

! Contact our sales office for delivery dates and prices as this is a special model.

Specialized Product **P.G.** Point to Group information

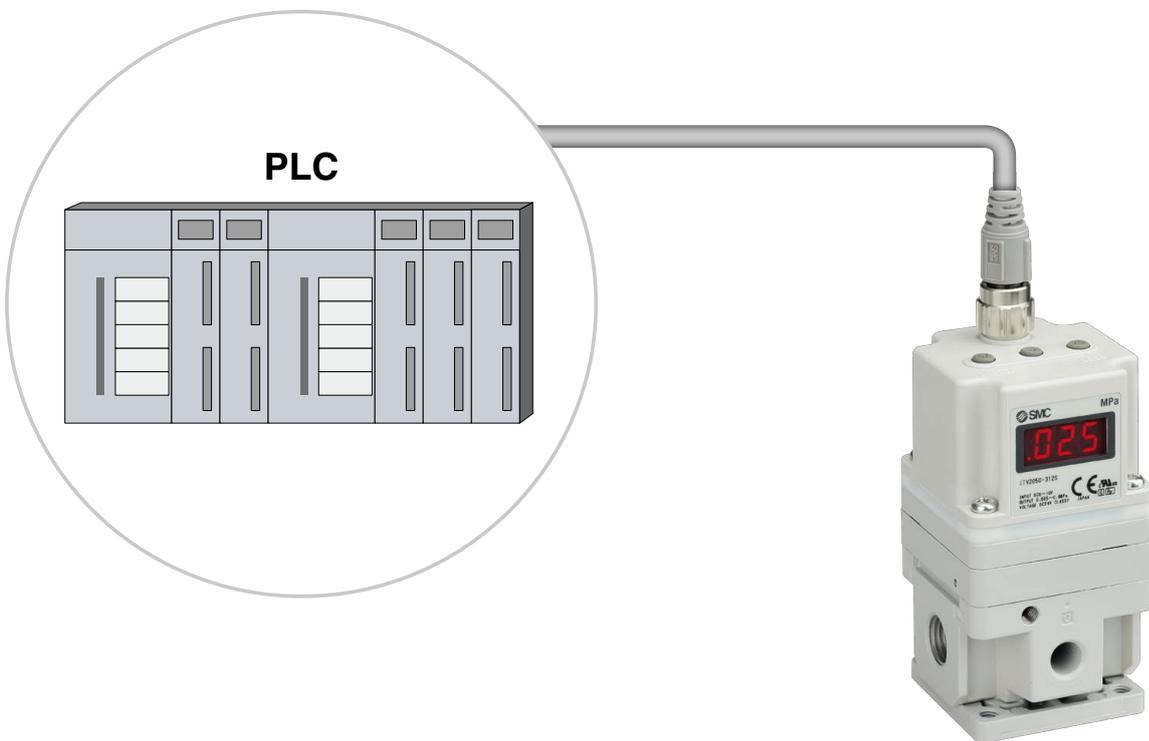
Electro-pneumatic Regulator

ITV1000/2000/3000-□4□□□□□-X256

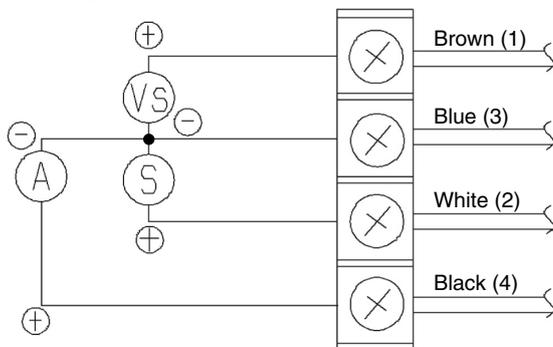
Features

Monitor output: Analog, 4 to 20 mA DC **Source type**

Analog output of the ITV can be monitored by the PLC corresponding to the source type.



Wiring



Vs: Power supply 24 VDC
S: Input signal 4 to 20 mA DC (ITV□0□0-04)
0 to 20 mA DC (ITV□0□0-14)
0 to 5 VDC (ITV□0□0-24)
0 to 10 VDC (ITV□0□0-34)
A: Output signal 4 to 20 mA DC



Caution

To ensure the safest possible operation of this product, please be sure to thoroughly read the "Safety Instructions" in our "Best Pneumatics" catalog before use.

Specifications (Pressure, flow rate, and relief characteristics are equivalent to the standard product. Refer to the Web Catalog.)

Model	ITV1010		ITV1030		ITV1050	
	ITV2010		ITV2030		ITV2050	
	ITV3010		ITV3030		ITV3050	
Minimum supply pressure	Set pressure + 0.1 MPa					
Maximum supply pressure	0.2 MPa			1.0 MPa		
Set pressure range *1	0.005 to 0.1 MPa		0.005 to 0.5 MPa		0.005 to 0.9 MPa	
Power supply	Voltage		24 VDC ±10%			
	Current consumption		0.12 A or less			
Input signal	Current type		4 to 20 mA DC, 0 to 20 mA DC			
	Voltage type		0 to 5 VDC, 0 to 10 VDC			
Input impedance	Current type		250 Ω or less			
	Voltage type		Approx. 6.5 kΩ			
Output signal (Monitor output)		Analog output: 4 to 20 mA DC (Source type)				
Linearity		±1%F.S. or less				
Hysteresis		0.5%F.S. or less				
Repeatability		±0.5%F.S. or less				
Sensitivity		0.2%F.S. or less				
Temperature characteristics		±0.12%F.S./°C or less				
Output pressure display *2	Accuracy		±2%F.S. ±1 digit or less			
	Minimum unit		MPa: 0.001, kgf/cm ² : 0.01, bar: 0.01, psi: 0.1 *3, kPa: 1			
Ambient and fluid temperatures		0 to 50°C (No condensation)				
Enclosure		IP65				
Weight	ITV10□0		Approx. 250 g (without options)			
	ITV20□0		Approx. 350 g (without options)			
	ITV30□0		Approx. 645 g (without options)			

*1 When the product is in an "as-shipped" condition, the output pressure when a 0% input signal is applied is 0 kPa. However, there are some cases in which there is a residual pressure of 0.005 MPa or less. If the pressure needs to be reduced to 0 kPa, install a 3-port valve on the output side to exhaust the residual pressure.

*2 The adjustment of a numerical value such as zero or span adjustment is set based on the minimum unit of the output pressure display. (Example: 0.001 to 0.500 MPa) Note that this unit cannot be changed.

*3 The minimum unit for 0.9 MPa (130 psi) types is 1 psi.

* The above characteristics are confined to the static state. When air is consumed on the output side, the pressure may fluctuate.

How to Order (CE-compliant product)

ITV 3 0 1 0 - 0 4 □ 2 □ S □ - X256

Model

1	1000 type
2	2000 type
3	3000 type

Pressure range

1	0.1 MPa
3	0.5 MPa
5	0.9 MPa

Power supply voltage

0	24 VDC
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Input signal

0	Current type 4 to 20 mA DC
1	Current type 0 to 20 mA DC
2	Voltage type 0 to 5 VDC
3	Voltage type 0 to 10 VDC

Monitor output

4	Analog output 4 to 20 mA DC (Source type)
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Thread type

Nil	Rc
N	NPT
T	NPTF
F	G

Analog output 4 to 20 mA DC (Source type)

Pressure display unit

Nil	MPa
2*1	kgf/cm ²
3	bar
4*1	psi
5	kPa

*1 This is only for overseas sales as SI units are to be used within Japan under Japan's New Measurement Act.

Cable connector type

S	Straight type 3 m
L	Right angle type 3 m
N	Without cable connector

Bracket

Nil	Without bracket
B	Flat bracket
C	L-bracket

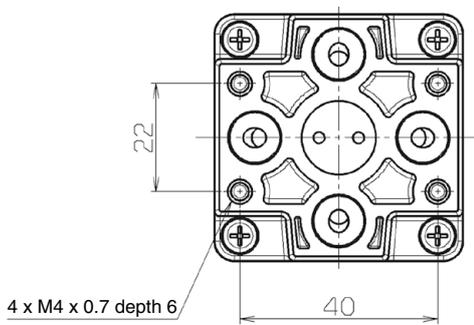
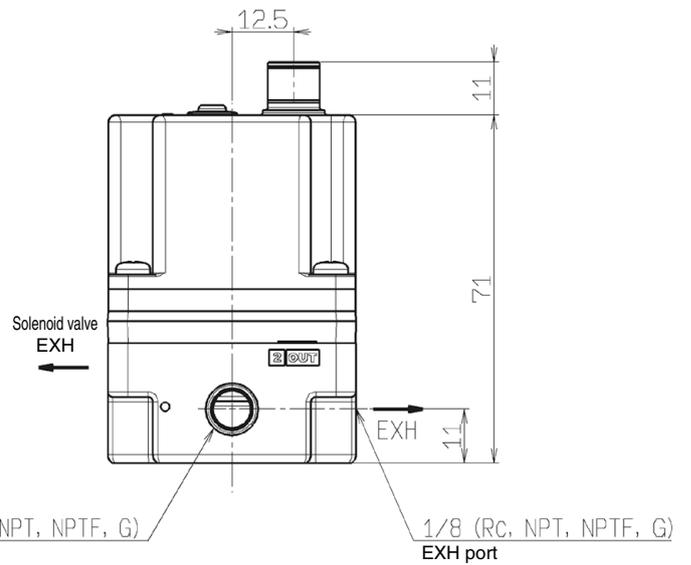
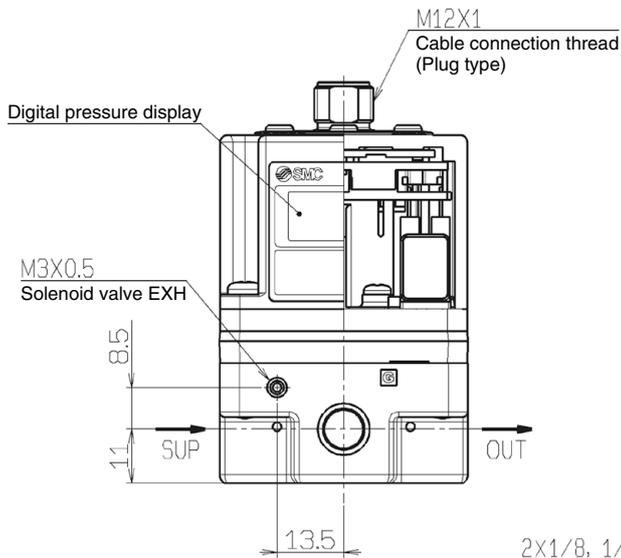
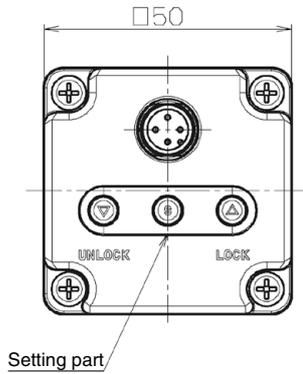
Port size

1	1/8 (1000 type)
2	1/4 (1000, 2000, 3000 type)
3	3/8 (2000, 3000 type)
4	1/2 (3000 type)

Dimensions

[mm]

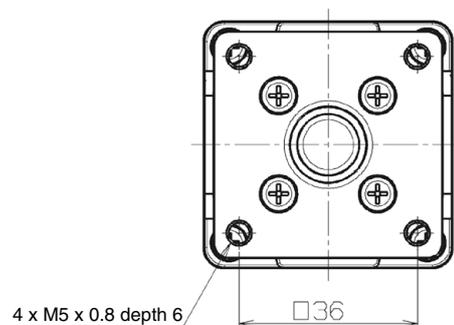
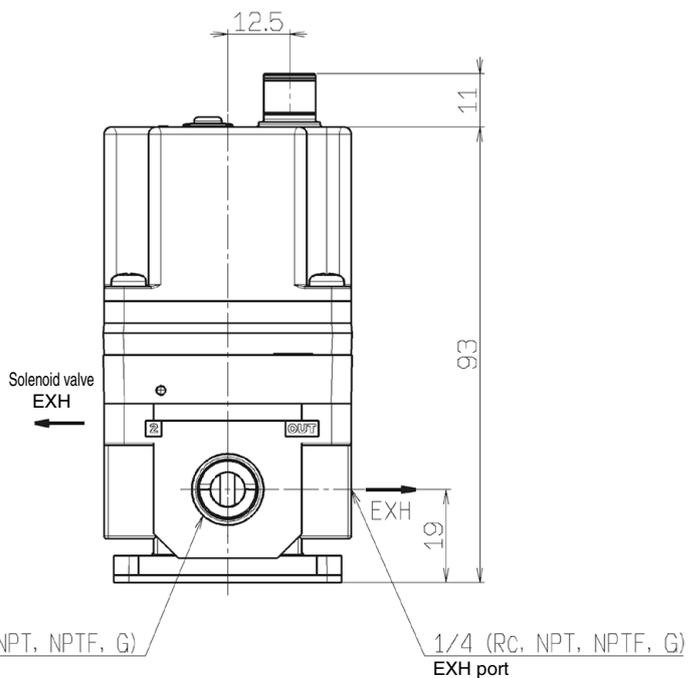
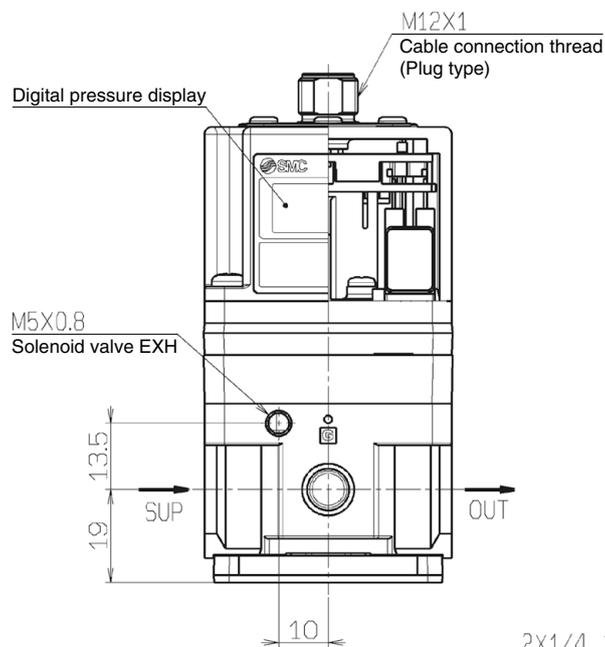
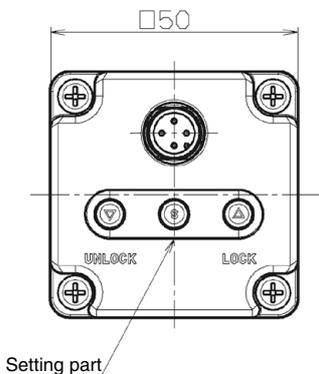
ITV1000



Dimensions

[mm]

ITV2000



Dimensions

[mm]

ITV3000

