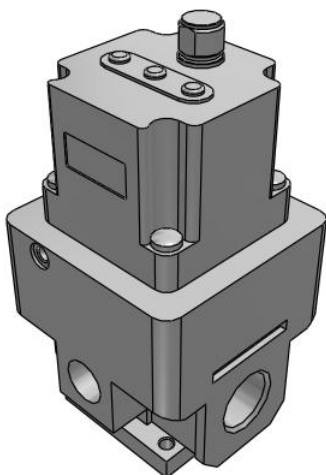


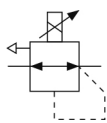


## ITV1000/2000/3000, Electro-Pneumatic Regulator ITV3030-04F4N3

### 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.



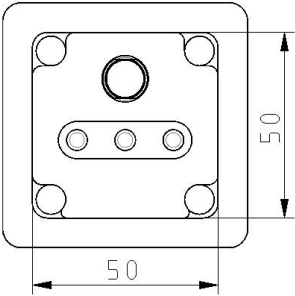
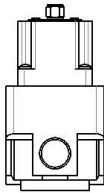
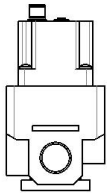
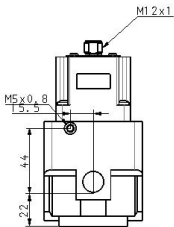
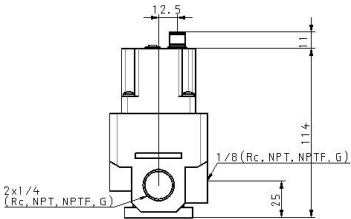
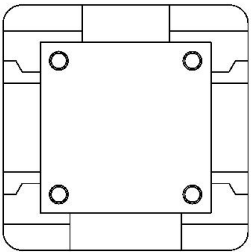
Electro-pneumatic regulator

### Standard specifications

|                                        |                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------|
| Model                                  | 30 (4000 L/min)                                                                             |
| Pressure Range                         | 3 (0.005~0.5 MPa)                                                                           |
| 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                              | 4 (1/2 [3000])                                                                              |
| Accessory                              | None                                                                                        |
| Cable Connector                        | N (w/oCable Connector)                                                                      |
| 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                                                                                        |

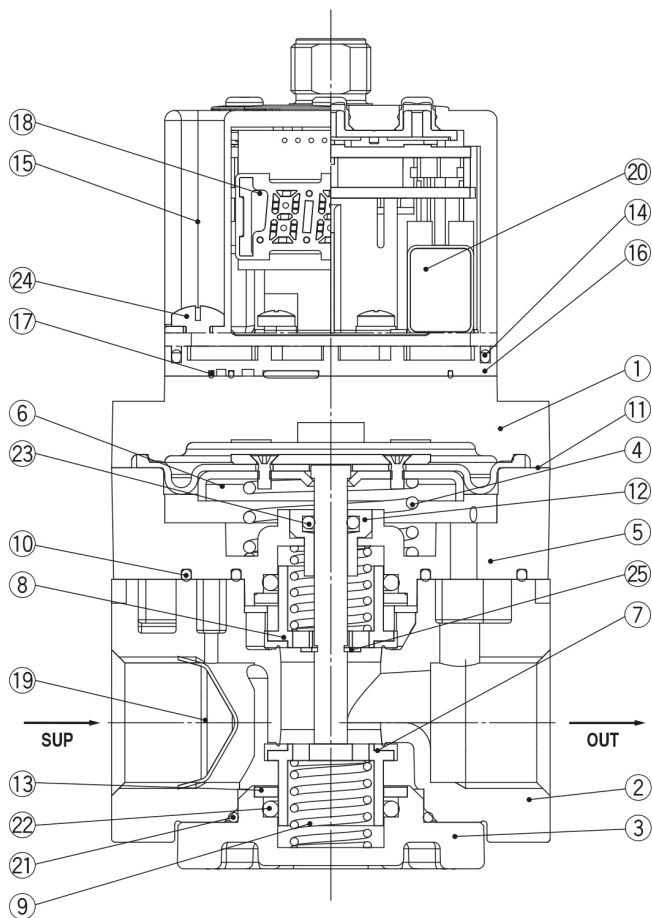
|                              |                                                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------|
| Current consumption          | 0.12 A                                                                                             |
| Enclosure                    | IP65                                                                                               |
| Sensitivity                  | 0.2% (F.S.)                                                                                        |
| Repeatability                | ±0.5% (F.S.)                                                                                       |
| Set pressure range           | 0.005 - 0.5 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)<br>Output accuracy within ±6% (Full span) |
| Weight                       | 0.645 Kg                                                                                           |

Dimensions



## Constructions

### ITV3000



#### Main Component Parts

| No.  | Description               | Material           |
|------|---------------------------|--------------------|
| 1    | Cover                     | Aluminum alloy     |
| ◆ 2  | Body                      | Aluminum alloy     |
| ◆ 3  | Valve guide               | Aluminum alloy     |
| ◆ 4  | Bias spring               | Stainless steel    |
| ◆ 5  | Intermediate body         | Aluminum alloy     |
| ◆ 6  | Diaphragm assembly        | NBR                |
|      |                           | Rolled sheet steel |
|      |                           | Stainless steel    |
|      |                           | Aluminum alloy     |
|      |                           | Steel              |
| ◆ 7  | Valve (Supply valve)      | HNBR/Brass         |
| ◆ 8  | Valve (Exhaust valve)     | HNBR/Brass         |
| ◆ 9  | Valve spring              | Stainless steel    |
| ◆ 10 | Seal                      | NBR                |
| ◆ 11 | Seal                      | NBR                |
| ◆ 12 | Rod guide                 | Brass              |
| ◆ 13 | O-ring retainer           | Aluminum alloy     |
| ◆ 14 | Seal                      | NBR                |
| 15   | Bowl assembly             | Resin              |
|      |                           | Silicone rubber    |
| 16   | Sub-plate                 | Resin              |
| 17   | Seal                      | NBR                |
| 18   | Control circuit assembly  | —                  |
| ◆ 19 | Filter                    | Stainless steel    |
| 20   | Solenoid valve            | —                  |
| 21   | O-ring                    | NBR                |
| ◆ 22 | O-ring                    | NBR                |
| ◆ 23 | O-ring                    | NBR                |
| 24   | Round head Phillips screw | Steel              |
| ◆ 25 | 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><br><a href="#">newDoC_ITVx000-H_EN.pdf</a><br><a href="#">newDoC_ITVx000_IO-Link-EN.pdf</a><br><a href="#">DoC_ITVx_TF00023-B.pdf</a>                                                                                                                                                                                           |
| Installation manuals      | <a href="#">IM_ITVx000_EN-A.pdf</a><br><a href="#">IM_ITVx000-IO-Link_EN.pdf</a><br><a href="#">IM_ITV3000_EN-A.pdf</a>                                                                                                                                                                                                                                                 |
| Operation manuals         | <a href="#">OM_ITVx000-IO-Link_EN.pdf</a><br><a href="#">OM_ITVx000-60_EN-C.pdf</a><br><a href="#">OM_ITVx000-CC-Link_EN-B.pdf</a><br><a href="#">OM_ITVx000-DeviceNet_EN-C.pdf</a><br><a href="#">OM_ITVx000_EN-C.pdf</a><br><a href="#">OM_ITVx000-PROFIBUS-DP_EN-A.pdf</a><br><a href="#">OM_ITVx000-52_53_EN-C.pdf</a><br><a href="#">OM_ITVx000-RS-232C_EN.pdf</a> |