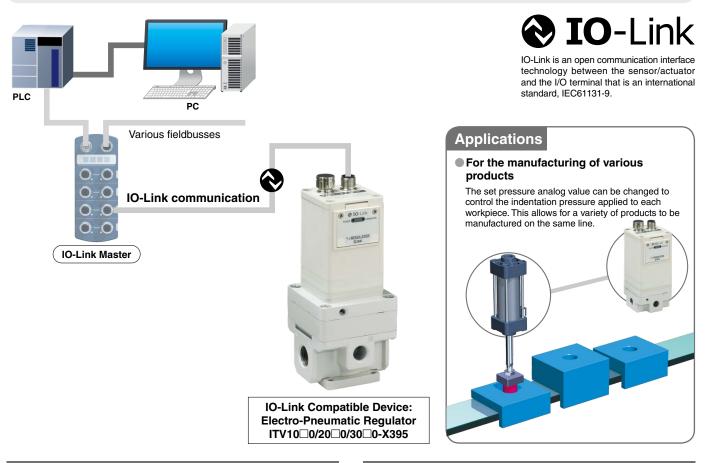
Specialized Product **PG**. information

IO-Link Compatible Electro-Pneumatic Regulator ITV10 0/20 0/30 0-X395

IO-Link communication enables users to check Features device information and monitor device status in addition to performing pressure control.



Send and receive pressure control signals, device information, and the set contents.

Sending and receiving of device information, the set contents, and condition monitoring data

<Device Information> Manufacturer's name, product number, version information

<Set Contents> Set pressure value, gain/sensitivity adjustment <Conditioning Monitoring> Output pressure value

The IO-Link master and unit can be connected with one cable.

Only a single cable combining the communication wire and the power supply wire is required.

Uses 4-wire unshielded cables

Special communication cables are not necessary.

A conventional 4-wire unshielded cable can be used for input and output of sensors, switches, etc.

(Recommended specifications: Conductor resistance 3Ω , Wire-to-wire capacitance 3 nF or less, 20 m or less)

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



SMC Corporation 4-14-1, SOTO-KANDA, CHIYODA-KU, TOKYO 101-0021, JAPAN URL: http://www.smcworld.com ©2018 SMC Corporation All Rights Reserved

Specifications

Standard Specification

ltem		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		0.005 to 0.1 MPa	0.005 to 0.5 MPa	0.005 to 0.9 MPa	
Voltage		24 VDC ±10%			
Power supply	Current consumption	0.12 A or less			
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 chara	acteristics	±0.12% F.S./°C or less			
Ambient and fluid	temperatures	0 to 50°C (No condensation)			
Enclosure		IP65			
ITV10□□		355 g			
Weight	ITV20	455 g			
	ITV30	750 g			
Standards		CE marking, UL			

Communication Specifications

Item	ITV10□0/20□0/30□0-X395
Protocol	IO-Link version 1.1
Communication speed	COM3 (230.4 kbps)
IO-Link port	Class A
IO-Link type	Device
Vendor ID	131
Process data	Input: 2 bytes, Output: 2 bytes

Wiring Specifications

Power supply c	onnector	1		
M12 4-pin plug	I, A-code	d		
	No.	Designation	Function	Mating cable examples [M12 connector (socket) — Separate lines]
1 4	1	L+ (Vcc)	+24 V for control unit	: P398020-500-3 (3 m, straight, 4 cores) : P398020-501-3 (3 m, angle, 4 cores)
(6°3))	2	_	Not used	: EX500-AP010-S (3 m, angle, 4 cores)
_ , 🔍 , [3	L– (GND)	0 V for control unit	: EX500-AP010-A (1 m, angle, 5 cores)
	4	C/Q	IO-Link communication data	: EX500-AP050-S (5 m, straight, 5 cores)
L				: EX500-AP050-A (5 m, angle, 5 cores)
				[M12 connector (socket) — M12 connector (plug)]
				: PCA-1557769 (3 m, straight, 4 cores)

IODD files are required to configure this product.
Please contact SMC for the IODD files.
Also, please contact SMC for the operation manual.

This product uses the following system to check operation.

1. When IO-Link is used from the master Fieldbus via the IO-Link master

PI C	Master Fieldbus	IO-Link Master	IO-Link communication	Products
FLC				FIOUUCIS

[IO-Link Master List]

Manufacturer Master Fieldbus		Part number	
Balluff	Profinet	BNI PNT-508-105-Z015	
	Profibus	BNI PBS-502-101-Z001	

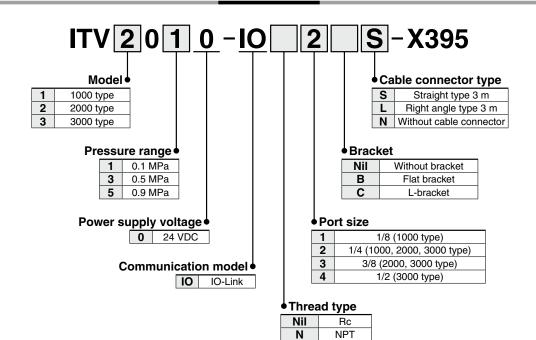
2. When the IO-Link master is mounted on the PLC to use IO-Link

PLC	IO-Link communication	Products	
IO-Link Master		FIGUUCIS	

[IO-Link Master List]

Manufacturer	PLC Series
Siemens	ET200SP

How to Order



NPTF

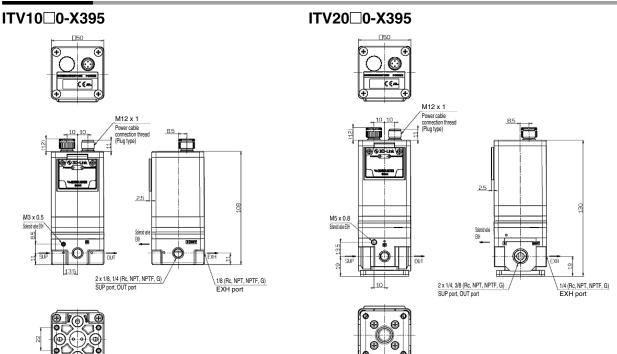
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* Refer to the Web Catalog for brackets and cables.

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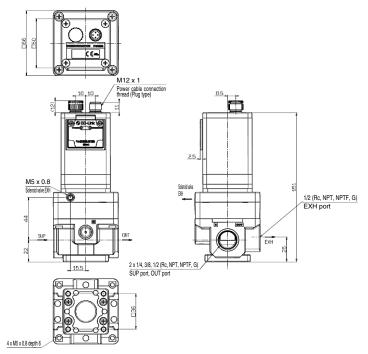
Dimensions



4 x M5 x 0.8 depth 6

ITV3000-X395

4 x M4 x 0.7 depth 6



▲ Caution

- When the product is in an "as-shipped" condition, the output pressure when a 0% input signal is applied is 0 MPa. 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 MPa, install a 3-port valve on the output side to exhaust the residual pressure.
- The M12 connector on which the word "COMMUNICATION" is printed should not be used, so do not remove the cap.

