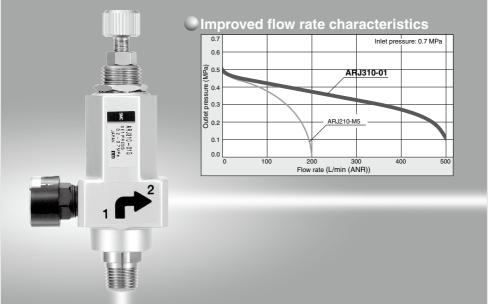
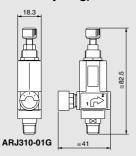
Miniature Regulator

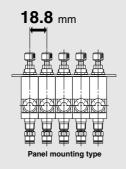
ARJ310 Series





Compact and lightweight Allows smaller mounting pitch (Main body 65 g)







ø4, ø6 (Metric size) ø5/32", ø1/4" (Inch size) ARJ

AR425 to 935

ARX AMR

ARM

ARP

IR□-A

IRV

VEX

SRH SRP

SRF

ITV IC

ITVH

ITVX PVQ

VY1

VBA VBAT

AP100

Miniature Regulator ARJ310 Series

Standard Specifications





Pressure gauge port size	Rc 1/8, NPT 1/8 (Female thread)
Fluid	Air
Proof pressure	1.2 MPa
Maximum operating pressure	0.8 MPa
Regulating pressure range	Standard: 0.2 to 0.7 MPa, Low pressure use (0.2 MPa setting): 0.05 to 0.2 MPa
Ambient and operating temperature range	−5 to 60°C (No freezing)
Construction	Relieving type
Weight (kg)	0.065

Model

Model	Port size		
	IN *	OUT	
ARJ310-01	R1/8, M5 x 0.8	Rc 1/8	
ARJ310-N01	NPT1/8, M5 x 0.8	NPT 1/8	
ARJ310F-01-04	R1/8, M5 x 0.8	ø4 One-touch fitting	
ARJ310F-01-06		ø6 One-touch fitting	
ARJ310F-N01-03		ø5/32" One-touch fitting	
ARJ310F-N01-07	NPT1/8, M5 x 0.8	ø1/4" One-touch fitting	

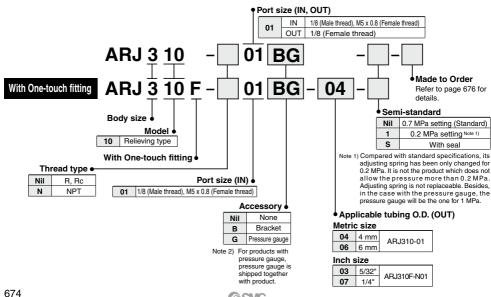
^{*} M5 x 0.8 female thread is cut inside the pipe.

Accessory (Option) Part No.

Bracket	134856	
Pressure gauge Note)	G15-10-01(Rc1/8)/G15-P10-N01(NPT1/8)	

Note) Pressure gauges (G15) for 0.2 MPa are not available.

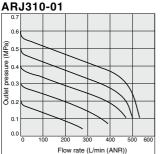
How to Order

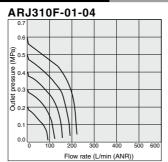


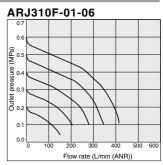
Miniature Regulator ARJ310 Series

Flow Rate Characteristics (Representative Values)

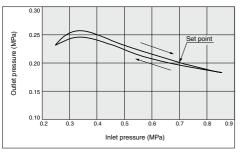
Inlet pressure: 0.7 MPa







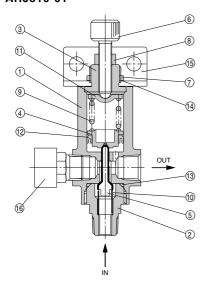
Pressure Characteristics (Representative Values)



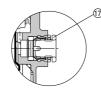
Conditions: Inlet pressure 0.7 MPa Outlet pressure 0.2 MPa Flow rate Q = 20 L/min (ANR)

Construction

ARJ310-01



ARJ310F-01



Component Parts

No.	Description	Material	Note	
1	Body	Aluminum alloy		
2	Valve guide	Brass	ass Electroless nickel plated	
3	Bonnet	Brass	Electroless nicke	el plated
4	Piston	POM		
5	Valve	Brass	Rubber lining mater	rial: HNBR
6	Adjusting screw	Iron	Nickel plat	ed
7	Panel nut	Iron	Zinc chrom	ated
8	Hexagon nut	Iron	Zinc chromated	
9	Adjusting spring	Steel wire	Zinc chrom	ated
10	Valve spring	Stainless steel		
11	Spring holder	Steel band	Zinc chrom	ated
12	Mini Y-seal	NBR		
13	O-ring	NBR		
14	Lock washer	SS	Zinc chromated	
15	Bracket	Steel band	Electrophoretic painting	Accessory
16	Pressure gauge	_		Accessory
17	Cassette	POM, Stainless steel		

SMC

ARJ AR425 to 935

ARX AMR

ARM

ARP

IR□-A

IR

IRV

VEX SRH

SRP

SRF

ITV IC

ITVH

ITVX

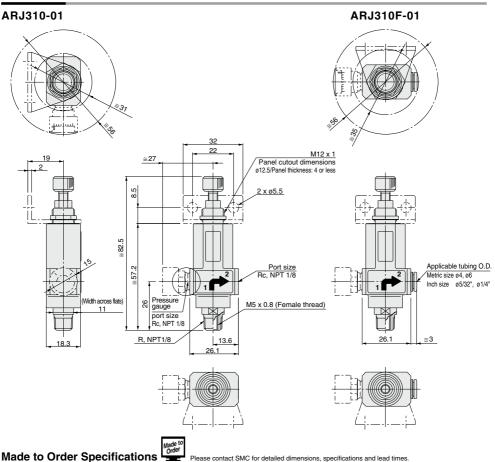
PVQ

VY1

VBA VBAT AP100

ARJ310 Series

Dimensions



For moderate pressure (0.4 MPa Setting): Compared with standard specifications, its adjusting spring has been only changed for 0.4 MPa. It is not the product which does not allow the pressure more than 0.4 MPa. Adjusting spring is not replaceable.

How to Order **ARJ 3 10-**01 B X204 Made to Order Body size X204 0.4 MPa Setting (For moderate pressure) Model • Semi-standard Relieving type Thread type Nil 0.7 MPa setting (Standard) Nil R, Rc 0.2 MPa setting Note) NPT With seal Port size (IN-OUT) • Note 1) Compared with standard specifications, its adjusting spring has been only changed for 0.4 MPa. It is not the 1/8 (Male thread), M5 x 0.8 (Female thread) Accessory product which does not allow the pressure more than

None

Bracket

SMC

0.4 MPa. Adjusting spring is not replaceable.

Nil

В

OUT

1/8 (Female thread)



ARJ310 Series Specific Product Precautions

Be sure to read this before handling the products.

Refer to back page 50 for Safety Instructions and pages 387 to 391 for Precautions on every series.

Design and Selection

⚠ Warning

- This product cannot be used as a check regulator by installing it between solenoid valve and actuator. It can result in causing breakdown and malfunction.
- 2. When piping, tighten the regulator with the recommended proper tightening torque shown in the table below while holding the wrench flats (width 11) of the valve guide for IN port and holding the hexagonal section of the body for the OUT port. Excessive tightening or holding a part other than those specified can cause damage.
- While piping to products or operating the knob, ensure that an excess bending moment should not be applied to a product, because it may result in damage.

Recommended proper torque

Connection thread	Recommended proper torque [N·m]	Note	
M5	1.0 to 1.5	The recommended torque when using a tightening tool to tighten an additional 1/6 to 1/4 turn after tightening by hand	
R1/8	7 to 9	_	

Mounting

To set the correct pressure

 Make connections after confirming the mark which indicates the air inlet. Reversed connections can cause malfunction.

ARJ

AR425 to 935

ARX

ARM

ARP

IR□-A

IR

IRV VEX

SRH

SRP

SRF

IC

ITVH

PVQ VY1

> VBA VBAT

AP100