Design
Isotop® MSN steel spring vibration isolators consist of two metal plates with M8 internal thread and a cylindrical screw spring according to DIN EN 13906-1:2001, tolerances according to DIN 2095. The metal plates and the screw spring are inseparably connected with a special 2-component compound. On request MSN steel spring vibration isolator can be galvanized or cataphoresis coated with RAL 9005 (deep black). Special coatings or colours are possible on request.

Field of application
Isotop® MSN elements have a natural frequency, depending on the load, down to approx. 3.5 Hz and are mainly used for:

- Compressors
- Extractors
- Small ventilators
- Small fans
- Audio loud speakers
- Pumps
- Emergency power units

Required data for selection
- Total weight to be absorbed
- Number and location of points of support
- Centre of gravity
- Structural shape of the device
- Direction of load
- Lowest disturbing frequency (rotational speed or number of strokes)

Advantages
- Low construction height
- Low resonant frequency
- Construction height, diameter and connection thread are identical for all types which guarantees exchangeability
- Condition of spring elements is clearly visible due to the open construction
- Durable, compact design

Our service
Make use of our know-how on questions about vibration technology. We will gladly consult you and will calculate tailor-made solutions for vibration isolation.

Isotop® MSN, galvanized
Isotop® MSN, KTL
Remark: Loads higher than the recommended deflection are possible. Please then take into account that the deflection caused by additional dynamic loads has an upper limit. In such cases please ask Getzner Spring Solutions GmbH.
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All data indicated are based upon our current knowledge. They may be used as calculation and standard values and are subject to the usual machining tolerances. Subject to change and correction.

### Selection Table

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>REF. NO., GALVANIZED</th>
<th>REF. NO., KTL</th>
<th>NOMINAL RANGE MIN./MAX. IN N</th>
<th>SPRING RATE IN N/MM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isotop® MSN 1</td>
<td>45000171</td>
<td>45000181</td>
<td>18 to 36</td>
<td>1.78</td>
</tr>
<tr>
<td>Isotop® MSN 2</td>
<td>45000172</td>
<td>45000182</td>
<td>27 to 55</td>
<td>2.73</td>
</tr>
<tr>
<td>Isotop® MSN 3</td>
<td>45000173</td>
<td>45000183</td>
<td>45 to 90</td>
<td>4.52</td>
</tr>
<tr>
<td>Isotop® MSN 4</td>
<td>45000174</td>
<td>45000184</td>
<td>70 to 150</td>
<td>7.02</td>
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<tr>
<td>Isotop® MSN 5</td>
<td>45000175</td>
<td>45000185</td>
<td>115 to 230</td>
<td>11.44</td>
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<tr>
<td>Isotop® MSN 6</td>
<td>45000176</td>
<td>45000186</td>
<td>175 to 350</td>
<td>17.30</td>
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<tr>
<td>Isotop® MSN 7</td>
<td>45000177</td>
<td>45000187</td>
<td>285 to 550</td>
<td>26.02</td>
</tr>
<tr>
<td>Isotop® MSN 8</td>
<td>45000178</td>
<td>45000188</td>
<td>440 to 880</td>
<td>43.85</td>
</tr>
</tbody>
</table>

Horizontal forces must be avoided.

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