**Pressure Switch Modular Valve**

50ℓ/min  
25MPa

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**Features**

1. This modular valve detects pressure changes inside the hydraulic circuit and opens and closes an electrical circuit accordingly.
2. High precision detection, high precision circuit control, outstanding reliability.
3. Maximum operating pressure: 25MPa (255kgf/cm²)
4. Indicator light built into the DIN connector shows operational status at a glance.
5. A double type is also available for control of both port A and port B in a compact configuration.

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**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>OW-GO1-P1-30</td>
<td>1/8</td>
<td>25(255)</td>
<td>50</td>
<td>0.5 to 3.5</td>
<td>1.8</td>
<td>ISO 4401-03-02-0-05</td>
</tr>
<tr>
<td>OW-GO1-A1-30</td>
<td>1/8</td>
<td>25(255)</td>
<td>50</td>
<td>0.5 to 3.5</td>
<td>1.8</td>
<td>ISO 4401-03-02-0-05</td>
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<td>OW-GO1-B1-30</td>
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<td>1.8</td>
<td>ISO 4401-03-02-0-05</td>
</tr>
<tr>
<td>OW-GO1-W1-30</td>
<td>1/8</td>
<td>25(255)</td>
<td>50</td>
<td>0.5 to 3.5</td>
<td>2.6</td>
<td>ISO 4401-03-02-0-05</td>
</tr>
</tbody>
</table>

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**Electrical Specifications**

<table>
<thead>
<tr>
<th>Micro Switch Manufacturer: Omron Model No. SS-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Capacitance (Resistive Load)</td>
</tr>
<tr>
<td>AC 125V 5A</td>
</tr>
<tr>
<td>DC 14V 5A</td>
</tr>
<tr>
<td>250V 3A</td>
</tr>
<tr>
<td>30V 4A</td>
</tr>
</tbody>
</table>

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**Mechanical Life**

At least 1 × 10⁷

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**Contact Resistance**

30MΩ maximum (initial value)

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**Insulation Resistance**

At least 100MΩ

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**Allowable Operating Frequency**

60 times/minute (electrical)

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**Dust Resistance/Water Resistance Rank**

JIS C0920 IP64

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**Ambient Temperature**

-20°C to 70°C (non-condensation)

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**Oil Temperature**

-20°C to 70°C

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**Allowable kinematic viscosity Range**

15 to 300mm²/s (cSt)

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**Filtration**

25μm maximum

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**Explanation of model No.**

OW – G 01 – P 1 – (K)R – D2 – 30

- **Design number**
  - Power supply specification: D2: DC type Less than DC 30 V  
    - C2: AC type Less than AC 250 V
  - K: With manual handle (optional)
  - R: With indicator light (standard)

- **Pressure adjustment range**
  - C: 0.5 to 3.5MPa(5.1 to 35.7kgf/cm²)
  - 1: 0.8 to 7MPa(8.2 to 71.4kgf/cm²)
  - 3: 3.5 to 21MPa(35.7 to 214kgf/cm²)

- **Control port**
  - P: P port A: A port B: B port
  - W: A, B ports

- **Nominal diameter (size) 01**

- **Mounting method**
  - G: Gasket type

- **Pressure switch modular valve**

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**Handling**

1. See the detailed explanation on the next page for information about wiring inside connectors.
2. Contacts are normally open type only, not normally closed type.
3. In addition to load wiring, power supply wiring is also required to illuminate the indicator light. See the wiring diagram for more information.
4. If the DIN connector interferes with other valves, remove the two switch installation bolts and change the installation orientation.
5. If interference is caused in all orientations, install an interference blanker plate on top of the connector. Contact your agent if an interference blanker plate is required.
6. Note that a special type of DIN connector is required. The DIN connector is not interchangeable with the one for the SA type solenoid valve.
7. If you cannot remove the DIN connector when wiring, remove the switch installation bolts and then remove the DIN connector. The tightening torque for the installation bolts is 5 to 7N (51 to 71kgf/cm²).
8. This valve has drain volume the same as the OG-GO1 (decompression valve) the port for detecting structural pressure.
9. Do not include inductive components or capacitive components in the loaded circuit that connects to the valves because they significantly reduce the life of the micro-switches. Contact us for details.
● Connectors

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Power supply specification</th>
<th>Wiring</th>
<th>Electrical Circuit Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRC41-01WD2</td>
<td>D2</td>
<td>OW When signal input device (load) remote common is plus OW Terminal 1 is connected to load, while Terminals 2 and 3 are connected to power (Terminal 2 to +).</td>
<td>Normal open type with indicator</td>
</tr>
<tr>
<td>BRC41-01WC2</td>
<td>C2</td>
<td>OW When signal input device (load) common is minus OW Terminal 1 is connected to load, while Terminals 2 and 3 are connected to power (Terminal 2 to −).</td>
<td>Normal open type with indicator</td>
</tr>
</tbody>
</table>

Note) 1. The DIN connector wiring connector port size is PG11.
2. The compatible cable diameter for the DIN connector is φ 8 to φ 10. Dust resistance and water resistance is lost for any cable outside this range.
3. The connector can be installed in different orientations by changing the orientation of the terminal block.
4. The connector is designed so the cover cannot be removed unless the installation screws are removed.
5. Use M3 for round type and Y type solderless terminals.
6. The tightening torque of M3 screws used for securing connectors and for terminals is 0.3 to 0.5Nm.

Installation Dimension Drawings

Note) Pressure is increased by clockwise (rightward) rotation of the adjusting screw, and decreased by counterclockwise (leftward) rotation.
Performance Curves

Hydraulic Operating Fluid Kinematic Viscosity 32mm²/s

Pressure Loss Characteristics
OW-G01-**-R-**-30

Setting Pressure — Differential Characteristics
OW-G01-C*-R-**-30
OW-G01-3-R-**-30

Number of Adjusting Screw Rotations — Pressure Characteristics
OW-G01-**-R-**-30

Cross-sectional Drawing

OW-G01-P*-R-**-2-30

Seal Part List (Kit Model Number BRCS-01W*-0A)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Name</th>
<th>Part Number</th>
<th>Q’ty</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>O-ring</td>
<td>NBR-70-1 P3</td>
<td>1 2 1 1</td>
</tr>
<tr>
<td>22</td>
<td>O-ring</td>
<td>AS568-011(NBR-90)</td>
<td>1 2 1 1</td>
</tr>
<tr>
<td>23</td>
<td>O-ring</td>
<td>AS568-012(NBR-90)</td>
<td>4 4 4 4</td>
</tr>
<tr>
<td>24</td>
<td>O-ring</td>
<td>AS568-019(NBR-70-1)</td>
<td>1 2 1 1</td>
</tr>
<tr>
<td>25</td>
<td>O-ring</td>
<td>AS568-022(NBR-70-1)</td>
<td>1 2 1 1</td>
</tr>
<tr>
<td>26</td>
<td>O-ring</td>
<td>NBR-70-1 P15</td>
<td>1 2 1 1</td>
</tr>
<tr>
<td>27</td>
<td>O-ring</td>
<td>NBR-90 P22</td>
<td>1 2 1 1</td>
</tr>
</tbody>
</table>

Note) Specify P, W, A, or B for the asterisk (*) in the kit model number.