

## ITV1000/2000/3000, Electro-Pneumatic Regulator ITV2050-04F2BL3

Datasheet

### General series information

- Pressure range: 0.005 to 0.9 MPa
- Maximum flow rate: 4000 l/min (ANR)
- Port sizes: 1/8, 1/4, 3/8, 1/2
- Applicable fieldbus protocols: IO-Link, CC-Link, DeviceNet™, PROFIBUS, RS-232C.



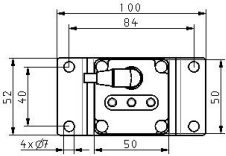
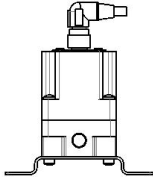
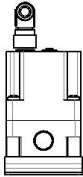
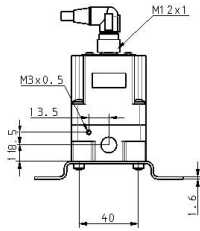
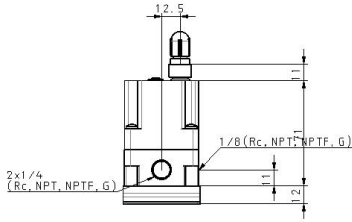
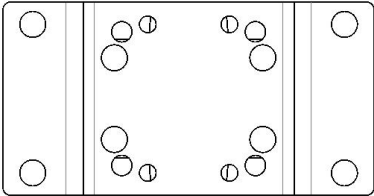
Electro-pneumatic regulator

### Standard specifications

Model	20 (1500 L/min)
Pressure Range	5 (0.005~0.9MPa)
Power Voltage	0 (24VDC)
Input Signal	0 (Current Style 4~20mADC; Requires Sourcing Type PLC Input Module)
Monitor Output	4 [Analogue Output 4~20mA (Sink type/+COM type), for option -X256: (Source type/-COM type)]
Thread	F (G[PF])
Port Size	2 (1/4 [2000,3000])
Accessory	B (Flat Bracket)
Cable Connector	L (Right Angle Style 3m)
Pressure Display Unit	3 (Bar)
Options	None
Maximum temperature of pressure medium	50 °C
Minimum temperature of pressure medium	0 °C
Maximum operating pressure	1.0 MPa
Maximum ambient temperature	50 °C
Minimum ambient temperature	0 °C
Approvals	CE
Protection class with connector	IP65

Current consumption	0.12 A
Enclosure	IP65
Sensitivity	0.2% (F.S.)
Repeatability	±0.5% (F.S.)
Set pressure range	0.005 - 0.9 MPa
Linearity	±1% (F.S.)
Power supply voltage	24 VDC ±10%
Min. supply pressure	Set pressure +0.1 MPa
Accuracy	±2%F.S. ±1 digit
Temperature characteristics	±0.12% (F.S.)/C
Minimum display unit	0.01
Hysteresis	0.5% (F.S.)
Input signal Current type	4 - 20 mA DC
Input impedance current type	250 Ω
Input impedance Voltage type	6.5 kΩ
Output signal Analogue	4 to 20 mA DC (Sink type) (Load impedance: 250Ω or less) Output accuracy within ±6% (Full span)

# Dimensions



## Constructions

### ITV2000



#### Main Component Parts

No.	Description	Material
◆ 1	Body	Aluminum alloy
◆ 2	Intermediate body	Aluminum alloy
3	Cover	Aluminum alloy
◆ 4	Valve guide	Aluminum alloy
◆ 5	Valve (Supply valve)	HNBR/Brass
◆ 6	Valve (Exhaust valve)	HNBR/Brass
◆ 7	Valve spring	Stainless steel
◆ 8	Valve spring	Stainless steel
◆ 9	Diaphragm assembly	Stainless steel
		Aluminum alloy
		HNBR
		Steel
◆ 10	Seal	NBR
◆ 11	Bias spring	Stainless steel
◆ 12	O-ring	NBR
13	Seal	NBR
14	Bowl assembly	Resin
		Silicone rubber
15	Sub-plate	Resin
16	Seal	NBR
17	Control circuit assembly	—
◆ 18	Filter	Stainless steel
19	Solenoid valve	—
◆ 20	O-ring	NBR
21	O-ring	NBR
22	Round head Phillips screw	Steel
◆ 23	Retaining ring	Stainless steel

\* Parts in contact with fluid are indicated with a mark ◆.

## Additional information

Catalogue	<a href="#">ITV-G_EU.pdf</a>
Declaration of conformity	<a href="#">newDoC_ITVx000-G_EN.pdf</a> <a href="#">newDoC_ITVx000-H_EN.pdf</a> <a href="#">newDoC_ITVx000_IO-Link-EN.pdf</a> <a href="#">DoC_ITVx_TF00023-B.pdf</a>
Installation manuals	<a href="#">IM_ITVx000_EN-A.pdf</a> <a href="#">IM_ITVx000-IO-Link_EN.pdf</a> <a href="#">IM_ITV3000_EN-A.pdf</a>
Operation manuals	<a href="#">OM_ITVx000-IO-Link_EN.pdf</a> <a href="#">OM_ITVx000-60_EN-C.pdf</a> <a href="#">OM_ITVx000-CC-Link_EN-B.pdf</a> <a href="#">OM_ITVx000-DeviceNet_EN-C.pdf</a> <a href="#">OM_ITVx000_EN-C.pdf</a> <a href="#">OM_ITVx000-PROFIBUS-DP_EN-A.pdf</a> <a href="#">OM_ITVx000-52_53_EN-C.pdf</a> <a href="#">OM_ITVx000-RS-232C_EN.pdf</a>