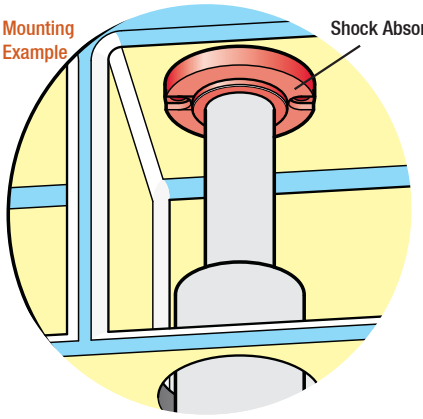
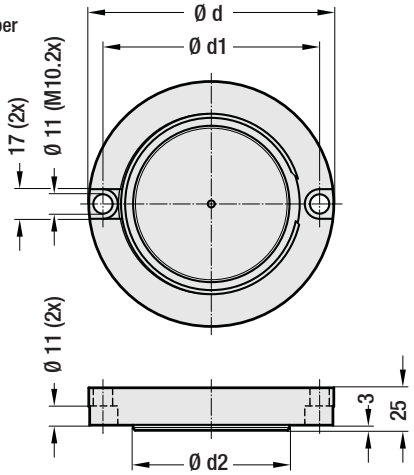




Code: G113

Shock Absorbing for Gas Spring

(daN) 1 Newton : 0.102 Kg.

Order Code	Gas Spring Force F: (daN)	d	d1	d2
G113.58	750 - 1500	108	91	58
G113.92	> 1500 - 6600	143	126	92
G113.112	> 6600 - 10000	167	150	112

Shock absorbing thrust plates are designed to minimize main problems of dies. Specially designed shock absorbing unit has been developed to reduce following the issues.

- Excessive impact.
- High costs in terms of press maintenance and corresponding units.
- High noise levels.
- Low quality production risk.

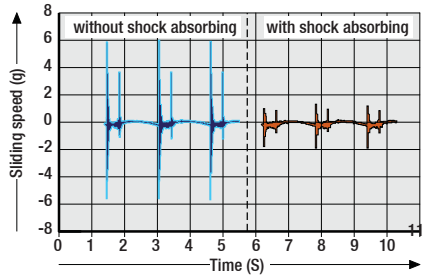
In case of using shock absorbing plates with gas springs:

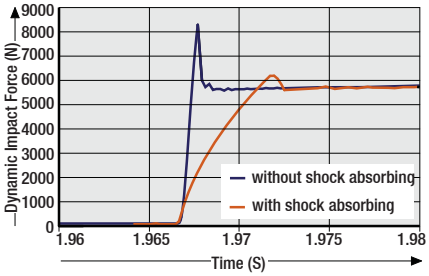
- After maximum 3 mm shock absorbing stroke, gas spring shock absorbing pressure plate reaches its previous spring power.
- Shock absorbing thrust plate should be mounted between die plate and gas spring piston shaft.

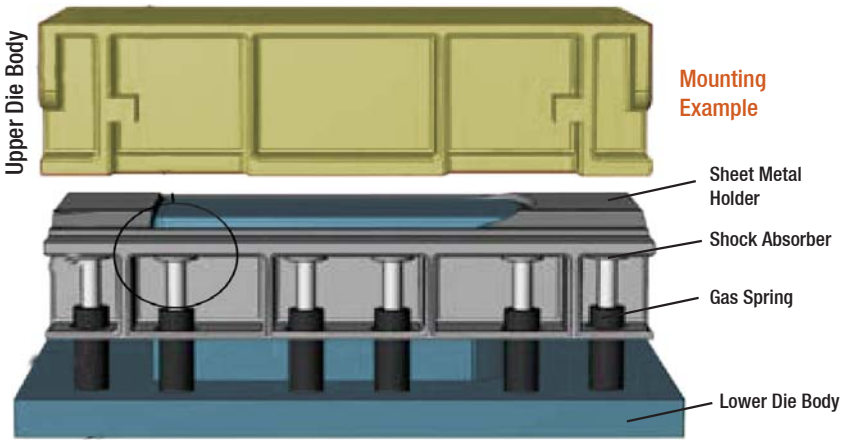
Working temperature: between 0° and 80°C.
Recommended stroke / minute: 20
Max. stroke speed: 1.6 m / s
Max. shock absorbing stroke: 3 mm

Material: Polyurethane
Steel (nitrided)

Shock Absorbing Working Diagram (function)







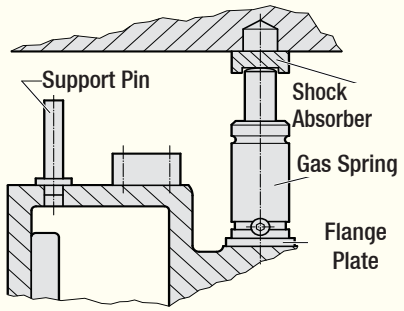
Application of Gas Springs

Using gas springs at large is becoming increasingly popular. Gas springs are mounted to both upper and lower body. The processes on the gas springs should be done after removing the die from the press. In application examples-1 & 2, special shock absorber is shown, these products placed to the place that gas spring will be pressed when die positioned in press and before stamping. During removing from press or storage period, upper die body stays on gas springs.

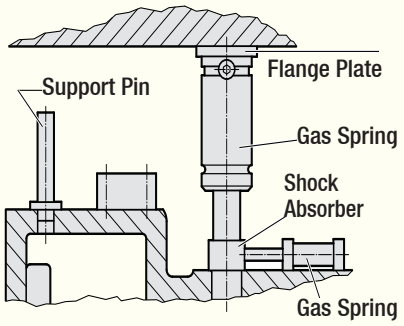
Support pins are for security after gas spring process. When dies are stacked, increased weight can cause crushing of springs, in this case, they are fitted on upper die support pins. When upper die is lifted, gas springs lift the upper body again. While preparing for production, springs enable reach various parts of dies. When die is mounted to press, support pins should be removed (before stamping).

In significant situations: Warning signs should be placed on the die. Gas springs within die may not be visible from the outside.

1 - Gas Spring Mounted to Lower Body



2 - Gas Spring Mounted to Upper Body



3 - Gas Spring Mounted to Upper Body