

# Product catalogue

Machine bearings for  
building services equipment

Update 2020



**getzner**  
engineering a quiet future

# Applications



- 1 Air conditioning (AC) systems/air-handling units
- 2 Fans

- 3 Lift systems
- 4 Chillers, cooling towers



5 Pipes

6 Compressors

7 Heat pumps

8 Pumps

9 Combined heat and power plants (CHP plants)

10 Transformers

# Products

## Steel springs



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Isotop® SD  
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Isotop® DSD  
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## Steel spring block elements



Isotop® MSN-BL  
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Isotop® DMSN-BL  
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Isotop® SD-BL  
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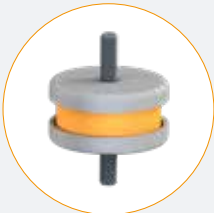


Isotop® DSD-BL  
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## Vibration dampers



Isotop® MSN-DAMP  
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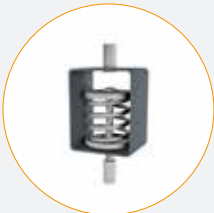


Isotop® Compact  
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## Ceiling hangers



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## Machine bases



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## Point and strip bearings



Sylomer®  
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## Seismic machine bearings



SMM  
[www.getzner.com](http://www.getzner.com)

# Product benefits

## Isotop®

### Low natural frequencies

**Isotop®** spring elements attain natural frequencies of 3 Hz upwards and are therefore best suited to use in facilities with high requirements regarding vibration-isolating effect (for example hospitals, schools, etc.)

### Open spring design

Thanks to the open design of the **Isotop®** spring elements, the deflection and condition can be checked at any time in a simple and time-saving manner.

### Optimum corrosion protection

Due to the surfaces, which are galvanised or employ the cathodic dip-coating (CDC) technology originating from the automotive sector, **Isotop®** elements are ideal for both indoor and outdoor applications. They are highly resistant to weather and temperatures.

### Modular and compact product design

However, the different weight classes do have one thing in common: they are the same size. This makes it simple to plan, install and, if necessary, modify **Isotop®** elements.

### Simple to install

As a result of the various standard types, **Isotop®** elements are simple to install and mount. It is possible to select the best type for the local installation situation.



## Sylomer®, Sylodyn® and Sylodamp®

The polyurethane materials **Sylomer®**, **Sylodyn®** and **Sylodamp®**, developed through our own research, form the high-tech core of our extensive product range.

### Advantages

- Maintenance-free
- Low deflection and long service life
- Highly effective at low overall height
- Resistant to water, salt water, oils and greases
- Resistant to UV and hydrolysis
- Free from plasticisers and environmentally harmful substances



# Product finder

Thanks to its wide range of products, Getzner Werkstoffe is able to tailor the bearings perfectly to customer requirements.

**Isotop®** products are mainly used for low-frequency bearings. They can be tailored in line with the excitation frequency as required, from a frequency of 3 Hz.

- Mainly used for natural frequencies below 8 Hz
- Springs can be used for point loads from 4 kg to more than 5 t per element

**Sylomer®** and **Sylodyn®** are mainly used for full surface bearings with natural frequencies above approximately 7 Hz (excitation frequencies from 25 Hz upwards). Ideally, Getzner HRB bearings are used for very high loads in the smallest spaces.

- Mainly used for natural frequencies above 7 Hz
- Load range up to 1,200 t/m<sup>2</sup>
- Available in thicknesses from 3 mm to 50 mm



| Requirements for isolation effect | High<br>(e.g. hospitals, schools, office buildings, concert and theatres, etc.) |                  | Medium<br>(e.g. shopping centres, hotels, etc.) |                    | Standard<br>(e.g. industrial buildings, etc.) |
|-----------------------------------|---------------------------------------------------------------------------------|------------------|-------------------------------------------------|--------------------|-----------------------------------------------|
|                                   | 9 Hz<br>540 rpm                                                                 | 16 Hz<br>960 rpm | 25 Hz<br>1,500 rpm                              | 30 Hz<br>1,800 rpm | 50 Hz<br>3,000 rpm                            |
|                                   | 3 Hz                                                                            | 5 Hz             | 7 Hz                                            | 9 Hz               | 14 Hz                                         |

\* Natural frequencies are dependent on thickness and geometry.

# EquipCalc

**E**quipCalc, the new online selection program, makes finding the right Isotop® product even easier. A suggested product, together with a number of alternatives, is selected using data such as the weight of the machine and the number of bearings.

We can also help customers with complex system requirements. Our service portfolio includes:

- Calculation and efficiency forecasts
- Comparative measurements
- Materials and system testing
- Customer-specific solutions

## Compelling advantages:



**Intuitive and easy to use**



**Up-to-date product information**



**Quick results**

**1 Following the project description...**

**3 ...which is used to suggest a product.**

**2 ...the relevant data is entered...**

## Data needed to choose the right product

- Total weight
- Number of bearing points

## Other filter options

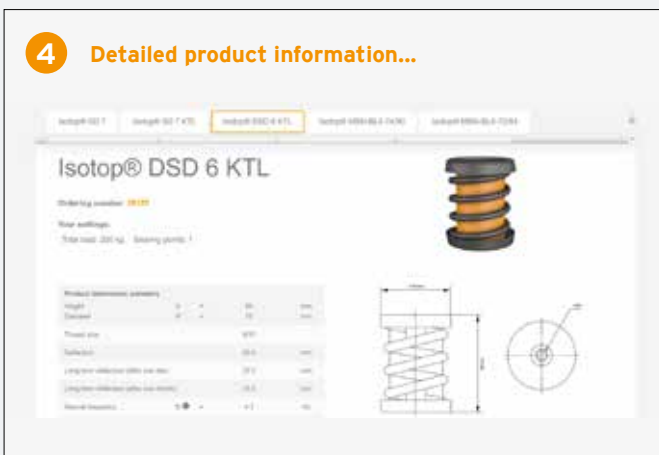
- Desired natural frequency
- Disturbing frequency
- Application
- Installation options
- Available installation height



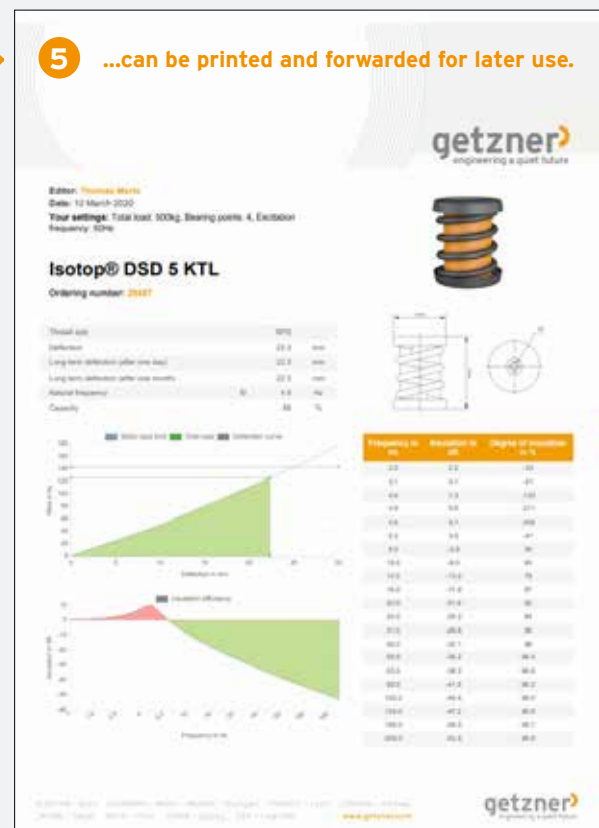
**REGISTER  
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**4 Detailed product information...**

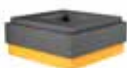


**5 ...can be printed and forwarded for later use.**



# Selection matrix

|                                                         | Steel springs                                                                     |                                                                                   |                                                                                   |                                                                                   | Steel spring block elements                                                       |                                                                                    |                                                                                     |                                                                                     | Vibration dampers                                                                   |                                                                                     |
|---------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                         |  |  |  |  |  |  |  |  |  |  |
|                                                         | <b>MSN</b><br>3.5 Hz<br>3 to 90 kg<br>57 mm                                       | <b>DMSN</b><br>5.3 to 9.5 Hz<br>11 to 100 kg<br>57 mm                             | <b>SD</b><br>3.2 Hz<br>20 to 525 kg<br>94 mm                                      | <b>DSD</b><br>4.2 to 5.6 Hz<br>24 to 650 kg<br>94 mm                              | <b>MSN-BL</b><br>3.5 Hz<br>117 to 800 kg<br>79 mm                                 | <b>DMSN-BL</b><br>5.3 to 6.6 Hz<br>215 to 1,590 kg<br>79 mm                        | <b>SD-BL</b><br>3.4 Hz<br>690 to 4,730 kg<br>118 mm                                 | <b>DSD-BL</b><br>4.3 to 5.2 Hz<br>400 to 5,850 kg<br>118 mm                         | <b>MSN-DAMP</b><br>7.9 to 8.8 Hz<br>10 to 35 kg<br>45 mm (T/T)                      | <b>Compact</b><br>10 to 12 Hz<br>4 to 95 kg<br>30 mm (T/T)                          |
|                                                         | Page 12                                                                           | Page 14                                                                           | Page 16                                                                           | Page 18                                                                           | Page 20                                                                           | Page 22                                                                            | Page 24                                                                             | Page 26                                                                             | Page 28                                                                             | Page 30                                                                             |
| <b>1</b><br>Air conditioning (AC) systems               |                                                                                   |                                                                                   | ☞                                                                                 | ☞                                                                                 |                                                                                   |                                                                                    | ☞                                                                                   | ☞                                                                                   |                                                                                     |                                                                                     |
| <b>2</b><br>Fans                                        | ☞                                                                                 | ☞                                                                                 | ☞                                                                                 | ☞                                                                                 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     | ☞                                                                                   |
| <b>3</b><br>Lift systems                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <b>4</b><br>Chillers, cooling towers                    |                                                                                   |                                                                                   | ☞                                                                                 | ☞                                                                                 |                                                                                   |                                                                                    | ☞                                                                                   | ☞                                                                                   |                                                                                     |                                                                                     |
| <b>5</b><br>Pipes                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☞                                                                                 |                                                                                    | ☞                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| <b>6</b><br>Compressors                                 | ☞                                                                                 | ☞                                                                                 | ☞                                                                                 | ☞                                                                                 |                                                                                   |                                                                                    |                                                                                     |                                                                                     | ☞                                                                                   | ☞                                                                                   |
| <b>7</b><br>Heat pumps                                  | ☞                                                                                 | ☞                                                                                 | ☞                                                                                 | ☞                                                                                 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     | ☞                                                                                   |
| <b>8</b><br>Pumps                                       | ☞                                                                                 | ☞                                                                                 | ☞                                                                                 | ☞                                                                                 | ☞                                                                                 | ☞                                                                                  | ☞                                                                                   | ☞                                                                                   |                                                                                     |                                                                                     |
| <b>9</b><br>Combined heat and power plants (CHP plants) |                                                                                   | ☞                                                                                 |                                                                                   | ☞                                                                                 |                                                                                   | ☞                                                                                  |                                                                                     | ☞                                                                                   |                                                                                     |                                                                                     |
| <b>10</b><br>Transformers                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ☞                                                                                   | ☞                                                                                   |                                                                                     |                                                                                     |

| Ceiling hangers                                                                                                                                                 | Pressure-tension elements                                                                                                                             | Sandwich elements                                                                                                                                         |                                                                                                                                                         |                                                                                                                                                               | Machine bases                                                                                                                                     | Compressor bearings                                                                                                                           | Transformer bearings                                                                                                                                   | Point and strip bearings                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>MSN/Z + SD/Z</b><br/>3.2 to 3.5 Hz<br/>3 to 310 kg<br/>105 to 190 mm</p> |  <p><b>DZE</b><br/>7 to 12 Hz<br/>9 to 4,135 kg<br/>49 to 117 mm</p> |  <p><b>SE pro</b><br/>6 to 12 Hz<br/>116 to 1,260 kg<br/>41 to 99 mm</p> |  <p><b>SE light</b><br/>10.8 to 12.7 Hz<br/>63 to 930 kg<br/>33 mm</p> |  <p><b>SE-DE</b><br/>6.6 to 9.5 Hz<br/>105 to 3,480 kg<br/>109 or 147 mm</p> |  <p><b>ENI</b><br/>10 to 10.9 Hz<br/>61 to 285 kg<br/>108 mm</p> |  <p><b>CGR</b><br/>27 to 33 Hz<br/>3 to 20 kg<br/>25 mm</p> |  <p><b>TR</b><br/>8.5 to 11.3 Hz<br/>400 to 10,000 kg<br/>69 mm</p> |  <p><b>PBE/SBE</b><br/>10 to 18.5 Hz<br/>6 to 1,075 kg<br/>12.5 or 25 mm</p> |
| Page 34                                                                                                                                                         | Page 36                                                                                                                                               | Page 38                                                                                                                                                   | Page 40                                                                                                                                                 | Page 42                                                                                                                                                       | Page 44                                                                                                                                           | Page 46                                                                                                                                       | Page 48                                                                                                                                                | Page 50                                                                                                                                                         |
|                                                                                                                                                                 | Recommended                                                                                                                                           | Recommended                                                                                                                                               | Recommended                                                                                                                                             | Alternative                                                                                                                                                   | Recommended                                                                                                                                       |                                                                                                                                               |                                                                                                                                                        | Recommended                                                                                                                                                     |
| Alternative                                                                                                                                                     | Alternative                                                                                                                                           |                                                                                                                                                           |                                                                                                                                                         |                                                                                                                                                               |                                                                                                                                                   |                                                                                                                                               |                                                                                                                                                        |                                                                                                                                                                 |
|                                                                                                                                                                 | Recommended                                                                                                                                           |                                                                                                                                                           |                                                                                                                                                         | Recommended                                                                                                                                                   |                                                                                                                                                   |                                                                                                                                               |                                                                                                                                                        |                                                                                                                                                                 |
|                                                                                                                                                                 | Alternative                                                                                                                                           | Recommended                                                                                                                                               | Alternative                                                                                                                                             | Alternative                                                                                                                                                   | Recommended                                                                                                                                       |                                                                                                                                               |                                                                                                                                                        | Recommended                                                                                                                                                     |
| Recommended                                                                                                                                                     |                                                                                                                                                       |                                                                                                                                                           |                                                                                                                                                         |                                                                                                                                                               |                                                                                                                                                   |                                                                                                                                               |                                                                                                                                                        |                                                                                                                                                                 |
|                                                                                                                                                                 |                                                                                                                                                       |                                                                                                                                                           |                                                                                                                                                         |                                                                                                                                                               |                                                                                                                                                   | Recommended                                                                                                                                   |                                                                                                                                                        |                                                                                                                                                                 |
|                                                                                                                                                                 | Alternative                                                                                                                                           |                                                                                                                                                           | Recommended                                                                                                                                             |                                                                                                                                                               | Recommended                                                                                                                                       |                                                                                                                                               |                                                                                                                                                        | Recommended                                                                                                                                                     |
|                                                                                                                                                                 | Recommended                                                                                                                                           |                                                                                                                                                           |                                                                                                                                                         |                                                                                                                                                               |                                                                                                                                                   |                                                                                                                                               |                                                                                                                                                        |                                                                                                                                                                 |
|                                                                                                                                                                 | Recommended                                                                                                                                           |                                                                                                                                                           |                                                                                                                                                         |                                                                                                                                                               |                                                                                                                                                   |                                                                                                                                               |                                                                                                                                                        | Recommended                                                                                                                                                     |
|                                                                                                                                                                 |                                                                                                                                                       |                                                                                                                                                           |                                                                                                                                                         |                                                                                                                                                               |                                                                                                                                                   |                                                                                                                                               | Recommended                                                                                                                                            | Alternative                                                                                                                                                     |

 Recommended  
 Alternative



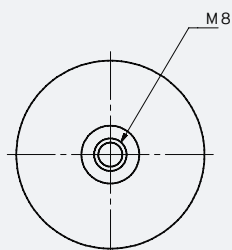
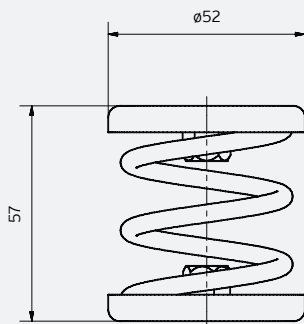
# Isotop® MSN

## Steel spring isolators for low installation heights

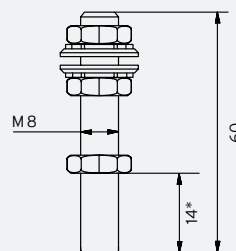
- Natural frequency from 3.5 Hz
- Low overall height of 57 mm
- Electro-galvanised or cathodic dip-coated (CDC) for increased corrosion protection
- Secure connection between the plate and the spring thanks to special adhesive
- M 8 internal thread
- Simple load control thanks to open design
- Spring design conforms to DIN EN 13906-1

|                                                                                                                              |                    |    | Maximum load        |      | Natural frequency at maximum load | Packaging unit   | Order number |
|------------------------------------------------------------------------------------------------------------------------------|--------------------|----|---------------------|------|-----------------------------------|------------------|--------------|
|                                                                                                                              |                    |    | in kg               | in N |                                   |                  |              |
| <b>MSN spring element galvanised</b><br>   | Isotop® MSN 1      |    | 3                   | 29   | 3.5 Hz                            | 50 pcs.          | <b>39376</b> |
|                                                                                                                              | Isotop® MSN 2      |    | 5                   | 49   | 3.5 Hz                            | 50 pcs.          | <b>39377</b> |
|                                                                                                                              | Isotop® MSN 3      |    | 9                   | 88   | 3.5 Hz                            | 50 pcs.          | <b>39378</b> |
|                                                                                                                              | Isotop® MSN 4      |    | 14                  | 137  | 3.5 Hz                            | 50 pcs.          | <b>39379</b> |
|                                                                                                                              | Isotop® MSN 5      |    | 23                  | 226  | 3.5 Hz                            | 50 pcs.          | <b>39380</b> |
|                                                                                                                              | Isotop® MSN 6      |    | 35                  | 343  | 3.5 Hz                            | 50 pcs.          | <b>39381</b> |
|                                                                                                                              | Isotop® MSN 7      |    | 53                  | 519  | 3.5 Hz                            | 50 pcs.          | <b>39382</b> |
|                                                                                                                              | Isotop® MSN 8      |    | 90                  | 883  | 3.5 Hz                            | 50 pcs.          | <b>39383</b> |
| <b>MSN spring element CDC</b><br>         | Isotop® MSN 1 CDC  |    | 3                   | 29   | 3.5 Hz                            | 100 pcs.         | <b>39384</b> |
|                                                                                                                              | Isotop® MSN 2 CDC  |    | 5                   | 49   | 3.5 Hz                            | 100 pcs.         | <b>39415</b> |
|                                                                                                                              | Isotop® MSN 3 CDC  |    | 9                   | 88   | 3.5 Hz                            | 50 pcs.          | <b>39416</b> |
|                                                                                                                              | Isotop® MSN 4 CDC  |    | 14                  | 137  | 3.5 Hz                            | 50 pcs.          | <b>39417</b> |
|                                                                                                                              | Isotop® MSN 5 CDC  |    | 23                  | 226  | 3.5 Hz                            | 50 pcs.          | <b>39418</b> |
|                                                                                                                              | Isotop® MSN 6 CDC  |    | 35                  | 343  | 3.5 Hz                            | 50 pcs.          | <b>39419</b> |
|                                                                                                                              | Isotop® MSN 7 CDC  |    | 53                  | 519  | 3.5 Hz                            | 50 pcs.          | <b>39420</b> |
|                                                                                                                              | Isotop® MSN 8 CDC  |    | 90                  | 883  | 3.5 Hz                            | 50 pcs.          | <b>39421</b> |
| <b>Height adjustment for MSN/DMSN</b><br> | Isotop® NV 1-8 MSN | M8 | for MSN/DMSN 1 to 8 |      |                                   | 1 set (= 4 pcs.) | <b>40507</b> |
|                                                                                                                              |                    |    |                     |      |                                   |                  |              |

### Isotop® MSN (unladen)



### Isotop® NV 1-8 MSN



\*Thread reach MSN/DMSN

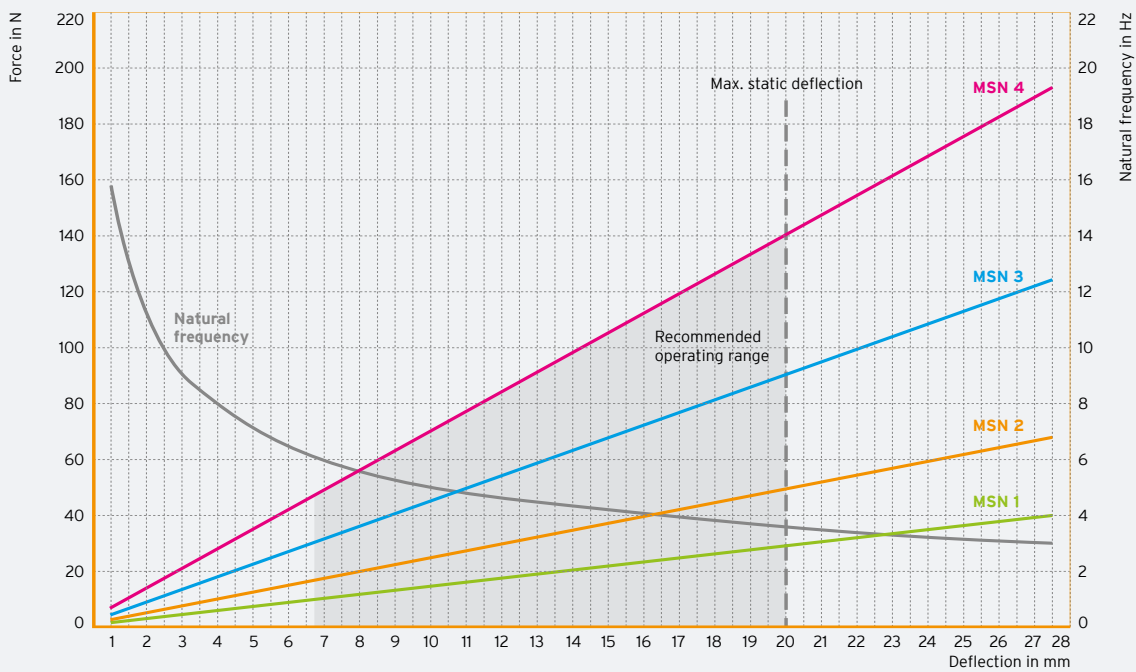


Axial fan in an AC system

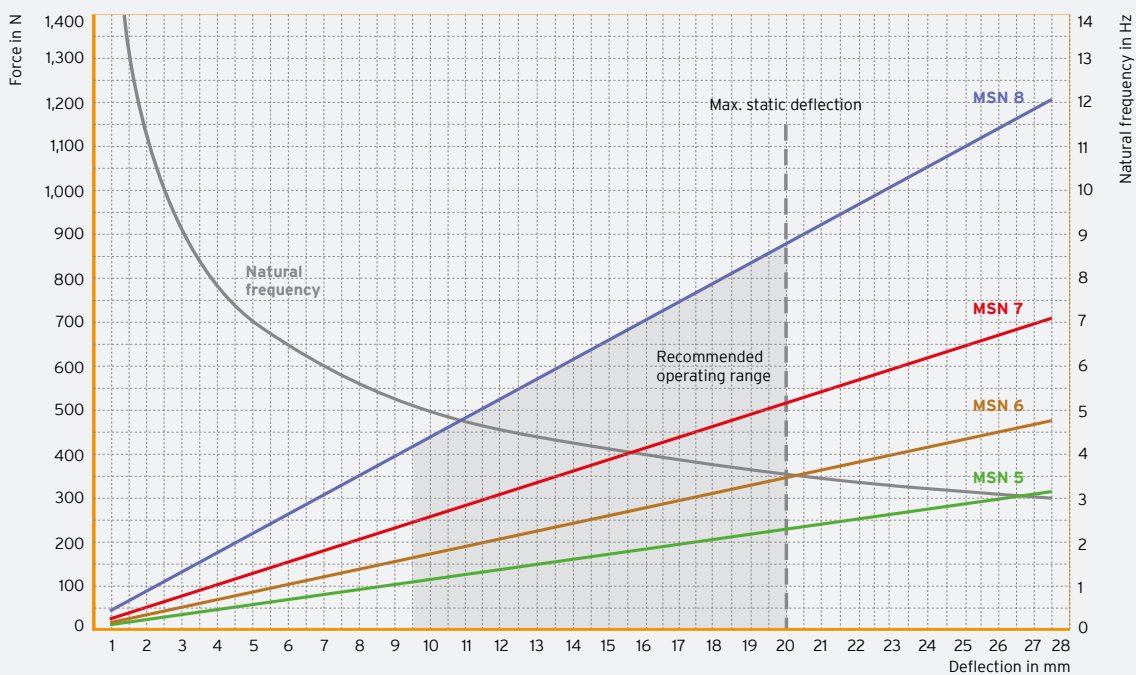


External unit of a heat pump on a wall bracket

#### Isotop® MSN 1– MSN 4



#### Isotop® MSN 5– MSN 8







# Isotop® DMSN

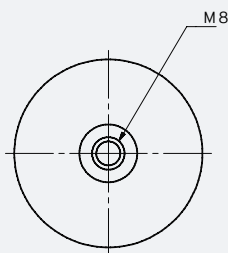
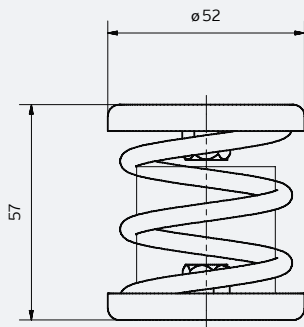
Steel spring isolators for low installation heights,  
with integrated high-performance dampers

- Natural frequency from 5.3 Hz
- Low overall height of 57 mm
- Sylodamp® inside - ideal for machines with several start-stop cycles
- Cathodic dip-coating (CDC) for increased corrosion protection
- Secure connection between the plate and the spring thanks to special adhesive
- M8 internal thread
- Simple load control thanks to open design
- Spring design conforms to DIN EN 13906-1

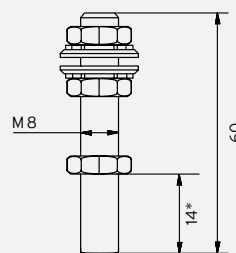
|                                                                                                                              |                    |     | Maximum load        |      | Natural frequency at maximum load | Packaging unit   | Order number |
|------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|---------------------|------|-----------------------------------|------------------|--------------|
|                                                                                                                              |                    |     | in kg               | in N |                                   |                  |              |
| <b>DMSN spring element CDC</b><br>          | Isotop® DMSN 3     | CDC | 11                  | 108  | 9.5 Hz                            | 50 pcs.          | <b>42389</b> |
|                                                                                                                              | Isotop® DMSN 4     | CDC | 16                  | 158  | 7.8 Hz                            | 50 pcs.          | <b>42390</b> |
|                                                                                                                              | Isotop® DMSN 5     | CDC | 33                  | 324  | 8.1 Hz                            | 50 pcs.          | <b>42397</b> |
|                                                                                                                              | Isotop® DMSN 6     | CDC | 45                  | 441  | 7.0 Hz                            | 50 pcs.          | <b>42396</b> |
|                                                                                                                              | Isotop® DMSN 7     | CDC | 63                  | 618  | 6.2 Hz                            | 50 pcs.          | <b>42394</b> |
|                                                                                                                              | Isotop® DMSN 8     | CDC | 100                 | 981  | 5.3 Hz                            | 50 pcs.          | <b>42395</b> |
| <b>Height adjustment for MSN/DMSN</b><br> | Isotop® NV 1-8 MSN | M8  | for MSN/DMSN 1 to 8 |      |                                   | 1 set (= 4 pcs.) | <b>40507</b> |

Not held in stock. Delivery time on request (approx. 15 working days from the factory)

## Isotop® DMSN (unladen)



## Isotop® NV 1-8 MSN



\*Thread reach MSN/DMSN

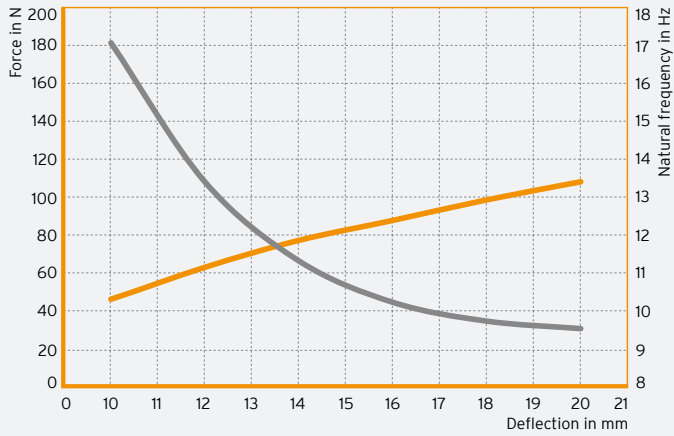


External unit heat pump

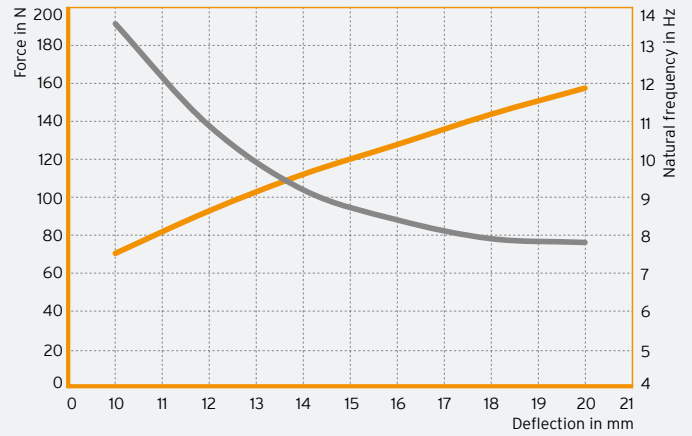


Power generator

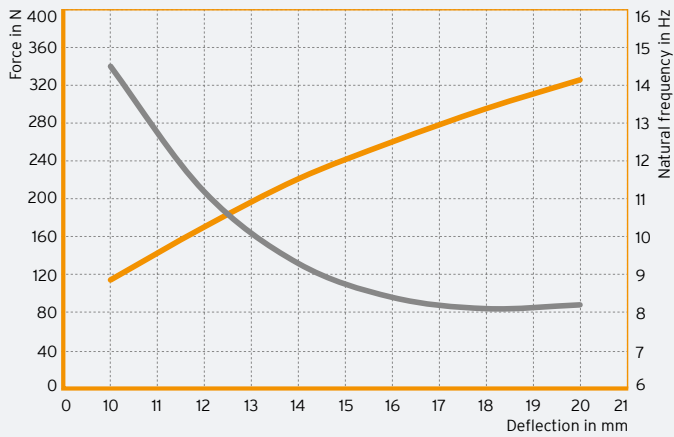
### Isotop® DMSN 3



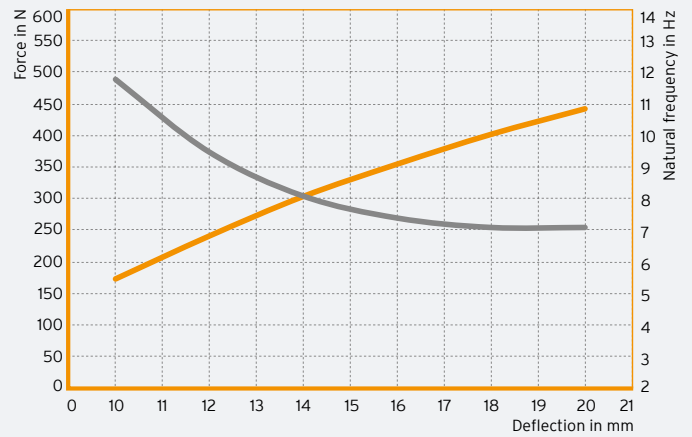
### Isotop® DMSN 4



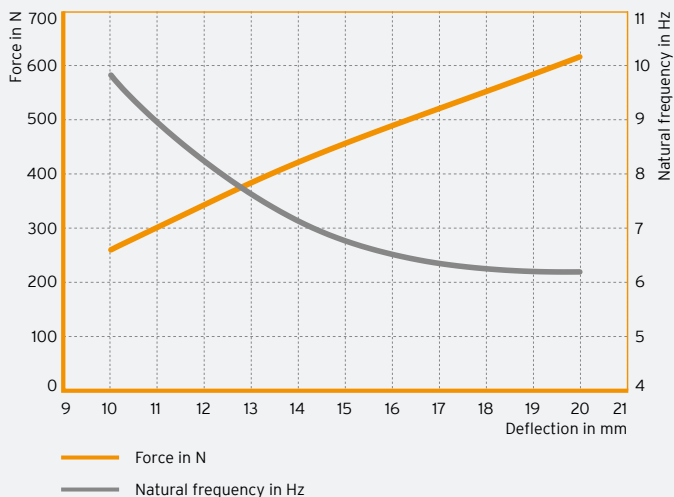
### Isotop® DMSN 5



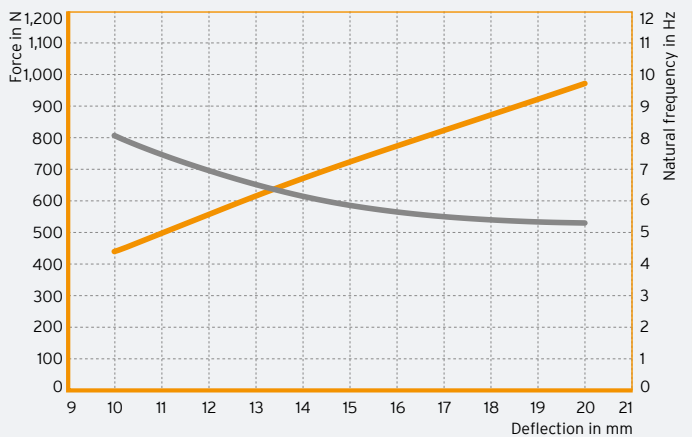
### Isotop® DMSN 6



### Isotop® DMSN 7



### Isotop® DMSN 8





# Isotop® SD

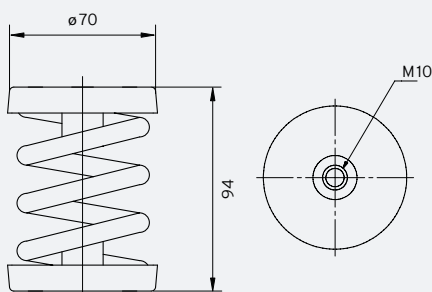
## Steel spring isolators

- Natural frequency from 3.2 Hz
- Electro-galvanised or cathodic dip-coated (CDC) for increased corrosion protection
- Secure connection between the plate and the spring thanks to special adhesive
- M10 internal thread
- Suitable base plate and/or height adjustment available
- Base plate with damping element (FP/K) also isolates higher frequencies
- Simple load control thanks to open design
- Spring design conforms to DIN EN 13906-1

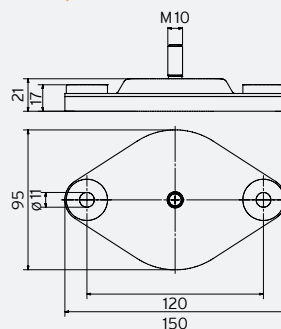
|                                                                                                                                                         |                      |     | Maximum load<br>in kg | Maximum load<br>in N | Natural frequency<br>at maximum load | Packaging<br>unit | Order<br>number |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----|-----------------------|----------------------|--------------------------------------|-------------------|-----------------|
| <b>SD<br/>spring element<br/>galvanised</b><br>                       | Isotop® SD 1         |     | 20                    | 196                  | 3.4 Hz                               | 50 pcs.           | <b>39443</b>    |
|                                                                                                                                                         | Isotop® SD 2         |     | 33                    | 324                  | 3.4 Hz                               | 50 pcs.           | <b>39444</b>    |
|                                                                                                                                                         | Isotop® SD 3         |     | 52                    | 510                  | 3.4 Hz                               | 50 pcs.           | <b>39003</b>    |
|                                                                                                                                                         | Isotop® SD 4         |     | 82                    | 804                  | 3.4 Hz                               | 50 pcs.           | <b>39455</b>    |
|                                                                                                                                                         | Isotop® SD 5         |     | 123                   | 1,206                | 3.4 Hz                               | 50 pcs.           | <b>39004</b>    |
|                                                                                                                                                         | Isotop® SD 6         |     | 195                   | 1,913                | 3.4 Hz                               | 50 pcs.           | <b>39456</b>    |
|                                                                                                                                                         | Isotop® SD 7         |     | 310                   | 3,041                | 3.4 Hz                               | 50 pcs.           | <b>39457</b>    |
|                                                                                                                                                         | Isotop® SD 8         |     | 420                   | 4,120                | 3.4 Hz                               | 50 pcs.           | <b>39458</b>    |
|                                                                                                                                                         | Isotop® SD 9         |     | 525                   | 5,150                | 3.4 Hz                               | 50 pcs.           | <b>39459</b>    |
| <b>SD<br/>spring element<br/>CDC</b><br>                             | Isotop® SD 1 CDC     |     | 20                    | 196                  | 3.4 Hz                               | 100 pcs.          | <b>39460</b>    |
|                                                                                                                                                         | Isotop® SD 2 CDC     |     | 33                    | 324                  | 3.4 Hz                               | 100 pcs.          | <b>39461</b>    |
|                                                                                                                                                         | Isotop® SD 3 CDC     |     | 52                    | 510                  | 3.4 Hz                               | 50 pcs.           | <b>39462</b>    |
|                                                                                                                                                         | Isotop® SD 4 CDC     |     | 82                    | 804                  | 3.4 Hz                               | 50 pcs.           | <b>39463</b>    |
|                                                                                                                                                         | Isotop® SD 5 CDC     |     | 123                   | 1,206                | 3.4 Hz                               | 50 pcs.           | <b>39464</b>    |
|                                                                                                                                                         | Isotop® SD 6 CDC     |     | 195                   | 1,913                | 3.4 Hz                               | 50 pcs.           | <b>39465</b>    |
|                                                                                                                                                         | Isotop® SD 7 CDC     |     | 310                   | 3,041                | 3.4 Hz                               | 50 pcs.           | <b>39466</b>    |
|                                                                                                                                                         | Isotop® SD 8 CDC     |     | 420                   | 4,120                | 3.4 Hz                               | 100 pcs.          | <b>39467</b>    |
|                                                                                                                                                         | Isotop® SD 9 CDC     |     | 525                   | 5,150                | 3.4 Hz                               | 100 pcs.          | <b>39468</b>    |
| <b>Base plate FP/K<br/>with damping ele-<br/>ment for SD/DSD</b><br> | Isotop® FP/K 1-9     |     | for SD 1 to 9         |                      | including screws <sup>1</sup>        | 50 pcs.           | <b>38216</b>    |
|                                                                                                                                                         | Isotop® FP/K 1-9 CDC |     | for SD 1 to 9         |                      | including screws <sup>1</sup>        | 50 pcs.           | <b>39158</b>    |
| <b>Base plate FP<br/>for SD/DSD</b><br>                              | Isotop® FP 1-9       |     | for SD 1 to 9         |                      | without screws                       | 50 pcs.           | <b>39536</b>    |
|                                                                                                                                                         | Isotop® FP 1-9 CDC   |     | for SD 1 to 9         |                      | without screws                       | 50 pcs.           | <b>39537</b>    |
| <b>Height<br/>adjustment<br/>for SD/DSD</b><br>                      | Isotop® NV 1-9       | M10 | for SD 1 to 9         |                      |                                      | 1 set (= 4 pcs.)  | <b>39535</b>    |

<sup>1</sup> M10 connecting screws between base plate and spring

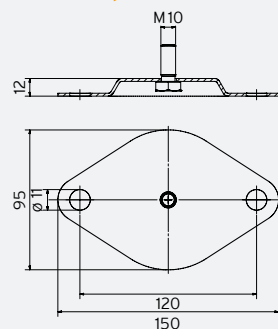
### Isotop® SD (unladen)



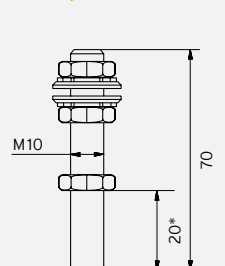
### Isotop® FP/K



### Isotop® FP



### Isotop® NV 1-9



\*Thread reach SD/DSD

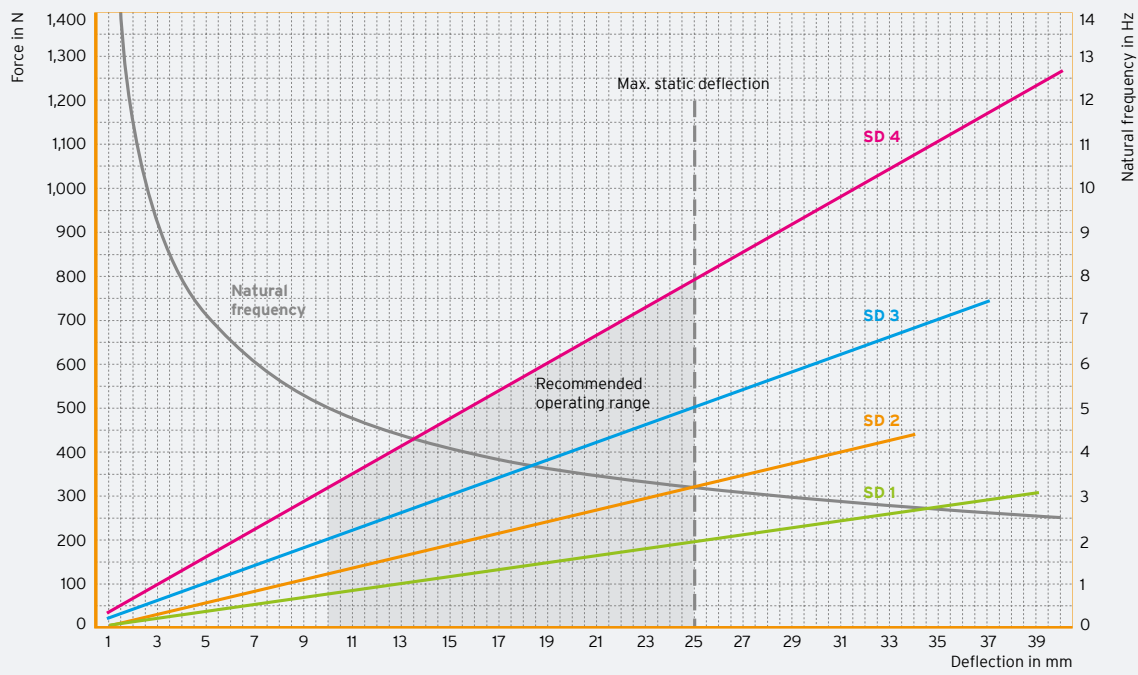


Bearing of belt-driven fans

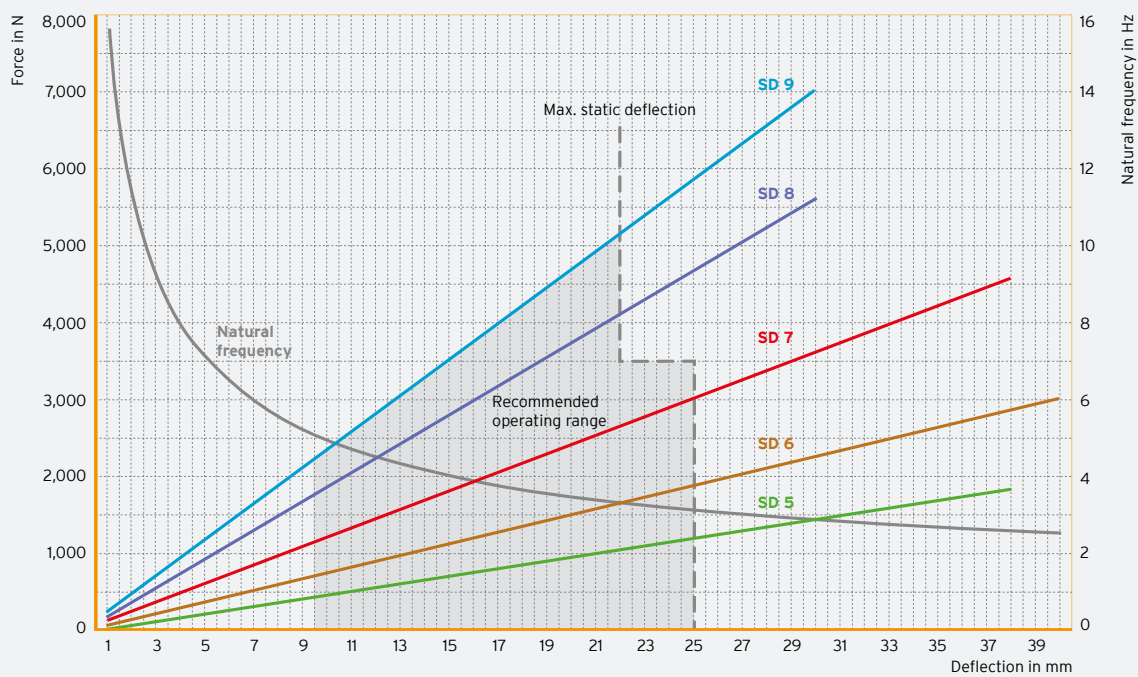


Industrial heat pump

#### Isotop® SD 1– SD 4



#### Isotop® SD 5 – SD 9





# Isotop® DSD

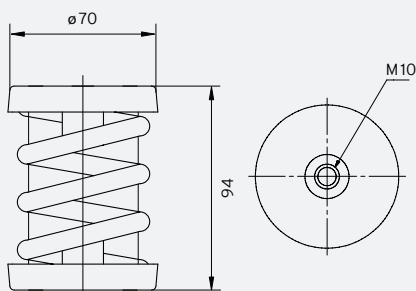
## Steel spring isolators with integrated high-performance dampers

- Natural frequency from 4.2 Hz
- Sylodamp® inside - ideal for machines with several start-stop cycles
- Cathodic dip-coating (CDC) for increased corrosion protection
- Secure connection between the plate and the spring thanks to special adhesive
- M10 internal thread
- Suitable base plate and/or height adjustment available
- Base plate with damping element (FP/K) also isolates higher frequencies
- Simple load control thanks to open design
- Spring design conforms to DIN EN 13906-1

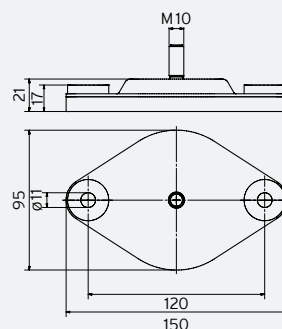
|                                                                                                                                               |                      |     | Maximum load   |       | Natural frequency at maximum load | Packaging unit   | Order number |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----|----------------|-------|-----------------------------------|------------------|--------------|
|                                                                                                                                               |                      |     | in kg          | in N  |                                   |                  |              |
| <b>DSD spring element CDC</b><br>                           | Isotop® DSD 1 CDC    |     | 24             | 235   | 5.6 Hz                            | 50 pcs.          | <b>39492</b> |
|                                                                                                                                               | Isotop® DSD 2 CDC    |     | 39             | 383   | 4.9 Hz                            | 50 pcs.          | <b>39493</b> |
|                                                                                                                                               | Isotop® DSD 3 CDC    |     | 57             | 559   | 4.8 Hz                            | 50 pcs.          | <b>39495</b> |
|                                                                                                                                               | Isotop® DSD 4 CDC    |     | 87             | 853   | 4.2 Hz                            | 50 pcs.          | <b>39496</b> |
|                                                                                                                                               | Isotop® DSD 5 CDC    |     | 140            | 1,373 | 4.8 Hz                            | 50 pcs.          | <b>39497</b> |
|                                                                                                                                               | Isotop® DSD 6 CDC    |     | 200            | 1,962 | 4.3 Hz                            | 50 pcs.          | <b>39157</b> |
|                                                                                                                                               | Isotop® DSD 7 CDC    |     | 365            | 3,581 | 5.2 Hz                            | 50 pcs.          | <b>39498</b> |
|                                                                                                                                               | Isotop® DSD 8 CDC    |     | 470            | 4,611 | 4.7 Hz                            | 50 pcs.          | <b>39499</b> |
|                                                                                                                                               | Isotop® DSD 9 CDC    |     | 650            | 6,377 | 4.6 Hz                            | 50 pcs.          | <b>39500</b> |
| <b>Base plate FP/K with damping element for SD/DSD</b><br> | Isotop® FP/K 1-9 CDC |     | for DSD 1 to 9 |       | including screws <sup>1</sup>     | 50 pcs.          | <b>39158</b> |
|                                                                                                                                               |                      |     |                |       |                                   |                  |              |
| <b>Base plate FP for SD/DSD</b><br>                        | Isotop® FP 1-9 CDC   |     | for DSD 1 to 9 |       | without screws                    | 50 pcs.          | <b>39537</b> |
|                                                                                                                                               |                      |     |                |       |                                   |                  |              |
| <b>Height adjustment for SD/DSD</b><br>                    | Isotop® NV 1-9       | M10 | for DSD 1 to 9 |       |                                   | 1 set (= 4 pcs.) | <b>39535</b> |
|                                                                                                                                               |                      |     |                |       |                                   |                  |              |

<sup>1</sup> M10 connecting screws between base plate and spring

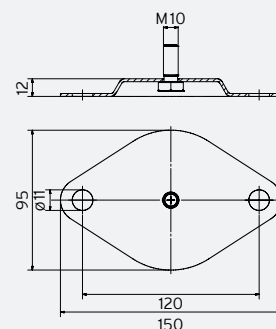
### Isotop® DSD (unladen)



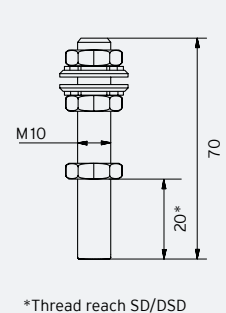
### Isotop® FP/K



### Isotop® FP



### Isotop® NV 1-9



\*Thread reach SD/DSD



Small combined heat and power plant



Roof-mounted recooler

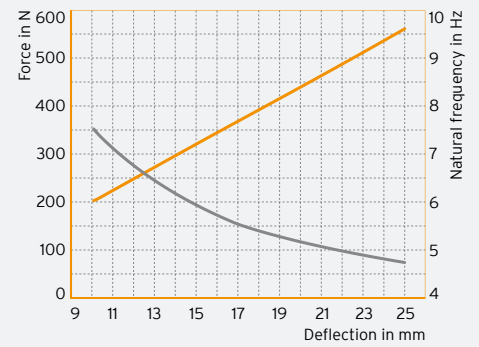
Isotop® DSD 1



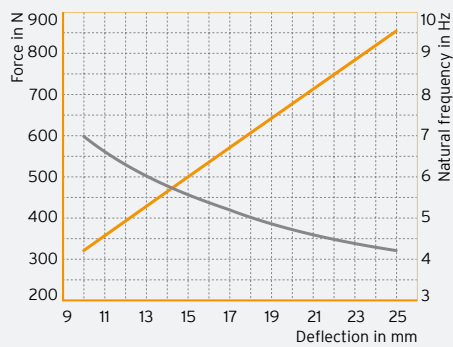
Isotop® DSD 2



Isotop® DSD 3



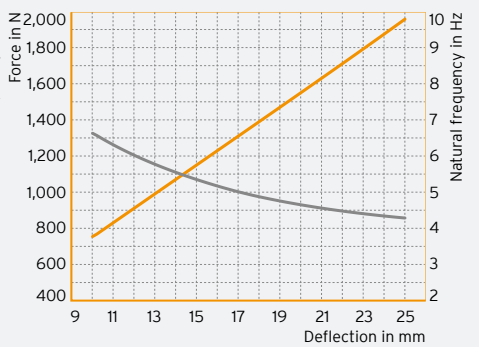
Isotop® DSD 4



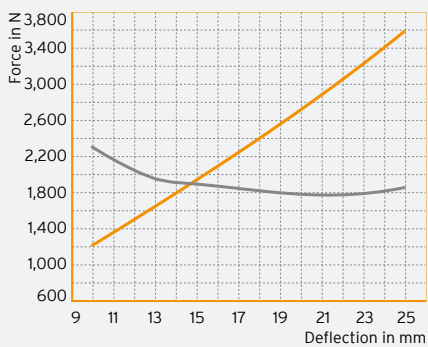
Isotop® DSD 5



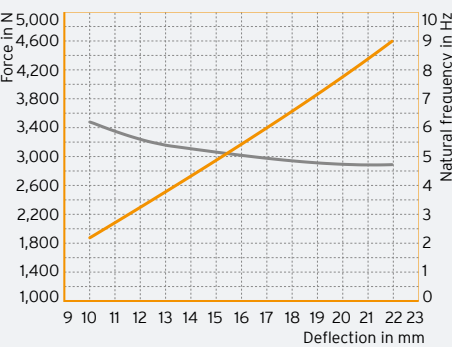
Isotop® DSD 6



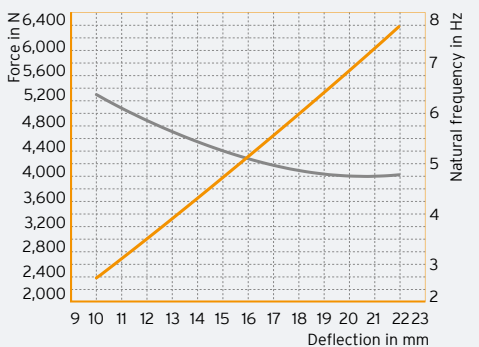
Isotop® DSD 7



Isotop® DSD 8



Isotop® DSD 9



— Force in N  
— Natural frequency in Hz





# Isotop® MSN-BL

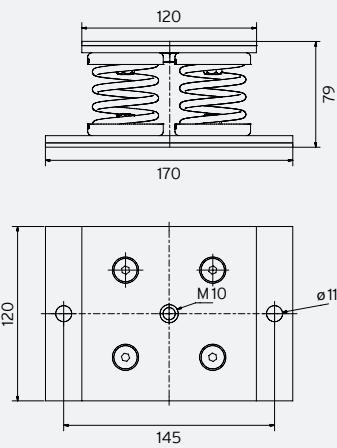
MSN steel spring block element  
for low installation heights and high loads

- Natural frequency from 3.5 Hz
- Low overall height of 79 mm
- High load capacity of up to 800 kg per element
- Top plate and base plate fitted with 6 mm Sylomer® anti-slip plate
- CDC coating of springs and powder coating of pressure plates for outstanding corrosion protection
- Secure connection between the plate and the spring thanks to special adhesive
- Top plate with M10 thread
- Simple load control thanks to open design

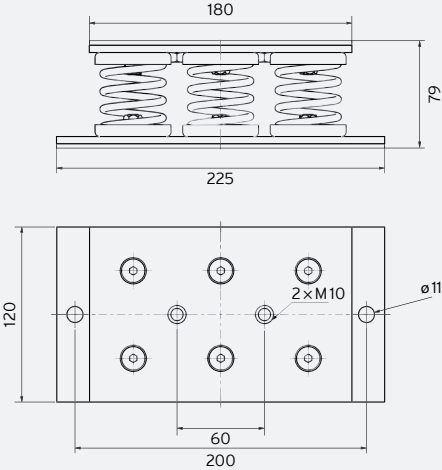
|                                                                                    |                       | Maximum load |       | Natural frequency at maximum load | Packaging unit | Order number |
|------------------------------------------------------------------------------------|-----------------------|--------------|-------|-----------------------------------|----------------|--------------|
|                                                                                    |                       | in kg        | in N  |                                   |                |              |
|  | Isotop® MSN-BL4-52/62 | 117          | 1,147 | 3.5 Hz                            | 4 pcs.         | <b>42407</b> |
|                                                                                    | Isotop® MSN-BL4-74/80 | 212          | 2,079 | 3.5 Hz                            | 4 pcs.         | <b>42408</b> |
|                                                                                    | Isotop® MSN-BL4-70/84 | 360          | 3,531 | 3.5 Hz                            | 4 pcs.         | <b>42410</b> |
|                                                                                    | Isotop® MSN-BL6-72/84 | 465          | 4,561 | 3.5 Hz                            | 10 pcs.        | <b>42411</b> |
|                                                                                    | Isotop® MSN-BL6-70/86 | 535          | 5,248 | 3.5 Hz                            | 10 pcs.        | <b>42412</b> |
|                                                                                    | Isotop® MSN-BL9-73/86 | 695          | 6,817 | 3.5 Hz                            | 10 pcs.        | <b>42413</b> |
|                                                                                    | Isotop® MSN-BL9-70/89 | 800          | 7,848 | 3.5 Hz                            | 10 pcs.        | <b>42414</b> |

Not held in stock. Delivery time on request (approx. 15 working days from the factory).  
Customised block elements (spring combinations) available on request.

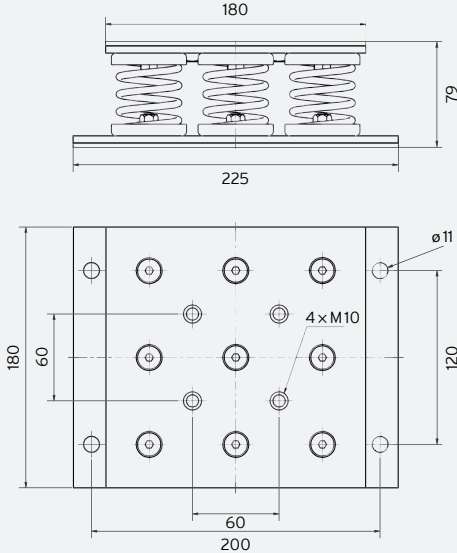
Isotop® MSN-BL 4 (unladen)



Isotop® MSN-BL 6 (unladen)



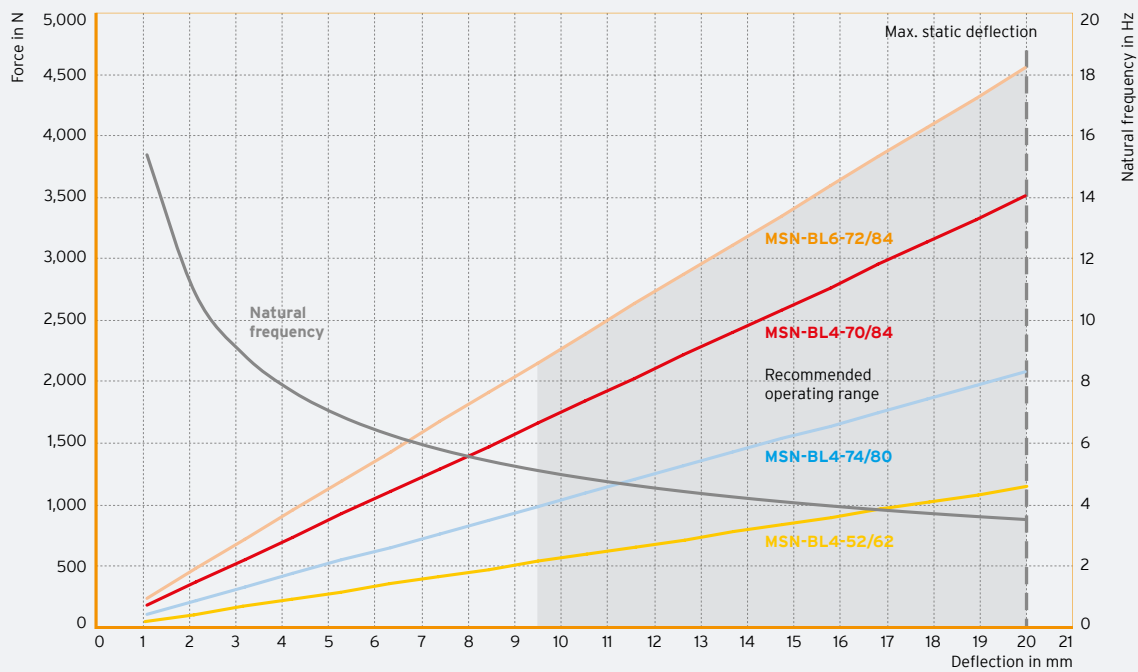
Isotop® MSN-BL 9 (unladen)



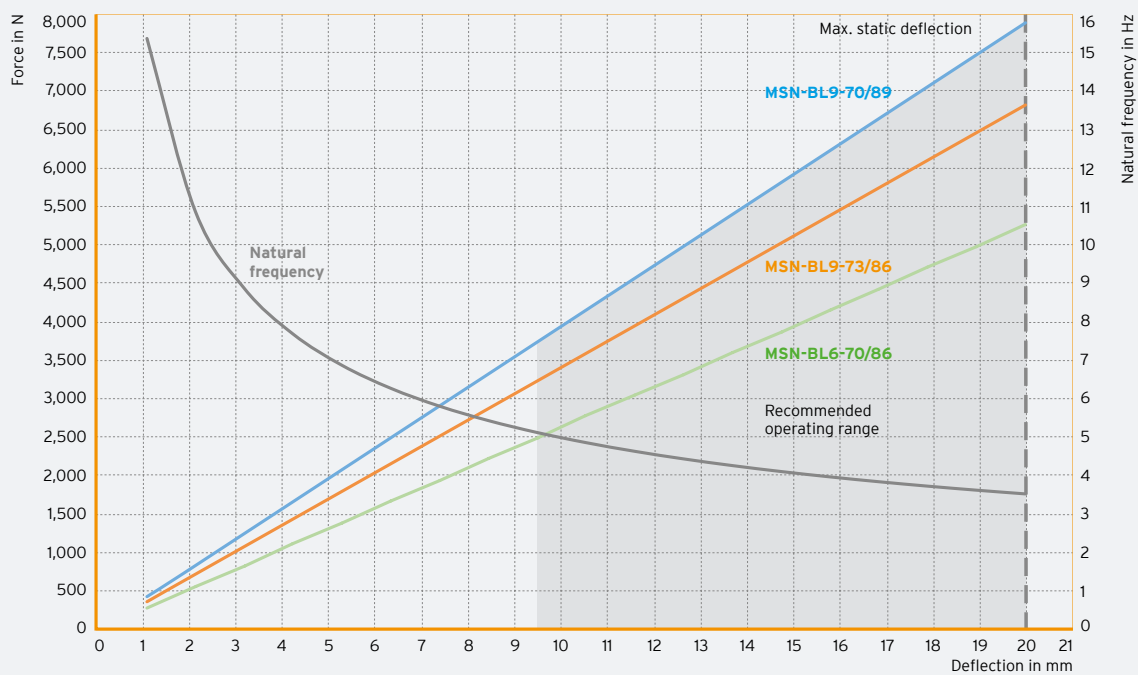


Bearing of duct silencer

### Isotop® MSN-BL 4-6



### Isotop® MSN-BL 6-9

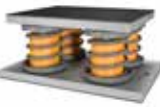




# Isotop® DMSN-BL

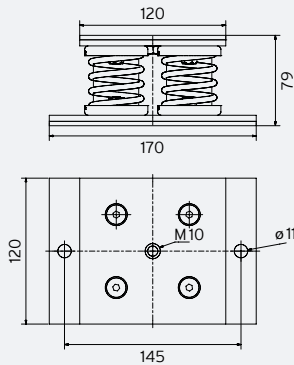
DMSN steel spring block element with high-performance damper for low installation heights and high loads

- Natural frequency from 5.3 Hz
- Low overall height of 79 mm
- High load capacity of up to 1,590 kg per element
- Sylodamp® inside - ideal for machines with several start-stop cycles
- Top plate and base plate fitted with 6 mm Sylomer® anti-slip plate
- CDC coating of springs and powder coating of pressure plates for outstanding corrosion protection
- Secure connection between the plate and the spring thanks to special adhesive
- Top plate with M10 thread
- Simple load control thanks to open design

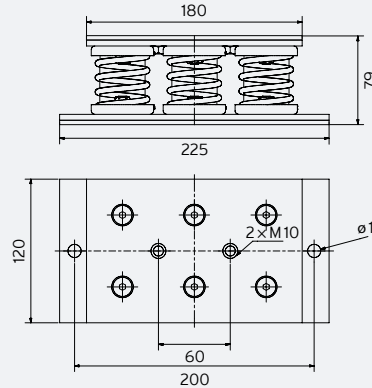
|                                                                                    |                           | Maximum load |        | Natural frequency at maximum load | Packaging unit | Order number |
|------------------------------------------------------------------------------------|---------------------------|--------------|--------|-----------------------------------|----------------|--------------|
|                                                                                    |                           | in kg        | in N   |                                   |                |              |
|  | Isotop® DMSN-BL4-62/72    | 215          | 2,109  | 6.6 Hz                            | 4 pcs.         | <b>42426</b> |
|                                                                                    | Isotop® DMSN-BL4-70/84    | 395          | 3,875  | 5.3 Hz                            | 4 pcs.         | <b>42427</b> |
|                                                                                    | Isotop® DMSN-BL6-72/84    | 520          | 5,101  | 5.5 Hz                            | 10 pcs.        | <b>42428</b> |
|                                                                                    | Isotop® DMSN-BL9-74/85    | 750          | 7,358  | 5.6 Hz                            | 10 pcs.        | <b>42429</b> |
|                                                                                    | Isotop® DMSN-BL9-70/89    | 895          | 8,780  | 5.3 Hz                            | 10 pcs.        | <b>43120</b> |
|                                                                                    | Isotop® DMSN-BL16-712/804 | 1,150        | 11,282 | 5.9 Hz                            | 10 pcs.        | <b>43121</b> |
|                                                                                    | Isotop® DMSN-BL16-700/816 | 1,590        | 15,598 | 5.3 Hz                            | 10 pcs.        | <b>43122</b> |

Not held in stock. Delivery time on request (approx. 15 working days from the factory). Customised block elements (spring combinations) available on request.

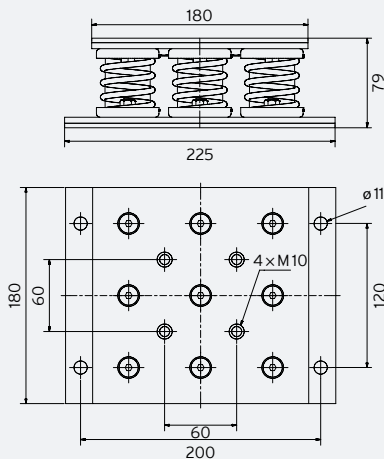
**Isotop® DMSN-BL 4 (unladen)**



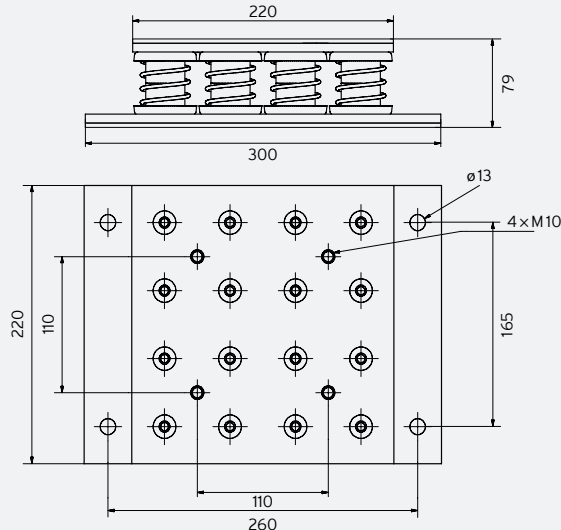
**Isotop® DMSN-BL 6 (unladen)**



**Isotop® DMSN-BL 9 (unladen)**



**Isotop® DMSN-BL 16 (unladen)**



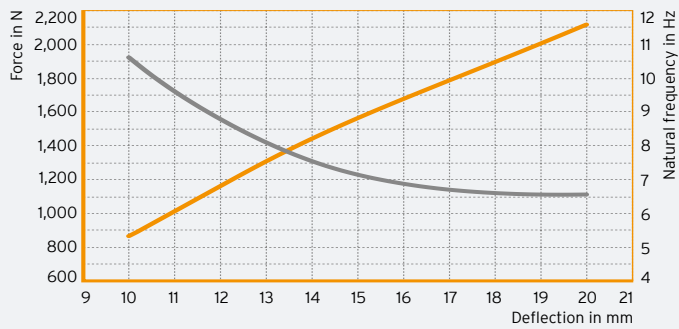


Base of a textile machine

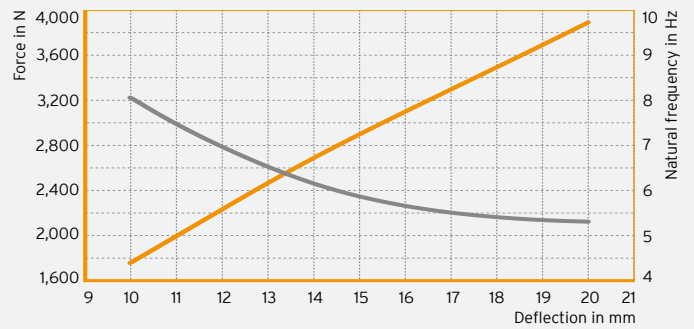


Small combined heat and power plant

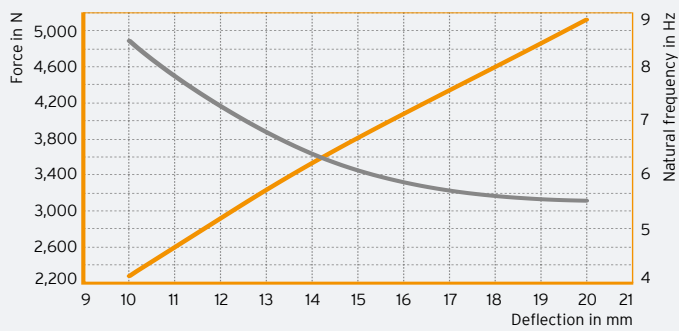
**Isotop® DMSN-BL4-62/72**



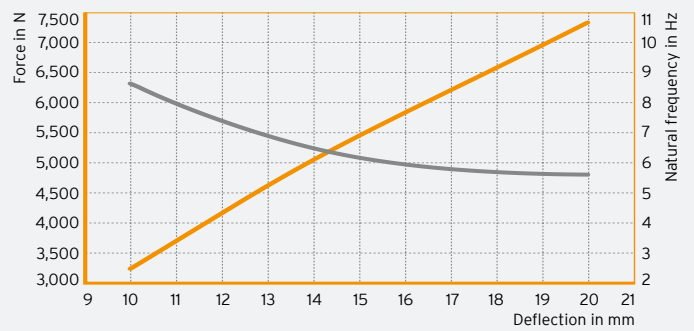
**Isotop® DMSN-BL4-70/84**



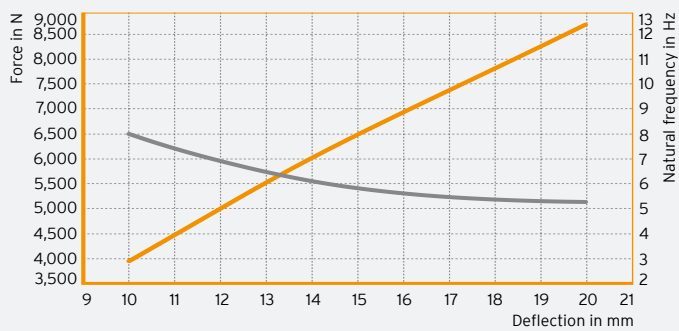
**Isotop® DMSN-BL6-72/84**



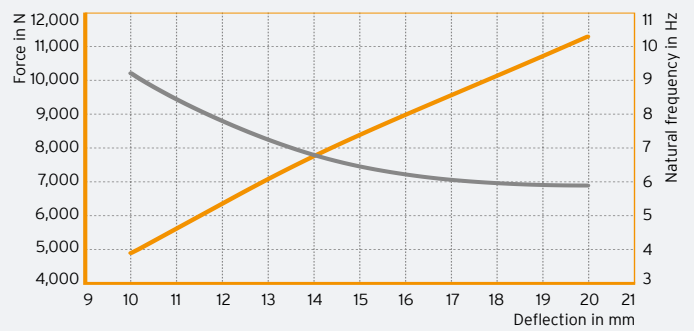
**Isotop® DMSN-BL9-74/85**



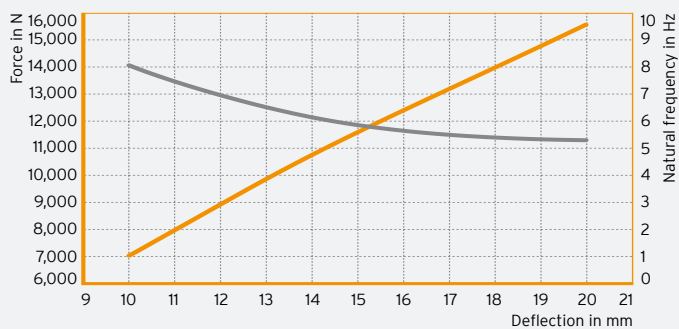
**Isotop® DMSN-BL9-70/89**



**Isotop® DMSN-BL16-712/804**



**Isotop® DMSN-BL16-700/816**



— Force in N  
— Natural frequency in Hz



# Isotop® SD-BL

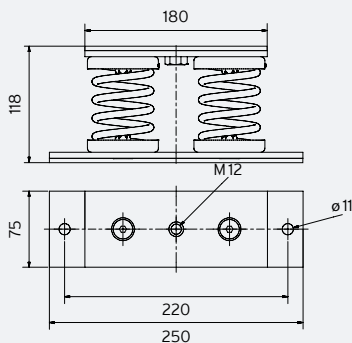
## SD steel spring block element

- Natural frequency from 3.4 Hz
- High load capacity of up to 4,730 kg per element
- Top plate and base plate fitted with 6 mm Sylomer® anti-slip plate
- CDC coating of springs and powder coating of pressure plates for outstanding corrosion protection
- Secure connection between the plate and the spring thanks to special adhesive
- Top plate with M12 thread
- Simple load control thanks to open design

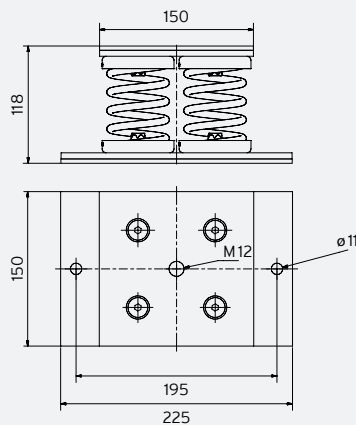
| SD-BL                                                                             |                      | Maximum load |        | Natural frequency at maximum load | Packaging unit | Order number |
|-----------------------------------------------------------------------------------|----------------------|--------------|--------|-----------------------------------|----------------|--------------|
|                                                                                   |                      | in kg        | in N   |                                   |                |              |
|  | Isotop® SD-BL2-71/81 | 690          | 6,769  | 3.4 Hz                            | 4 pcs.         | <b>42417</b> |
|                                                                                   | Isotop® SD-BL2-82/90 | 840          | 8,240  | 3.4 Hz                            | 4 pcs.         | <b>42418</b> |
|                                                                                   | Isotop® SD-BL2-80/92 | 1,050        | 10,301 | 3.4 Hz                            | 4 pcs.         | <b>42419</b> |
|                                                                                   | Isotop® SD-BL4-84/90 | 1,680        | 16,481 | 3.4 Hz                            | 4 pcs.         | <b>42420</b> |
|                                                                                   | Isotop® SD-BL4-82/92 | 1,890        | 18,541 | 3.4 Hz                            | 4 pcs.         | <b>42421</b> |
|                                                                                   | Isotop® SD-BL4-80/94 | 2,100        | 20,601 | 3.4 Hz                            | 4 pcs.         | <b>42422</b> |
|                                                                                   | Isotop® SD-BL6-84/92 | 2,730        | 26,781 | 3.4 Hz                            | 10 pcs.        | <b>42423</b> |
|                                                                                   | Isotop® SD-BL9-80/99 | 4,730        | 46,401 | 3.4 Hz                            | 10 pcs.        | <b>42424</b> |

Not held in stock. Delivery time on request (approx. 15 working days from the factory).  
Customised block elements (spring combinations) available on request.

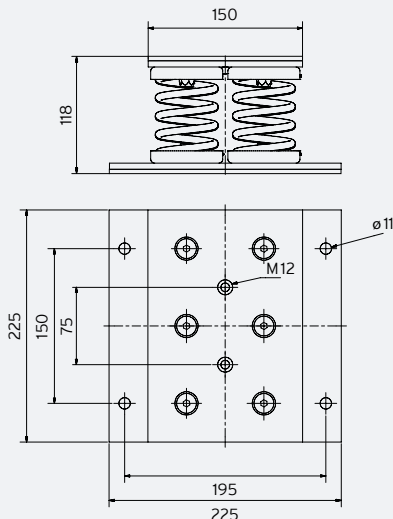
### Isotop® SD-BL 2 (unladen)



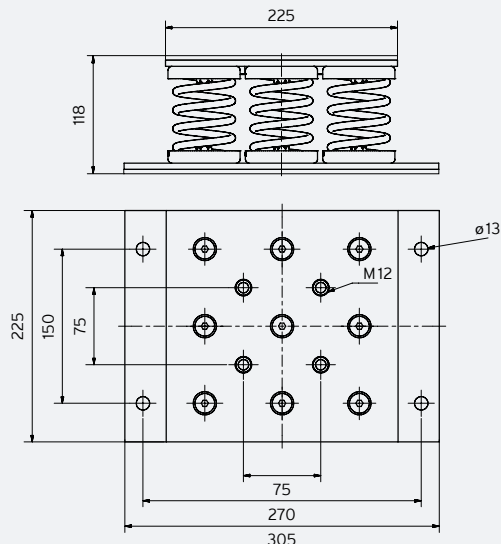
### Isotop® SD-BL 4 (unladen)



### Isotop® SD-BL 6 (unladen)



### Isotop® SD-BL 9 (unladen)



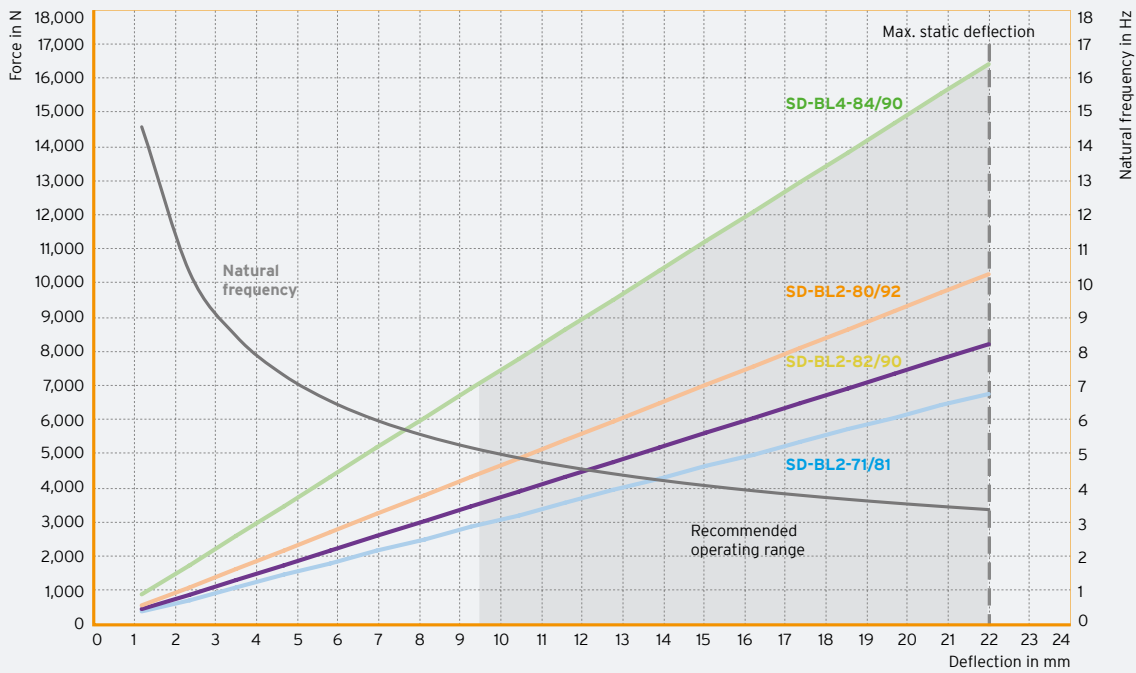


Bearing of pumps with additional mass

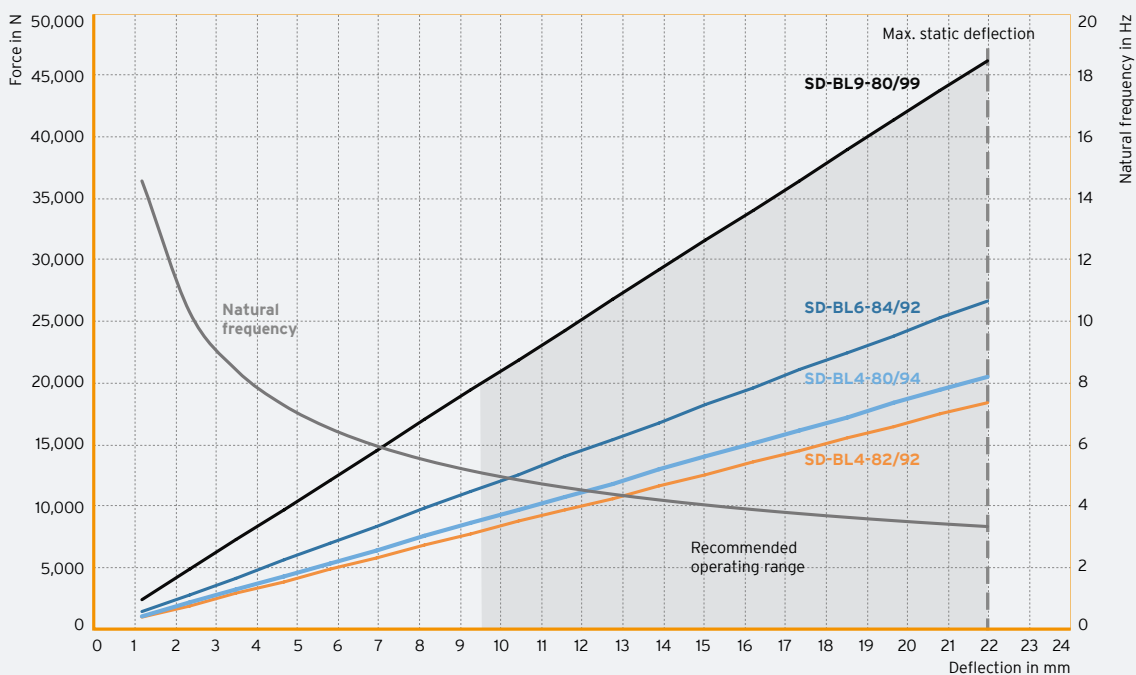


Roof-mounted AC system

### Isotop® SD-BL



### Isotop® SD-BL







# Isotop® DSD-BL

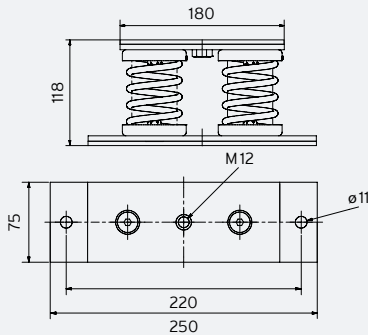
## DSD steel spring block element with high-performance damper

- Natural frequency from 4.3 Hz
- High load capacity of up to 5,850 kg per element
- Sylodamp® inside - ideal for machines with several start-stop cycles
- CDC coating of springs and powder coating of pressure plates for outstanding corrosion protection
- Top plate and base plate fitted with 6 mm Sylomer® anti-slip plate
- Secure connection between the plate and the spring thanks to special adhesive
- Top plate with M12 thread
- Simple load control thanks to open design

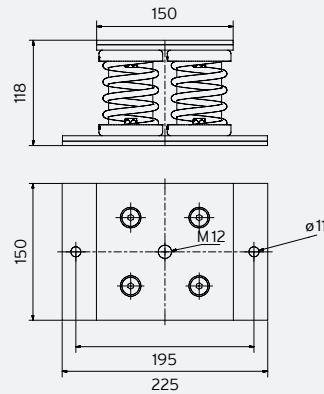
|                                                                                                     |                       | Maximum load |        | Natural frequency at maximum load | Packaging unit | Order number |
|-----------------------------------------------------------------------------------------------------|-----------------------|--------------|--------|-----------------------------------|----------------|--------------|
|                                                                                                     |                       | in kg        | in N   |                                   |                |              |
| <b>DSD-BL</b><br> | Isotop® DSD-BL2-62/70 | 400          | 3,924  | 4.3 Hz                            | 4 pcs.         | <b>42430</b> |
|                                                                                                     | Isotop® DSD-BL2-72/80 | 730          | 7,161  | 5.2 Hz                            | 4 pcs.         | <b>42431</b> |
|                                                                                                     | Isotop® DSD-BL2-82/90 | 940          | 9,221  | 4.7 Hz                            | 4 pcs.         | <b>42432</b> |
|                                                                                                     | Isotop® DSD-BL2-81/91 | 1,120        | 10,987 | 4.7 Hz                            | 4 pcs.         | <b>42433</b> |
|                                                                                                     | Isotop® DSD-BL2-80/92 | 1,300        | 12,753 | 4.6 Hz                            | 4 pcs.         | <b>42434</b> |
|                                                                                                     | Isotop® DSD-BL4-72/82 | 1,560        | 15,304 | 4.8 Hz                            | 4 pcs.         | <b>42435</b> |
|                                                                                                     | Isotop® DSD-BL4-84/90 | 1,880        | 18,443 | 4.7 Hz                            | 4 pcs.         | <b>42436</b> |
|                                                                                                     | Isotop® DSD-BL4-82/92 | 2,240        | 21,974 | 4.7 Hz                            | 4 pcs.         | <b>42437</b> |
|                                                                                                     | Isotop® DSD-BL4-80/94 | 2,600        | 25,506 | 4.6 Hz                            | 4 pcs.         | <b>42438</b> |
|                                                                                                     | Isotop® DSD-BL6-86/90 | 2,820        | 27,664 | 4.7 Hz                            | 10 pcs.        | <b>42439</b> |
|                                                                                                     | Isotop® DSD-BL6-80/96 | 3,900        | 38,259 | 4.6 Hz                            | 10 pcs.        | <b>42440</b> |
|                                                                                                     | Isotop® DSD-BL9-80/99 | 5,850        | 57,389 | 4.6 Hz                            | 10 pcs.        | <b>42441</b> |

Not held in stock. Delivery time on request (approx. 15 working days from the factory).  
Customised block elements (spring combinations) available on request.

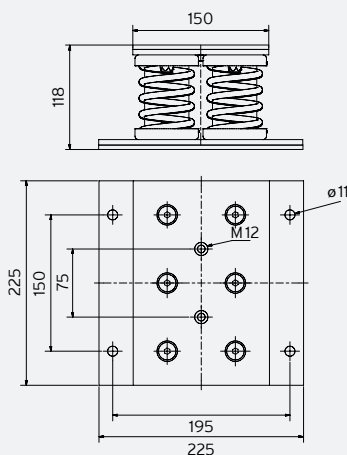
**Isotop® DSD-BL 2 (unladen)**



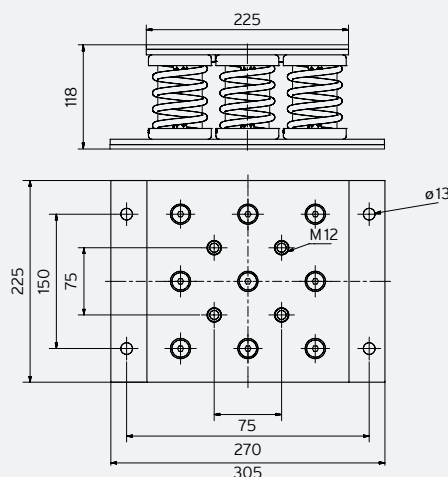
**Isotop® DSD-BL 4 (unladen)**



**Isotop® DSD-BL 6 (unladen)**



**Isotop® DSD-BL 9 (unladen)**



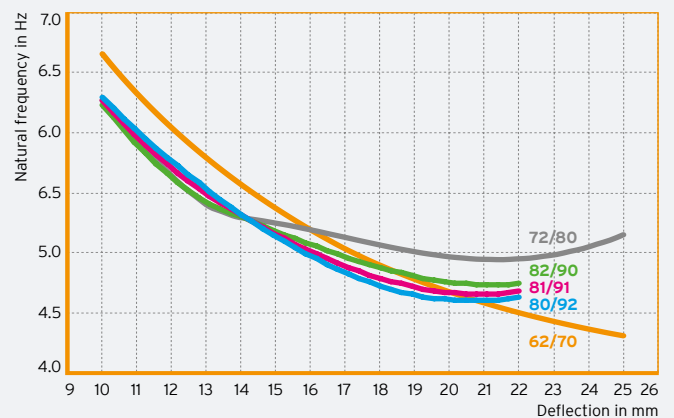
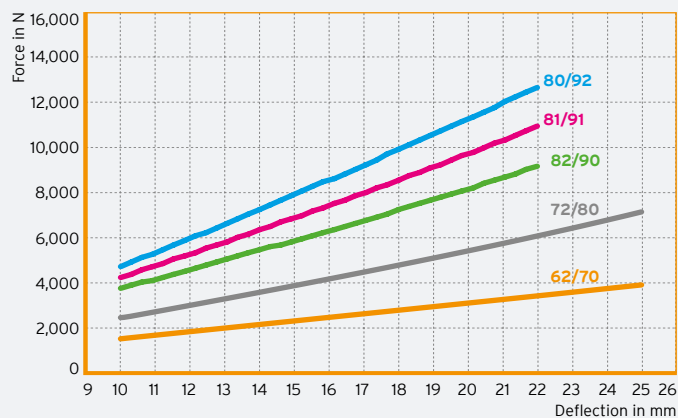


On-roof installation of an AC system with relatively high wind loads

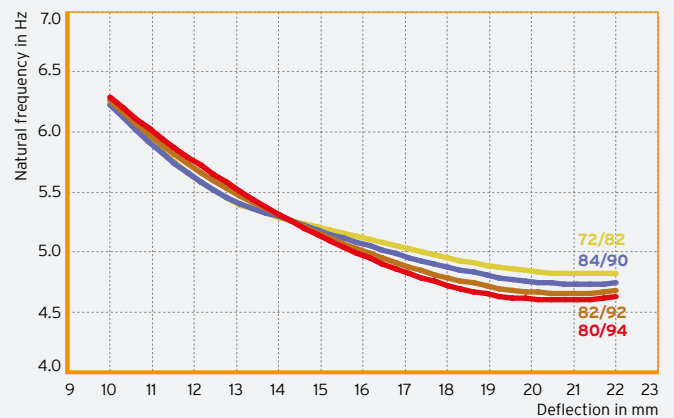
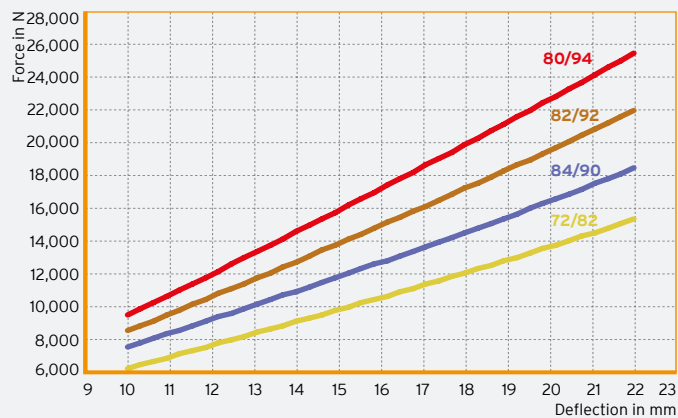


Large combined heat and power plant with several start-stop cycles

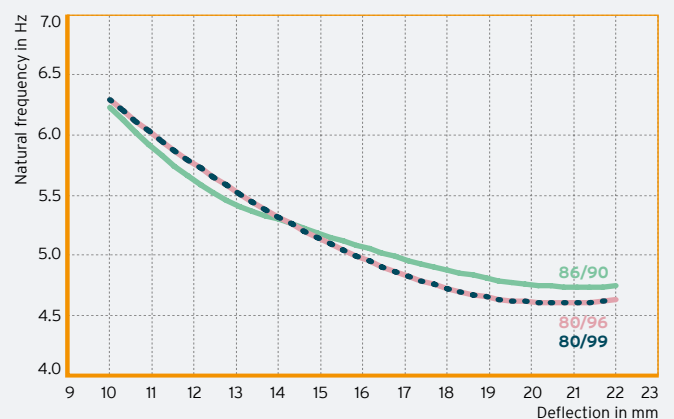
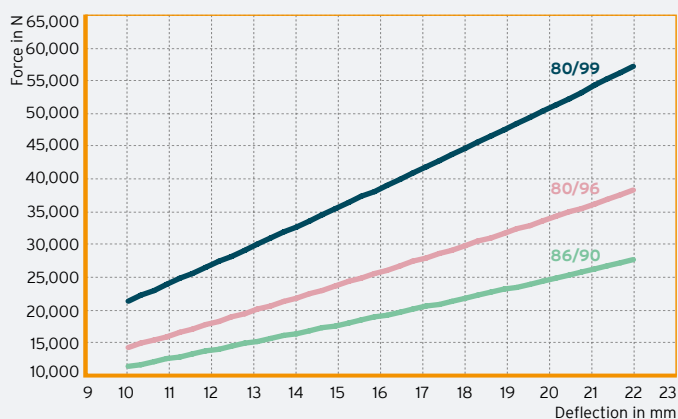
### Isotop® DSD-BL2



### Isotop® DSD-BL4



### Isotop® DSD-BL6 and DSD-BL9





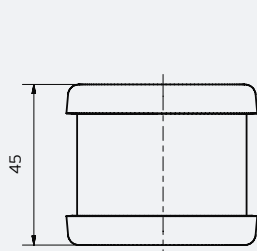
# Isotop® MSN-DAMP

## Vibration damper with metal caps and threaded fastening

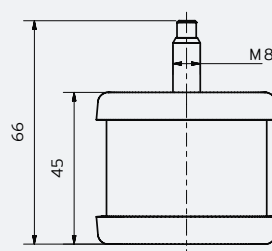
- Natural frequency from 7.9 Hz
- Low overall height of 45 mm (T/T version)
- Sylomer® inside
- Cathodic dip-coated (CDC) metal caps for increased corrosion protection
- Secure connection between the plate and the polyurethane damper thanks to special adhesive
- M8 internal thread and/or M8 stud bolts for easy screw-fixing
- Available in three different attachment options

|                                                                                                            |                          | Maximum load |      | Natural frequency at maximum load | Packaging unit | Order number |
|------------------------------------------------------------------------------------------------------------|--------------------------|--------------|------|-----------------------------------|----------------|--------------|
|                                                                                                            |                          | in kg        | in N |                                   |                |              |
| <b>MSN-DAMP T/T</b><br>   | Isotop® MSN-DAMP-110 T/T | 10           | 103  | 8.8 Hz                            | 50 pcs.        | <b>39501</b> |
|                                                                                                            | Isotop® MSN-DAMP-170 T/T | 18           | 185  | 7.9 Hz                            | 50 pcs.        | <b>39502</b> |
|                                                                                                            | Isotop® MSN-DAMP-350 T/T | 35           | 343  | 8.1 Hz                            | 50 pcs.        | <b>39503</b> |
|                                                                                                            |                          |              |      |                                   |                |              |
| <b>MSN-DAMP B/T</b><br> | Isotop® MSN-DAMP-110 B/T | 10           | 103  | 8.8 Hz                            | 50 pcs.        | <b>41715</b> |
|                                                                                                            | Isotop® MSN-DAMP-170 B/T | 18           | 185  | 7.9 Hz                            | 50 pcs.        | <b>41716</b> |
|                                                                                                            | Isotop® MSN-DAMP-350 B/T | 35           | 343  | 8.1 Hz                            | 50 pcs.        | <b>41717</b> |
|                                                                                                            |                          |              |      |                                   |                |              |
| <b>MSN-DAMP B/B</b><br> | Isotop® MSN-DAMP-110 B/B | 10           | 103  | 8.8 Hz                            | 50 pcs.        | <b>41720</b> |
|                                                                                                            | Isotop® MSN-DAMP-170 B/B | 18           | 185  | 7.9 Hz                            | 50 pcs.        | <b>41721</b> |
|                                                                                                            | Isotop® MSN-DAMP-350 B/B | 35           | 343  | 8.1 Hz                            | 50 pcs.        | <b>41722</b> |
|                                                                                                            |                          |              |      |                                   |                |              |

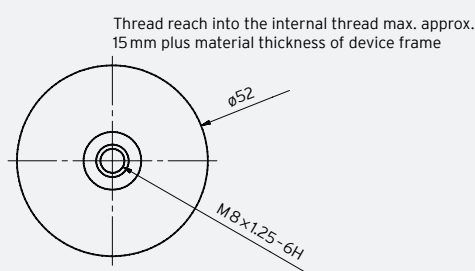
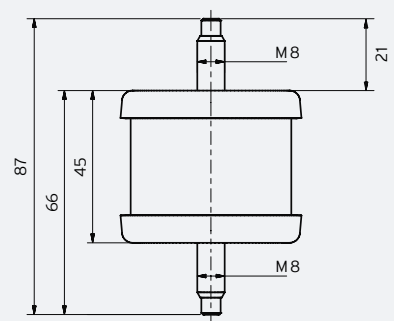
Isotop® MSN-DAMP T/T (unladen)



Isotop® MSN-DAMP B/T (unladen)



Isotop® MSN-DAMP B/B (unladen)



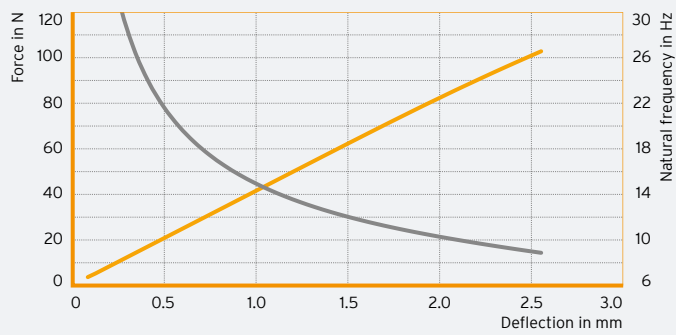


Bearing of a compressor assembly on an internal frame

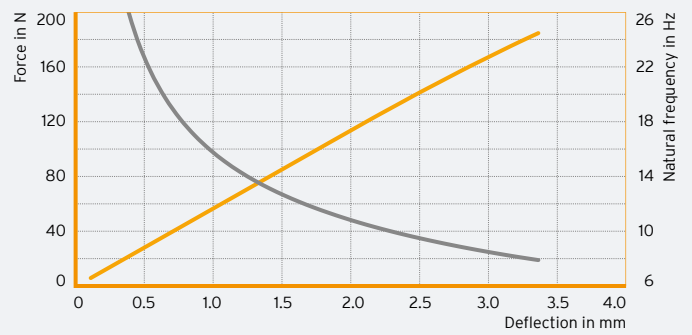


Compressor bearing concept with Sylomer® CGR and Isotop® MSN-DAMP

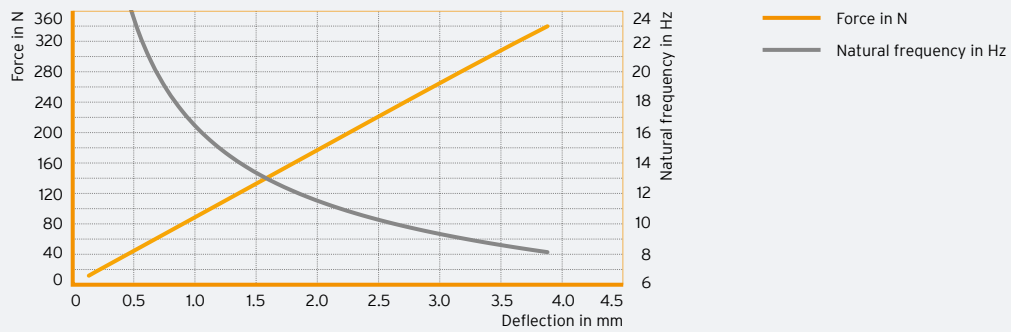
#### Isotop® MSN-DAMP 110



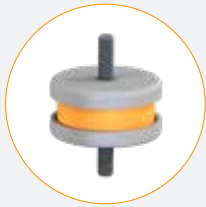
#### Isotop® MSN-DAMP 170



#### Isotop® MSN-DAMP 350



— Force in N  
— Natural frequency in Hz



# Isotop® Compact

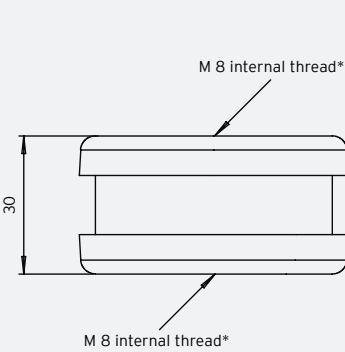
Vibration damper for low installation heights,  
with diverse attachment options

- Natural frequency from 10 Hz
- Very low overall height of 30 mm (T/T version)
- Load capacity of up to 95 kg per element
- Sylomer® or Sylodyn® inside
- High level of corrosion protection
- Secure connection between the plate and the polyurethane damper thanks to special adhesive
- M8 internal thread and/or M8 stud bolts for easy screw-fixing
- Available in four different attachment options
- Can also be used as an anti-slip machine base (B/- version)

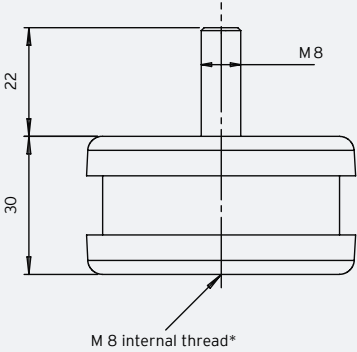
|                                                                                                           |                         | Maximum load |      | Natural frequency<br>at maximum load | Packaging<br>unit | Order<br>number |
|-----------------------------------------------------------------------------------------------------------|-------------------------|--------------|------|--------------------------------------|-------------------|-----------------|
|                                                                                                           |                         | in kg        | in N |                                      |                   |                 |
| <b>Compact T/T</b><br>  | Isotop® Compact-4 T/T   | 4            | 41   | 12.1 Hz                              | 50 pcs.           | <b>39504</b>    |
|                                                                                                           | Isotop® Compact-9 T/T   | 9            | 93   | 10.3 Hz                              | 50 pcs.           | <b>39505</b>    |
|                                                                                                           | Isotop® Compact-15 T/T  | 15           | 147  | 11.5 Hz                              | 50 pcs.           | <b>39506</b>    |
|                                                                                                           | Isotop® Compact-20 T/T  | 27           | 264  | 10.7 Hz                              | 50 pcs.           | <b>39507</b>    |
|                                                                                                           | Isotop® Compact-40 T/T  | 40           | 392  | 10.1 Hz                              | 50 pcs.           | <b>38884</b>    |
|                                                                                                           | Isotop® Compact-50 T/T  | 50           | 491  | 10.9 Hz                              | 50 pcs.           | <b>39508</b>    |
|                                                                                                           | Isotop® Compact-70 T/T  | 78           | 765  | 10.3 Hz                              | 50 pcs.           | <b>39509</b>    |
|                                                                                                           | Isotop® Compact-100 T/T | 95           | 931  | 10.5 Hz                              | 50 pcs.           | <b>39511</b>    |
| <b>Compact B/B</b><br> | Isotop® Compact-4 B/B   | 4            | 41   | 12.1 Hz                              | 50 pcs.           | <b>39521</b>    |
|                                                                                                           | Isotop® Compact-9 B/B   | 9            | 93   | 10.3 Hz                              | 50 pcs.           | <b>39522</b>    |
|                                                                                                           | Isotop® Compact-15 B/B  | 15           | 147  | 11.5 Hz                              | 50 pcs.           | <b>39523</b>    |
|                                                                                                           | Isotop® Compact-20 B/B  | 27           | 264  | 10.7 Hz                              | 50 pcs.           | <b>39524</b>    |
|                                                                                                           | Isotop® Compact-40 B/B  | 40           | 392  | 10.1 Hz                              | 50 pcs.           | <b>39525</b>    |
|                                                                                                           | Isotop® Compact-50 B/B  | 50           | 491  | 10.9 Hz                              | 50 pcs.           | <b>39526</b>    |
|                                                                                                           | Isotop® Compact-70 B/B  | 78           | 765  | 10.3 Hz                              | 50 pcs.           | <b>39527</b>    |
|                                                                                                           | Isotop® Compact-100 B/B | 95           | 931  | 10.5 Hz                              | 50 pcs.           | <b>39529</b>    |
| <b>Compact B/T</b><br> | Isotop® Compact-4 B/T   | 4            | 41   | 12.1 Hz                              | 50 pcs.           | <b>39512</b>    |
|                                                                                                           | Isotop® Compact-9 B/T   | 9            | 93   | 10.3 Hz                              | 50 pcs.           | <b>39513</b>    |
|                                                                                                           | Isotop® Compact-15 B/T  | 15           | 147  | 11.5 Hz                              | 50 pcs.           | <b>39514</b>    |
|                                                                                                           | Isotop® Compact-20 B/T  | 27           | 264  | 10.7 Hz                              | 50 pcs.           | <b>39515</b>    |
|                                                                                                           | Isotop® Compact-40 B/T  | 40           | 392  | 10.1 Hz                              | 50 pcs.           | <b>39516</b>    |
|                                                                                                           | Isotop® Compact-50 B/T  | 50           | 491  | 10.9 Hz                              | 50 pcs.           | <b>39517</b>    |
|                                                                                                           | Isotop® Compact-70 B/T  | 78           | 765  | 10.3 Hz                              | 50 pcs.           | <b>39518</b>    |
|                                                                                                           | Isotop® Compact-100 B/T | 95           | 931  | 10.5 Hz                              | 50 pcs.           | <b>39520</b>    |
| <b>Compact B/-</b><br> | Isotop® Compact-4 B/-   | 4            | 41   | 12.1 Hz                              | 50 pcs.           | <b>41135</b>    |
|                                                                                                           | Isotop® Compact-9 B/-   | 9            | 93   | 10.3 Hz                              | 50 pcs.           | <b>41136</b>    |
|                                                                                                           | Isotop® Compact-15 B/-  | 15           | 147  | 11.5 Hz                              | 50 pcs.           | <b>41137</b>    |
|                                                                                                           | Isotop® Compact-20 B/-  | 27           | 264  | 10.7 Hz                              | 50 pcs.           | <b>41138</b>    |
|                                                                                                           | Isotop® Compact-40 B/-  | 40           | 392  | 10.1 Hz                              | 50 pcs.           | <b>41139</b>    |
|                                                                                                           | Isotop® Compact-50 B/-  | 50           | 491  | 10.9 Hz                              | 50 pcs.           | <b>41140</b>    |
|                                                                                                           | Isotop® Compact-70 B/-  | 78           | 765  | 10.3 Hz                              | 50 pcs.           | <b>41141</b>    |
|                                                                                                           | Isotop® Compact-100 B/- | 95           | 931  | 10.5 Hz                              | 50 pcs.           | <b>41143</b>    |

Compact -70 and -100: Not held in stock. Delivery time on request

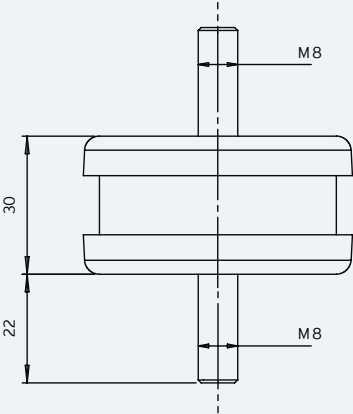
Isotop® Compact T/T (unladen)



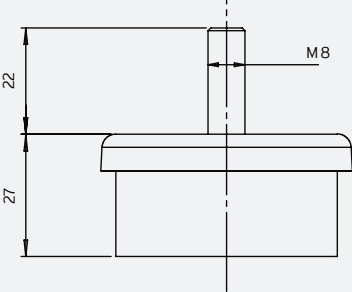
Isotop® Compact B/T (unladen)



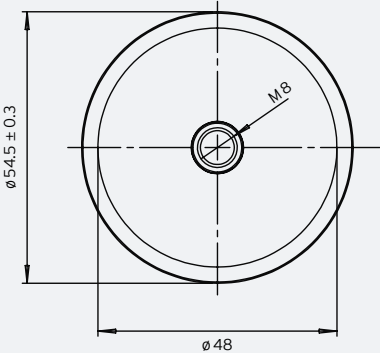
Isotop® Compact B/B (unladen)



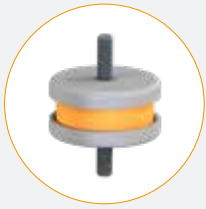
Isotop® Compact B/- (unladen)



\* Thread reach for internal thread maximum 7 mm

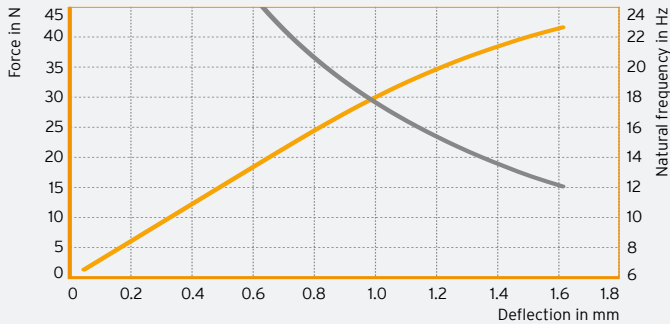




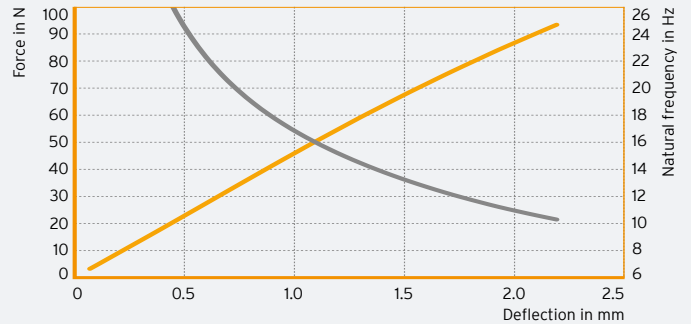


# Isotop® Compact

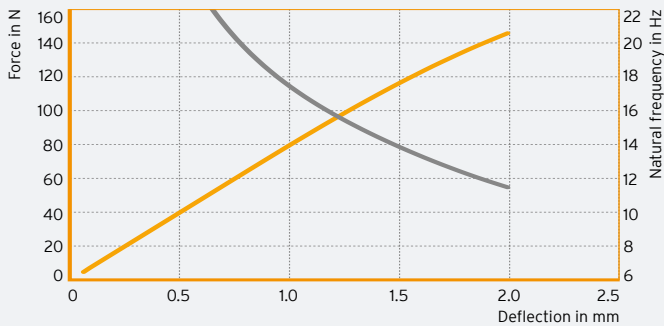
**Isotop® Compact 4**



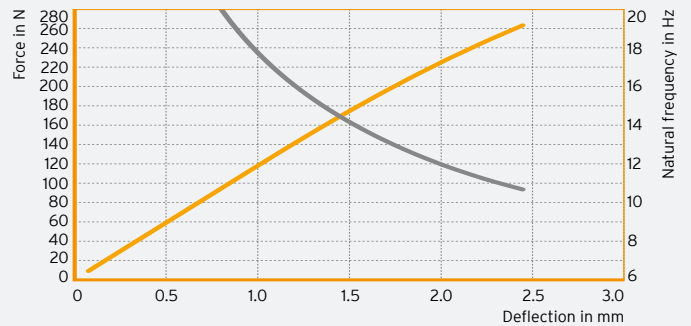
**Isotop® Compact 9**



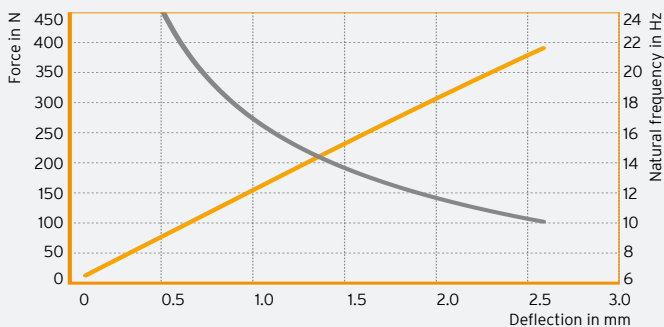
**Isotop® Compact 15**



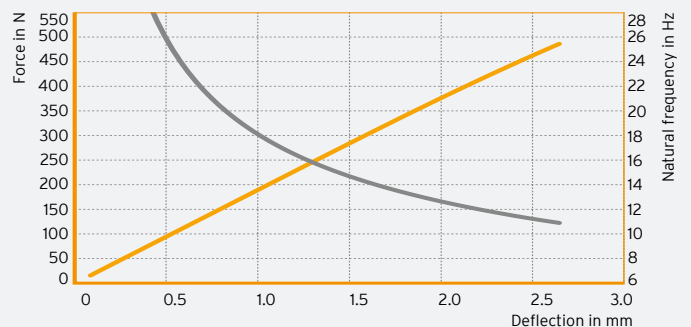
**Isotop® Compact 20**



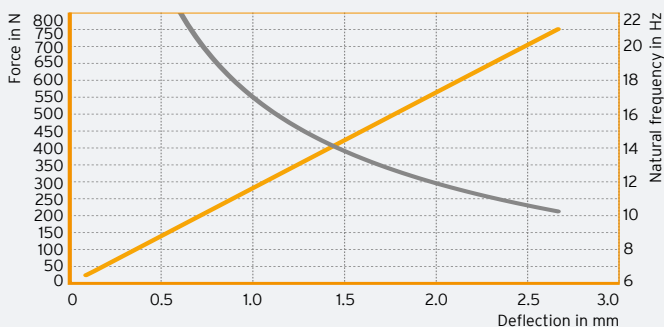
**Isotop® Compact 40**



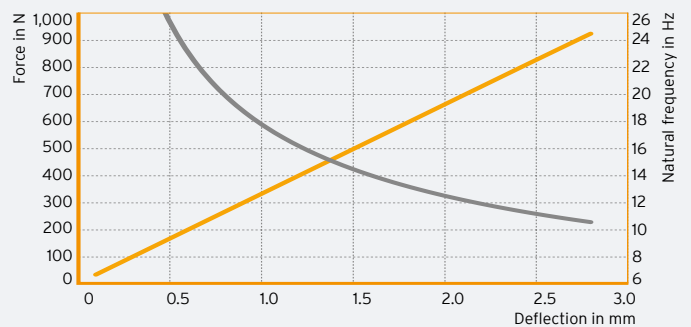
**Isotop® Compact 50**



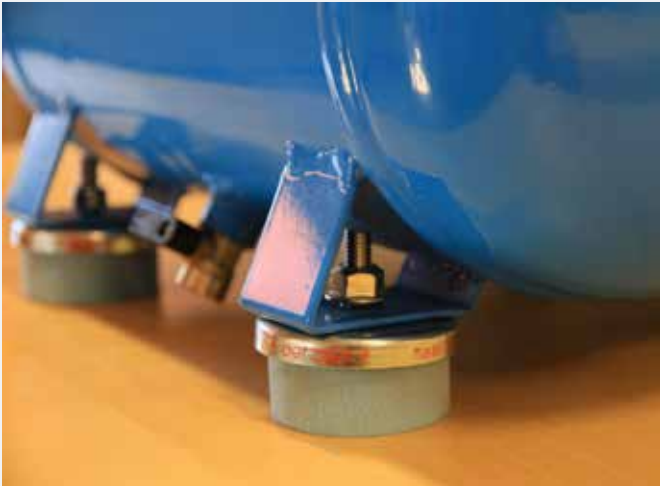
**Isotop® Compact 70**



**Isotop® Compact 100**



— Force in N  
— Natural frequency in Hz



Small compressed air compressor on Compact B/-



Isotop® Compact with various attachment options



External air-handling unit on wall bracket



Compressor bearing concept with Sylomer® CGR and Isotop® Compact



# Isotop® MSN/Z, MSN/Z-LC and SD/Z

## Tension elements as ceiling hanger for building services equipment

- Natural frequency from 3.2 Hz
- Load capacities of up to 310 kg per spring (SD/Z)
- Secure connection between the plate and the spring thanks to special adhesive
- High level of corrosion protection
- M8 (MSN/Z and MSN/Z-LC) or M10 (SD/Z) internal thread
- Simple load control thanks to open design

|                                                                                                        |                    | Maximum load |       | Natural frequency<br>at maximum load | Packaging<br>unit | Order<br>number |
|--------------------------------------------------------------------------------------------------------|--------------------|--------------|-------|--------------------------------------|-------------------|-----------------|
|                                                                                                        |                    | in kg        | in N  |                                      |                   |                 |
| <b>MSN/Z</b><br>      | Isotop® MSN/Z 1    | 3            | 29    | 3.5 Hz                               | 50 pcs.           | <b>39538</b>    |
|                                                                                                        | Isotop® MSN/Z 2    | 5            | 49    | 3.5 Hz                               | 50 pcs.           | <b>38850</b>    |
|                                                                                                        | Isotop® MSN/Z 3    | 9            | 88    | 3.5 Hz                               | 50 pcs.           | <b>38851</b>    |
|                                                                                                        | Isotop® MSN/Z 4    | 14           | 137   | 3.5 Hz                               | 50 pcs.           | <b>38643</b>    |
|                                                                                                        | Isotop® MSN/Z 5    | 23           | 226   | 3.5 Hz                               | 50 pcs.           | <b>38644</b>    |
|                                                                                                        | Isotop® MSN/Z 6    | 35           | 343   | 3.5 Hz                               | 50 pcs.           | <b>38852</b>    |
|                                                                                                        | Isotop® MSN/Z 7    | 53           | 519   | 3.5 Hz                               | 50 pcs.           | <b>38853</b>    |
|                                                                                                        | Isotop® MSN/Z 8    | 90           | 883   | 3.5 Hz                               | 50 pcs.           | <b>39539</b>    |
| <b>MSN/Z-LC</b><br> | Isotop® MSN/Z-LC 1 | 3            | 29    | 3.5 Hz                               | 50 pcs.           | <b>39540</b>    |
|                                                                                                        | Isotop® MSN/Z-LC 2 | 5            | 49    | 3.5 Hz                               | 50 pcs.           | <b>39541</b>    |
|                                                                                                        | Isotop® MSN/Z-LC 3 | 9            | 88    | 3.5 Hz                               | 50 pcs.           | <b>39542</b>    |
|                                                                                                        | Isotop® MSN/Z-LC 4 | 14           | 137   | 3.5 Hz                               | 50 pcs.           | <b>39543</b>    |
|                                                                                                        | Isotop® MSN/Z-LC 5 | 23           | 226   | 3.5 Hz                               | 50 pcs.           | <b>39544</b>    |
|                                                                                                        | Isotop® MSN/Z-LC 6 | 35           | 343   | 3.5 Hz                               | 50 pcs.           | <b>38548</b>    |
|                                                                                                        | Isotop® MSN/Z-LC 7 | 53           | 519   | 3.5 Hz                               | 50 pcs.           | <b>39545</b>    |
|                                                                                                        | Isotop® MSN/Z-LC 8 | 90           | 883   | 3.5 Hz                               | 50 pcs.           | <b>39546</b>    |
| <b>SD/Z</b><br>     | Isotop® SD/Z 1     | 20           | 196   | 3.2 Hz                               | 10 pcs.           | <b>39547</b>    |
|                                                                                                        | Isotop® SD/Z 2     | 33           | 324   | 3.2 Hz                               | 10 pcs.           | <b>39548</b>    |
|                                                                                                        | Isotop® SD/Z 3     | 52           | 510   | 3.2 Hz                               | 10 pcs.           | <b>39549</b>    |
|                                                                                                        | Isotop® SD/Z 4     | 82           | 804   | 3.2 Hz                               | 10 pcs.           | <b>39550</b>    |
|                                                                                                        | Isotop® SD/Z 5     | 123          | 1,206 | 3.2 Hz                               | 10 pcs.           | <b>39551</b>    |
|                                                                                                        | Isotop® SD/Z 6     | 195          | 1,913 | 3.2 Hz                               | 10 pcs.           | <b>39552</b>    |
|                                                                                                        | Isotop® SD/Z 7     | 310          | 3,041 | 3.2 Hz                               | 10 pcs.           | <b>39553</b>    |

MSN/Z-LC: Not held in stock. Delivery time on request (approx. 15 working days from the factory)

The Isotop® SD/Z and MSN/Z ceiling hangers are only suitable for use as pipe suspension in technical building services. This means for water, waste water, water heating systems and ventilation duct construction.

For pipes in industrial production processes that are subject to the requirements of EN 13480 or similar national standards, these ceiling hangers are not suitable, as the maximum deflection is limited (see graph).

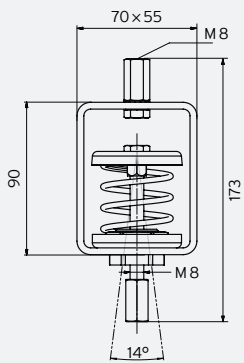


Decoupled pipes with SD/Z

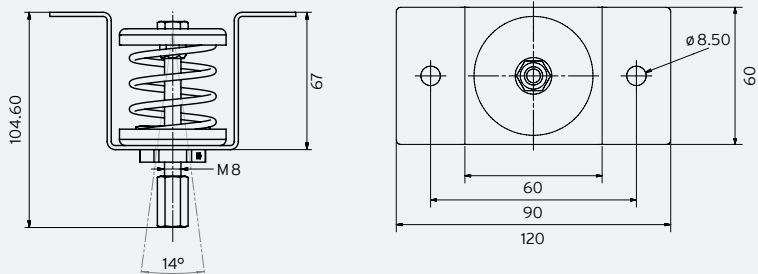


Ceiling hanger MSN/Z-LC

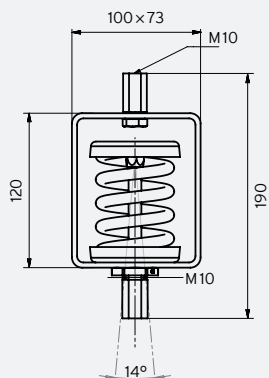
### MSN/Z (unladen)



### MSN/Z-LC (unladen)



### SD/Z (unladen)





# Isotop® DZE

## Pressure-tension element with high-performance damper

- Natural frequency from 7 Hz
- Resistant to compression and tension
- Reduces strong amplitudes
- Designed for horizontal forces up to 5 kN per element (DZE-1)
- Can be used from an installation height of 49 mm (DZE Mini)
- Sylodyn® and Sylodamp® inside
- Load capacity of more than 4 t per element (DZE-BL)
- Stainless steel housing and continuous stainless steel piping for highest levels of corrosion protection
- Rapid installation thanks to pre-assembled elements

|                                                                                                      |                            |              | Maximum load<br>in kg | Maximum load<br>in N | Natural frequency<br>at maximum load | Packaging<br>unit | Order<br>number |
|------------------------------------------------------------------------------------------------------|----------------------------|--------------|-----------------------|----------------------|--------------------------------------|-------------------|-----------------|
| <b>DZE Mini</b><br> | Isotop® DZE Mini NB SP1    |              | 9                     | 88                   | 10.3 Hz                              | 10 pcs.           | <b>43799</b>    |
|                                                                                                      | Isotop® DZE Mini NC SP1    |              | 17                    | 167                  | 10.7 Hz                              | 10 pcs.           | <b>43800</b>    |
|                                                                                                      | Isotop® DZE Mini ND SP3    |              | 38                    | 373                  | 10.1 Hz                              | 10 pcs.           | <b>43801</b>    |
|                                                                                                      | Isotop® DZE Mini NE SP3    |              | 75                    | 735                  | 10.3 Hz                              | 10 pcs.           | <b>43802</b>    |
|                                                                                                      | Isotop® DZE Mini NF SP3    |              | 110                   | 1,079                | 10.1 Hz                              | 10 pcs.           | <b>43803</b>    |
|                                                                                                      | Isotop® DZE Mini HRB 3 SP3 |              | 230                   | 2,256                | 11.6 Hz                              | 10 pcs.           | <b>43804</b>    |
| <b>DZE</b><br>    | Isotop® DZE-1-NB-SP        | Single layer | 28                    | 275                  | 10.3 Hz                              | 10 pcs.           | <b>39614</b>    |
|                                                                                                      | Isotop® DZE-1-NC-SP        | Single layer | 55                    | 540                  | 10.1 Hz                              | 10 pcs.           | <b>39615</b>    |
|                                                                                                      | Isotop® DZE-1-ND-SP        | Single layer | 122                   | 1,196                | 9.9 Hz                               | 10 pcs.           | <b>39616</b>    |
|                                                                                                      | Isotop® DZE-1-NE-SP        | Single layer | 238                   | 2,305                | 10.1 Hz                              | 10 pcs.           | <b>39617</b>    |
|                                                                                                      | Isotop® DZE-1-HLL-SP5      | Single layer | 800                   | 7,848                | 12.0 Hz                              | 10 pcs.           | <b>39618</b>    |
|                                                                                                      | Isotop® DZE-1-HLH-SP5      | Single layer | 1,030                 | 10,104               | 11.5 Hz                              | 10 pcs.           | <b>39619</b>    |
|                                                                                                      | Isotop® DZE-2-NB-SP        | Double layer | 25                    | 245                  | 7.2 Hz                               | 10 pcs.           | <b>39442</b>    |
|                                                                                                      | Isotop® DZE-2-NC-SP        | Double layer | 48                    | 471                  | 7.6 Hz                               | 10 pcs.           | <b>39620</b>    |
|                                                                                                      | Isotop® DZE-2-ND-SP        | Double layer | 107                   | 1,050                | 7.0 Hz                               | 10 pcs.           | <b>39621</b>    |
|                                                                                                      | Isotop® DZE-2-NE-SP        | Double layer | 205                   | 2,011                | 7.1 Hz                               | 10 pcs.           | <b>39622</b>    |
|                                                                                                      | Isotop® DZE-2-HLL-SP5      | Double layer | 630                   | 6,180                | 8.1 Hz                               | 10 pcs.           | <b>39623</b>    |
|                                                                                                      | Isotop® DZE-2-HLH-SP5      | Double layer | 820                   | 8,044                | 7.7 Hz                               | 10 pcs.           | <b>39624</b>    |
| <b>DZE-BL</b><br> | Isotop® DZE-1-BL2-HLH-SP5  | Single layer | 2,065                 | 20,258               | 11.5 Hz                              | 10 pcs.           | <b>42595</b>    |
|                                                                                                      | Isotop® DZE-1-BL4-HLH-SP5  | Single layer | 4,135                 | 40,564               | 11.5 Hz                              | 10 pcs.           | <b>42597</b>    |
|                                                                                                      | Isotop® DZE-2-BL2-HLH-SP5  | Double layer | 1,635                 | 16,039               | 7.7 Hz                               | 10 pcs.           | <b>42598</b>    |
|                                                                                                      | Isotop® DZE-2-BL4-HLH-SP5  | Double layer | 3,270                 | 32,079               | 7.7 Hz                               | 10 pcs.           | <b>42599</b>    |

DZE-BL: Not held in stock. Delivery time on request (approx. 15 working days from the factory)

### Maximum force in horizontal direction

| Type              | Maximum force |
|-------------------|---------------|
| Isotop® DZE-1     | 5 kN          |
| Isotop® DZE-2     | 2 kN          |
| Isotop® DZE Mini  | 2 kN          |
| Isotop® DZE-1-BL2 | 10 kN         |
| Isotop® DZE-1-BL4 | 20 kN         |
| Isotop® DZE-2-BL2 | 4 kN          |
| Isotop® DZE-2-BL4 | 8 kN          |

Isotop® DZE Railway is also available specially for rolling stock!



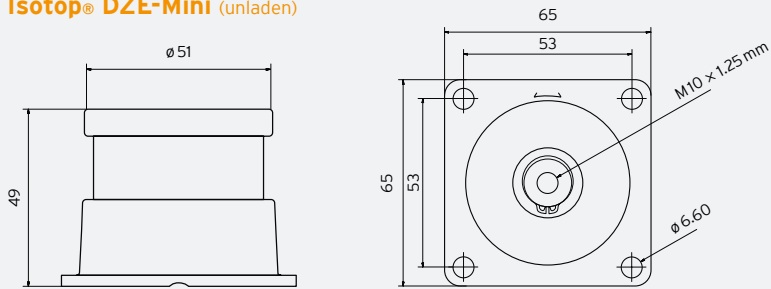


Recoiler with Isotop® DZE to counter very high wind loads



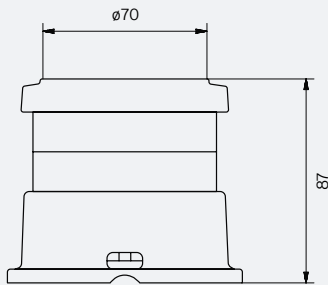
Pump with Isotop® DZE to compensate for high dynamic operating forces

#### Isotop® DZE-Mini (unladen)

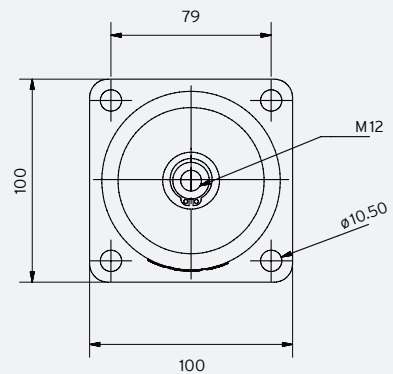
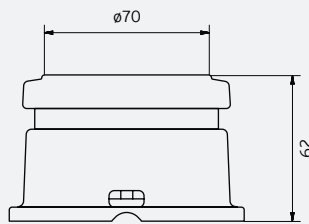


Please note: a 1.25 mm fine-pitch thread is required to make the connection

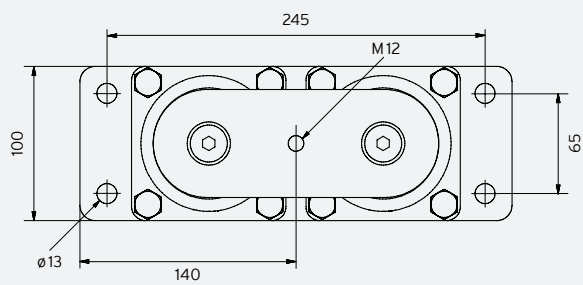
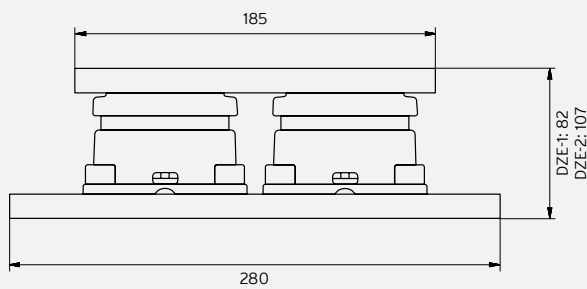
#### Isotop® DZE-2 (unladen)



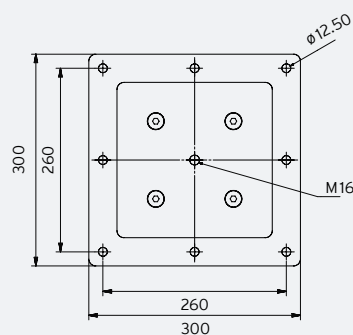
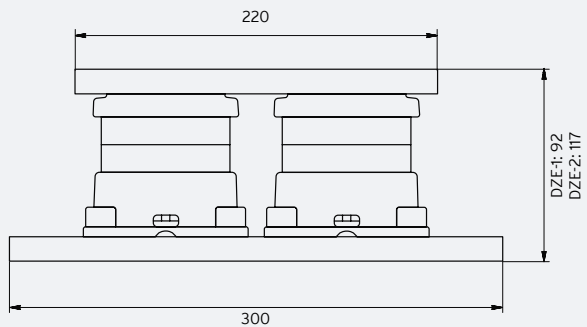
#### Isotop® DZE-1 (unladen)



#### Isotop® DZE-x-BL2 (unladen)



#### Isotop® DZE-x-BL4 (unladen)







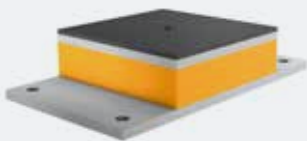
# Isotop SE pro

Sandwich element with high-end vibration isolation

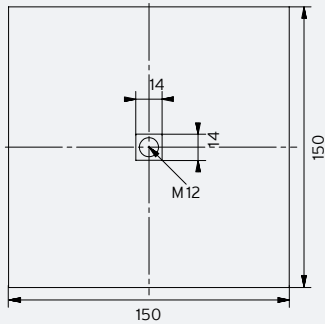
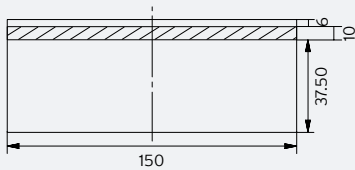
- Natural frequency from 7.9 Hz
- Top plate fitted with 6 mm Sylomer® anti-slip plate
- 10 mm hot dip galvanised steller plate for pressure distribution
- Insulating layer made from 37.5 mm Sylomer® or Sylodyn®
- M 12 internal thread for easy screw-fixing
- Suitable for different frame widths
- Quick and easy to install

|                                                                                                 |                     |              | Maximum load |        | Natural frequency at maximum load | Packaging unit | Order number |
|-------------------------------------------------------------------------------------------------|---------------------|--------------|--------------|--------|-----------------------------------|----------------|--------------|
|                                                                                                 |                     |              | in kg        | in N   |                                   |                |              |
|  <b>SE pro</b> | Isotop SE pro 9-1   | Single layer | 90           | 883    | 9.6 Hz                            | 12 pcs.        | <b>46520</b> |
|                                                                                                 | Isotop SE pro 14-1  | Single layer | 148          | 1,452  | 8.5 Hz                            | 12 pcs.        | <b>46522</b> |
|                                                                                                 | Isotop SE pro 28-1  | Single layer | 285          | 2,796  | 7.9 Hz                            | 12 pcs.        | <b>46523</b> |
|                                                                                                 | Isotop SE pro 67-1  | Single layer | 670          | 6,573  | 7.9 Hz                            | 12 pcs.        | <b>46524</b> |
|                                                                                                 | Isotop SE pro 133-1 | Single layer | 1,330        | 13,048 | 8.2 Hz                            | 12 pcs.        | <b>46525</b> |
|                                                                                                 | Isotop SE pro 225-1 | Single layer | 2,250        | 22,073 | 8.1 Hz                            | 12 pcs.        | <b>46526</b> |

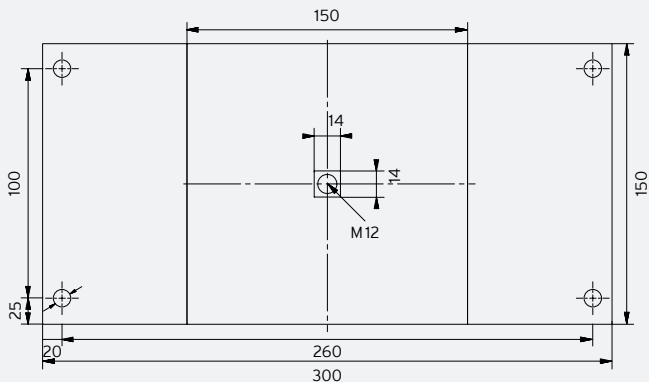
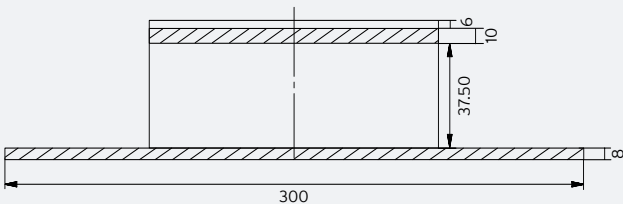
Premounted footplate available on request



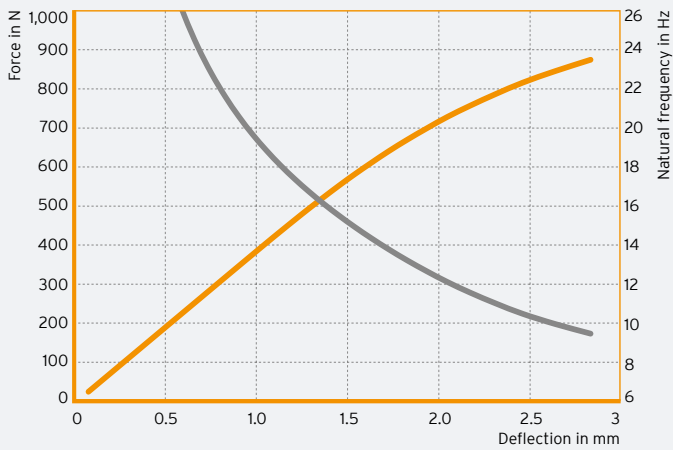
Isotop SE pro (unladen)



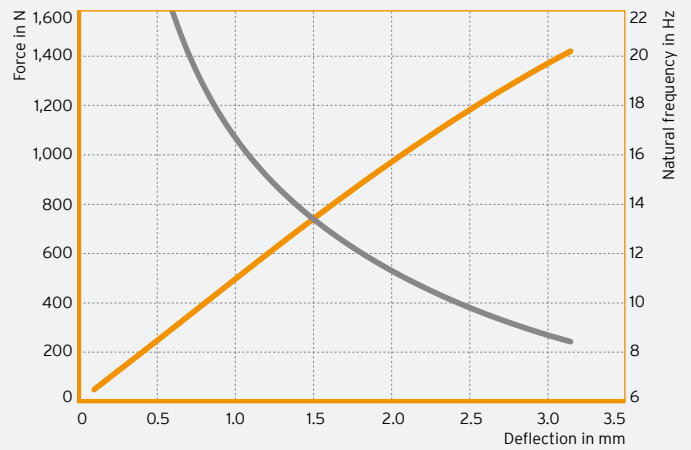
Isotop SE pro with footplate (unladen)



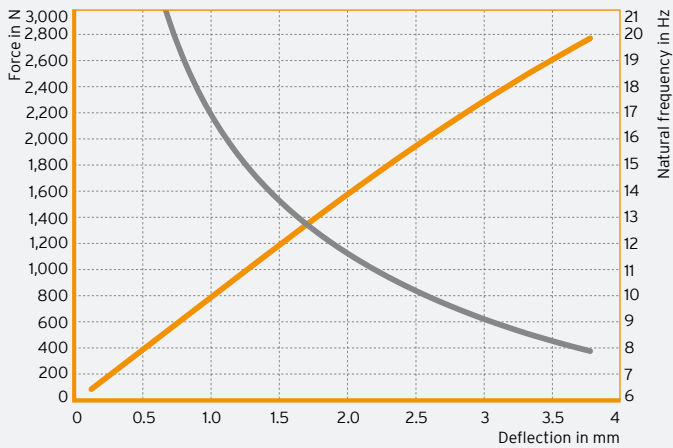
Isotop SE pro 9-1



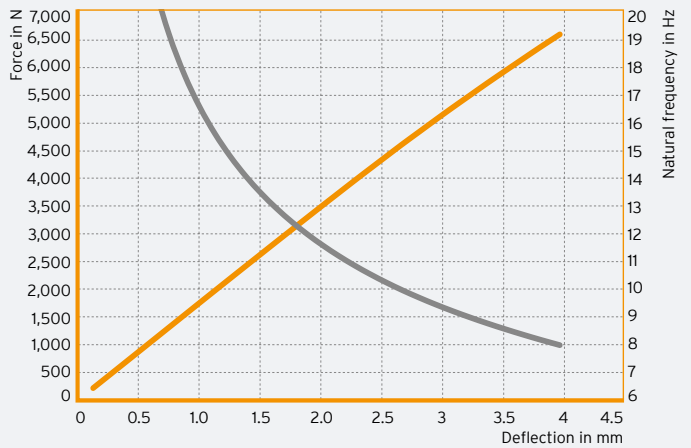
Isotop SE pro 14-1



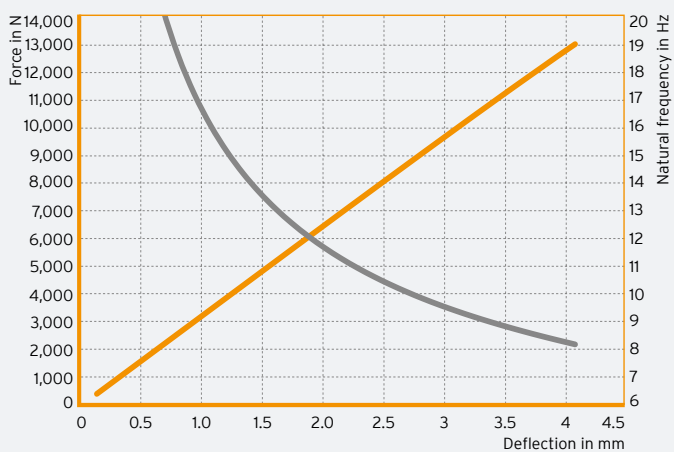
Isotop SE pro 28-1



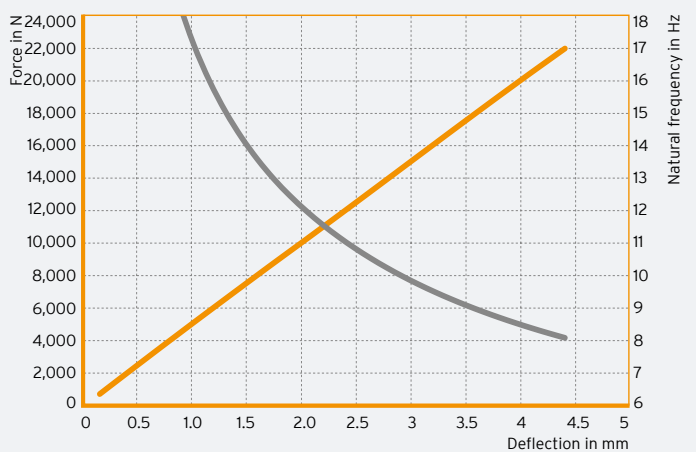
Isotop SE pro 67-1



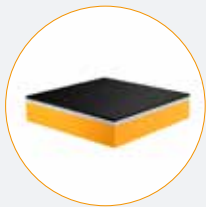
Isotop SE pro 133-1



Isotop SE pro 225-1



— Force in N  
— Natural frequency in Hz



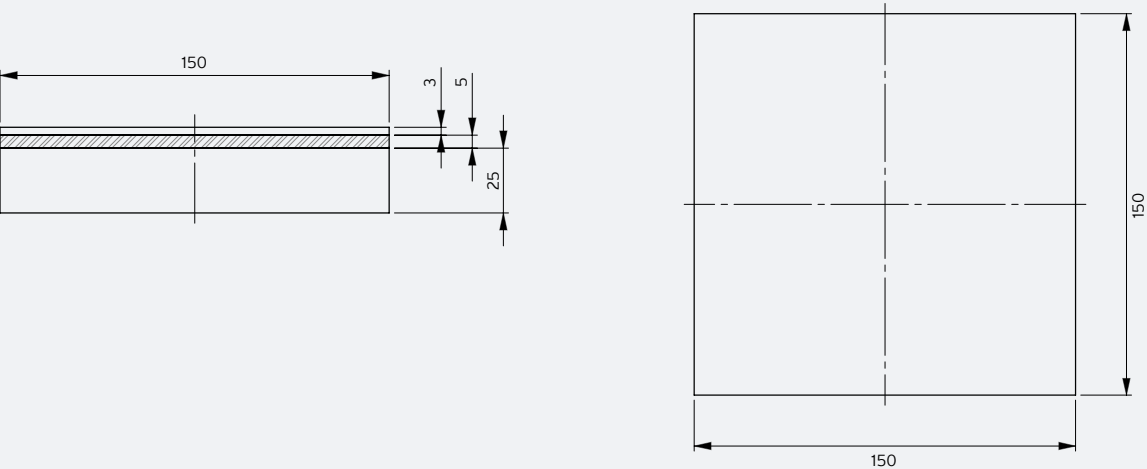
# Isotop® SE light

## Sandwich element for universal use

- Natural frequency from 10.8 Hz
- 5 mm hot-dip galvanised steel plate for pressure distribution with 3 mm anti-slip mat
- Insulating layer made from 25 mm Sylomer®
- Connection to the device by means of friction (without screw-fixing)
- Suitable for different frame widths
- Quick and easy to install

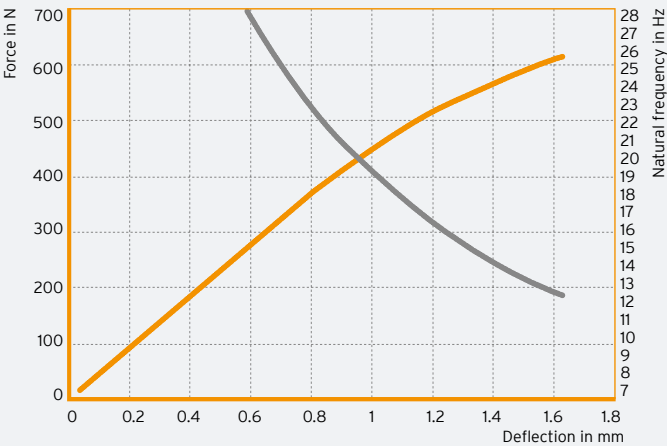
|                                                                                                      |                       |              | Maximum load |       | Natural frequency at maximum load | Packaging unit | Order number |
|------------------------------------------------------------------------------------------------------|-----------------------|--------------|--------------|-------|-----------------------------------|----------------|--------------|
|                                                                                                      |                       |              | in kg        | in N  |                                   |                |              |
| <b>SE light</b><br> | Isotop® SE light 6-1  | Single layer | 63           | 618   | 12.7 Hz                           | 4 pcs.         | <b>45949</b> |
|                                                                                                      | Isotop® SE light 12-1 | Single layer | 123          | 1,206 | 11.7 Hz                           | 4 pcs.         | <b>45950</b> |
|                                                                                                      | Isotop® SE light 24-1 | Single layer | 240          | 2,354 | 11.8 Hz                           | 4 pcs.         | <b>45951</b> |
|                                                                                                      | Isotop® SE light 47-1 | Single layer | 470          | 4,610 | 10.8 Hz                           | 4 pcs.         | <b>45952</b> |
|                                                                                                      | Isotop® SE light 93-1 | Single layer | 930          | 9,123 | 11.0 Hz                           | 4 pcs.         | <b>45953</b> |

### Isotop® SE light (unladen)

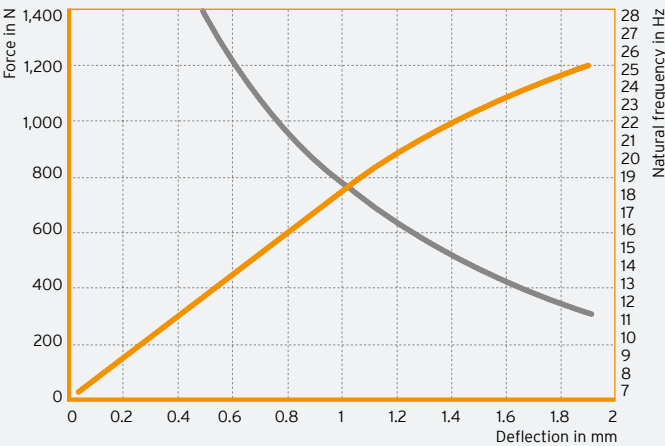




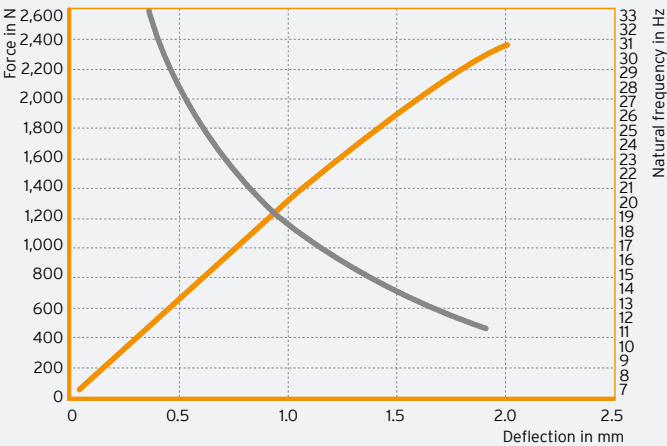
Isotop® SE light 6-1



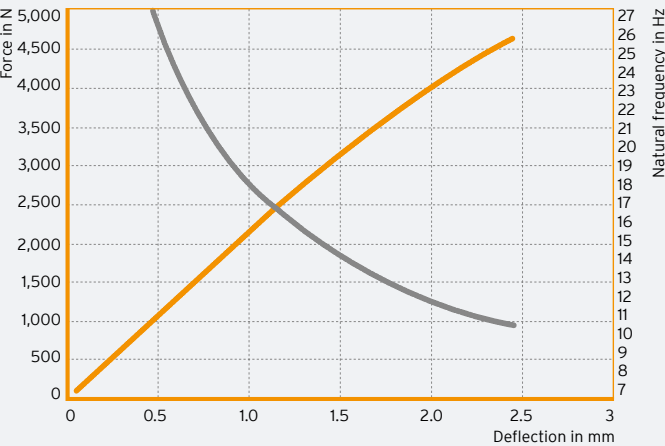
Isotop® SE light 12-1



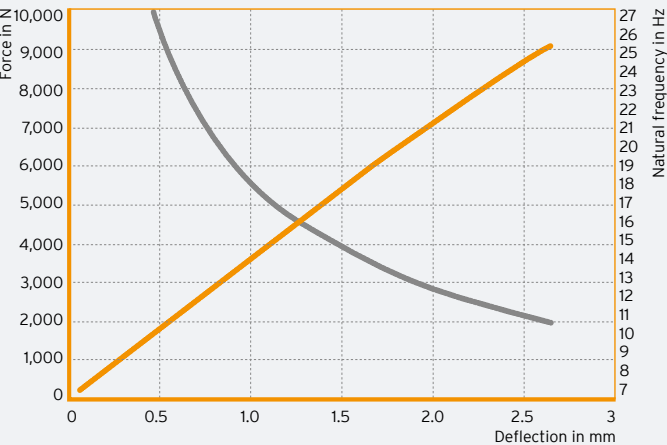
Isotop® SE light 24-1



Isotop® SE light 47-1



Isotop® SE light 93-1



— Force in N  
— Natural frequency in Hz



# Isotop® SE-DE and SE-DE Elevator

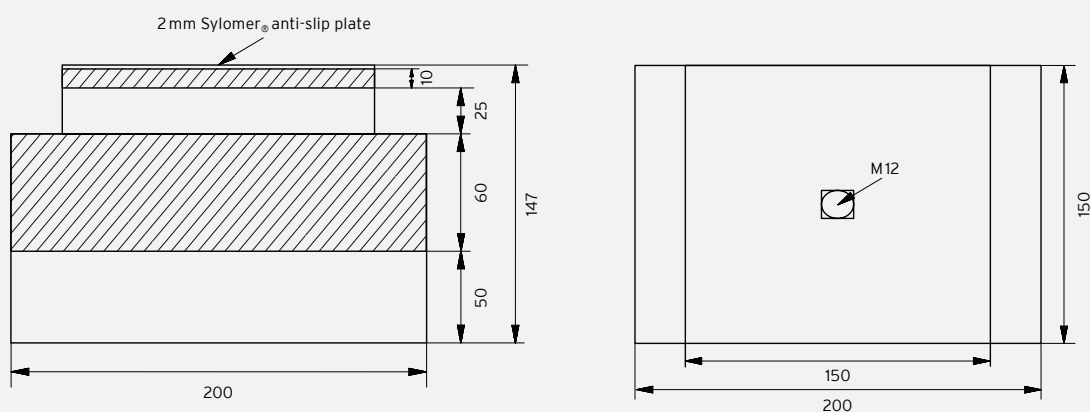
## Sandwich element with double-elastic bearing

- Natural frequency from 6.6Hz
- Sylomer® or Sylodyn® inside
- Category EL-3 according to DIN 8989 (VDI 2566)
- Top plate fitted with 2 mm Sylomer® anti-slip plate
- 10 mm galvanised steel plate for pressure distribution
- 60 mm thick, heavy settling mass
- M12 internal thread for easy screw-fixing
- Quick and easy to install

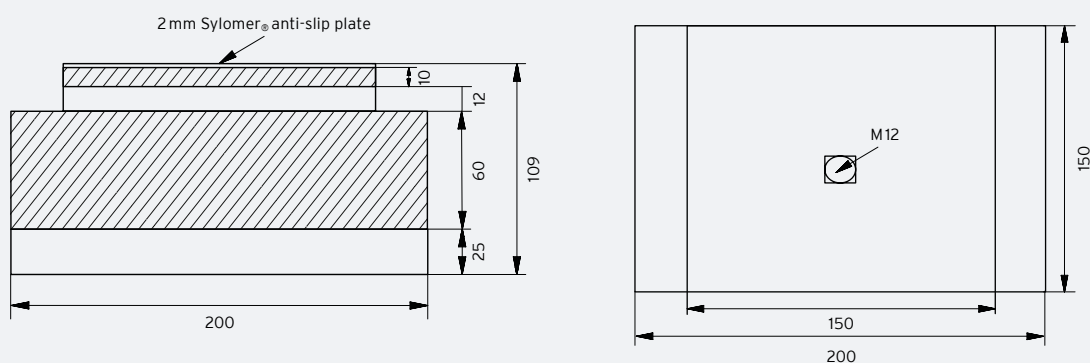
|                                                                                                              |                            | Maximum load |        | Natural frequency at maximum load | Packaging unit | Order number |
|--------------------------------------------------------------------------------------------------------------|----------------------------|--------------|--------|-----------------------------------|----------------|--------------|
|                                                                                                              |                            | in kg        | in N   |                                   |                |              |
| <b>SE-DE</b><br>            | Isotop® SE-DE 10           | 105          | 1,030  | 6.6 Hz                            | 4 pcs.         | <b>42387</b> |
|                                                                                                              | Isotop® SE-DE 13           | 142          | 1,393  | 7.0 Hz                            | 4 pcs.         | <b>39684</b> |
|                                                                                                              | Isotop® SE-DE 30           | 285          | 2,795  | 7.0 Hz                            | 4 pcs.         | <b>39685</b> |
|                                                                                                              | Isotop® SE-DE 50           | 550          | 5,395  | 6.6 Hz                            | 4 pcs.         | <b>39686</b> |
| <b>SE-DE Elevator</b><br> | Isotop® SE-DE Elevator 50  | 620          | 6,082  | 9.5 Hz                            | 20 pcs.        | <b>39692</b> |
|                                                                                                              | Isotop® SE-DE Elevator 100 | 1,250        | 12,262 | 9.5 Hz                            | 4 pcs.         | <b>39693</b> |
|                                                                                                              | Isotop® SE-DE Elevator 170 | 2,190        | 21,483 | 9.5 Hz                            | 4 pcs.         | <b>39694</b> |
|                                                                                                              | Isotop® SE-DE Elevator 280 | 3,480        | 34,138 | 8.8 Hz                            | 4 pcs.         | <b>39695</b> |

SE-DE and SE-DE Elevator no stock items. Delivery time on request (approx. 15 working days from the factory)

### Isotop® SE-DE with anti-slip plate (unladen)



### Isotop® SE-DE Elevator with anti-slip plate (unladen)



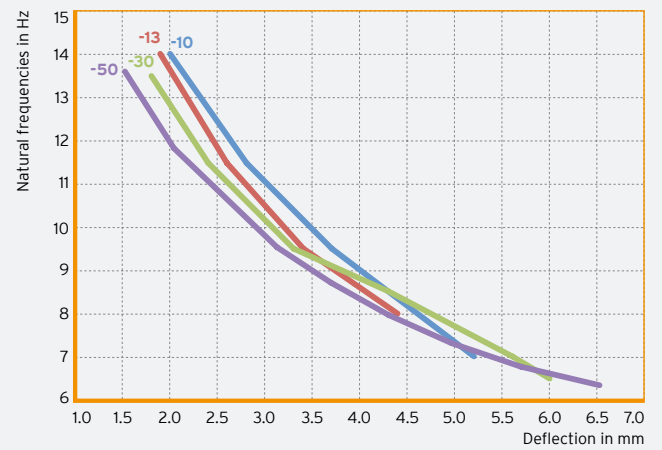
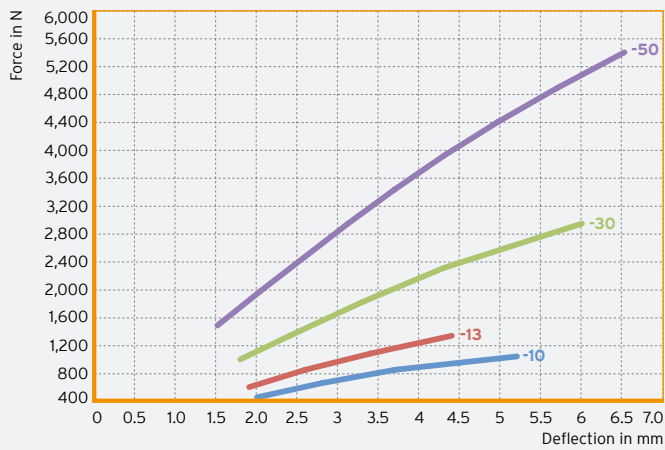


Bearing of a lift system with overhead cable guide

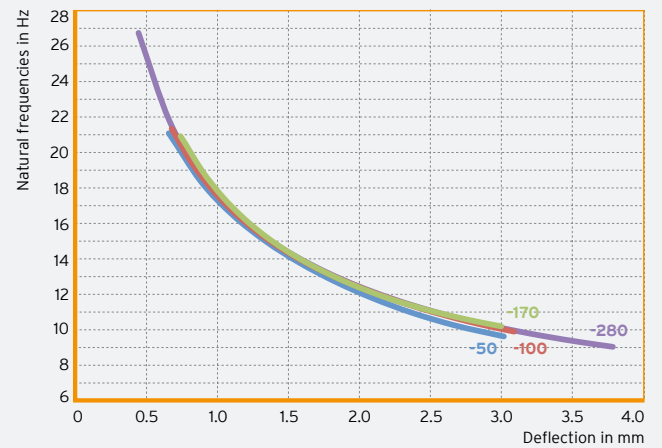
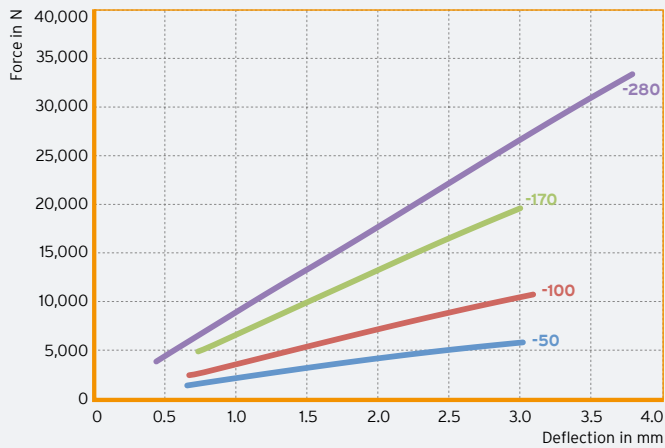


Chiller indoor unit

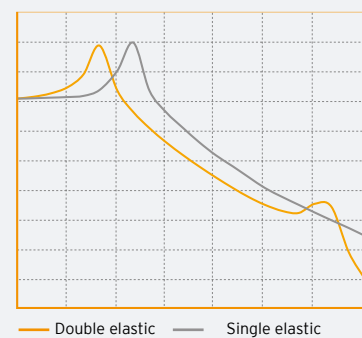
### Isotop® SE-DE



### Isotop® SE-DE Elevator



### Double elastic element vs. single elastic element







# Isotop® ENI

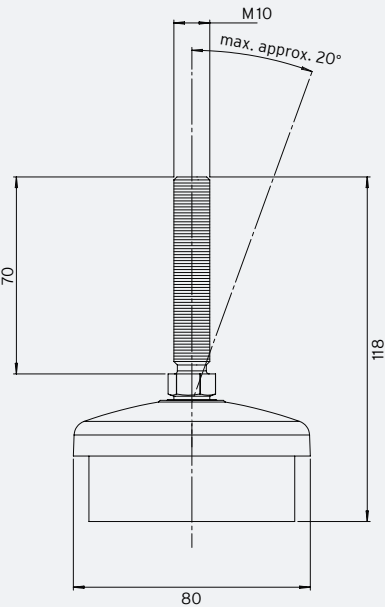
## Structure-borne noise-insulated machine base with ball-and-socket joint

- Natural frequency from 10 Hz
- High load capacity of up to 285 kg per machine base
- Sylomer® or Sylodyn® inside
- Integrated height adjustment
- Ball-and-socket joint to compensate for uneven floors and sloping
- Galvanised thread and polyamide plastic plate for high corrosion resistance

|                                                                                   |                       |     | Material thickness | Maximum load in kg | Maximum load in N | Natural frequency at maximum load | Packaging unit | Order number |
|-----------------------------------------------------------------------------------|-----------------------|-----|--------------------|--------------------|-------------------|-----------------------------------|----------------|--------------|
|  | Isotop® ENI-60-25-80  | M10 | 25 mm              | 61                 | 598               | 10.7 Hz                           | 50 pcs.        | <b>45150</b> |
|                                                                                   | Isotop® ENI-115-25-80 | M10 | 25 mm              | 115                | 1,128             | 10.9 Hz                           | 50 pcs.        | <b>45152</b> |
|                                                                                   | Isotop® ENI-175-25-80 | M10 | 25 mm              | 176                | 1,726             | 10.8 Hz                           | 50 pcs.        | <b>45154</b> |
|                                                                                   | Isotop® ENI-285-25-80 | M10 | 25 mm              | 285                | 2,795             | 10.0 Hz                           | 50 pcs.        | <b>45155</b> |

Additional thread and plate sizes available on request for purchase quantities of more than 200 pcs.

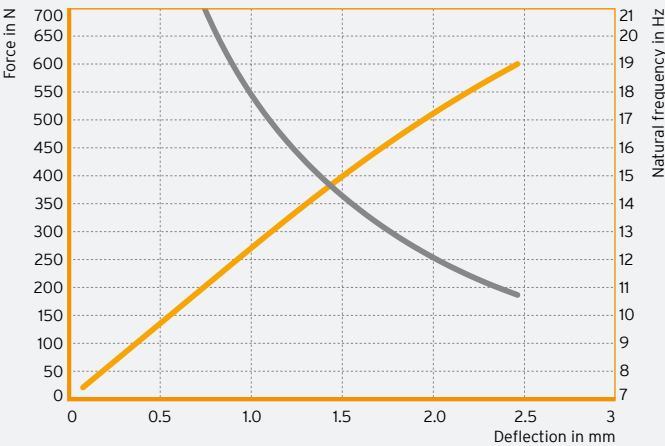
### Isotop® ENI-xx-25-80 (unladen)



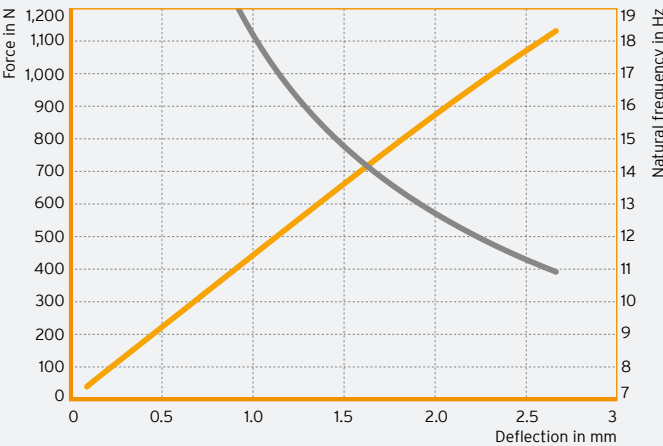


AC system installed in cellar

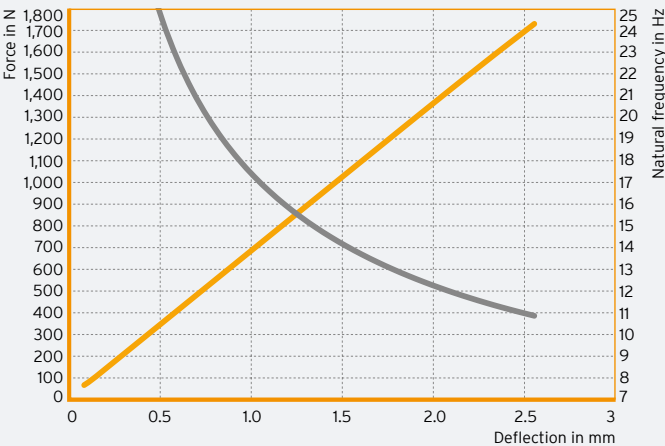
Isotop® ENI 60-25-80



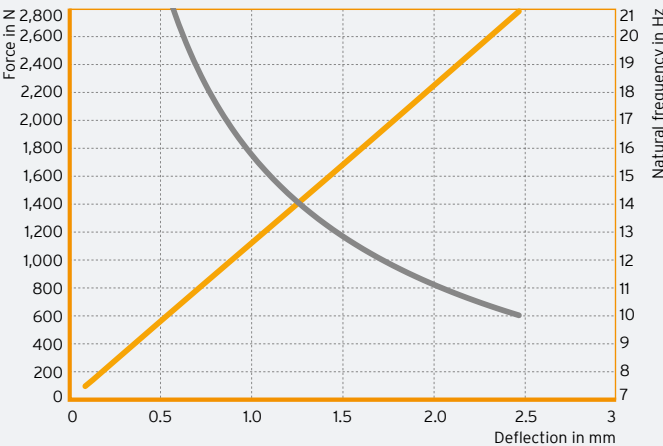
Isotop® ENI 115-25-80



Isotop® ENI 175-25-80



Isotop® ENI 285-25-80



— Force in N  
— Natural frequency in Hz



# Sylomer® Compressor Grommet CGR

Compressor grommets made from high-performance dampers

- Load capacity of up to 20 kg per compressor base
- Sylomer® inside
- Integrated steel sleeve for secure installation with high starting torque
- Designed for use with M8 screws
- Weather- and UV-resistant
- Extremely effective even at low temperatures

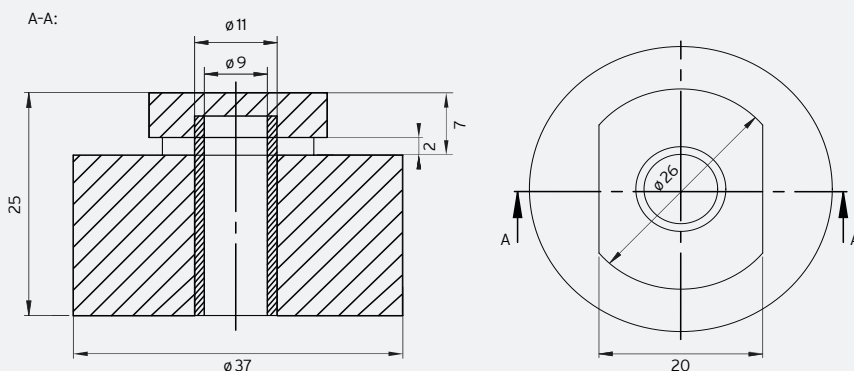
|                                                                                                                    | Type              | Dimension  | Maximum load |      | Natural frequency at maximum load | Packaging unit    | Order number |
|--------------------------------------------------------------------------------------------------------------------|-------------------|------------|--------------|------|-----------------------------------|-------------------|--------------|
|                                                                                                                    |                   |            | in kg        | in N |                                   |                   |              |
| <b>Compressor Grommet CGR</b><br> | CGR-3-37x25-M8-S  | 37 x 25 mm | 3            | 29   | 33.0 Hz                           | 1 set (= 48 pcs.) | <b>42177</b> |
|                                                                                                                    | CGR-6-37x25-M8-S  | 37 x 25 mm | 6            | 59   | 32.0 Hz                           | 1 set (= 48 pcs.) | <b>42178</b> |
|                                                                                                                    | CGR-10-37x25-M8-S | 37 x 25 mm | 10           | 98   | 31.0 Hz                           | 1 set (= 48 pcs.) | <b>41652</b> |
|                                                                                                                    | CGR-20-37x25-M8-S | 37 x 25 mm | 20           | 196  | 27.0 Hz                           | 1 set (= 48 pcs.) | <b>42179</b> |

Purchasing quantity = packaging unit or multiple thereof

|                                                                                                                 | Type      | Diameter [A] | Height | Hole diameter [B] |  | Packaging unit     | Order number |
|-----------------------------------------------------------------------------------------------------------------|-----------|--------------|--------|-------------------|--|--------------------|--------------|
| <b>Elastic Washer EW</b><br> | EW-M8-6   | 35 mm        | 6 mm   | 9 mm              |  | 1 set (= 100 pcs.) | <b>37523</b> |
|                                                                                                                 | EW-M10-6  | 40 mm        | 6 mm   | 11 mm             |  | 1 set (= 100 pcs.) | <b>37524</b> |
|                                                                                                                 | EW-M12-6  | 50 mm        | 6 mm   | 13 mm             |  | 1 set (= 100 pcs.) | <b>37525</b> |
|                                                                                                                 | EW-M16-6  | 55 mm        | 6 mm   | 17 mm             |  | 1 set (= 100 pcs.) | <b>37526</b> |
|                                                                                                                 | EW-M8-8   | 28 mm        | 8 mm   | 9 mm              |  | 1 set (= 100 pcs.) | <b>37511</b> |
|                                                                                                                 | EW-M10-8  | 34 mm        | 8 mm   | 11 mm             |  | 1 set (= 100 pcs.) | <b>37512</b> |
|                                                                                                                 | EW-M12-8  | 44 mm        | 8 mm   | 13 mm             |  | 1 set (= 100 pcs.) | <b>37513</b> |
|                                                                                                                 | EW-M16-8  | 56 mm        | 8 mm   | 17 mm             |  | 1 set (= 100 pcs.) | <b>37514</b> |
|                                                                                                                 | EW-M8-12  | 35 mm        | 12 mm  | 9 mm              |  | 1 set (= 100 pcs.) | <b>37519</b> |
|                                                                                                                 | EW-M10-12 | 40 mm        | 12 mm  | 11 mm             |  | 1 set (= 100 pcs.) | <b>37520</b> |
|                                                                                                                 | EW-M12-12 | 50 mm        | 12 mm  | 13 mm             |  | 1 set (= 100 pcs.) | <b>37521</b> |
|                                                                                                                 | EW-M16-12 | 55 mm        | 12 mm  | 17 mm             |  | 1 set (= 100 pcs.) | <b>37522</b> |

Purchasing quantity = packaging unit or multiple thereof

## Sylomer® Compressor Grommet CGR (unladen)



Note: Customised geometries available for purchase quantities of more than 5,000 pcs.

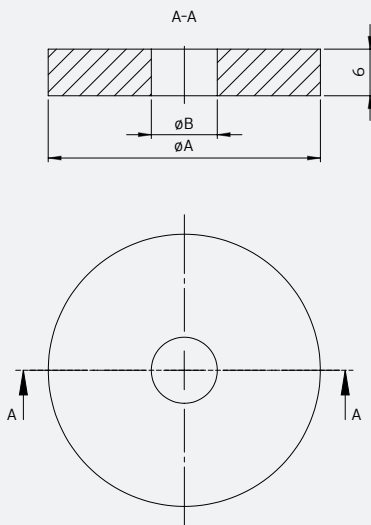


Sylomer® Compressor Grommet CGR

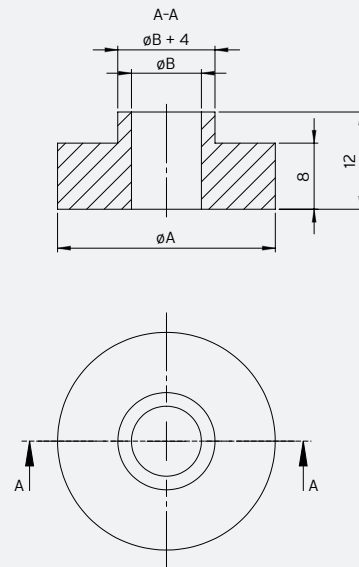


Elastic Washer EW

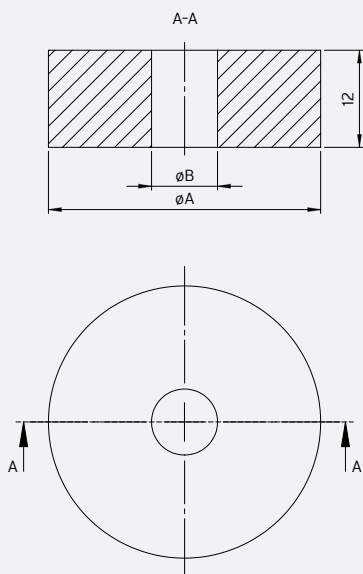
**EW Mxx-6 (unladen)**



**EW Mxx-8 (unladen)**



**EW Mxx-12 (unladen)**

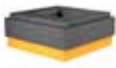
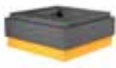




# Isotop® Transformer Pad TR

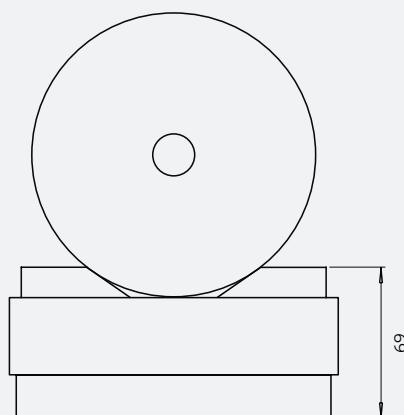
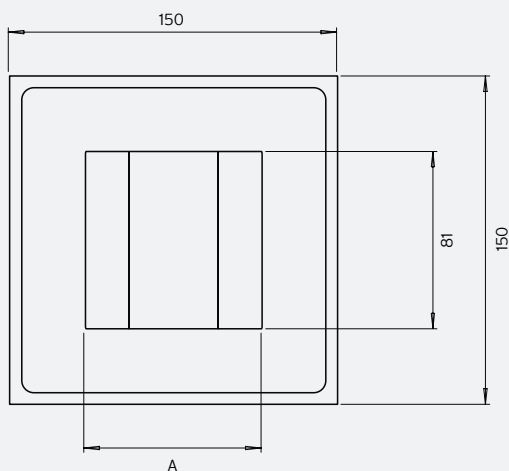
## High-performance pads for transformers with wheels

- Natural frequencies from 8.5 Hz
- Syldyn® inside
- Load capacities for transformers weighing up to 10 t
- Available with reel width of 40 - 70 mm and reel diameter of up to 200 mm

|                                                                                    |                  | Reel diameter | Max. load per set |        | Natural frequency at maximum load | Packaging unit   | Order number |
|------------------------------------------------------------------------------------|------------------|---------------|-------------------|--------|-----------------------------------|------------------|--------------|
| Transformer Pad TR                                                                 | TR-400/150-100   | up to 100 mm  | 400               | 3,925  | 11.3 Hz                           | 1 set (= 4 pcs.) | <b>43099</b> |
|                                                                                    | TR-1000/150-100  | up to 100 mm  | 1,000             | 9,810  | 9.5 Hz                            | 1 set (= 4 pcs.) | <b>43100</b> |
|                                                                                    | TR-2500/150-100  | up to 100 mm  | 2,500             | 24,525 | 9.9 Hz                            | 1 set (= 4 pcs.) | <b>43101</b> |
|                                                                                    | TR-5000/150-100  | up to 100 mm  | 5,000             | 49,050 | 9.7 Hz                            | 1 set (= 4 pcs.) | <b>43102</b> |
|                                                                                    | TR-10000/150-100 | up to 100 mm  | 10,000            | 98,100 | 8.5 Hz                            | 1 set (= 4 pcs.) | <b>43103</b> |
|  | TR-400/150-150   | 101 - 150 mm  | 400               | 3,925  | 11.3 Hz                           | 1 set (= 4 pcs.) | <b>43202</b> |
|                                                                                    | TR-1000/150-150  | 101 - 150 mm  | 1,000             | 9,810  | 9.5 Hz                            | 1 set (= 4 pcs.) | <b>43204</b> |
|                                                                                    | TR-2500/150-150  | 101 - 150 mm  | 2,500             | 24,525 | 9.9 Hz                            | 1 set (= 4 pcs.) | <b>43206</b> |
|                                                                                    | TR-5000/150-150  | 101 - 150 mm  | 5,000             | 49,050 | 9.7 Hz                            | 1 set (= 4 pcs.) | <b>43208</b> |
|                                                                                    | TR-10000/150-150 | 101 - 150 mm  | 10,000            | 98,100 | 8.5 Hz                            | 1 set (= 4 pcs.) | <b>43210</b> |
|  | TR-400/150-200   | 151 - 200 mm  | 400               | 3,925  | 11.3 Hz                           | 1 set (= 4 pcs.) | <b>43203</b> |
|                                                                                    | TR-1000/150-200  | 151 - 200 mm  | 1,000             | 9,810  | 9.5 Hz                            | 1 set (= 4 pcs.) | <b>43205</b> |
|                                                                                    | TR-2500/150-200  | 151 - 200 mm  | 2,500             | 24,525 | 9.9 Hz                            | 1 set (= 4 pcs.) | <b>43207</b> |
|                                                                                    | TR-5000/150-200  | 151 - 200 mm  | 5,000             | 49,050 | 9.7 Hz                            | 1 set (= 4 pcs.) | <b>43209</b> |
|                                                                                    | TR-10000/150-200 | 151 - 200 mm  | 10,000            | 98,100 | 8.5 Hz                            | 1 set (= 4 pcs.) | <b>43211</b> |

Not held in stock. Delivery time on request (approx. 15 working days from the factory)

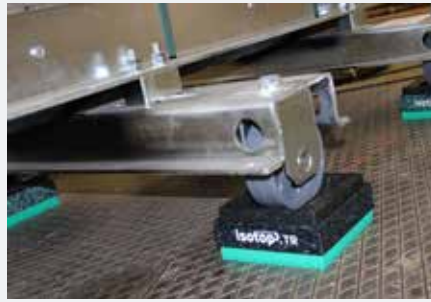
### Isotop® Transformer Pad TR (unladen)



**Dimension inlay [A]:**  
 TR-xxx-100 A = 81 mm  
 TR-xxx-150 A = 105 mm  
 TR-xxx-200 A = 119 mm



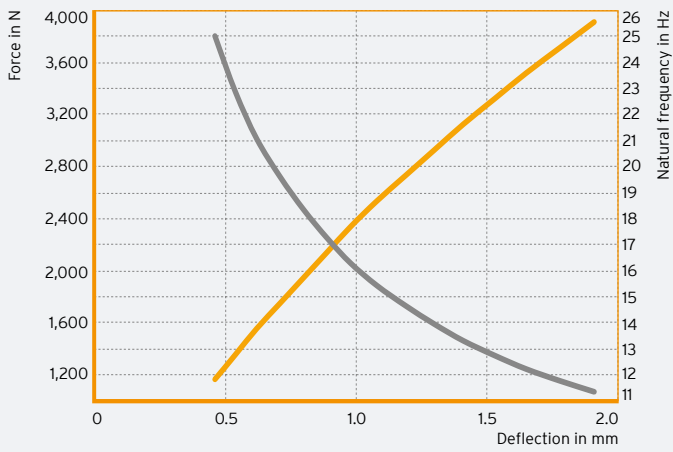
Isotop® TR



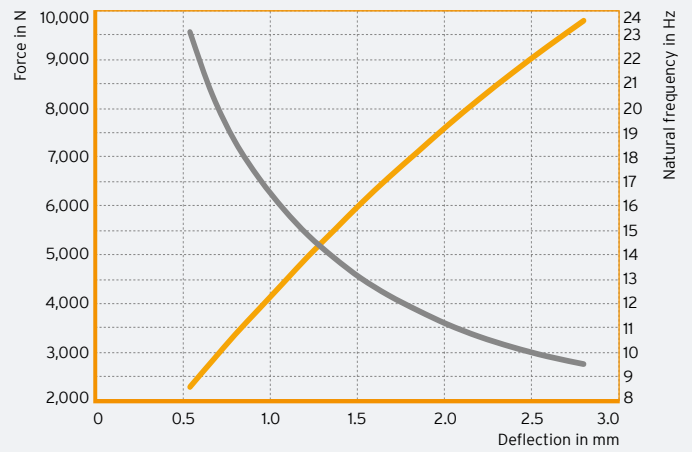
Vibration decoupled bearing of a distribution transformer



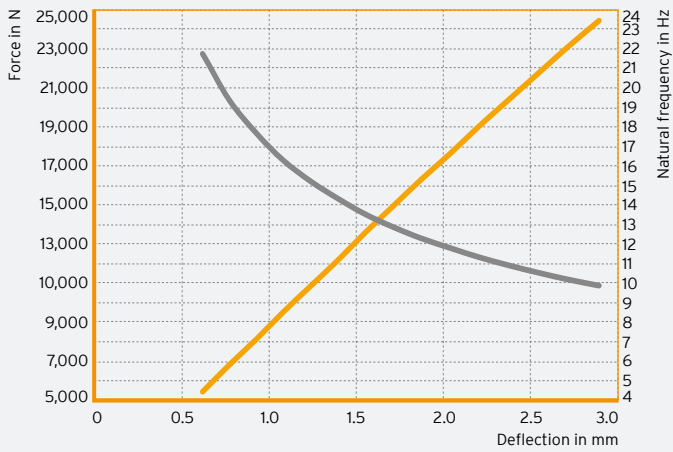
#### TR-400



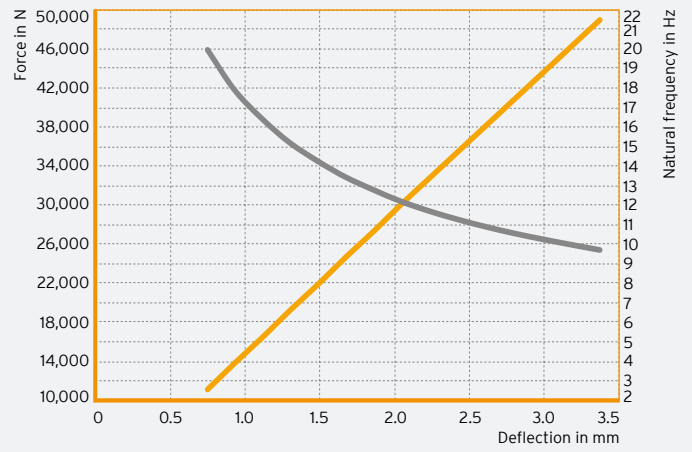
#### TR-1000



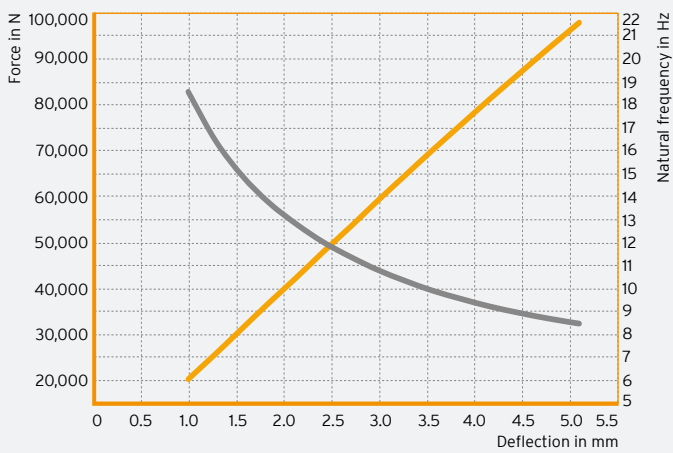
#### TR-2500



#### TR-5000



#### TR-10000



— Force in N  
— Natural frequency in Hz



# Sylomer® Point Bearing PBE

## Point bearing for general use

- Universally applicable
- Available in practical formats of 50×50 or 100×100 and in heights of 12.5 mm and 25 mm
- Natural frequencies from 10.5 Hz
- Load capacity of up to 1,075 kg per point bearing

|                                                                                                                               | Type       | Maximum load |        | Natural frequency | Packaging unit    | Order number |
|-------------------------------------------------------------------------------------------------------------------------------|------------|--------------|--------|-------------------|-------------------|--------------|
|                                                                                                                               |            | in kg        | in N   | at maximum load   |                   |              |
| <b>PBE-S</b><br><b>50×50×12.5 mm</b><br>     | PBE-S-5    | 6            | 58     | 18.5 Hz           | 1 set (= 48 pcs.) | <b>41930</b> |
|                                                                                                                               | PBE-S-13   | 13           | 128    | 17.0 Hz           | 1 set (= 48 pcs.) | <b>41931</b> |
|                                                                                                                               | PBE-S-25   | 25           | 245    | 17.0 Hz           | 1 set (= 48 pcs.) | <b>41932</b> |
|                                                                                                                               | PBE-S-45   | 48           | 470    | 15.5 Hz           | 1 set (= 48 pcs.) | <b>41933</b> |
|                                                                                                                               | PBE-S-95   | 95           | 932    | 15.5 Hz           | 1 set (= 48 pcs.) | <b>41934</b> |
| <b>PBE-M</b><br><b>50×50×25 mm</b><br>      | PBE-M-5    | 6            | 58     | 12.5 Hz           | 1 set (= 48 pcs.) | <b>41935</b> |
|                                                                                                                               | PBE-M-13   | 12           | 117    | 11.5 Hz           | 1 set (= 48 pcs.) | <b>41936</b> |
|                                                                                                                               | PBE-M-25   | 23           | 225    | 11.5 Hz           | 1 set (= 48 pcs.) | <b>41937</b> |
|                                                                                                                               | PBE-M-40   | 42           | 412    | 10.7 Hz           | 1 set (= 48 pcs.) | <b>41938</b> |
|                                                                                                                               | PBE-M-80   | 80           | 784    | 11.0 Hz           | 1 set (= 48 pcs.) | <b>41939</b> |
| <b>PBE-L</b><br><b>100×100×12.5 mm</b><br> | PBE-L-25   | 28           | 274    | 18.5 Hz           | 1 set (= 48 pcs.) | <b>41940</b> |
|                                                                                                                               | PBE-L-55   | 55           | 540    | 17.0 Hz           | 1 set (= 48 pcs.) | <b>41941</b> |
|                                                                                                                               | PBE-L-110  | 110          | 1,079  | 17.0 Hz           | 1 set (= 48 pcs.) | <b>41942</b> |
|                                                                                                                               | PBE-L-215  | 215          | 2,109  | 15.5 Hz           | 1 set (= 48 pcs.) | <b>41943</b> |
|                                                                                                                               | PBE-L-435  | 435          | 4,267  | 15.5 Hz           | 1 set (= 48 pcs.) | <b>41944</b> |
|                                                                                                                               | PBE-L-780  | 780          | 7,652  | 16.0 Hz           | 1 set (= 48 pcs.) | <b>41945</b> |
|                                                                                                                               | PBE-L-1140 | 1,075        | 10,545 | 15.5 Hz           | 1 set (= 48 pcs.) | <b>41946</b> |
| <b>PBE-XL</b><br><b>100×100×25 mm</b><br>  | PBE-XL-25  | 27           | 264    | 12.5 Hz           | 1 set (= 48 pcs.) | <b>41947</b> |
|                                                                                                                               | PBE-XL-50  | 52           | 510    | 11.5 Hz           | 1 set (= 48 pcs.) | <b>41948</b> |
|                                                                                                                               | PBE-XL-105 | 101          | 990    | 11.5 Hz           | 1 set (= 48 pcs.) | <b>41949</b> |
|                                                                                                                               | PBE-XL-195 | 195          | 1,913  | 10.5 Hz           | 1 set (= 48 pcs.) | <b>41950</b> |
|                                                                                                                               | PBE-XL-385 | 377          | 3,698  | 11.0 Hz           | 1 set (= 48 pcs.) | <b>41951</b> |
|                                                                                                                               | PBE-XL-640 | 610          | 5,984  | 11.0 Hz           | 1 set (= 48 pcs.) | <b>41952</b> |
|                                                                                                                               | PBE-XL-820 | 820          | 8,044  | 10.5 Hz           | 1 set (= 48 pcs.) | <b>41953</b> |

Not held in stock. Delivery time on request (approx. 15 working days from the factory)  
 Minimum purchase quantity = packaging unit or multiple thereof



Decoupled ventilation device module



Decoupling of the internal unit of a heat pump





# Sylomer® Strip Bearing SBE

Strip bearing for a broad range of applications

- Universally applicable
- Can also be shortened
- Natural frequencies from 11.5 Hz
- Load capacities up to 930 kg

| <b>SBE-L</b><br><b>1500 x 60 x 25 mm</b><br> | Type     | Maximum load |       | Natural frequency | Packaging unit   | Order number |
|-------------------------------------------------------------------------------------------------------------------------------|----------|--------------|-------|-------------------|------------------|--------------|
|                                                                                                                               | SBE-L-R1 | in kg        | in N  | at maximum load   |                  |              |
|                                                                                                                               | SBE-L-R2 | 98           | 961   | 14.0 Hz           | 1 set (= 6 pcs.) | <b>45115</b> |
|                                                                                                                               | SBE-L-R3 | 160          | 1,569 | 13.0 Hz           | 1 set (= 6 pcs.) | <b>45116</b> |
|                                                                                                                               | SBE-L-R4 | 247          | 2,423 | 12.5 Hz           | 1 set (= 6 pcs.) | <b>45117</b> |
|                                                                                                                               | SBE-L-R5 | 367          | 3,600 | 12.0 Hz           | 1 set (= 6 pcs.) | <b>45118</b> |
|                                                                                                                               | SBE-L-R6 | 481          | 4,718 | 11.5 Hz           | 1 set (= 6 pcs.) | <b>45119</b> |
|                                                                                                                               |          | 930          | 9,123 | 11.5 Hz           | 1 set (= 6 pcs.) | <b>45120</b> |

Not held in stock. Delivery time on request (approx. 15 working days from the factory)

## Cutting matrix

|                          |                        | Strip length in mm |      |      |     |     |     |     |
|--------------------------|------------------------|--------------------|------|------|-----|-----|-----|-----|
|                          |                        | 1500               | 1250 | 1000 | 750 | 500 | 250 | 100 |
| <b>Sylomer® SBE-L-R1</b> | <b>Max. load in kg</b> | 98                 | 81   | 65   | 49  | 32  | 16  | 6   |
| <b>Sylomer® SBE-L-R2</b> |                        | 160                | 133  | 107  | 80  | 53  | 26  | 10  |
| <b>Sylomer® SBE-L-R3</b> |                        | 247                | 205  | 164  | 123 | 82  | 41  | 16  |
| <b>Sylomer® SBE-L-R4</b> |                        | 367                | 306  | 245  | 183 | 122 | 61  | 24  |
| <b>Sylomer® SBE-L-R5</b> |                        | 481                | 401  | 320  | 240 | 160 | 79  | 31  |
| <b>Sylomer® SBE-L-R6</b> |                        | 930                | 775  | 619  | 463 | 308 | 152 | 59  |



Strip bearing for air conditioning (AC) unit



Strip bearing positioned in readiness for a rooftop ventilation unit

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