

## IR1000/2000/3000, Precision Regulator IR2120-02

### 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.



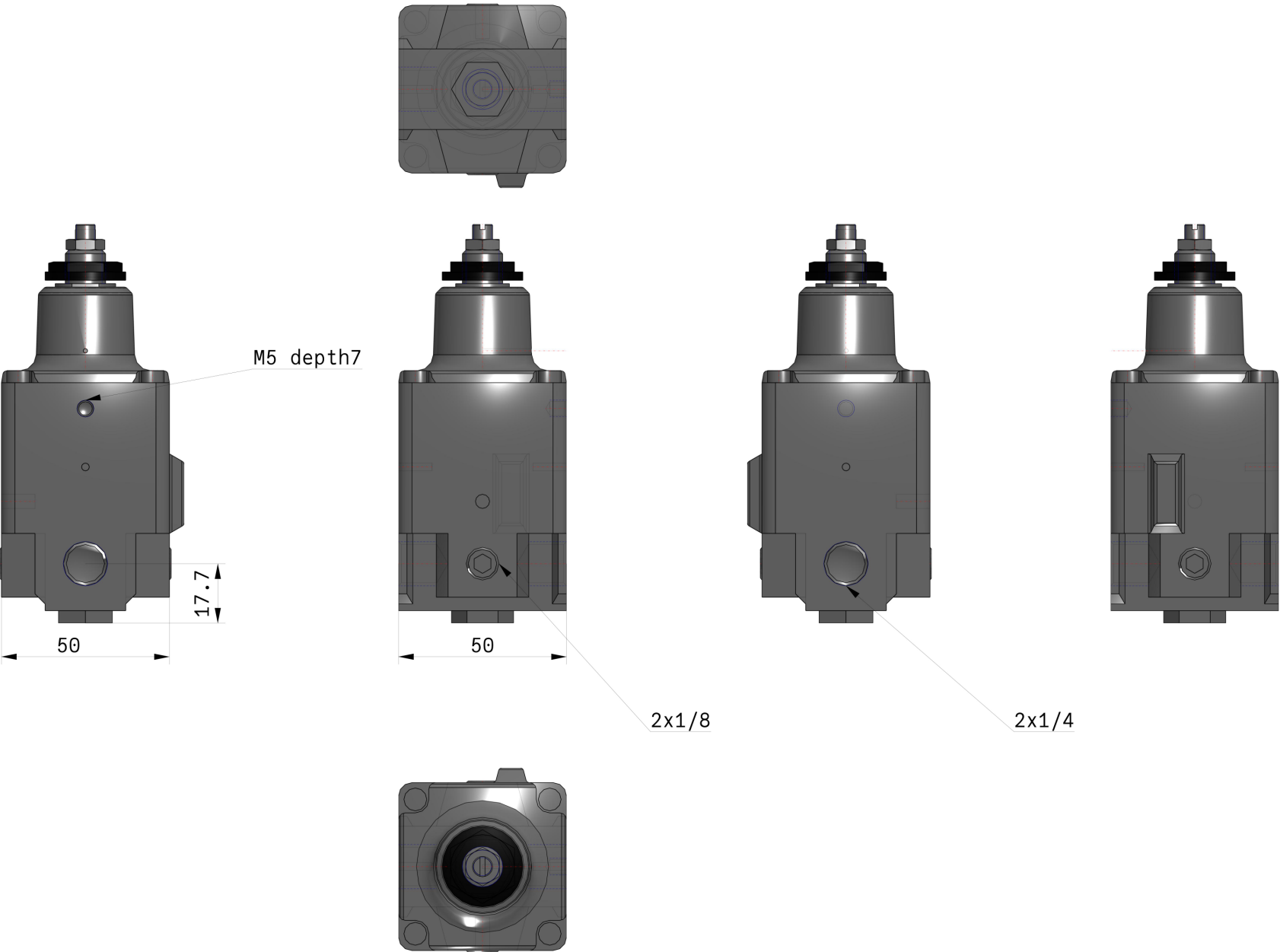
Pressure control valve, relieving pressure regulator, adjustable

### Standard specifications

|                                         |                                                         |
|-----------------------------------------|---------------------------------------------------------|
| Body Size                               | 2 (IR2000)                                              |
| Type of Setting                         | 1 (Air Operated [Series IR2000/IR3000 Only])            |
| Set Pressure                            | 2 (0.01~0.8 MPa [IR1000/2000] or 0.01~0.8 MPa [IR3000]) |
| Thread                                  | Rc(PT)                                                  |
| Port Size                               | 02 (1/4 [IR2000/3000])                                  |
| 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                                                 |

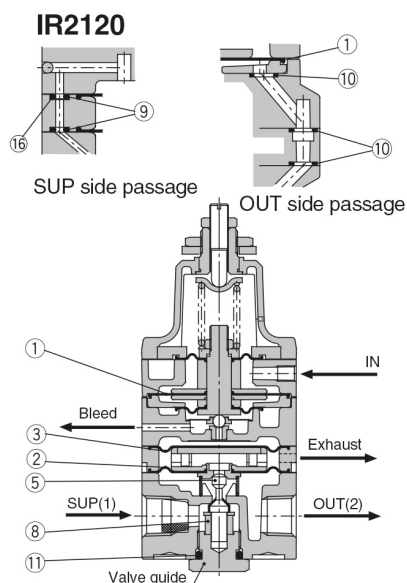
|                                                 |                          |
|-------------------------------------------------|--------------------------|
| Sensitivity                                     | Within 0.2% of full span |
| Repeatability                                   | Within 0.5% 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) | 4.4 l/min (ANR) or less  |
| Input signal pressure                           | 0.01 - 0.8 Mpa           |
| Weight                                          | 0.350 Kg                 |

Dimensions



## Constructions

### Construction



### Replacement Parts

| No.                                          | Description        | Material             | IR2120       |      |
|----------------------------------------------|--------------------|----------------------|--------------|------|
|                                              |                    |                      | Part no.     | Qty. |
| 1                                            | Diaphragm assembly | NBR, other           | P362020-13   | 1    |
| 2                                            | Diaphragm assembly | NBR, other           | P362020-5    | 1    |
| 3                                            | Diaphragm          | NBR, other           | P36202019    | 1    |
| 4                                            | Valve              | Stainless steel, NBR | —            | —    |
| 5                                            | Valve              | Stainless steel, NBR | P36202068#1  | 1    |
| 6                                            | Valve              | Brass, NBR           | —            | —    |
| 7                                            | Valve              | Brass, NBR           | —            | —    |
| 8                                            | Damper             | NBR, other           | P36202026    | 1    |
| 9                                            | O-ring             | H-NBR                | ø1.42 x 1.52 | 2    |
| 10                                           | O-ring             | NBR                  | ø4.5 x 1     | 3    |
| 11                                           | O-ring             | NBR                  | JISB2401P11  | 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-IR2120    |      |

## 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](#)