

Precision Regulator

RoHS

IR1000-A/2000-A/3000-A Series

Symbol



Basic type
(Knob)

Standard Specifications

Model	Basic type (Knob)		
	IR10□0-A	IR20□0-A	IR30□0-A
Fluid	Air		
Proof pressure	1.5 MPa		
Max. supply pressure	1.0 MPa		
Min. supply pressure ^{Note 1)}	Set pressure + 0.05 MPa		
Set pressure range	IR1000-A: 0.005 to 0.2 MPa	IR2000-A: 0.005 to 0.2 MPa	IR3000-A: 0.01 to 0.2 MPa
	IR1010-A: 0.01 to 0.4 MPa	IR2010-A: 0.01 to 0.4 MPa	IR3010-A: 0.01 to 0.4 MPa
	IR1020-A: 0.01 to 0.8 MPa	IR2020-A: 0.01 to 0.8 MPa	IR3020-A: 0.01 to 0.8 MPa
Sensitivity	Within 0.2% of full span		
Repeatability ^{Note 2)}	Within ±0.5% of full span		
Air consumption ^{Note 3)}	1 L/min (ANR) or less		
Port size	1/8	1/4	1/4, 3/8, 1/2
Pressure gauge port	1/8 (2 locations)		
Ambient and fluid temperature ^{Note 4)}	-5 to 60°C (No freezing)		
Weight (kg) ^{Note 5)}	0.13	0.23	0.47

Note 1) When there is no flow rate on the outlet.

Note 2) Other characteristics such as aging deterioration and temperature characteristics are not included.

Note 3) Measuring conditions: supply pressure 1.0 MPa, set pressure 0.2 MPa

Note 4) 0 to 50°C for the products with the digital pressure switch

Note 5) Without accessories

Accessories (Option)/Part No.

Description	IR10□0-A	IR20□0-A	IR30□0-A
Bracket assembly ^{Note 1)}	IR10P-501AS	IR20P-501AS	IR30P-501AS
Hexagon panel nut	IR10P-600S	IR20P-600S	IR20P-600S
Round type pressure gauge ^{Note 2)}	0.2 MPa setting	G33-2-□01	G43-2-□01
	0.4 MPa setting	G33-4-□01	G43-4-□01
gauge ^{Note 2)}	0.8 MPa setting	G33-10-□01	G43-10-□01
	NPN 1 output	ISE30A-□01-N-ML	
Digital pressure switch ^{Note 3)}	PNP 1 output	ISE30A-□01-P-ML	
	NPN 1 output/ Voltage output	ISE30A-□01-C-ML	
	NPN 1 output/ Current output	ISE30A-□01-D-ML	

Note 1) This is an assembly of the bracket and set nut.

Note 2) □ in part numbers for a round type pressure gauge indicates a type of connection thread. No indication is necessary for R; however, indicate N for NPT.

A 1.0 MPa pressure gauge is fitted for 0.8 MPa setting.

Please contact SMC regarding the supply of pressure gauge with psi unit specifications.

Note 3) □ in part numbers for a digital pressure switch indicates a type of connection thread. No indication is necessary for R; however, indicate N for NPT. For details on handling digital pressure switch and specifications, refer to the Best Pneumatics No. 8.

Please contact SMC regarding the supply of digital pressure switch with unit conversion function.

Modular Products and Accessories

Applicable products and accessories	Applicable size		
	IR1000-A series	IR2000-A series	IR3000-A series
Filter	AF20-A	AF30-A	AF40-A
Spacer	Y200-A	Y300-A	Y400-A
Spacer with bracket	Y200T-A	Y300T-A	Y400T-A

Refer to pages 427 and 430 for details of the modular applicable products and accessories. The former modular and mounting brackets can be used.