

## IR1000/2000/3000, Precision Regulator IR3020-F03

### Datasheet

### General series information

- Precision regulator
- Regulating pressure range (MPa): 0.005 to 0.8 depending on model
- Compact and lightweight
- Bracket & pressure gauge can be mounted on either the front or back
- 2 air operated models.



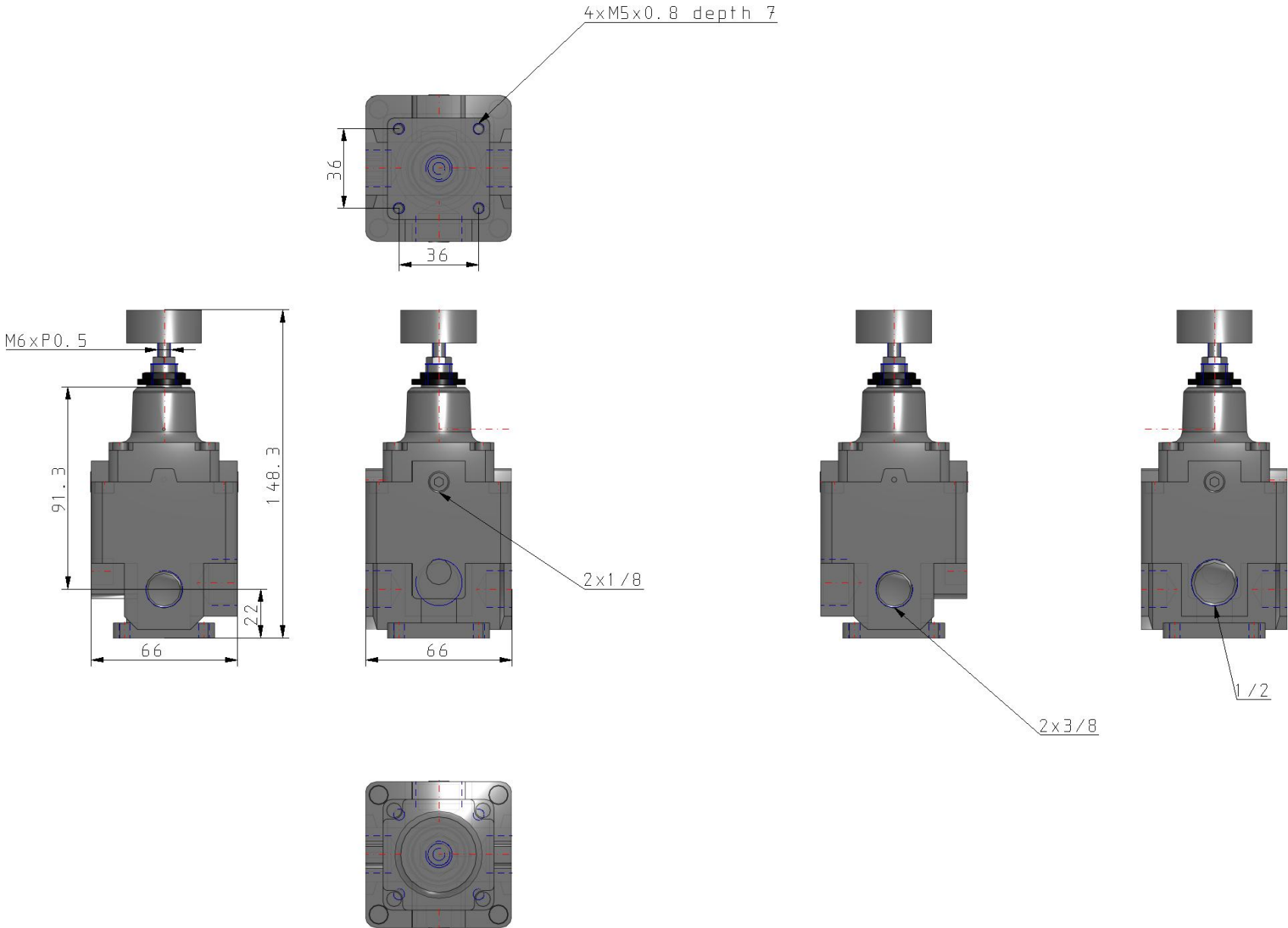
Pressure control valve, relieving pressure regulator, adjustable

### Standard specifications

|                                         |                                                         |
|-----------------------------------------|---------------------------------------------------------|
| Body Size                               | 3 (IR3000)                                              |
| Type of Setting                         | 0 (Basic [Handle])                                      |
| Set Pressure                            | 2 (0.01~0.8 MPa [IR1000/2000] or 0.01~0.8 MPa [IR3000]) |
| Thread                                  | F [G(PF)]                                               |
| Port Size                               | 03 (3/8 [IR3000 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                                                 |
| Minimum operating pressure              | +0.1 Mpa                                                |
| Maximum ambient temperature             | 60 °C;60 °C                                             |
| Maximum ambient temperature with magnet | -5 °C [with no freezing];-5 °C [with no freezing]       |
| Approvals                               | No need                                                 |

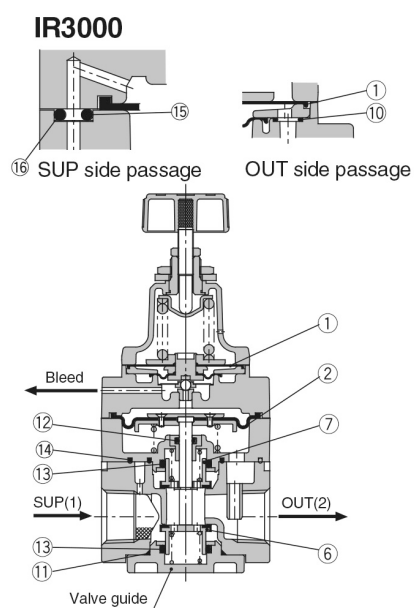
|                                                 |                          |
|-------------------------------------------------|--------------------------|
| Sensitivity                                     | Within 0.2% of full span |
| Repeatability                                   | Within 0.5% of full span |
| Set pressure range                              | 0.01 - 0.8 MPa           |
| Linearity                                       | Within 1% of full span   |
| Air consumption (At supply pressure of 1.0 MPa) | 11.5 l/min (ANR) or less |
| Input signal pressure                           | 0.01 - 0.8 Mpa           |
| Weight                                          | 0.640 Kg                 |

Dimensions



# Constructions

## Construction



## Replacement Parts

| No.                                          | Description        | Material             | IR30□0                           |      |
|----------------------------------------------|--------------------|----------------------|----------------------------------|------|
|                                              |                    |                      | Part no.                         | Qty. |
| 1                                            | Diaphragm assembly | NBR, other           | P362020-2                        | 1    |
| 2                                            | Diaphragm assembly | NBR, other           | P362030-1                        | 1    |
| 3                                            | Diaphragm          | NBR, other           | —                                | —    |
| 4                                            | Valve              | Stainless steel, NBR | —                                | —    |
| 5                                            | Valve              | Stainless steel, NBR | —                                | —    |
| 6                                            | Valve              | Brass, NBR           | P36203009#1                      | 1    |
| 7                                            | Valve              | Brass, NBR           | P36203010#1                      | 1    |
| 8                                            | Damper             | NBR, other           | —                                | —    |
| 9                                            | O-ring             | H-NBR                | —                                | —    |
| 10                                           | O-ring             | NBR                  | ø4.5 x 1                         | 1    |
| 11                                           | O-ring             | NBR                  | ø27.8 x 1.5                      | 1    |
| 12                                           | O-ring             | NBR                  | JISB2401P5 <small>Note)</small>  | 1    |
| 13                                           | O-ring             | NBR                  | JISB2401P16 <small>Note)</small> | 2    |
| 14                                           | Seal (A)           | NBR                  | P36203015                        | 1    |
| 15                                           | Seal (B)           | NBR                  | P36203016                        | 3    |
| 16                                           | Fixed throttle     | Stainless steel      | P36203017                        | 1    |
| Repair kit no. (A set of above nos. ① to ⑮.) |                    |                      | KT-IR3000                        |      |



Note) Use mini-flick type.

## Additional information

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

Operation manuals [OM\\_IR3120\\_OM00004EN-G.pdf](#)  
[OM\\_IR2000\\_OM00002EN-G.pdf](#)  
[OM\\_IR10\\_OM00002EN-E.pdf](#)  
[OM\\_IR20\\_OM00002EN-F.pdf](#)  
[OM\\_IR3000\\_OM00002EN-G.pdf](#)