02 Series Stacking Type Solenoid Operated Low-pressure Reducing valves

Nomenclature

1 Model No.
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)

Maximum adjustment pressure at low pressure side

- 03: 3.4 MPa

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

Design No.
C: DIN connector type (without lamp)

Option code
No designation: Pressure adjusting screw type
T: Pressure adjusting handle type

Specifications

<table>
<thead>
<tr>
<th>Model code</th>
<th>Maximum operating pressure MPa</th>
<th>Maximum flow rate L/min</th>
<th>Pressure at low pressure side adjustment range MPa (kgf/cm²)</th>
<th>Pressure at high pressure side adjustment range MPa (kgf/cm²)</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGBS-02×-1-C03×-55-C</td>
<td>7</td>
<td>40</td>
<td>0.2 to 3.4 {2 to 34}</td>
<td>0.8 to 7 {8 to 70}</td>
<td>4.8</td>
</tr>
<tr>
<td>MGBS-02×-1-C03×-55-CT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>

Voltage code and solenoid specifications

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

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.
Contact Details
Before using the product, please check the
App details at the front of this catalog.

Internet
http://www.daikinpmc.com/en/
For latest information, PDF catalogs and operation manuals

External dimension diagram
MGBS-02×1-C03×55-C [with AC solenoid]

For option code T (handle adjusting type)

Low pressure adjusting screw
Clockwise: pressure increase
(Socket for hex key: 5)

Lock nut
(width across flats: 14)

High pressure adjusting screw
Clockwise: pressure increase
(Socket for hex key: 5)

Pressure gauge connecting port (Rc¼)

Sectional structural diagram
MGBS-02P-1-C03×55-C [with AC solenoid]

Sealing part table

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Name</th>
<th>Quantity</th>
<th>Part specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>O-ring</td>
<td>2</td>
<td>JIS B 2401 1A P10A</td>
</tr>
<tr>
<td>25</td>
<td>O-ring</td>
<td>1</td>
<td>JIS B 2401 1B P14</td>
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<tr>
<td>26</td>
<td>O-ring</td>
<td>3</td>
<td>JIS B 2401 1B P20</td>
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<tr>
<td>27</td>
<td>O-ring</td>
<td>1</td>
<td>JIS B 2401 1B P19A</td>
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<tr>
<td>28</td>
<td>O-ring</td>
<td>1</td>
<td>JIS B 2401 1B P16</td>
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<tr>
<td>29</td>
<td>O-ring</td>
<td>1</td>
<td>JIS B 2401 1B P18</td>
</tr>
<tr>
<td>30</td>
<td>O-ring</td>
<td>10</td>
<td>AS568-012 (NBR, Hs90)</td>
</tr>
<tr>
<td>36</td>
<td>O-ring</td>
<td>1</td>
<td>JIS B 2401 1A P20</td>
</tr>
</tbody>
</table>

MGBS-02P-1-C03×55-CT