

## Contact Details

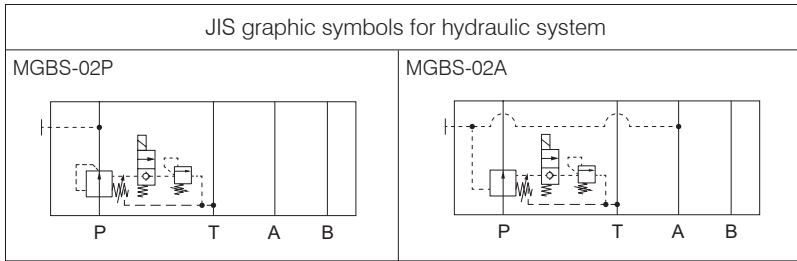
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# 02 Series Stacking Type Solenoid Operated Low-pressure Reducing valves



## Nomenclature

**MGBS** - **02** ※ - **1** - **C** **03** ※ - **55** - **C** ※

1 2 3 4 5 6 7 8 9 10

- |   |  |
|---|--|
| <p><b>1 Model No. (Applicable fluids: petroleum-based hydraulic oil)</b><br/>MGBS: Modular stacking type solenoid operated low-pressure reducing valve</p> <p><b>2 Nominal diameter</b><br/>02: ¼</p> <p><b>3 Control port</b><br/>P: Port P<br/>A: Port A</p> <p><b>4 Maximum adjustment pressure at high pressure side</b><br/>1: 7 MPa</p> <p><b>5 Control method</b><br/>C: Dual pressure control (High pressure when demagnetized)</p> | <p><b>6 Maximum adjustment pressure at low pressure side</b><br/>03: 3.4 MPa</p> <p><b>7 Voltage code</b><br/><b>(See the solenoid specification table.)</b><br/>A: AC 100 V (50/60 Hz)<br/>B: AC 200 V (50/60 Hz)<br/>P: DC 24 V</p> <p><b>8 Design No.</b></p> <p><b>9 Option code</b><br/>C: DIN connector type (without lamp)</p> <p><b>10 Option code</b><br/>No designation: Pressure adjusting screw type<br/>T: Pressure adjusting handle type</p> |
|---|--|

## Specifications

| Model code            | Maximum operating pressure MPa | Maximum flow rate L/min | Pressure at low pressure side adjustment range MPa {kgf/cm <sup>2</sup> } | Pressure at high pressure side adjustment range MPa {kgf/cm <sup>2</sup> } | Mass kg |
|-----------------------|--------------------------------|-------------------------|---|--|---------|
| MGBS-02※-1-C03※-55-C  | 7                              | 40                      | 0.2 to 3.4 {2 to 34}  | 0.8 to 7 {8 to 70}   | 4.8     |
| MGBS-02※-1-C03※-55-CT |                                |                         |   |  | 5       |

## Voltage code and solenoid specifications

| Voltage code | Power supply voltage | Starting current A | Holding current A | Holding power W | Permissible voltage fluctuation % |
|--------------|----------------------|--------------------|-------------------|-----------------|-----------------------------------|
| A            | AC 100 V (50 Hz)     | 2.42               | 0.51              | 21.5            | 80 to 110                         |
|              | AC 100 V (60 Hz)     | 2.14               | 0.37              | 18              |                                   |
| B            | AC 200 V (50 Hz)     | 1.21               | 0.26              | 21.5            | 80 to 110                         |
|              | AC 200 V (60 Hz)     | 1.07               | 0.19              | 18              |                                   |
| P            | DC 24 V              | –                  | 1.22              | 29.2            | 90 to 110                         |

## Handling

- To ensure good pressure reducing performance, set a difference of 0.4 MPa minimum between the primary side main circuit pressure and the secondary pressure reducing circuit pressure.
- Directly connect the tank piping of the valve to the tank without merging it with other tank piping.
- Do not turn the handle with a hand tool or other implement when adjusting the pressure on models with a handle (-T).
- Please note that the maximum flow rate will not be attained when the low pressure range has been set.

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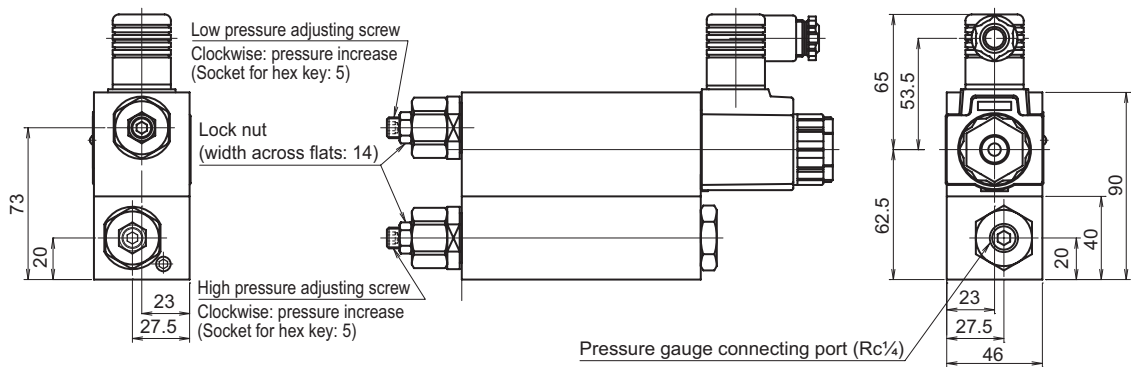
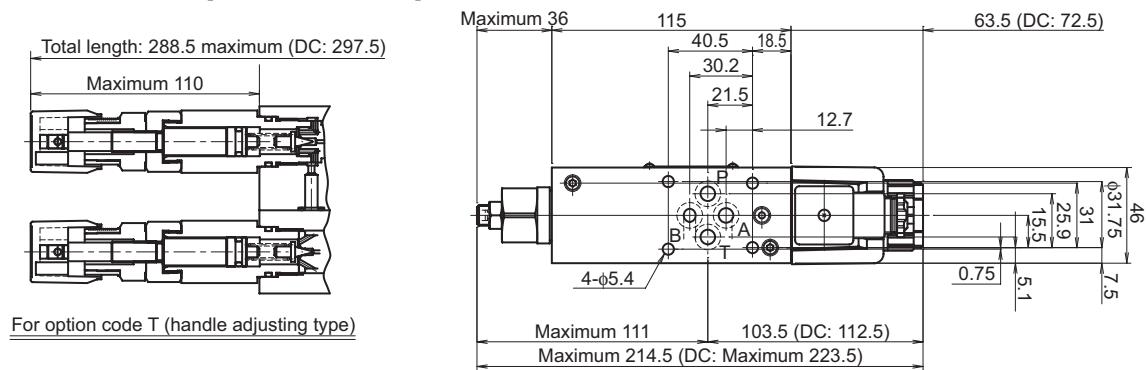
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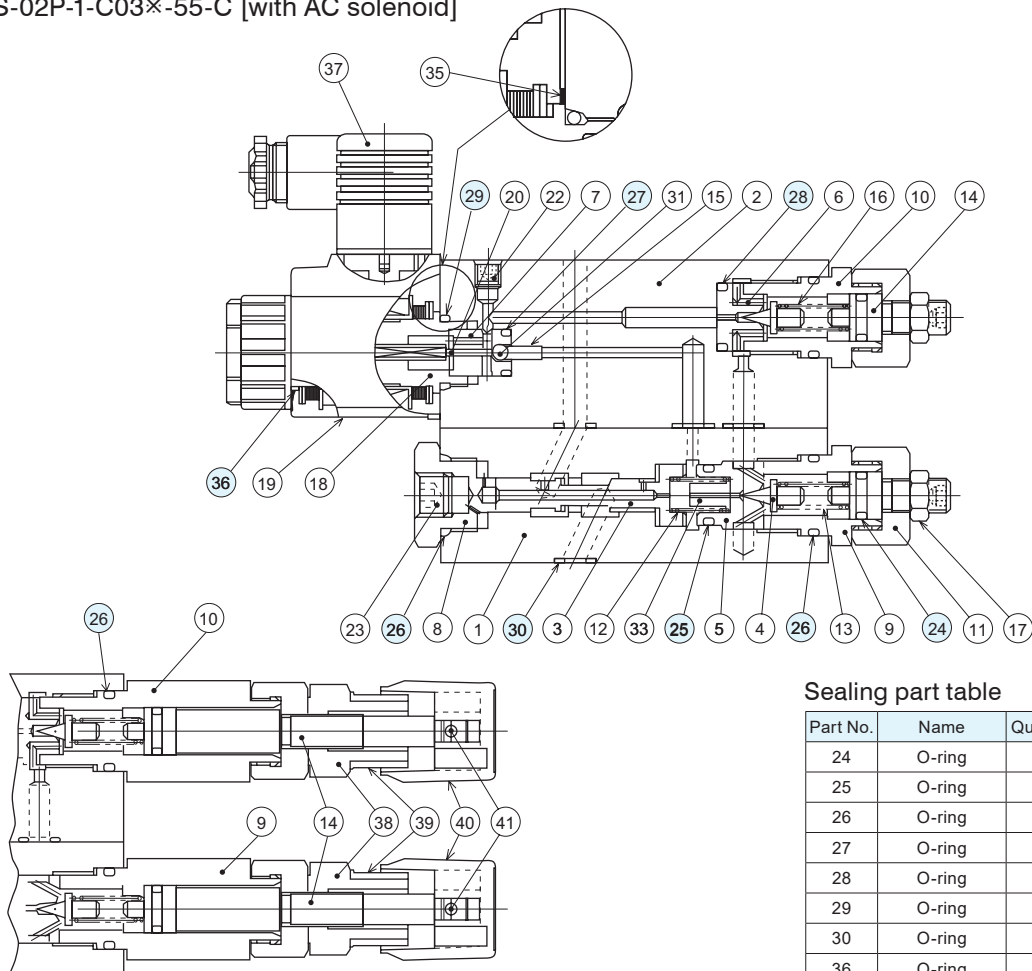
## External dimension diagram

MGBS-02\*1-C03\*-55-C [with AC solenoid]



## Sectional structural diagram

MGBS-02P-1-C03\*-55-C [with AC solenoid]



Sealing part table

| Part No. | Name   | Quantity | Part specifications   |
|----------|--------|----------|-----------------------|
| 24       | O-ring | 2        | JIS B 2401 1A P10A    |
| 25       | O-ring | 1        | JIS B 2401 1B P14     |
| 26       | O-ring | 3        | JIS B 2401 1B P20     |
| 27       | O-ring | 1        | JIS B 2401 1B P10A    |
| 28       | O-ring | 1        | JIS B 2401 1B P16     |
| 29       | O-ring | 1        | JIS B 2401 1B P18     |
| 30       | O-ring | 10       | AS568-012 (NBR, Hs90) |
| 36       | O-ring | 1        | JIS B 2401 1A P20     |

MGBS-02P-1-C03\*-55-CT