

## Contact Details

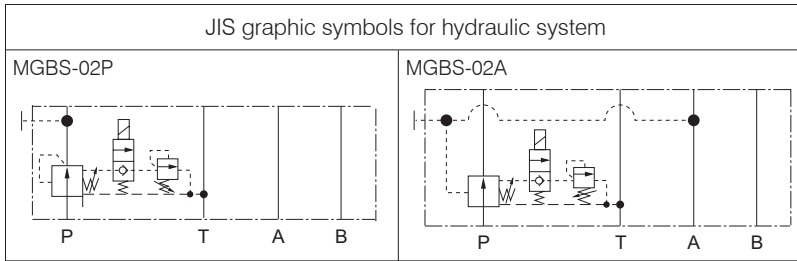
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# 02 Series Stacking Type Solenoid Operated Low-pressure Reducing valves



## Nomenclature

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

1 2 3 4 5 6 7 8 9 10

- 1 Model No. (Applicable fluids: petroleum-based hydraulic oil)**  
MGBS: Modular stacking type solenoid operated low-pressure reducing valve
- 2 Nominal diameter**  
02: ¼
- 3 Control port**  
P: Port P  
A: Port A
- 4 Maximum adjustment pressure at high pressure side**  
1: 6.9 MPa
- 5 Control method**  
C: Dual pressure control (High pressure when demagnetized)
- 6 Maximum adjustment pressure at low pressure side**  
03: 3.4 MPa
- 7 Voltage code (See the solenoid specification table.)**  
A: AC 100 V (50/60 Hz)  
B: AC 200 V (50/60 Hz)  
P: DC 24 V
- 8 Design No.**
- 9 Option code**  
C: DIN connector type (without lamp)
- 10 Option code**  
No designation: Pressure adjusting screw type  
T: Pressure adjusting handle type

## 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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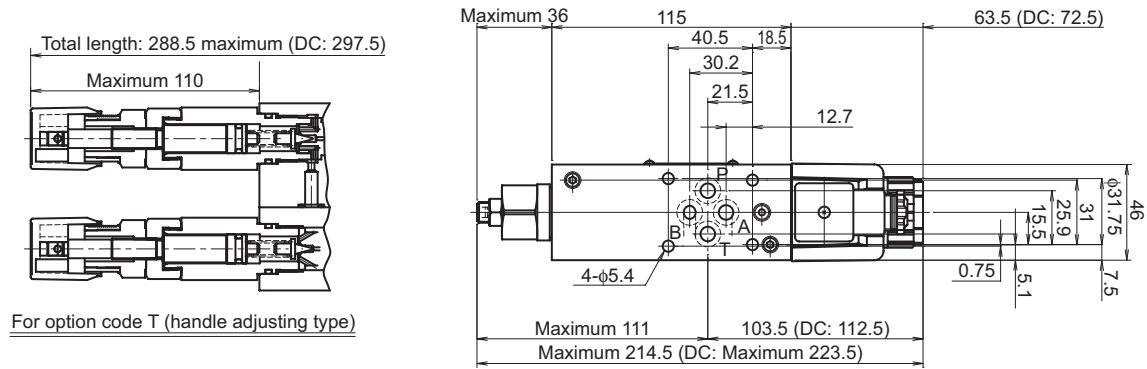
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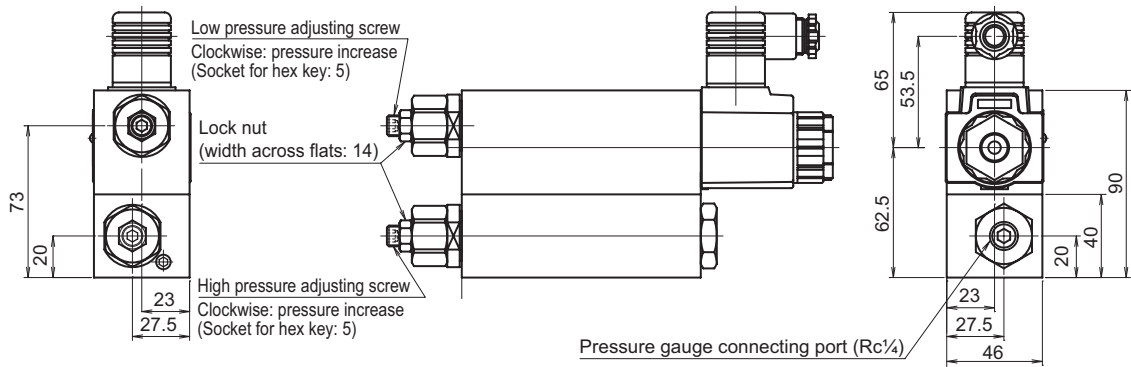
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## External dimension diagram

MGBS-02\*<sup>-1</sup>-C03\*<sup>-55</sup>-C [with AC solenoid]

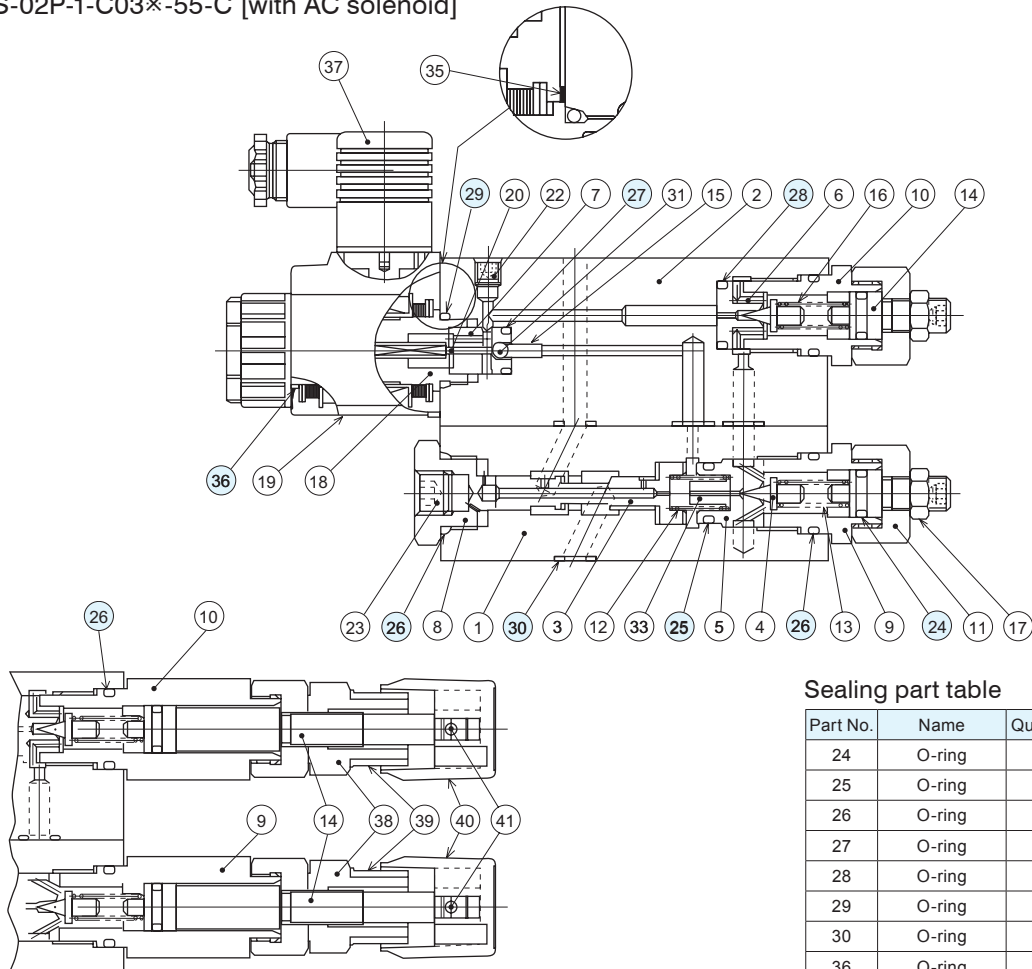


For option code T (handle adjusting type)



## Sectional structural diagram

MGBS-02P-1-C03\*<sup>-55</sup>-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

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