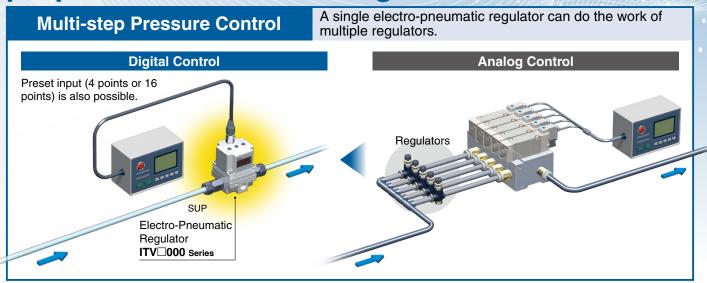


Electro-Pneumatic Regulators

For the stepless control of air pressure in proportion to electrical signals







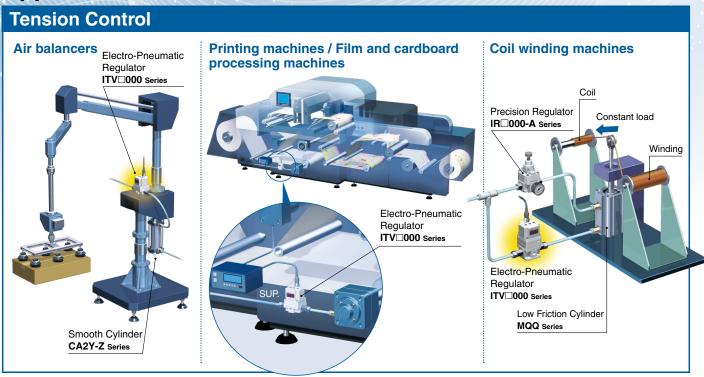


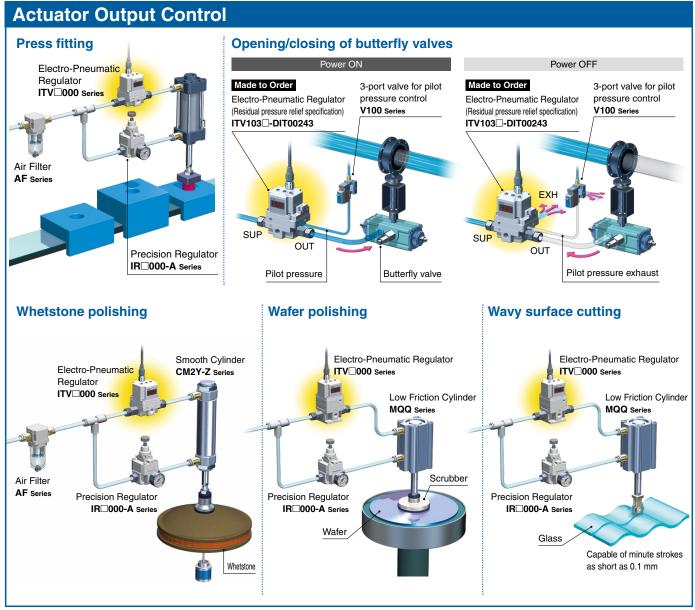






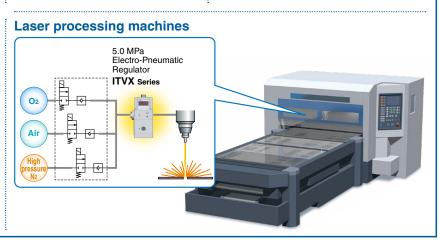
Applications





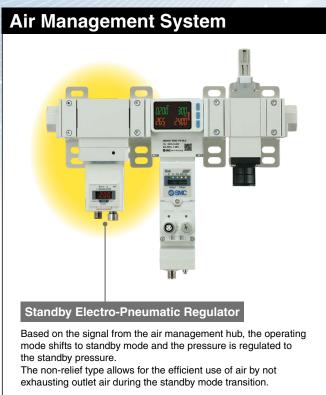
Flow Rate Control By fixing the nozzle orifice, pressure control can be used to control the flow rate. **Cleaning machines Filling machines Painting machines** Electro-Pneumatic Regulator Made to Order Electro-Pneumatic Regulator ITV1000 Series ITV1000 Series High-flow rate Air Filter ITV2/3000-X600 Electro-Pneumatic Regulator (White vaseline, Fluororubber specification) Process Pump VEX-X115 Clean SUP Regulator SRF Series Control signal Coating 🎳 nozzle Coating Controller material

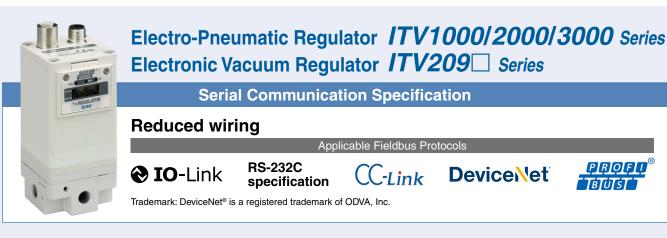




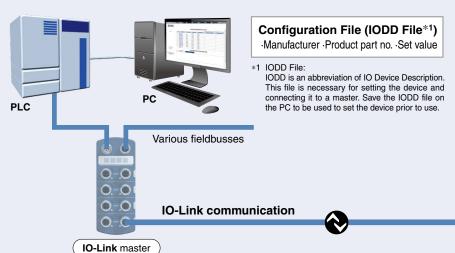














IO-Link is an open communication interface technology between the sensor/ actuator and the I/O terminal that is an international standard: IEC 61131-9.



Series Variations

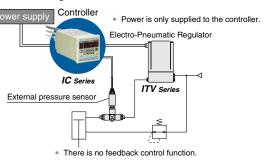
	Series	Model	Set pressure range	Max. flow rate	Sensitivity
Electro-Pneumatic Regulators	ITV0000 Series	ITV001□	0.001 to 0.1 MPa	6 L/min (ANR)	0.2% F.S. or less
		ITV003□	0.001 to 0.5 MPa		
		ITV005□	0.001 to 0.9 MPa		
	ITV1000 Series	ITV101□	0.005 to 0.1 MPa	200 L/min (ANR)	
		ITV103□	0.005 to 0.5 MPa		
		ITV105□	0.005 to 0.9 MPa		
	ITV2000 Series	ITV201□	0.005 to 0.1 MPa	1500 L/min (ANR)	
		ITV203□	0.005 to 0.5 MPa		
		ITV205□	0.005 to 0.9 MPa		
	ITV3000 Series	ITV301□	0.005 to 0.1 MPa	4000 L/min (ANR)	
		ITV303□	0.005 to 0.5 MPa		
		ITV305□	0.005 to 0.9 MPa		
Electronic Vacuum Regulators	ITVH Series 3.0 MPa	ITVH2020	0.2 to 2.0 MPa	3000 L/min (ANR)	±1% F.S. or less
	ITVX Series 5.0 MPa	ITVX2030	0.01 to 3.0 MPa	3000 L/min (ANR)	
Electronic Vacuum Regulators	ITV009□ Series	ITV009□	−1 to −100 kPa	_	0.2% F.S. or less
	ITV209□ Series	ITV209□	−1.3 to −80 kPa	_	

Controller for Electro-Pneumatic Regulator *IC Series*

- Converts digital signals into analog signals
- The controller can be installed separately.



 Can be used in combination with ITV series electropneumatic regulators



Made to Order

Regulator Valve VEX-X115-Q

Supports 4 high-flow sizes and port sizes of up to 2"



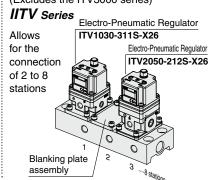
Electro-Pneumatic Regulator (Residual pressure relief specification)

Exhausts the OUT side residual pressure when the pilot pressure is 0 MPa



Manifold Specifications

(Excludes the ITV3000 series)



Reverse type (X102)

In accordance with the input signal, the inverse proportional pressure is output. (Excludes the ITV0000 series)

- High-pressure type (SUP 1.2 MPa, OUT 1.0 MPa) (X224) (Excludes the ITV0000 series)
- Set pressure range: 1 to 100 kPa (X25) (Excludes the ITV3000 series)
- Analog output, current type (Source type) (X256) Monitor output is analog output from 4 to 20 mADC (source type).
- High-speed response time type (X88)

The pressure response with no load is approx. 0.1 s. (Excludes the ITV3000 series)

Manifold specifications (X26)

A manifold with 2 to 8 stations (Excludes the ITV3000 series)

■ Linearity: ±0.5% F.S. or less (X410)

Application examples: Polishing equipment and peripheral equipment for wafers, LCD glass, color filters, etc. (Excludes the ITV0000 series)

With alarm output (X420)

Outputs an alarm if the set pressure is not maintained for 5 s or more.

Application examples: Pressure management for thrust control, etc. (Excludes the ITV0000 series)

Related Products

Smooth Cylinder CA2Y-Z Series





Clean Regulator **SRF** Series

Application Flow rate control

6.0 MPa Pilot Operated Regulator



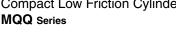


Application Air balancers

Smooth Cylinder CM2Y-Z Series



Compact Low Friction Cylinder







Application Blow molding

(Air operated type) **VCHRA** Series

5.0 MPa Check Valve **VCHC** Series





Application Coil winding machines / Wafer polishing / Wavy surface cutting

Low Friction Cylinder MQM Series





Application Leak tester

5.0 MPa Pilot Operated 2-Port Solenoid Valve VCH40 Series

Application Proof pressure testing



Application Proof pressure testing / Leak tester

Process Pump PAF Series

Application Liquid transferring



Direct Operated 3-Port Solenoid Valve V100 Series



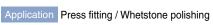


Application Opening/closing of butterfly valves

Air Filter AF Series







Precision Regulator IR□000-A Series





Application Press fitting / Whetstone polishing / Wafer polishing / Wavy surface cutting



Electro-Pneumatic Regulators ITV Series



Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.

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