 1/8 (male threads) and M5 (female threads)





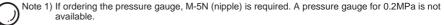
ARJ210-M5BG

**Standard Specifications** 

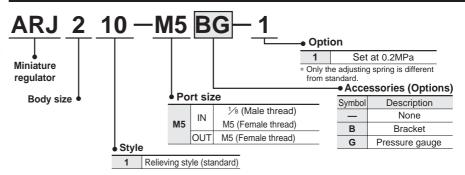
Model		ARJ210-M5	
Dowt size	IN side	1/8 (Male thread), M5 X 0.8 (Female thread)	
Port size	OUT side	M5 (Female thread 2 pcs.)	
Fluid	·	Air	
Proof pressure		1.2MPa	
Max. operating te	mperature	0.8MPa	
Set pressure rang	је	0.2 to 0.7MPa	
Pressure gauge p	ort size	M5 (Female thread)	
Ambient and fluid	temperature	-5 to 60°C (Non-freezing)	
Weight (kg)		0.06	

Accessories (Options) Part No.

Bracket	134856	
Pressure gauge (1)	G27-10-M5-X 201	
_		

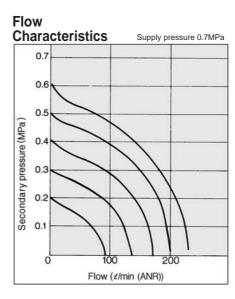


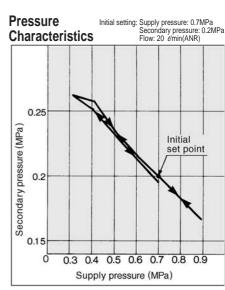
#### **How to Order**



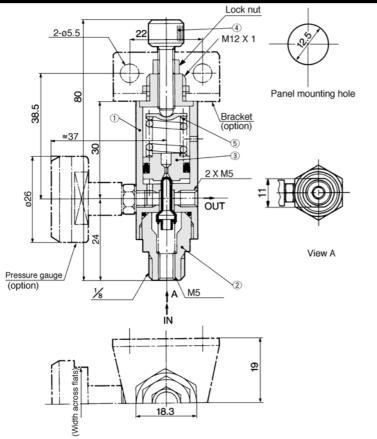
#### JIS symbol







#### **Construction/Dimensions**



No.	Description	Material	Note
1	Body	Aluminum alloy	Black anodized
2	Valve guide	Brass	Electroless nickel plated
3	Piston	Brass	
(2) (3) (4) (5)	Adjusting screw	Brass	Electroless nickel plated
5	Adjusting spring	Steel wire	Zinc chromated

#### **A** Precautions

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#### Selection

#### **△Warning**

①This product cannot be used as a check regulator by installing it between the solenoid valve and the actuator. Doing so could lead to equipment damage.

When connecting a pipe to the IN side, hold the valve guide at its wrench flats (opposite side 11), and when connecting to the OUT side, hold the body at its hexagon portion and tighten it to the recommended torque. {M5: 1.5 to 2 Nm, R(PT)1/8: 7 to 9 Nm. Excessive torque or holding it other than at the specified area could lead to equipment damage.

③When connecting piping to the product or operating the handle, make sure that no bending moment is applied to the product in order to prevent damage.

#### Mounting/Adjustment

#### **△**Warning

①Set 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.

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## Series ARJ210

Lightweight body made of aluminum (60g)

Two styles of piping connections provided for the IN side: 1/8 (male threads) and M5 (female threads)





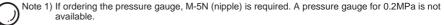
ARJ210-M5BG

**Standard Specifications** 

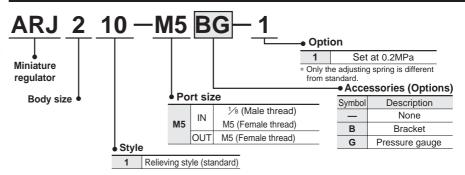
Model		ARJ210-M5	
Dowt size	IN side	1/8 (Male thread), M5 X 0.8 (Female thread)	
Port size	OUT side	M5 (Female thread 2 pcs.)	
Fluid	·	Air	
Proof pressure		1.2MPa	
Max. operating te	mperature	0.8MPa	
Set pressure rang	је	0.2 to 0.7MPa	
Pressure gauge p	ort size	M5 (Female thread)	
Ambient and fluid	temperature	-5 to 60°C (Non-freezing)	
Weight (kg)		0.06	

Accessories (Options) Part No.

Bracket	134856	
Pressure gauge (1)	G27-10-M5-X 201	
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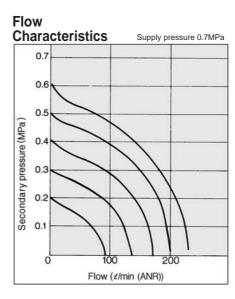


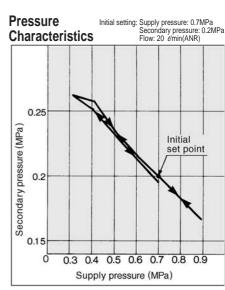
#### **How to Order**



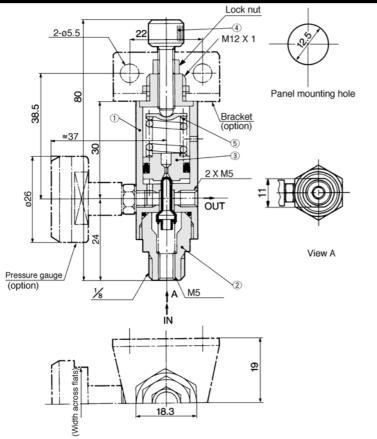
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#### **Construction/Dimensions**



No.	Description	Material	Note
1	Body	Aluminum alloy	Black anodized
2	Valve guide	Brass	Electroless nickel plated
3	Piston	Brass	
(2) (3) (4) (5)	Adjusting screw	Brass	Electroless nickel plated
5	Adjusting spring	Steel wire	Zinc chromated

#### **A** Precautions

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#### Selection

#### **△Warning**

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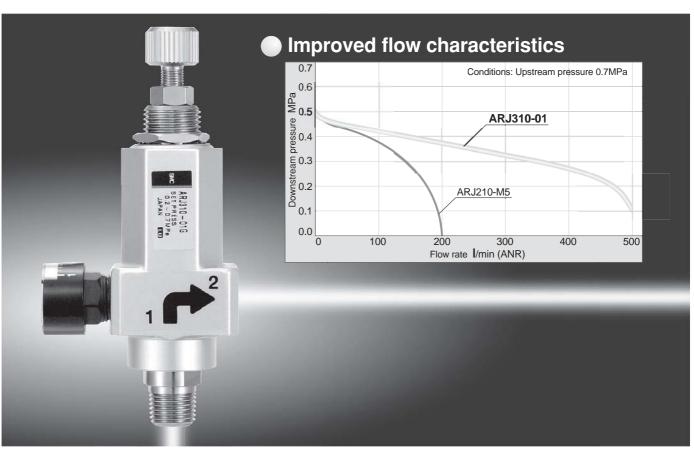
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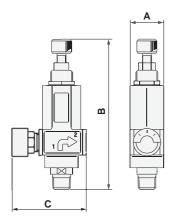
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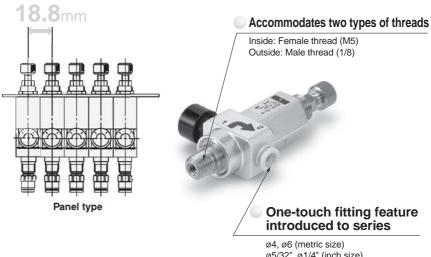
# Series ARJ310



## Compact and light weight Allows smaller mounting pitch



				mm
Model	A (Width)	B (Height)	C (Depth)	Weight
ARJ310-01G	18.3	82.5	Approx. 41	<b>Approx. 70</b> g (Body: 65g)
ARJ210-M5G	26	80	Approx. 46	Approx. 75g (Body: 60g)



ø5/32", ø1/4" (inch size)

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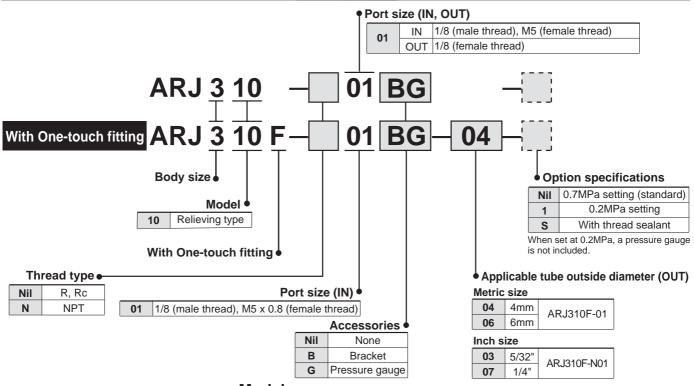
**ITV** 

**VBA** 

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# Miniature regulator Series ARJ310

#### **How to Order**







Model	Port size		
	IN Note)	OUT	
ARJ310-01	R 1/8, M5	Rc 1/8	
ARJ310-N01	NPT 1/8, M5	NPT 1/8	
ARJ310F-01-04	D 4/0 ME	ø4 One-touch fitting	
ARJ310F-01-06	R 1/8, M5	ø6 One-touch fitting	
ARJ310F-N01-03	NDT 4/0 ME	ø5/32 One-touch fitting	
ARJ310F-N01-07	NPT 1/8, M5	ø1/4 One-touch fitting	

Note) M5 x 0.8 female thread is cut inside the pipe.

#### **Standard Specifications**

Pressure gauge port size	Rc 1/8, NPT 1/8 (female thread)
Fluid	Air
Proof pressure	1.2MPa
Maximum operating pressure	0.8MPa
	Standard: 0.2 to 0.7MPa,
Regulating pressure range	Low pressure use (0.2MPa setting): 0.05 to 0.2MPa
Ambient and operating temperature range	-5 to 60°C (with no freezing)
Weight	Approx. 65g

#### **Optional Accessory Part Numbers**

Bracket	134856
Pressure gauge Note)	G15-10-01 (Rc 1/8)/G15-P10-N01(NPT 1/8)

Note) Pressure gauges for 0.2MPa are not available.