### GAS SPRINGS

#### SLOW RETURN TYPE

**Features**
- The return time (speed) of the piston rod can be adjusted using the needle valve. (To adjust the needle valve, insert a hex wrench into the hexagon socket hole for return speed adjustment.)
- When the piston rod descends, nitrogen gas flows into the auxiliary pressure chamber.
- The operating environment temperature range is 0 ~ 40°C. Ensure that the surface temperature of the gas spring does not exceed 70°C.
- Do not use two or more gas springs on either the die side or punch side. Because it is difficult to synchronize the return timing of multiple gas springs, the die guide may seize or the die may be damaged.
- Do not turn the needle valve stopper. Although it is bonded in place, turning it forcefully may cause gas leakage.
- Check that the surface temperature of the gas spring does not exceed 70°C.
- The shot limit may be affected by the operating environment. The figures shown here are for reference only.

**Precautions**
- Do not turn the needle valve stopper. Although it is bonded in place, turning it forcefully may cause gas leakage.
- Check that the surface temperature of the gas spring does not exceed 70°C.
- The shot limit may be affected by the operating environment. The figures shown here are for reference only.

**Example of use**
- For safety, never touch the needle valve stopper!
- If the stopper comes off, the needle valve may jump out of the spring.
- Do not turn the needle valve stopper. Although it is bonded in place, turning it forcefully may cause gas leakage.
- Check that the surface temperature of the gas spring does not exceed 70°C.
- The shot limit may be affected by the operating environment. The figures shown here are for reference only.

**Load curve**
- This graph is a relationship image of stroke returned and time. Please use as a reference.
- Even though the valve is closed, the return speed is the same as when it is open at first. After a given length of time, the return speed becomes slower gradually.

**Shot limit**
- Number of shots per minute
- The shot limit may be affected by the operating environment. The figures shown here are for reference only.

<table>
<thead>
<tr>
<th>GSSR</th>
<th>Stroke (mm)</th>
<th>25</th>
<th>30</th>
<th>50</th>
<th>80</th>
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</thead>
<tbody>
<tr>
<td>Shot limit (spm)</td>
<td></td>
<td>14</td>
<td>10</td>
<td>8</td>
<td>5</td>
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**Graphs**

1. **Relationship between piston rod return time and needle valve position for GSSR**
2. **Load curve**
3. **Shot limit**

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**GSSR**

<table>
<thead>
<tr>
<th>Weight (kg)</th>
<th>D</th>
<th>d</th>
<th>B</th>
<th>L</th>
<th>H</th>
<th>Ma</th>
<th>J</th>
<th>Mb</th>
<th>D - S</th>
<th>Catalog No.</th>
<th>Price</th>
<th>Quotation</th>
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</thead>
<tbody>
<tr>
<td>1.22</td>
<td>50</td>
<td>30</td>
<td>4</td>
<td>126</td>
<td>110</td>
<td>M8×12</td>
<td>20</td>
<td>M8×12</td>
<td>5000</td>
<td>9750 (994)</td>
<td>GSSR</td>
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</tr>
<tr>
<td>1.33</td>
<td>161</td>
<td>123</td>
<td></td>
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<td>155</td>
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**Order**

**Catalog No.**

**GSSR 50 ~ 56**

**Days to Ship**

**Quotation**

**Price**

**Quotation**

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**GAS SPRINGS**

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<th>H</th>
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