

## IR1000~3000, Precision Regulator IR1010-F01

### Datasheet

Series IR Precision Regulators are designed to be compact and light weight. The maximum set pressure has been expanded from the conventional 0.7MPa to 0.8MPa. Relief flow has been increased by nearly 5 times (compared to SMC IR201, IR401). The optional bracket and pressure gauge can be mounted on either the front or back of the unit.



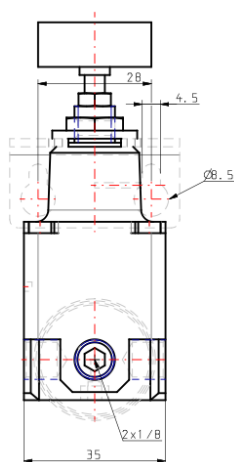
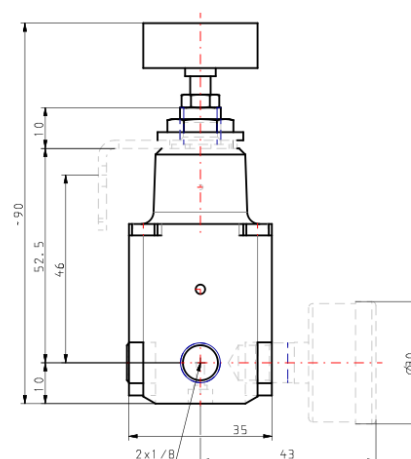
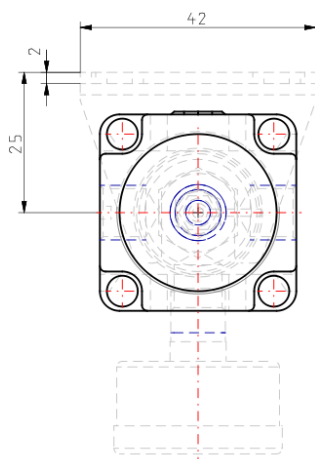
*Pressure control valve, relieving pressure  
regulator, adjustable*

### Standard specifications

|                                         |                                                       |
|-----------------------------------------|-------------------------------------------------------|
| Body Size                               | 1 (IR1000)                                            |
| Type of Setting                         | 0 (Basic [Handle])                                    |
| Set Pressure                            | 1 (0.01~0.4MPa [IR1000/2000] or 0.01~0.4MPa [IR3000]) |
| Thread                                  | F [G(PF)]                                             |
| Port Size                               | 01 (1/8 [IR1000 Only])                                |
| Accessory                               | None                                                  |
| Suffix 1                                | Standard                                              |
| Suffix 2                                | None                                                  |
| Made to Order                           | None                                                  |
| Switch Specifications                   | None                                                  |
| Pressure medium                         | Air                                                   |
| Maximum temperature of pressure medium  | 60 °C                                                 |
| Minimum temperature of pressure medium  | -5 °C [with no freezing]                              |
| Maximum operating pressure              | 1.0 MPa                                               |
| F007-MIN_OP_PRESSURE                    | +0.05 Mpa                                             |
| Maximum ambient temperature             | 60 °C                                                 |
| Maximum ambient temperature with magnet | -5 °C [with no freezing]                              |
| Conform to the European RoHS Directive  | Conform                                               |
| Approvals                               | No need                                               |
| Sensitivity                             | Within 0.2% of full span                              |
| Repeatability                           | Within 0.5% of full span                              |

|                                                 |                         |
|-------------------------------------------------|-------------------------|
| Set pressure range                              | 0.01 - 0.4 MPa          |
| Linearity                                       | Within 1% of full span  |
| Air consumption (At supply pressure of 1.0 MPa) | 4.4 l/min (ANR) or less |
| Input signal pressure                           | 0.01 - 0.8 Mpa          |
| Weight                                          | 0.140 Kg                |

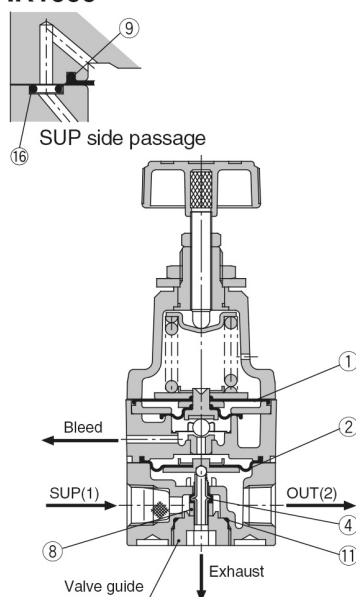
## Dimensions



# Constructions

## Construction

IR1000



## Replacement Parts

| No.                                          | Description        | Material             | IR10□0      |      |
|----------------------------------------------|--------------------|----------------------|-------------|------|
|                                              |                    |                      | Part no.    | Qty. |
| 1                                            | Diaphragm assembly | NBR, other           | P362010-1   | 1    |
| 2                                            | Diaphragm assembly | NBR, other           | P362010-2   | 1    |
| 3                                            | Diaphragm          | NBR, other           | —           | —    |
| 4                                            | Valve              | Stainless steel, NBR | P36201058   | 1    |
| 5                                            | Valve              | Stainless steel, NBR | —           | —    |
| 6                                            | Valve              | Brass, NBR           | —           | —    |
| 7                                            | Valve              | Brass, NBR           | —           | —    |
| 8                                            | Damper             | NBR, other           | P36201021   | 1    |
| 9                                            | O-ring             | H-NBR                | ø2.5 x 1.05 | 3    |
| 10                                           | O-ring             | NBR                  | —           | —    |
| 11                                           | O-ring             | NBR                  | ø10 x 1.3   | 1    |
| 12                                           | O-ring             | NBR                  | —           | —    |
| 13                                           | O-ring             | NBR                  | —           | —    |
| 14                                           | Seal (A)           | NBR                  | —           | —    |
| 15                                           | Seal (B)           | NBR                  | —           | —    |
| 16                                           | Fixed throttle     | Stainless steel      | P36202018   | 1    |
| Repair kit no. (A set of above nos. ① to ⑮.) |                    |                      | KT-IR1000   |      |

## Additional information

Catalogue [IR1000-2000-3000-B\\_EU.pdf](#)

Operation manuals  
[om\\_ir20-om00004en-e.pdf](#)  
[om\\_ir20\\_om00002en-f.pdf](#)  
[om\\_ir10\\_om00002en-e.pdf](#)  
[om\\_ir30\\_om00004en-f.pdf](#)  
[om\\_ir30-om00002en-f.pdf](#)  
[ir10-om00006\\_gb.pdf](#)