

Electro-Pneumatic Regulator/Electronic Vacuum Regulator

Series ITV

- Stepless control of air pressure proportional to an electrical signal
- Series ITV1000/2000/3000 are compatible with various input specifications, including serial communications.



Serial communications specifications

Applicable Fieldbus protocols



Built-in communication board, so no converter needed.

RS-232C specification to serial communications is standardized.

Compact/lightweight (Integrated communication parts)

Weight: **350 g** ^{Note 1)} (ITV1000)

Power consumption: **4 w** ^{Note 1)} or less

Note 1) Value for communications type. (PROFIBUS DP)



Electro-Pneumatic Regulators

Note 2) ITV1000. Dimensions in parentheses () are for the CC-Link or PROFIBUS DP.

Series ITV0000

Maximum flow rate
6 L/min (ANR)
Set pressure: 0.6 MPa
Supply pressure: 1.0 MPa



Series ITV1000

Maximum flow rate
200 L/min (ANR)
Set pressure: 0.6 MPa
Supply pressure: 1.0 MPa
Grease-free specification (wetted parts)



Series ITV2000

Maximum flow rate
1500 L/min (ANR)
Set pressure: 0.6 MPa
Supply pressure: 1.0 MPa



Series ITV3000

Maximum flow rate
4000 L/min (ANR)
Set pressure: 0.6 MPa
Supply pressure: 1.0 MPa



Electronic Vacuum Regulators

Series ITV009



Series ITV209



ARJ

AR425 to 935

ARX

AMR

ARM

ARP

IR

IRV

VEX

SRH

SRP

SRF

VCHR

ITV

IC

ITVX

PVQ

VEF

VEP

VER

VEA

VY1

VBA

VBAT

AP100

Electro-Pneumatic Regulator

Series *ITV1000/2000/3000*



How to Order

ITV **3** **0** **1** **0** - **0** **1** **2** **S** -

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
1	12 to 15 VDC

Note) Communication models (CC, DE, PR, RC), 16 points preset input and 10 bit digital input are available only for 24 VDC.

• **Made to Order Specifications**
Refer to pages 816, 832, and 833 for details.

Pressure display unit

Nil	MPa
2 ⁽¹⁰⁰⁾	kgf/cm ²
3	bar
4 ⁽¹⁰⁰⁾	psi
5	kPa

Note) Under Japan's new Measurement Act, this is only for overseas sales (SI units are to be used inside Japan). For the communication models, CC, DE, PR and RC, only "Nil" is available as it does not have a pressure display.

Input signal/ Communication model

0	Current type 4 to 20 mA DC (Sink type)
1	Current type 0 to 20 mA DC (Sink type)
2	Voltage type 0 to 5 VDC
3	Voltage type 0 to 10 VDC
40	4 points preset input
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

Monitor output

1	Analog output 1 to 5 VDC
2	Switch output/NPN output
3	Switch output/PNP output
4	Analog output 4 to 20 mA DC (Sink type)
Nil	None

Thread type

Nil	Rc
N	NPT
T	NPTF
F	G

Cable connector type

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

Note) Even when a cable connector is selected, communication cable is not included in the communication models, CC, DE and PR. Please order it separately. Refer to the below.
For 10 bit digital input, right angle type cannot be selected.

Bracket *

Nil	Without bracket
B	Flat bracket
C	L-bracket

* Bracket is included.

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)

For communication cables, use the parts listed below (refer to M8/M12 connector in Best Pneumatics No.1 for details) or order the product certified for the respective protocol (with M12 connector) separately.

Application	Communication cable part number	Note
CC-Link compatibility	PCA-1567720 (Socket type)	Dedicated Bus adapter supplied with the product.
	PCA-1567717 (Plug type)	
DeviceNet™ compatibility	PCA-1557633 (Socket type)	T-branch connector not supplied.
	PCA-1557646 (Plug type)	
PROFIBUS DP compatibility	PCA-1557688 (Socket type)	T-branch connector not supplied.
	PCA-1557691 (Plug type)	