MANAGING MAXIMUM FORCE – EVEN IN EXTREME CONDITIONS

SCHNORR® is an international leader in the engineering and manufacturing of safety washers and disc springs for the automotive, aerospace and machine construction industries.

![Image of SCHNORR® product]

**Vibration test according to DIN 65151**

<table>
<thead>
<tr>
<th>Force [N]</th>
<th>Number of stress cycles</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>20</td>
<td>500</td>
</tr>
<tr>
<td>50</td>
<td>750</td>
</tr>
<tr>
<td>80</td>
<td>1000</td>
</tr>
<tr>
<td>100</td>
<td>1250</td>
</tr>
</tbody>
</table>

- 100 % pretension force with SCHNORR® safety washer
- 100 % pretension force without SCHNORR® safety washer
- Screw: M10 x 30 + 8 DIN (931) - mech. Zn
- Nut: M10 + 8 DIN (934) - mech. Zn
- SCHNORR® safety washer 8510 - mech. Zn

(a) Single disc spring
(b) Stacked in series; example 3 x 1 = triple deflection
(c) Stacked in parallel; example 1 x 2 = double force
(d) Parallel pairs arranged in series; example 3 x 2 = double force and triple deflection.
**Disc Springs:**
- Space saver with high spring force.
- No setting or fatigue under normal loads.
- Long service life.

**Safety Washers:**
- High resistance to vibration.
- Patented technology.
- Extensive range.

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*DIN EN 16983 replaces DIN 2093 effective 1 February 2017.