GAS SPRINGS
— SLOW RETURN TYPE —

<table>
<thead>
<tr>
<th>D</th>
<th>L</th>
<th>H</th>
<th>J</th>
<th>Mb</th>
<th>Catalog No.</th>
<th>Base unit price</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>135</td>
<td>110</td>
<td>20</td>
<td>M8×12</td>
<td>GSSR 50</td>
<td>60 ~ 75</td>
</tr>
<tr>
<td>1.22</td>
<td>30</td>
<td>161</td>
<td>123</td>
<td></td>
<td>9750 (994)</td>
<td>61,620</td>
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<tr>
<td>1.35</td>
<td>4</td>
<td>185</td>
<td>195</td>
<td></td>
<td></td>
<td>63,200</td>
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<tr>
<td>1.97</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>64,385</td>
</tr>
</tbody>
</table>

Order
GSSR 96 ~ 98
Disatch 7 Days
Price
Volume discount price P.17

Features
- The return time 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.
- Turn clockwise: The valve closes and the piston rod returns slower. Turn counterclockwise: The valve opens and the piston rod returns faster.
- The nitrogen gas in the auxiliary pressure chamber reduces the pressure in the main pressure chamber, the return speed of the piston rod slows down.
- Because the piston rod can be adjusted to return slowly, the workplace will not be damaged when the piston rod extends during the drawing process.
- For the mounting plate, HM-50 on P.1108 can be used.

Structure
- Needle valve
- Main pressure chamber
- Nitrogen gas
- Overstroke check pin

Precautions
- 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.
- If the needle valve is tightened too much, the valve may be deformed, resulting in malfunction of the gas spring.
- Do not turn the needle valve stopper. Although it is bonded in place, turning it forcefully may cause gas leakage.
- 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.
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■ Relationship between piston rod return time and needle valve position for GSSR

![Graph showing the relationship between piston rod return time and needle valve position for GSSR.](image)

■ Example of use

![Diagram showing an example of use.](image)

■ Load curve

![Graph showing the load curve.](image)

■ Shot limit

<table>
<thead>
<tr>
<th>Stroke (mm)</th>
<th>25</th>
<th>38</th>
<th>50</th>
<th>80</th>
</tr>
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<tbody>
<tr>
<td>Shot limit 1000spm</td>
<td>14</td>
<td>10</td>
<td>8</td>
<td>5</td>
</tr>
</tbody>
</table>

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.

Limit stroke speed
The stroke speed shall not exceed 80mm/sec.