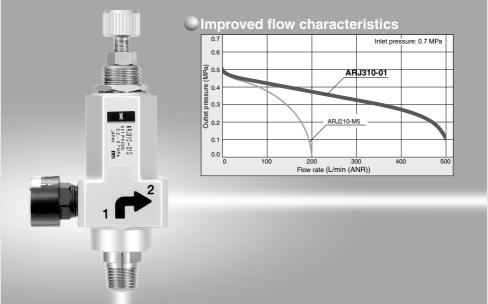
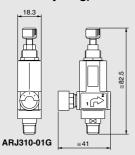
Miniature Regulator

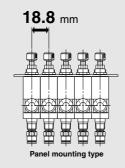
Series ARJ310





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







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

SMC

ARJ

AR425 to 935

AMR

ARM

ARP

IR IRV

VEX

SRH

SRP SRF

VCHR

ITV

IC ITVX

PVQ

VEF VEP

VER

VEA VY1

VBA VBAT

AP100

Miniature Regulator Series ARJ310

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	D.//2.145 0.0	ø4 One-touch fitting	
ARJ310F-01-06	R1/8, M5 x 0.8	ø6 One-touch fitting	
ARJ310F-N01-03	NETT (O. M.E. O. O.	ø5/32" One-touch fitting	
ARJ310F-N01-07	NPT1/8, M5 x 0.8	ø1/4" One-touch fitting	

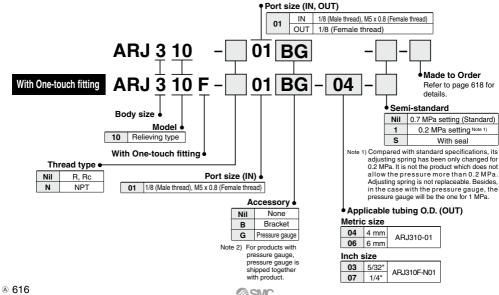
^{*} M5 x 0.8 female thread is cut inside the pipe.

Accessory (Option) Part No.

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

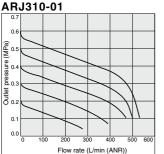
Note) Pressure gauges (G15) for 0.2 MPa are not available.

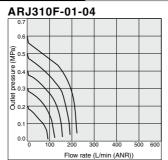
How to Order

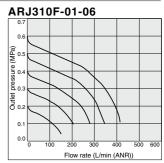


Flow Characteristics (Representative Values)

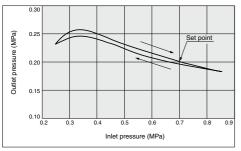
Inlet pressure: 0.7 MPa







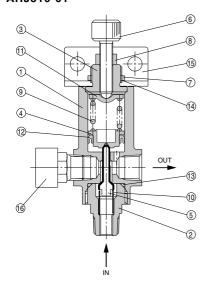
Pressure Characteristics (Representative Values)



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

Construction

ARJ310-01



ARJF310F-01



Component Parts

sempendin rane							
No.	Description	Material	Note				
1	Body	Aluminum alloy					
2	Valve guide	Brass	Electroless nickel plated				
3	Bonnet	Brass	Electroless nickel plated				
4	Piston	POM					
5	Valve	Brass	Rubber lining material: HNBR				
6	Adjusting screw	Iron	Nickel plated				
7	Panel nut	Iron	Zinc chromated				
8	Hexagon nut	Iron	Zinc chromated				
9	Adjusting spring	Steel wire	Zinc chromated				
10	Valve spring	Stainless steel					
11	Spring holder	Steel band	Zinc chromated				
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

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AMR ARM

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VEX

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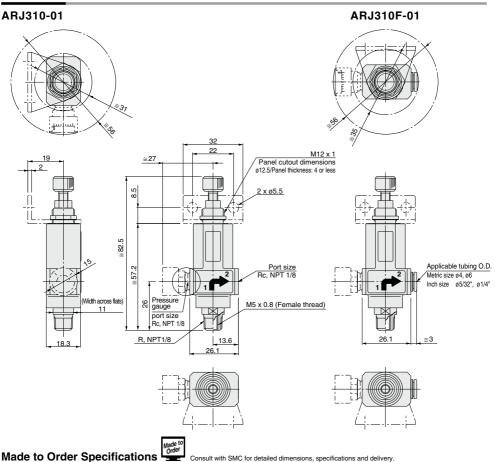
VEA VY1

VBA VBAT

617

Series ARJ310

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 10 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 Nil 0.4 MPa. Adjusting spring is not replaceable. OUT 1/8 (Female thread) None

Bracket

SMC

В



Series ARJ310 Specific Product Precautions

Be sure to read before handling. Refer to front matter 43 for Safety Instructions and pages 365 to 369 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 (M5: 1.5 to 2 N·m, R 1/8: 7 to 9 N·m) 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 handle, ensure that an excess bending moment should not be applied to a product, because it may result in damage.

Mounting

∧ Caution

To set the correct pressure

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

ARJ

AR425

ARX

ARM

ARP

IR

IRV

VEX

SRH

SRP

VCHR

ITV

IC ITVX

PVQ

VEF VEP

VEA

VY1

AP100