

XITV Series Electro Pneumatic Regulator



XITV2050-31F2CL

Product Features

Electrical proportional valves have the features of high control accuracy, rapid response, sensitive response, and simple structure etc. It can be achieved the accurate control of fluid flow rate, temperature, pressure and other parameters, improving production efficiency and quality. At the same time, electrical proportional valves can also be connected to control systems such as computers or PLCs through digital interfaces, achieving intelligent control and remote operation, providing strong support for the automation process of modern industry. Application areas include industrial automation control, fluid transportation, airport pavement oil emulsion removal, vehicle braking, concrete pump transportation, etc

- 1) Electrical proportional way, realize infinite control of outlet pressure.
- 2) Can realize remote control and program control.
- 3) Compared with intermittent control, the system is simplified and the components are decreased more
- 4) Compared with hydraulic proportional valves, it has small dimensions, light weight, compact structure, lightweight, and lower cost
- 5) Low power consumption: below 4W (communication way)
- 6) No occurring fire, no pollution to the environment, and less affected by temperature changes

Ordering Code

XITV - **3** **0** - **1** **0** **0** **1** **2** **S**

Series Electrical Proportional Valve	Nominal Voltage 0: DC24V 1: DC12-15V	Thread Type Blank: Rc N: NPT T: NPTF F: G	Bracket¹⁾ Blank: Without Bracket B: Flat Bracket C: L-bracket	Pressure Display Unit Blank: MPa 2 ²⁾ : kgf/cm ² 3: bar 4 ²⁾ : psi 5: kPa
Model 1: 1000Type 2: 2000Type 3: 3000Type	Pressure Range 1: 0.1MPa 3: 0.5MPa 5: 0.9MPa	Port Size 1: 1/8 (1000Type) 2: 1/4 (1000、2000、3000Type) 3: 3/8 (2000、3000Type) 4: 1/2 (3000Type)	Cable Connector Type S: Straight Type 3 m L: Right Angle Type 3 m N: Without Cable Connector	
Input Signal/Communication Model		Monitor Output		
0	Current type 4 to 20 mADC (Sink type)	1	Analog output 1 to 5 VDC	
1	Current type 0 to 20 mADC (Sink type)	2	Switch out/NPN output	
2	Voltage type 0 to 5 VDC	3	Switch out/PNP output	
3	Voltage type 0 to 10 VDC	4	Analog Output 4 to 20 mADC (Sink Type)	
40	4 points preset input	Blank	None	
52	16 points preset input (Switch output/NPN output)			
53	16 points preset input (Switch output/PNP output)			
60	10-bit digital input			
CC	CC-Link			
DE	DeviceNet			
PR	PROFIBUS DP			
RC	RS-232C communication			
IL	IO-Link			

1) The Bracket is Included.
2) This Product is for Overseas use only according to the new measurement Act. (The SI unit type is provided for use in Japan.) For the Communication Models CC, DE, PR, and RC, Only "Blank" is available as it does not have a pressure display.

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Specification

Model	ITV101 □	ITV103 □	ITV105 □
	ITV201 □	ITV203 □	ITV205 □
	ITV301 □	ITV303 □	ITV305 □
Min. Supply Pressure	Set pressure + 0.1 MPa		
Max. 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
Power Supply	Voltage	24 VDC ±10%, 12 to 15 VDC	
	Current Consumption	Power Supply Voltage 24 VDC type: 0.12 A or less Power Supply Voltage 12 TO 15VDC Type: 0.18 A or less	
Input Signal	Current Type	4 to 20 mADC, 0 to 20 mADC (Sink Type)	
	Voltage Type	0 to 5 VDC, 0 to 10 VDC	
	Preset Input	4 Points (Negative Common), 16 points (No Common Polarity)	
	Digital Input	10 bits (Parallel)	
Input Impedance	Current Type	250 Ω or less	
	Voltage Type	Approx. 6.5 kΩ	
	Preset Input	Power Supply Voltage 24 VDC Type: Approx. 4.7 kΩ Power Supply Voltage 12 VDC Type: Approx. 2.0 kΩ	
	Digital Input	Approx. 4.7 kΩ	
Output Signal (Monitor Output)	Analog Output	1 to 5 VDC (Output impedance: Approx. 1 kΩ) 4 to 20 mADC (Sink type) (Output impedance: 250 Ω or less) output accuracy ±6% F.S. or less	
	Switch Output	NPN open collector output: Max. 30 V, 80 mA PNP open collector output Max. 80 mA	
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	Accuracy	±2% F.S. + 1 digit or less	
	Min. unit	MPa: 0.001, kgf/cm ² : 0.01, bar: 0.01, psi: 0.1, kPa: 1	
Ambient and fluid temperatures	0 to 50°C (No condensation)		
Enclosure	IP65		