Steel Spring Isolator
Type SO4

General
The open spring captive isolators, type SO, are designed for those applications where a limitation of isolator displacements is requested. The captive isolators are intended as a fixture or displacement limiter for a short term period, for instance during transportation of a resilient isolated installation. A further reduction of the installation displacements can be achieved with the additional installation of spring hanger units.

Applications
- Generator sets
- Emergency power supplies
- DC-AC converters
- Industrial fans
- Air-handling units
- Pumps
- Air-conditioning machines
- Compressor packages
- Electrical equipment
- Refrigerators
- Cooler units

DIMENSIONS

[Diagram showing dimensions and technical specifications]
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Isolator selection
This described isolator selection is based on the vertical load of the isolators, if required sep-ismic and 6 DOF calculations can be performed by our specialists.

1. Determine the total weight of the machine to be isolated, including work load
2. Determine the position of the combined centre of gravity in horizontal and vertical planes
3. Decide the number of isolators and the positions where the isolators are to be placed relative to the combined centre of gravity
4. Calculate the load per isolator
5. Select with the help of the preferential load in the table the suitable type of mounting

We recommend selection of the isolators be made with the load per isolator within + or - 10% of the preferential load. The static deflection of the isolator is calculated by dividing the load per isolator by the stiffness Cz given in the table for the selected isolator.

<table>
<thead>
<tr>
<th>Type</th>
<th>Cz [N/mm]</th>
<th>Cx, y [N/mm] at preferential load</th>
<th>Fz max [N]</th>
<th>Fz preferential [N]</th>
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<td>SO4-1200</td>
<td>210.4</td>
<td>157.8</td>
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<td>SO4-1400</td>
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<td>5381</td>
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