**Two-Pressure Reducing Modular Valve**

### Features

1. When the pressure in part of the circuit is lower than the main circuit, this modular valve controls pressure by switching the low pressure to secondary pressure (high pressure, low pressure).
2. Even when pressure changes in the primary main circuit, the reduced secondary pressure is maintained at a constant level.
3. Maximum Operating Pressure: 7, 25MPa (71.4, 255kgf/cm²)

### Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Nominal Diameter (Size)</th>
<th>Maximum Working Pressure MPa(kgf/cm²)</th>
<th>Maximum Flow Rate ℓ/min</th>
<th>Pressure Adjustment Range MPa(kgf/cm²)</th>
<th>Weight kg</th>
<th>Gasket Surface Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>OGS-G01-PCC-K-**-22</td>
<td>1/8</td>
<td>7(71.4)</td>
<td>40</td>
<td>0.2 to 3.5 [2.0 to 35.7]</td>
<td>4.8</td>
<td>ISO 4401-03-02-0-05</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25(255)</td>
<td></td>
<td>0.2 to 3.5 [2.0 to 35.7]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Solenoid Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Rated Voltage</th>
<th>Starting Current</th>
<th>Holding Current</th>
<th>Holding Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>OGS-G01-P**-K- C1-22</td>
<td>AC100V/50/60HZ</td>
<td>2.2/2.0A</td>
<td>0.52/0.38A</td>
<td>25/22W</td>
</tr>
<tr>
<td>C2</td>
<td>AC200V/50/60HZ</td>
<td>1.1/1.0A</td>
<td>0.26/0.19A</td>
<td>25/22W</td>
</tr>
<tr>
<td>D1</td>
<td>DC12V</td>
<td>2.2A</td>
<td></td>
<td>26W</td>
</tr>
<tr>
<td>D2</td>
<td>DC24V</td>
<td>1.1A</td>
<td></td>
<td>26W</td>
</tr>
</tbody>
</table>

### Explanation of model No.

OGS – G 01 – P 1 C – K(R) – C1 – 22

- **Design number**
- **Power supply**
  - C1 : AC100V
  - C2 : AC200V
  - D1 : DC12V
  - D2 : DC24V
- **Auxiliary symbol**
  - K: With handle (standard)
  - R: With indicator light (optional)
  - GR: With surgeless type indicator light (Option)
- **Low pressure side pressure adjustment range** C, 1
- **High pressure side pressure adjustment range** C, 1, 2
- **Control port** P: P port
- **Nominal diameter (size)** 01
- **Mounting method** G: Gasket type
- **Pressure reducing modular valve for two-press setting**

### Notes

- **Handling**
  1. See the Pressure-Flow Rate Characteristics for information about how the flow rate is controlled at low pressures.
  2. Note that a change in tank port back pressure causes a change in setting pressure.
  3. Instability occurs when there is a small setting pressure differential between the high pressure and low pressure, so be sure to maintain at least the minimum pressure differentials described below.
    - **C Type:** At least 0.3MPa (3.1 kgf/cm²)
    - **1, 2 Type:** At least 0.5MPa (5.1 kgf/cm²)

- **Vent piping is not possible.**

- **Note**
  1. See pages D-90 through D-95 if these items are required.
  2. Low pressure is attained when the solenoid is on.
  3. The coil surface temperature increases if this pump is kept continuously energized. Install the valve so there is no chance of it being touched directly by hand.
  4. The wiring in the connector is the same as the SA series wet type solenoid valve. (See page E-19.)
Installation Dimension Drawings

Note: 1. Dimensions in parentheses apply in the case of a DC solenoid.
2. Pressure is increased by clockwise (rightward) rotation of the adjusting handle, and decreased by counterclockwise (leftward) rotation.

Performance Curves

Pressure Loss Characteristics

Hydraulic Operating Fluid Kinematic Viscosity 32mm²/s

Pressure – Flow Rate Characteristics
OGS-G01-PIC-K**-22
(Type 1)

Pressure – Drain Rate Characteristics
OGS-G01-P21-K**-22

Pressure – Drain Rate Characteristics
OGS-G01-P**-22

Number of Adjusting Screw Rotations – Pressure Characteristics
OGS-G01-P**-22
Seal Part List (Kit Model Number BRBS-01GSP-1B)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Name</th>
<th>Part Number</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>O-ring</td>
<td>NBR-70-1 P10A</td>
<td>2</td>
</tr>
<tr>
<td>27</td>
<td>O-ring</td>
<td>NBR-90 P14</td>
<td>1</td>
</tr>
<tr>
<td>28</td>
<td>O-ring</td>
<td>NBR-90 P20</td>
<td>3</td>
</tr>
<tr>
<td>29</td>
<td>O-ring</td>
<td>AS568-013(NBR-90)</td>
<td>2</td>
</tr>
<tr>
<td>30</td>
<td>O-ring</td>
<td>NBR-90 P16</td>
<td>1</td>
</tr>
<tr>
<td>31</td>
<td>O-ring</td>
<td>AS568-012(NBR-90)</td>
<td>11</td>
</tr>
<tr>
<td>32</td>
<td>Backup ring</td>
<td>For AS568-013</td>
<td>1</td>
</tr>
</tbody>
</table>

Note) The materials and hardness of the O-ring conform with JIS B2401.