Features

This valve incorporates the ease-of-use principles of the modular valve into an electro-hydraulic proportional reducing valve to provide reduction control of hydraulic system pressure in proportion to input current. This valve is perfect for a small-scale hydraulic system, such as those used for continuous proportional control of lathe chuck pressure. A relief function ensures outstanding pressure response characteristics.

Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Model No.</th>
<th>EOG-G01-P’-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Operating Pressure MPa</td>
<td></td>
<td>25(255)</td>
</tr>
<tr>
<td>Maximum Flow Rate ℓ/min</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>Pressure Control Range MPa</td>
<td></td>
<td>0.3 to 14</td>
</tr>
<tr>
<td>Pressure Control Range B : 0.3 to 2.5 (3.1 to 25.5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 : 0.4 to 7 (4 to 71)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 : 0.6 to 14 (6 to 143)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T Port Allowable Back Pressure MPa</td>
<td></td>
<td>2.5(25.5) max</td>
</tr>
<tr>
<td>Rated Current mA</td>
<td></td>
<td>850</td>
</tr>
<tr>
<td>Coil Resistance Ω</td>
<td></td>
<td>20 (20°C)</td>
</tr>
<tr>
<td>Hysteresis %</td>
<td></td>
<td>3 max. (Note 1)</td>
</tr>
<tr>
<td>Weight kg</td>
<td></td>
<td>3.6</td>
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Note) Value when a Nachi-Fujikoshi special amplifier is used (with dithering).

Explanation of model No.

EOG – G 01 – P 1 – 11

- Design number
- Pressure control range: B, 1, 2
- Control port: P port
- Nominal diameter 01
- Mounting method G: Gasket type
- Modular type electro-hydraulic proportional reducing valve

Installation Dimension Drawings

EOG-G01-P’-11

- Manual pressure adjusting screw
- Air vent (Air bleeding)
- Pressure gauge attachment port
- Nameplate
- M4 set screw (hex width across flats 5)
- 4-6.5 hole

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Electro-hydraulic control valve

Performance Curves

Input Current — Pressure Characteristics

![Graph showing the relationship between input current and pressure for different models of the valve.]

Flow Rate — Pressure Characteristics

- EOG-G01-PB
- EOG-G01-P1
- EOG-G01-P2

Oil Temperature Characteristics

- EOG-G01-PB
- EOG-G01-P1
- EOG-G01-P2

Cross-sectional Drawing

EOG-G01-P*-11

Seal Part List (Kit Model Number JBS-G01)

<table>
<thead>
<tr>
<th>Part No.</th>
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<th>Part Number</th>
<th>Q’ty</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>O-ring</td>
<td>AS568-012(NBR-90)</td>
<td>4</td>
</tr>
<tr>
<td>14</td>
<td>O-ring</td>
<td>NBR-90 P20</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>O-ring</td>
<td>NBR-90 P26</td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td>O-ring</td>
<td>NBR-90 P7</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: The materials and hardness of the O-ring conforms with JIS B2401.

Hydraulic Operating Fluid Kinematic Viscosity 32mm²/s

Part No. | Part Name
---|---
1 | Body
2 | Spool
3 | Retainer
4 | Plug
5 | Cover
6 | Seat
7 | Poppet
8 | Retainer
9 | Spring
10 | Spring
11 | Choke
12 | Screw
13 | O-ring
14 | O-ring
15 | O-ring
16 | O-ring
17 | Proportional solenoid

Note: Coil model number JD64-D2

Manual adjustment section