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 bolt for return speed adjustment.)
  - Turn clockwise: The valve closes and the piston rod returns slower.
  - Turn counterclockwise: The valve clearance increases and the piston rod returns faster.
- 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.1122 can be used.

**Order**
- Catalog No. GSSR 50–99

**Quotation**
- Price
- Date of Issue
- Order No.

**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.
- Tightening torque should be 580 N・cm or less.
- 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.

**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 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.
- The operating environment temperature range is 0–70℃. Ensure that the surface temperature of the gas spring does not exceed 70℃.
- GSSR can be used without lubrication.
- For the precautions for use, refer to P.1115.

**Relationship between piston rod return time and needle valve position for GSSR**

**Shot limit**
- GSSR Stroke (mm) 25 38 50 60

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