



# Applications



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

**2** Fans

**3** Lift systems

**4** Chillers, cooling towers



5 Pipes

7 Heat pumps

9 Combined heat and power plants (CHP plants)

6 Compressors

8 Pumps

10 Transformers

# Products

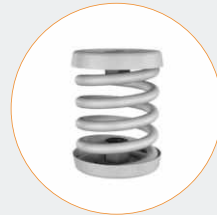
## Steel springs



Isotop® MSN  
Page 12



Isotop® DMSN  
Page 14



Isotop® SD  
Page 16

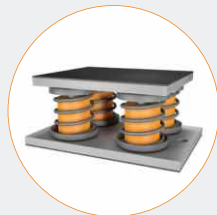


Isotop® DSD  
Page 18

## Steel spring block elements



Isotop® MSN-BL  
Page 20



Isotop® DMSN-BL  
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Isotop® SD-BL  
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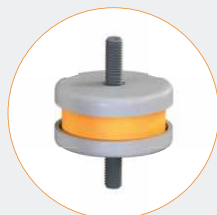


Isotop® DSD-BL  
Page 26

## Vibration dampers

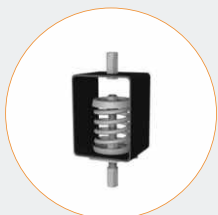


Isotop® MSN-DAMP  
Page 28

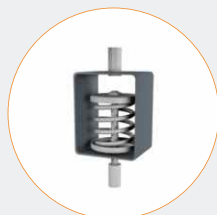


Isotop® Compact  
Page 30

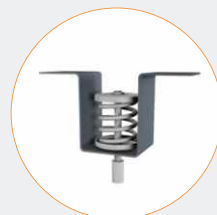
## Ceiling hangers



Isotop® SD/Z  
Page 34



Isotop® MSN/Z  
Page 34



Isotop® MSN/Z-LC  
Page 34

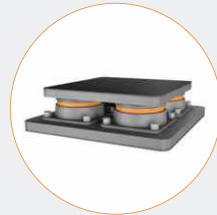
**Pressure-tension elements**



Isotop® DZE Mini  
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Isotop® DZE  
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Isotop® DZE-BL  
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**Sandwich elements**



Isotop® SE  
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Isotop® SE-DE  
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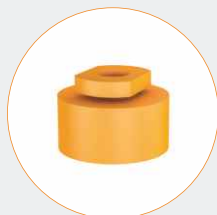
Isotop® SE-DE  
Elevator  
Page 42

**Machine bases**



Isotop® ENI  
Page 44

**Compressor bearings**



Sylomer®  
Compressor Grommet CGR  
Page 46

**Transformer bearings**

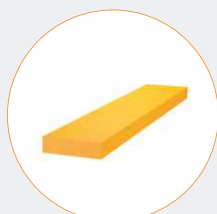


Isotop®  
Transformer Pad TR  
Page 48

**Point and strip bearings**



Sylomer®  
Point Bearing PBE  
Page 50



Sylomer®  
Strip Bearing SBE  
Page 51

**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 (e.g. hospitals, schools, office buildings, concert and theatres, etc.)		Medium (e.g. shopping centres, hotels, etc.)		Standard (e.g. industrial buildings, etc.)
Excitation frequency of device	9 Hz 540 rpm	16 Hz 960 rpm	25 Hz 1,500 rpm	30 Hz 1,800 rpm	50 Hz 3,000 rpm
Min. vertical natural frequency	3 Hz	5 Hz	7 Hz	9 Hz	14 Hz

\* Natural frequencies are dependent on thickness and geometry.

# EquipCalc

EquipCalc, 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:



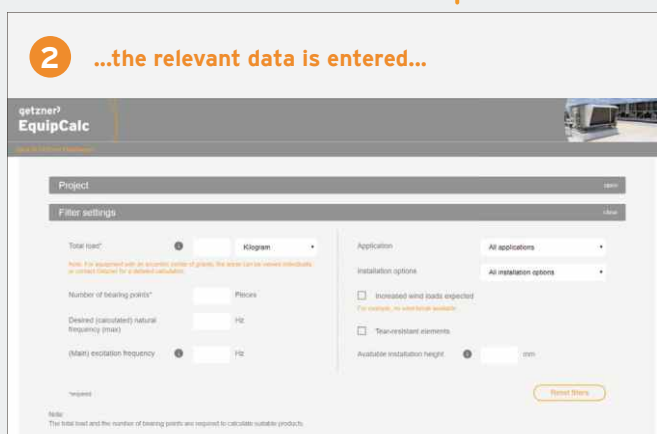
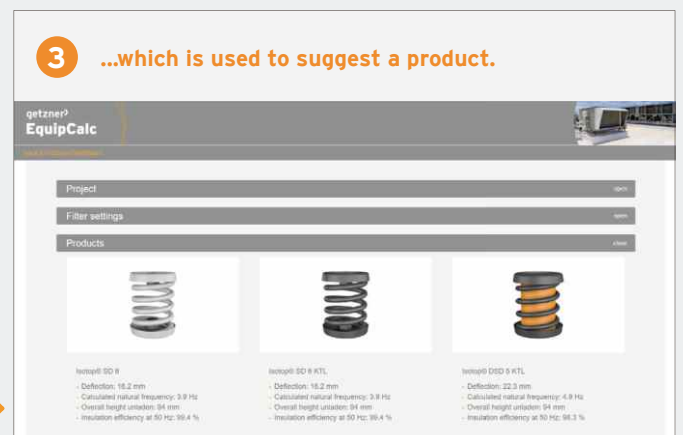
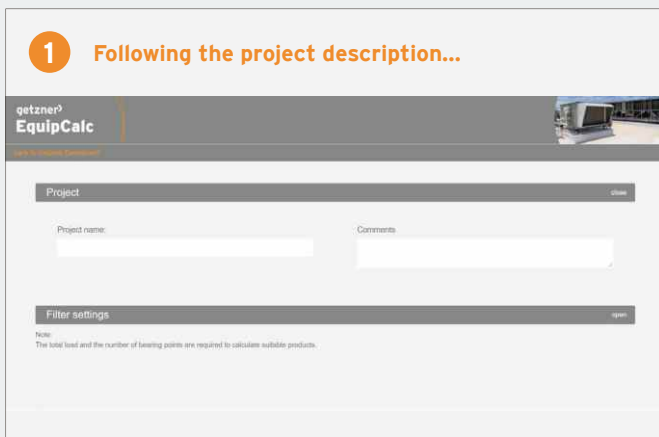
**Intuitive and easy to use**



**Up-to-date product information**



**Quick results**



## 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



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**4 Detailed product information...**

Isotop® DSD 6 KTL

Ordering number: 39157

Your settings:  
Total load: 200 kg Bearing points: 1

Product dimensions (per standard)	
Height	94 mm
Diameter	70 mm
Thread size	M10
Deflection	25.0 mm
Long term deflection (after one day)	25.0 mm
Long term deflection (after one month)	25.5 mm
Natural frequency	4.3 Hz

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

**getzner®**  
engineering a quiet future

Editor: Thomas Martz  
Date: 10 March 2020  
Your settings: Total load: 500kg, Bearing points: 4, Excitation frequency: 50Hz

**Isotop® DSD 5 KTL**  
Ordering number: 39497

Thread size	M10
Deflection	22.3 mm
Long term deflection (after one day)	22.3 mm
Long term deflection (after one month)	22.3 mm
Natural frequency	4.8 Hz
Capacity	88 %

■ Static load limit 
 ■ Total load 
 ■ Deflection curve











■ Insulation efficiency

Frequency in Hz	Insulation in dB	Degree of insulation in %
2.5	2.5	-33
3.1	4.1	-41
4.0	7.3	-133
4.8	8.8	-211
5.2	9.7	-226
6.3	3.0	-41
8.0	-3.9	-36
10.0	-8.0	65
12.5	-13.5	79
16.0	-17.0	87
20.0	-21.4	92
25.0	-25.2	94
31.5	-28.6	96
40.0	-32.1	98
50.0	-35.2	99.3
63.0	-38.3	99.8
80.0	-41.5	99.2
100.0	-44.4	99.4
125.0	-47.2	99.6
160.0	-50.3	99.7
200.0	-53.0	99.8

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# Selection matrix

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

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



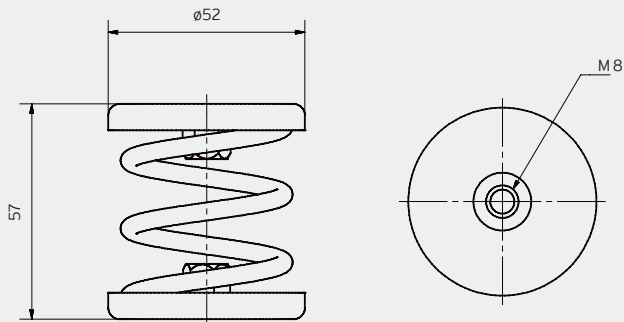
# Isotop® MSN

## Steel spring isolators for low installation heights

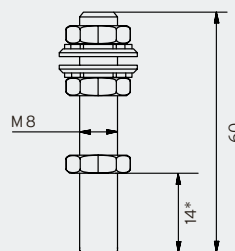
- Natural frequency from 3.5Hz
- Low overall height of 57 mm
- Electro-galvanised or cathodic dip-coated (CDC) for increased corrosion protection
- Secure connection between the plate and the spring thanks to special adhesive
- M 8 internal thread
- Simple load control thanks to open design
- Spring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

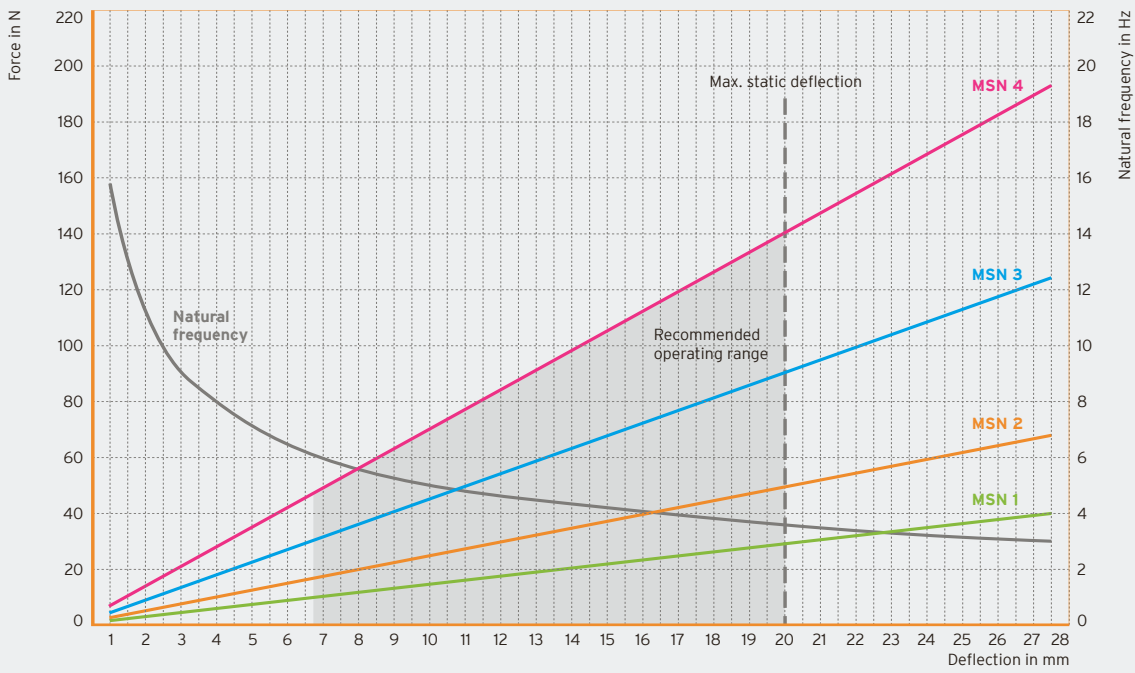


Axial fan in an AC system

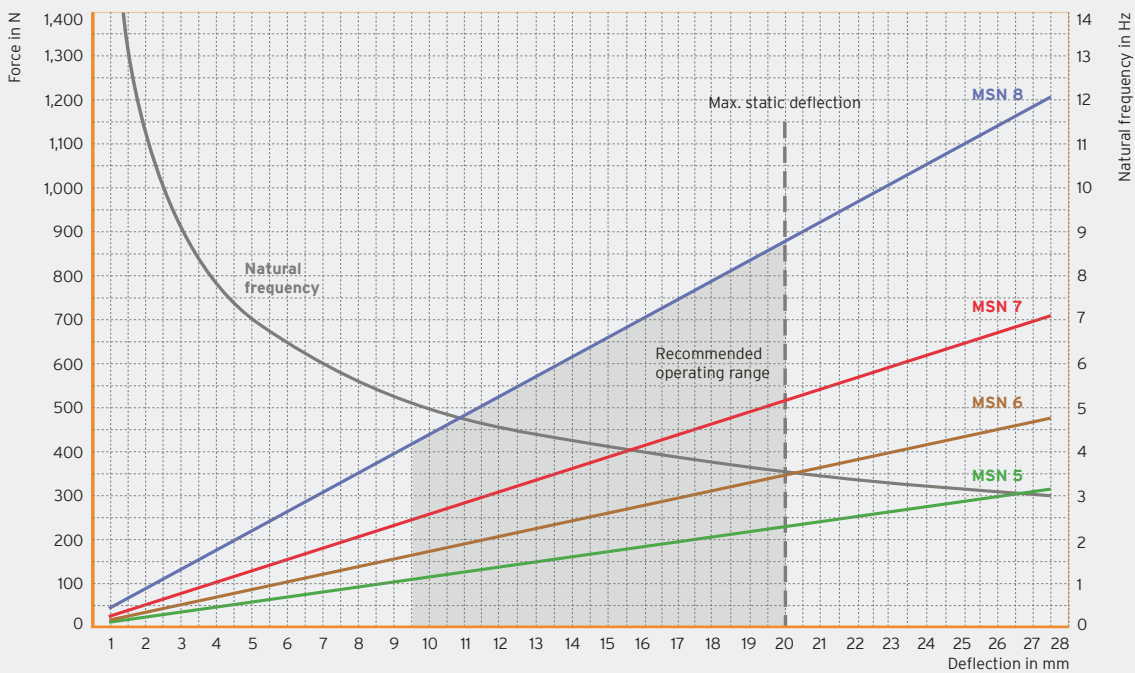


External unit of a heat pump on a wall bracket

**Isotop® MSN 1– MSN 4**



**Isotop® MSN 5– MSN 8**






# Isotop® DMSN

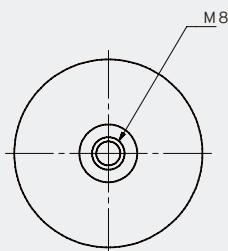
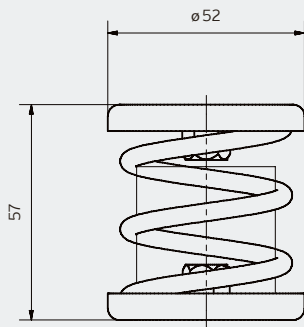
Steel spring isolators for low installation heights, with integrated high-performance dampers

- 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

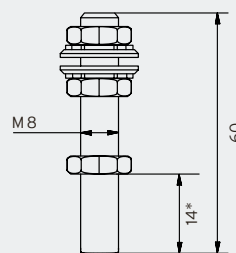
DMSN spring element CDC	Isotop® DMSN 3	CDC	Maximum load		Natural frequency at maximum load	Packaging unit	Order number
			in kg	in N			
	Isotop® DMSN 3	CDC	11	108	9.5 Hz	50 pcs.	<b>42389</b>
	Isotop® DMSN 4	CDC	16	158	7.8 Hz	50 pcs.	<b>42390</b>
	Isotop® DMSN 5	CDC	33	324	8.1 Hz	50 pcs.	<b>42397</b>
	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>
Height adjustment for MSN/DMSN	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

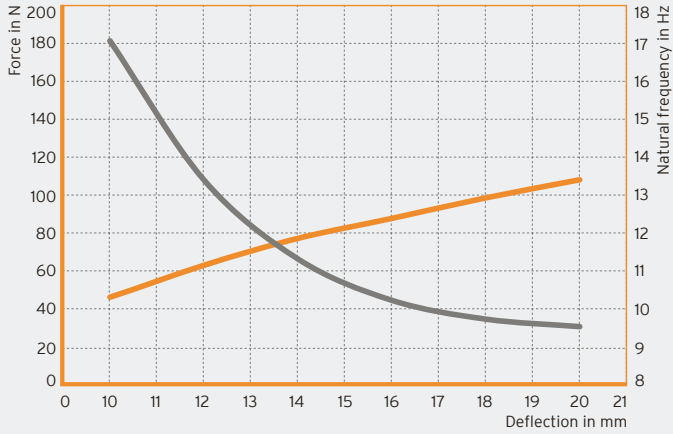


External unit heat pump

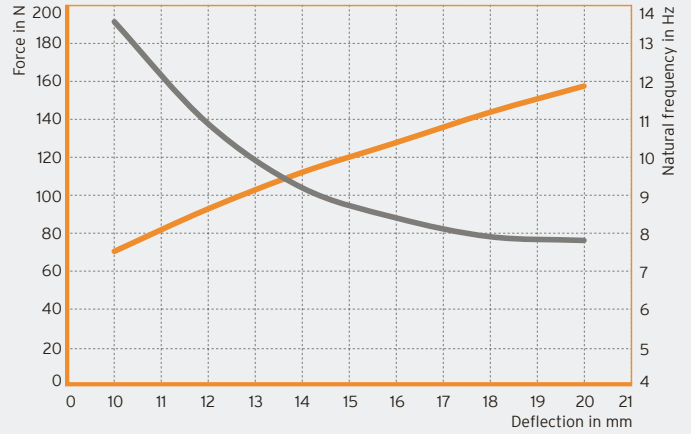


Power generator

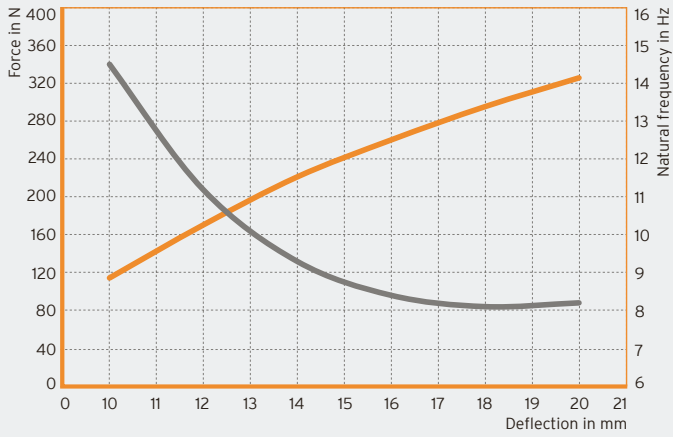
**Isotop® DMSN 3**



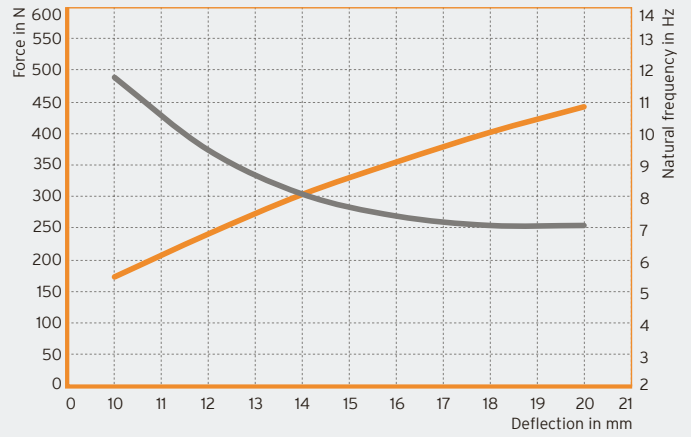
**Isotop® DMSN 4**



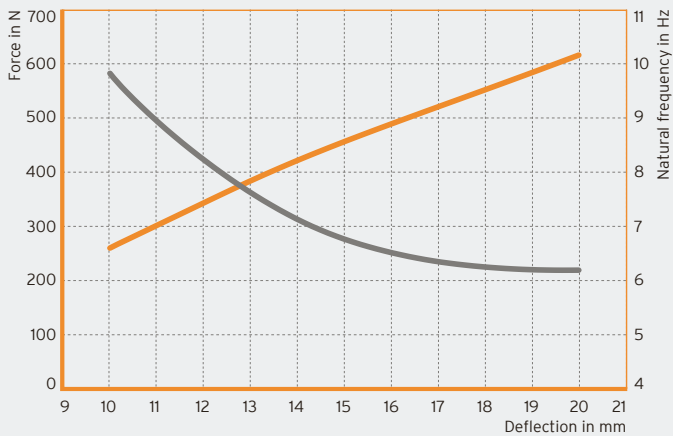
**Isotop® DMSN 5**



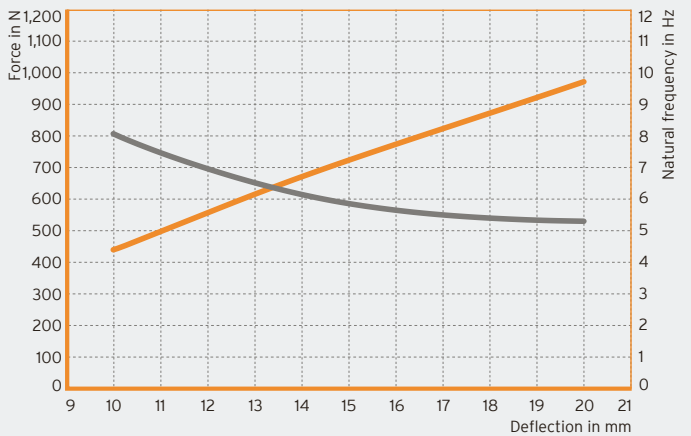
**Isotop® DMSN 6**



**Isotop® DMSN 7**



**Isotop® DMSN 8**








— Force in N  
— Natural frequency in Hz



# Isotop® SD

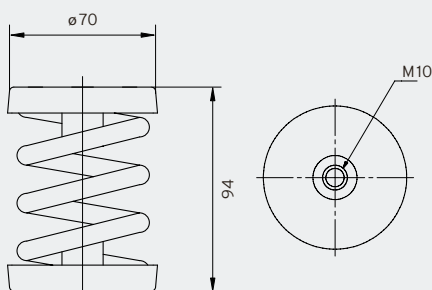
## Steel spring isolators

- Natural frequency from 3.2Hz
- 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

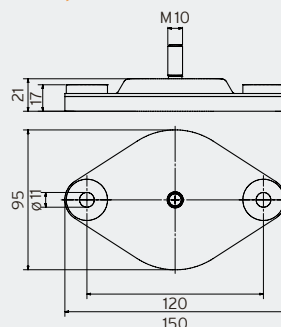
		Maximum load		Natural frequency at maximum load	Packaging unit	Order number
		in kg	in N			
<b>SD spring element galvanised</b> 	Isotop® SD 1	20	196	3.4 Hz	50 pcs.	<b>39443</b>
	Isotop® SD 2	33	324	3.4 Hz	50 pcs.	<b>39444</b>
	Isotop® SD 3	52	510	3.4 Hz	50 pcs.	<b>39003</b>
	Isotop® SD 4	82	804	3.4 Hz	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 spring element CDC</b> 	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 with damping element for SD/DSD</b> 	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 for SD/DSD</b> 	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 adjustment for SD/DSD</b> 	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

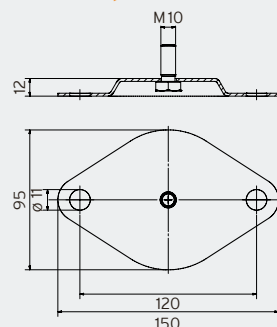
### Isotop® SD (unladen)



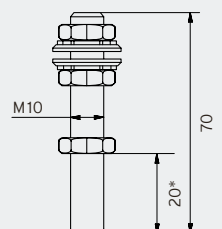
### Isotop® FP/K



### Isotop® FP



### Isotop® NV 1-9



\*Thread reach SD/DSD



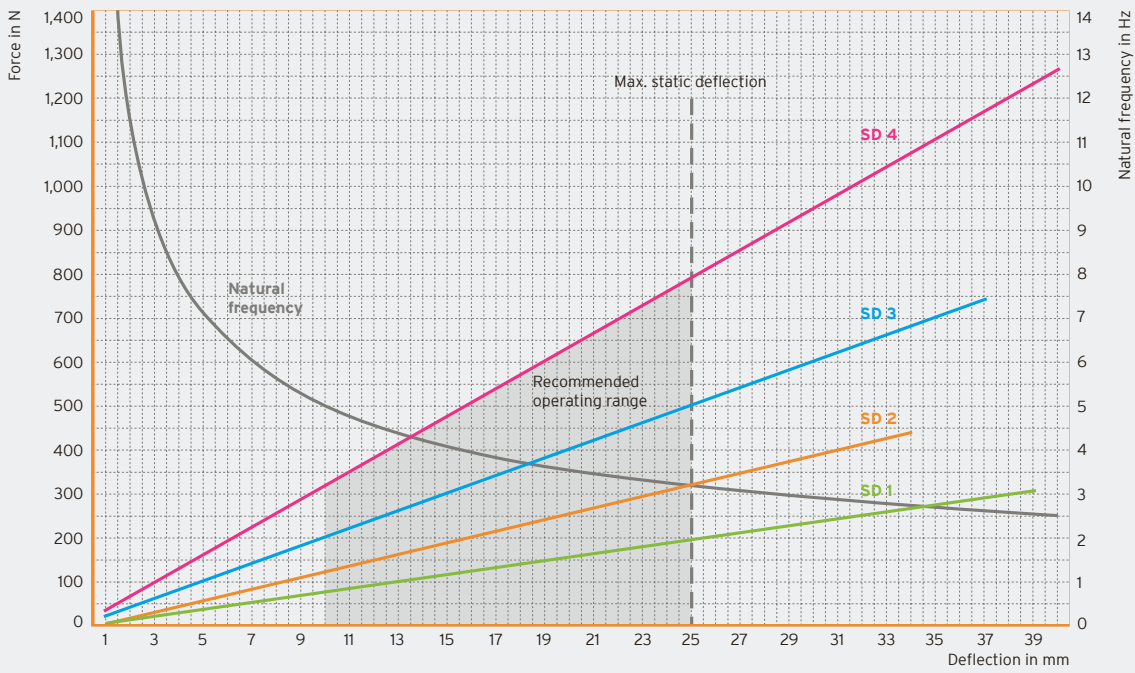


Bearing of belt-driven fans

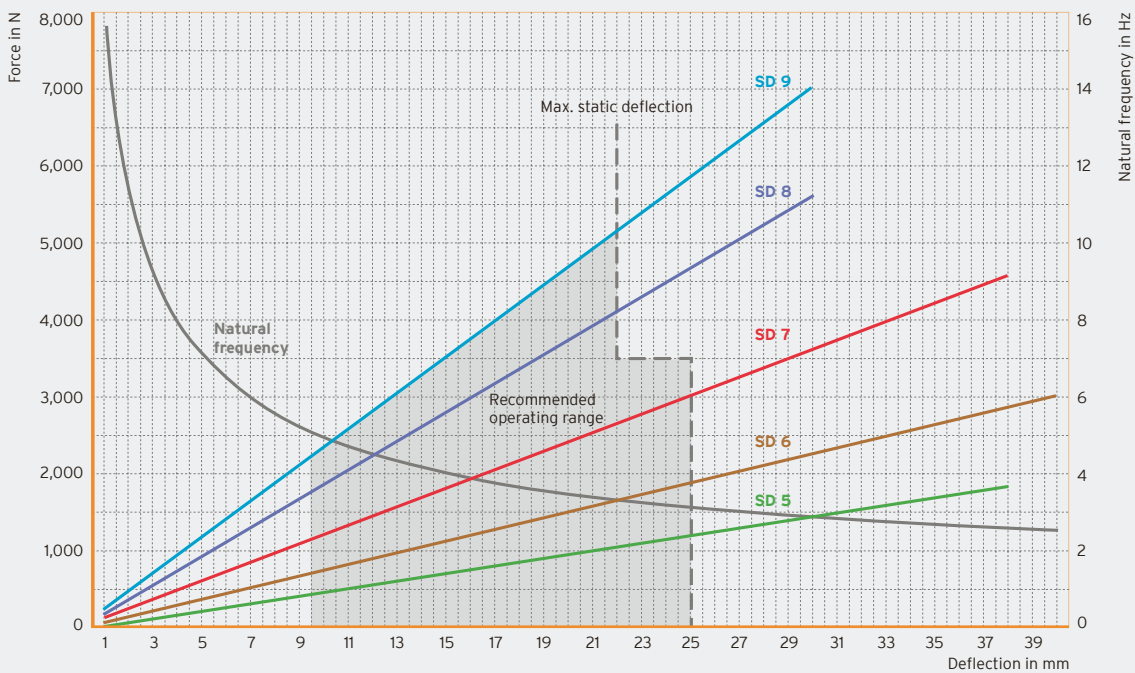


Industrial heat pump

**Isotop® SD 1– SD 4**



**Isotop® SD 5– SD 9**


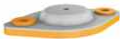






# Isotop® DSD

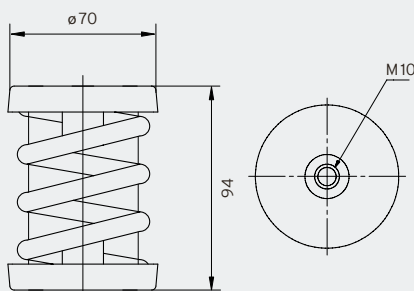
## Steel spring isolators with integrated high-performance dampers

- Natural frequency from 4.2Hz
- 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

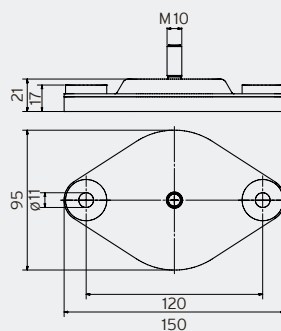
		Maximum load		Natural frequency at maximum load	Packaging unit	Order number
		in kg	in N			
<b>DSD spring element CDC</b> 	Isotop® DSD 1 CDC	24	235	5.6 Hz	50 pcs.	<b>39492</b>
	Isotop® DSD 2 CDC	39	383	4.9 Hz	50 pcs.	<b>39493</b>
	Isotop® DSD 3 CDC	57	559	4.8 Hz	50 pcs.	<b>39495</b>
	Isotop® DSD 4 CDC	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> 	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> 	Isotop® FP 1-9 CDC		for DSD 1 to 9	without screws	50 pcs.	<b>39537</b>
<b>Height adjustment for SD/DSD</b> 	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

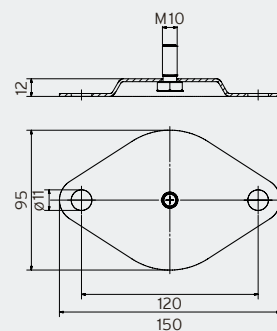
Isotop® DSD (unladen)



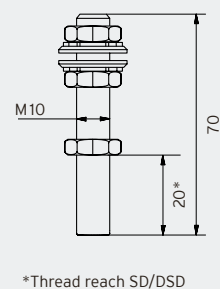
Isotop® FP/K



Isotop® FP



Isotop® NV 1-9



\*Thread reach SD/DSD

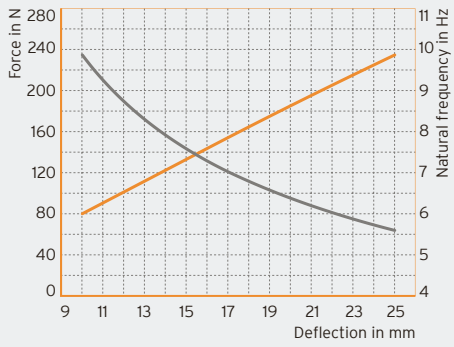


Small combined heat and power plant

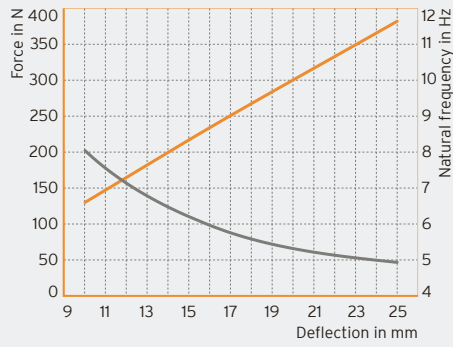


Roof-mounted recoler

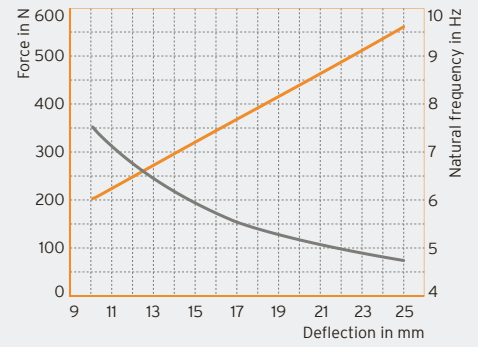
Isotop® DSD 1



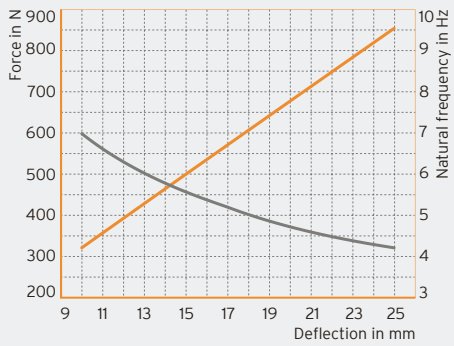
Isotop® DSD 2



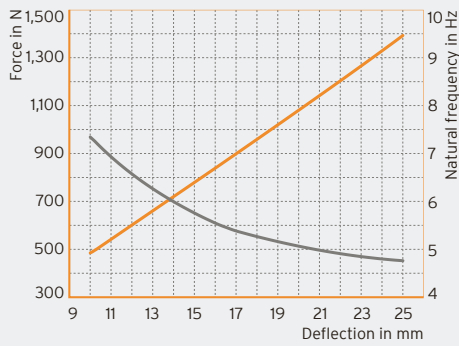
Isotop® DSD 3



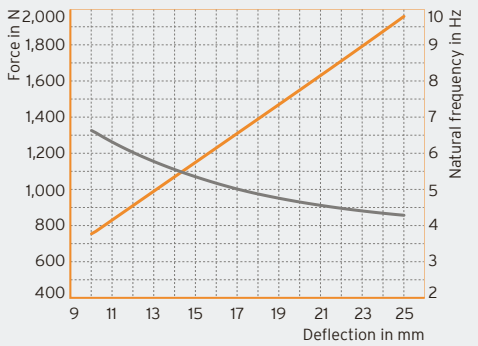
Isotop® DSD 4



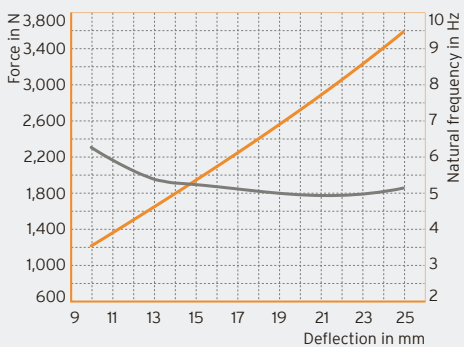
Isotop® DSD 5



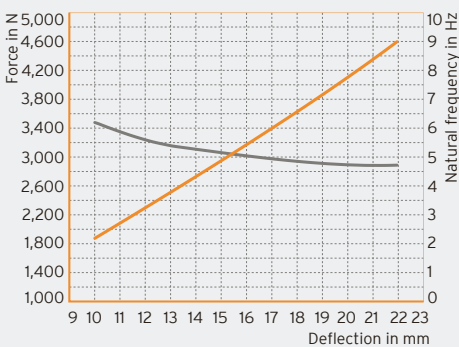
Isotop® DSD 6



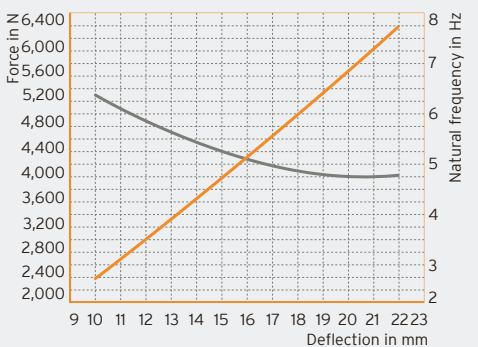
Isotop® DSD 7



Isotop® DSD 8



Isotop® DSD 9



— Force in N  
— Natural frequency in Hz



# Isotop® MSN-BL

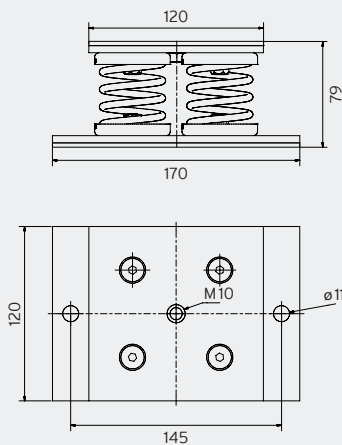
## MSN steel spring block element for low installation heights and high loads

- Natural frequency from 3.5Hz
- 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

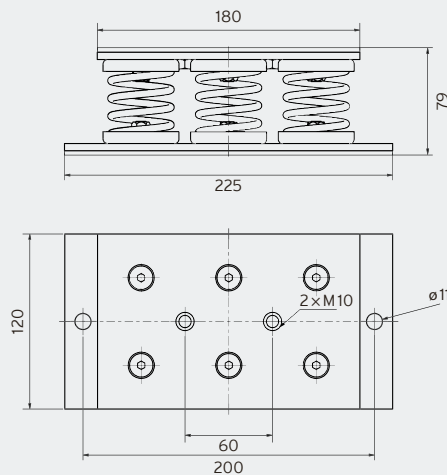
MSN-BL	Maximum load		Natural frequency at maximum load	Packaging unit	Order number
	in kg	in N			
Isotop® MSN-BL4-52/62	117	1,147	3.5 Hz	4 pcs.	<b>42407</b>
Isotop® MSN-BL4-74/80	212	2,079	3.5 Hz	4 pcs.	<b>42408</b>
Isotop® MSN-BL4-70/84	360	3,531	3.5 Hz	4 pcs.	<b>42410</b>
Isotop® MSN-BL6-72/84	465	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.

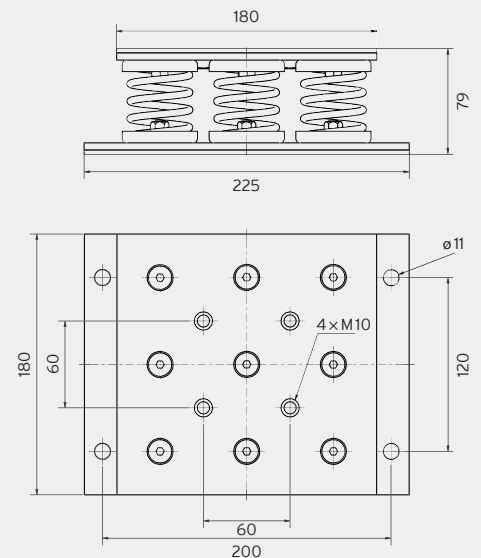
**Isotop® MSN-BL 4 (unladen)**



**Isotop® MSN-BL 6 (unladen)**



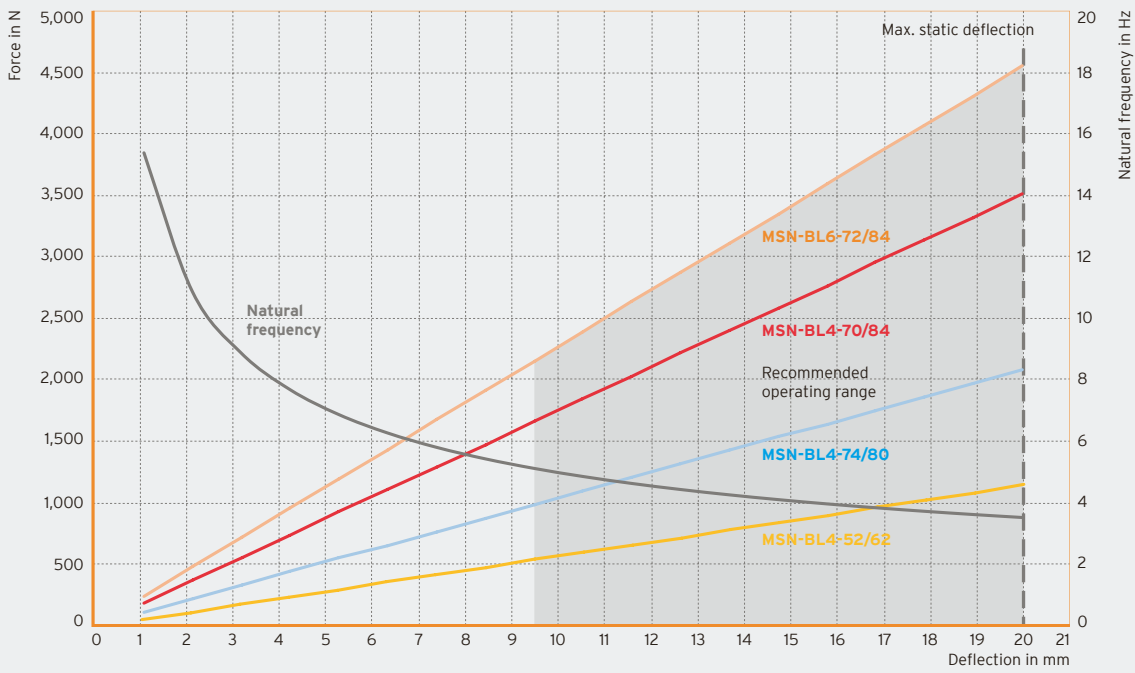
**Isotop® MSN-BL 9 (unladen)**



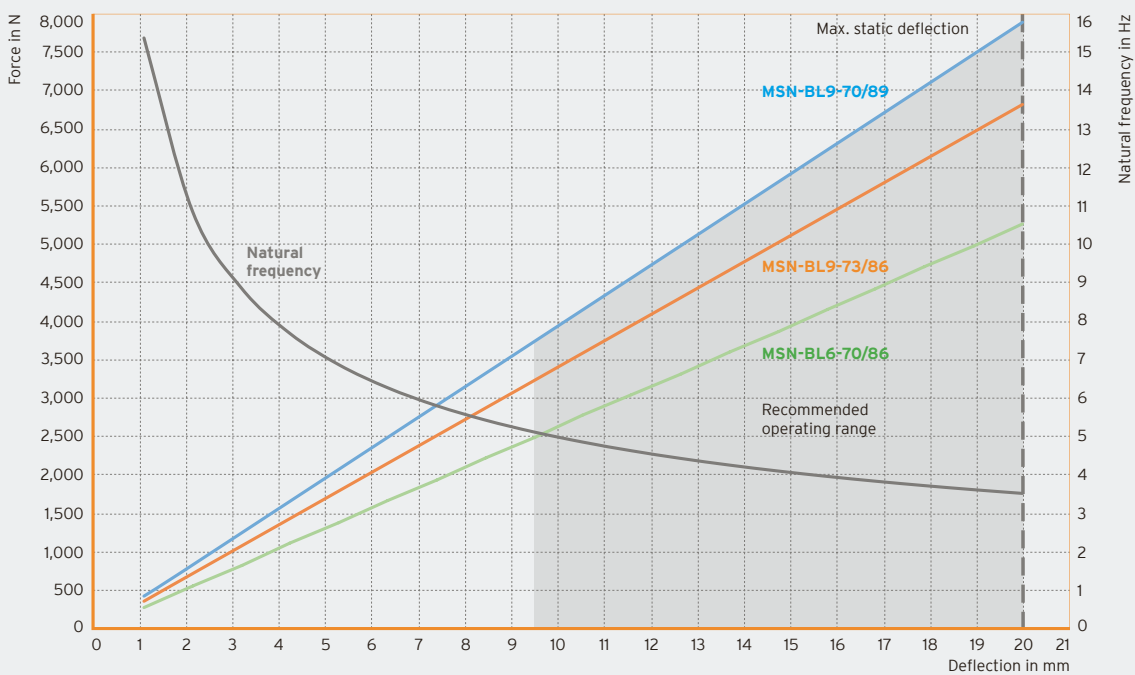


Bearing of duct silencer

**Isotop® MSN-BL 4-6**



**Isotop® MSN-BL 6-9**





# Isotop® DMSN-BL

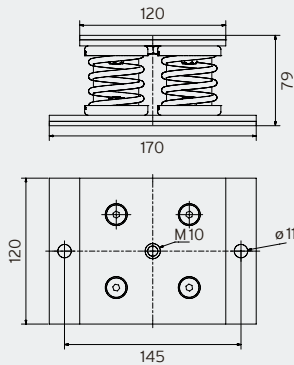
DMSN steel spring block element with high-performance damper for low installation heights and high loads

- 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

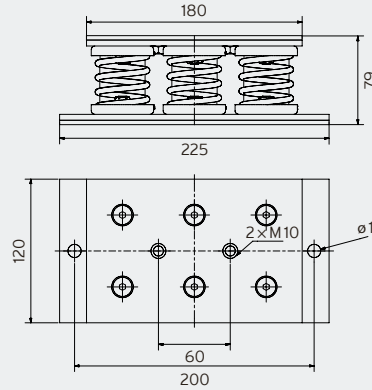
DMSN-BL		Maximum load		Natural frequency at maximum load	Packaging unit	Order number
		in kg	in N			
	Isotop® DMSN-BL4-62/72	215	2,109	6.6 Hz	4 pcs.	<b>42426</b>
	Isotop® DMSN-BL4-70/84	395	3,875	5.3 Hz	4 pcs.	<b>42427</b>
	Isotop® DMSN-BL6-72/84	520	5,101	5.5 Hz	10 pcs.	<b>42428</b>
	Isotop® DMSN-BL9-74/85	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.

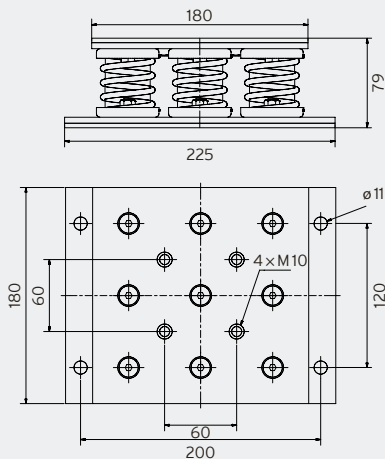
**Isotop® DMSN-BL 4 (unladen)**



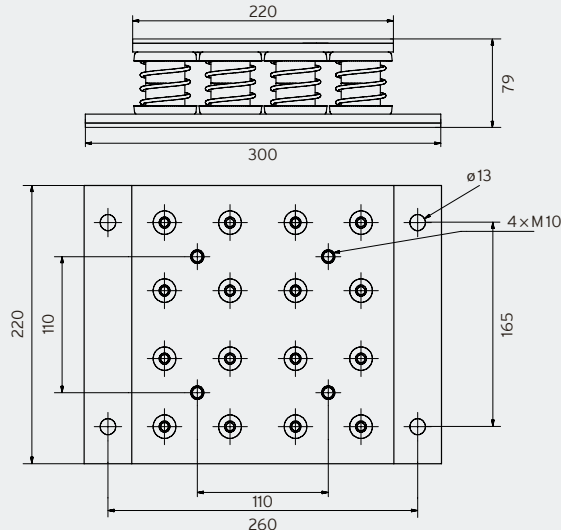
**Isotop® DMSN-BL 6 (unladen)**



**Isotop® DMSN-BL 9 (unladen)**



**Isotop® DMSN-BL 16 (unladen)**



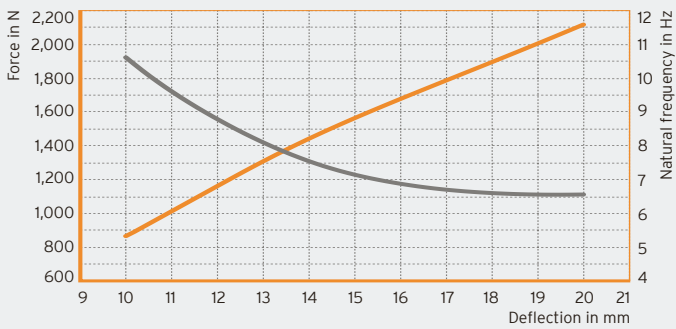


Base of a textile machine

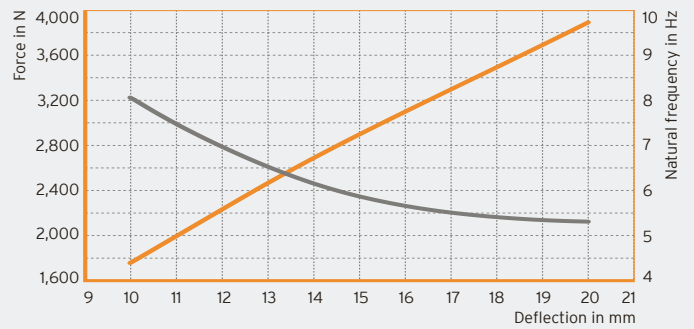


Small combined heat and power plant

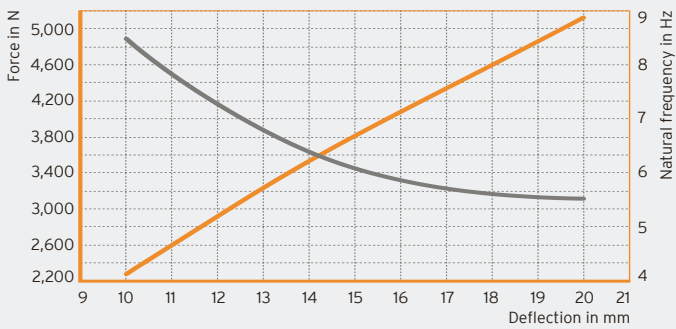
**Isotop® DMSN-BL4-62/72**



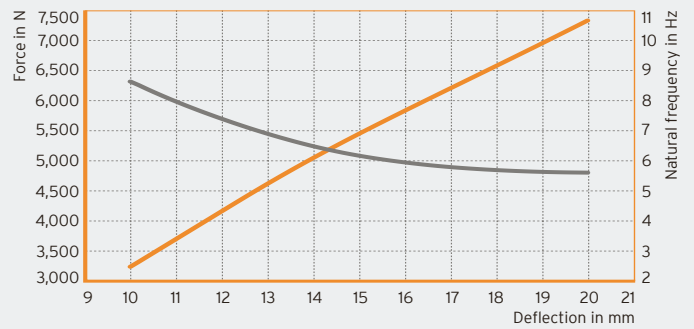
**Isotop® DMSN-BL4-70/84**



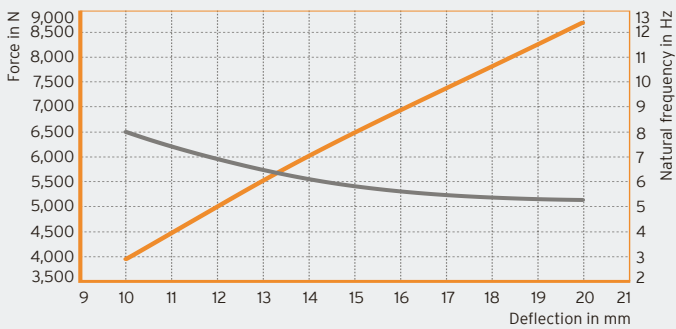
**Isotop® DMSN-BL6-72/84**



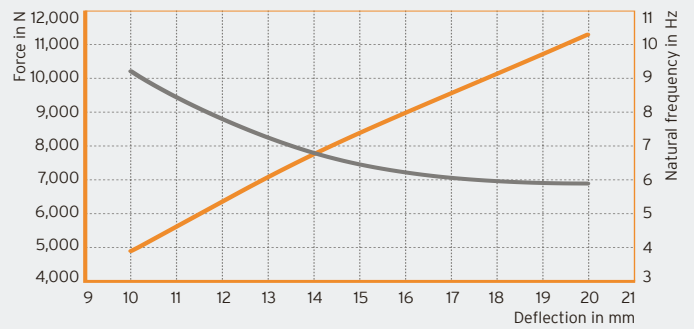
**Isotop® DMSN-BL9-74/85**



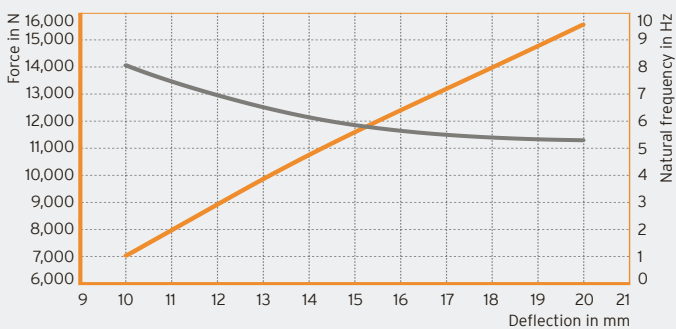
**Isotop® DMSN-BL9-70/89**



**Isotop® DMSN-BL16-712/804**



**Isotop® DMSN-BL16-700/816**



— Force in N  
— Natural frequency in Hz



# Isotop® SD-BL

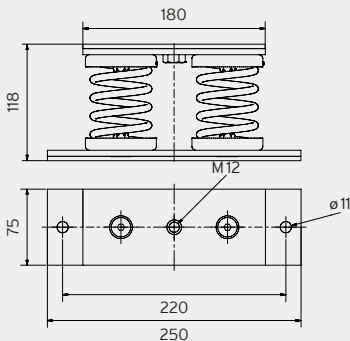
## SD steel spring block element

- 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

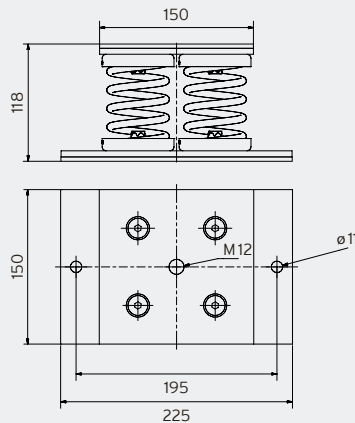
SD-BL	Maximum load		Natural frequency at maximum load	Packaging unit	Order number
	in kg	in N			
Isotop® SD-BL2-71/81	690	6,769	3.4 Hz	4 pcs.	<b>42417</b>
Isotop® SD-BL2-82/90	840	8,240	3.4 Hz	4 pcs.	<b>42418</b>
Isotop® SD-BL2-80/92	1,050	10,301	3.4 Hz	4 pcs.	<b>42419</b>
Isotop® SD-BL4-84/90	1,680	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.

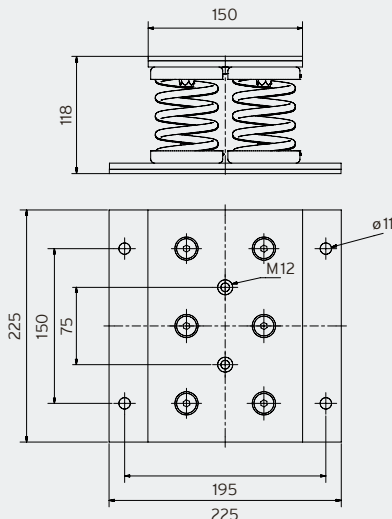
### Isotop® SD-BL 2 (unladen)



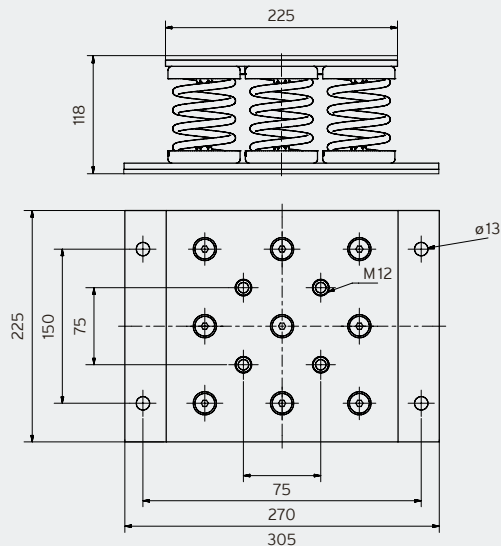
### Isotop® SD-BL 4 (unladen)



### Isotop® SD-BL 6 (unladen)



### Isotop® SD-BL 9 (unladen)





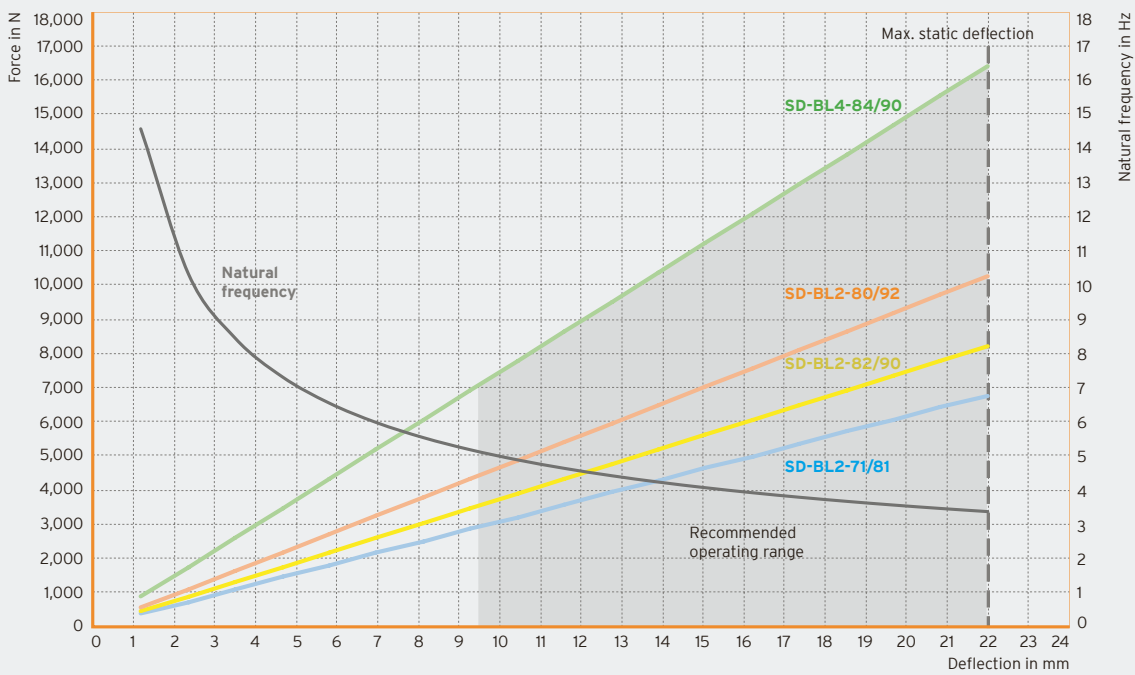


Bearing of pumps with additional mass

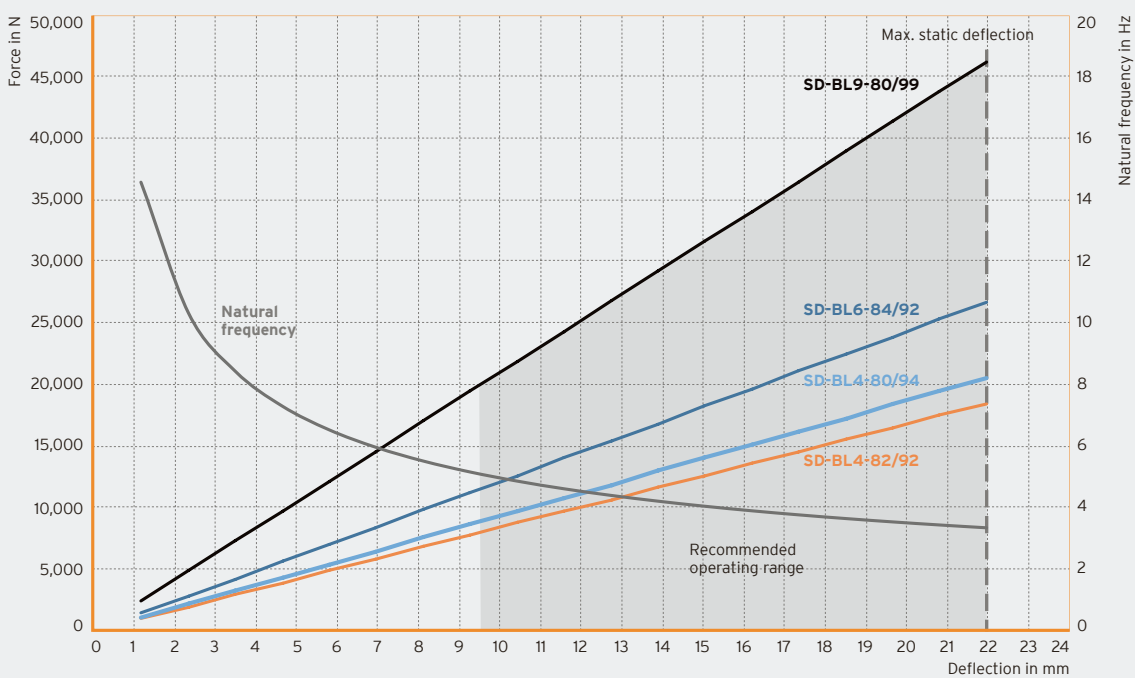


Roof-mounted AC system

### Isotop® SD-BL



### Isotop® SD-BL





# Isotop® DSD-BL

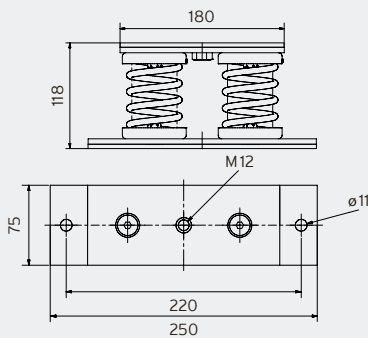
## DSD steel spring block element with high-performance damper

- Natural frequency from 4.3Hz
- 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 6mm 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

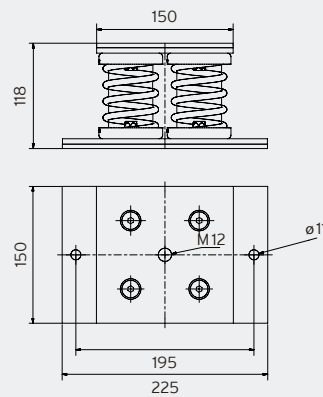
DSD-BL	Maximum load		Natural frequency at maximum load	Packaging unit	Order number
	in kg	in N			
Isotop® DSD-BL2-62/70	400	3,924	4.3 Hz	4 pcs.	<b>42430</b>
Isotop® DSD-BL2-72/80	730	7,161	5.2 Hz	4 pcs.	<b>42431</b>
Isotop® DSD-BL2-82/90	940	9,221	4.7 Hz	4 pcs.	<b>42432</b>
Isotop® DSD-BL2-81/91	1,120	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.

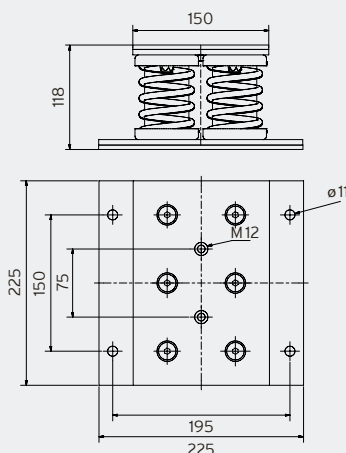
**Isotop® DSD-BL 2 (unladen)**



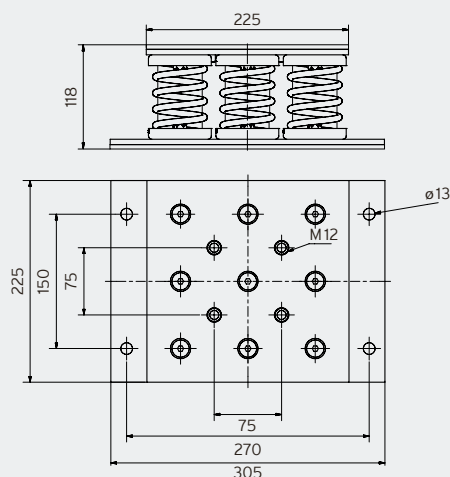
**Isotop® DSD-BL 4 (unladen)**



**Isotop® DSD-BL 6 (unladen)**



**Isotop® DSD-BL 9 (unladen)**



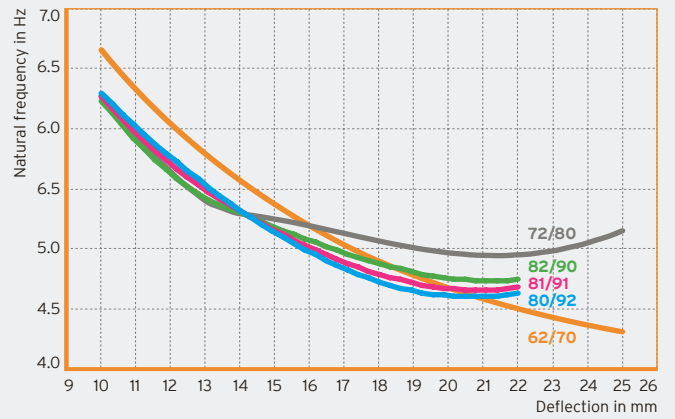
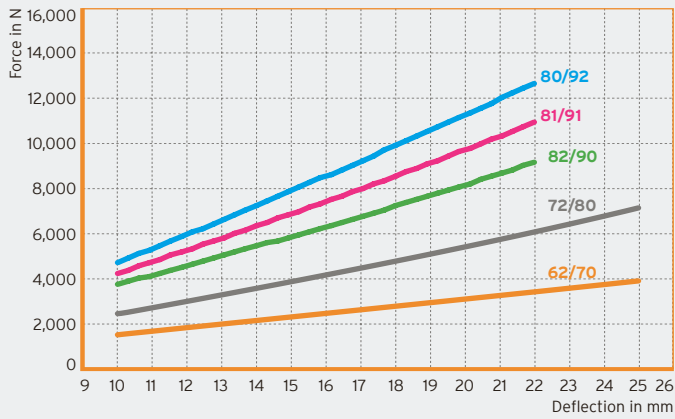


On-roof installation of an AC system with relatively high wind loads

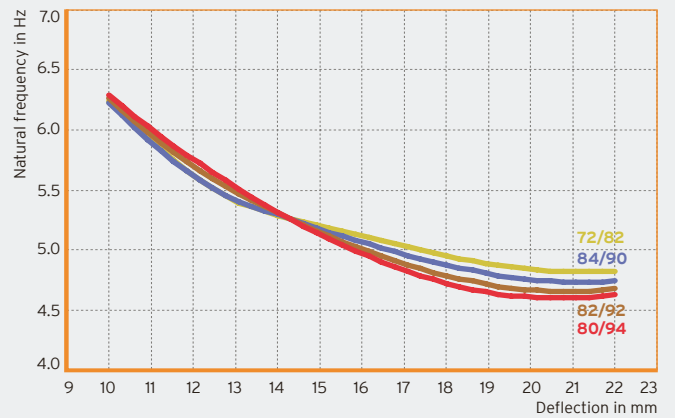
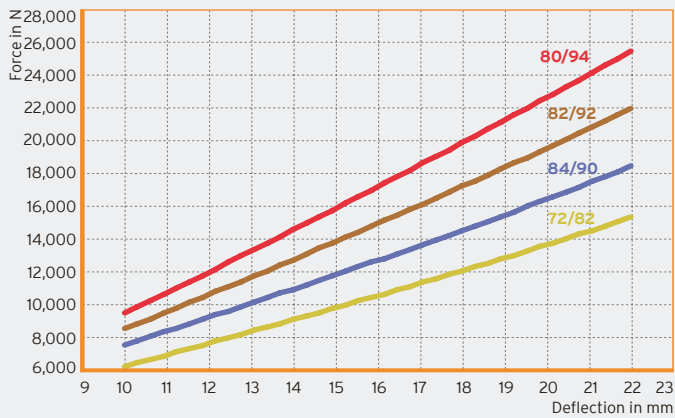


Large combined heat and power plant with several start-stop cycles

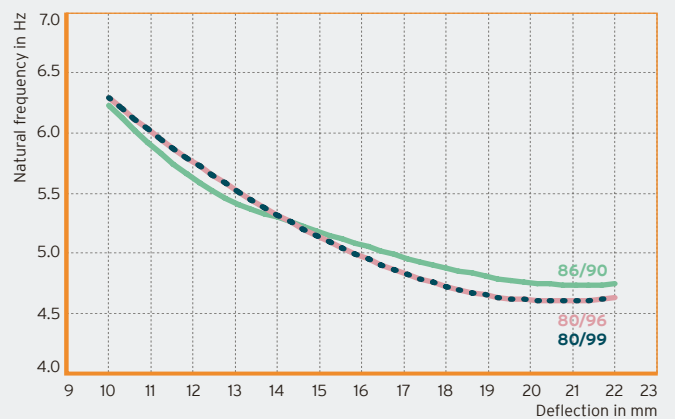
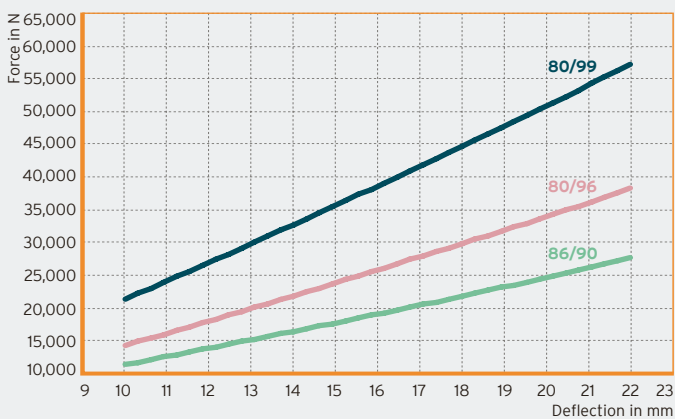
**Isotop® DSD-BL2**



**Isotop® DSD-BL4**



**Isotop® DSD-BL6 and DSD-BL9**








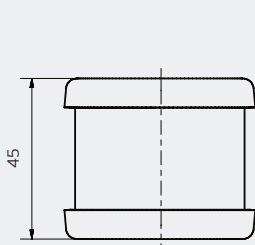
# Isotop® MSN-DAMP

## Vibration damper with metal caps and threaded fastening

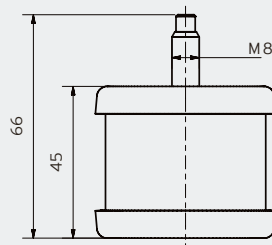
- Natural frequency from 7.9 Hz
- Low overall height of 45 mm (T/T version)
- Sylomer® inside
- Cathodic dip-coated (CDC) metal caps for increased corrosion protection
- Secure connection between the plate and the polyurethane damper thanks to special adhesive
- M8 internal thread and/or M8 stud bolts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

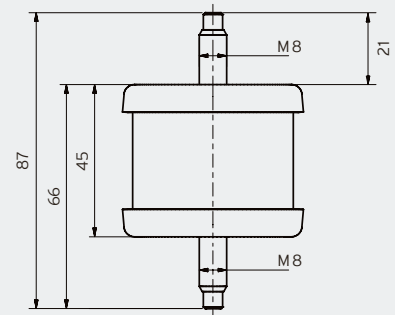
Isotop® MSN-DAMP T/T (unladen)



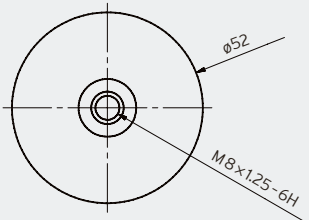
Isotop® MSN-DAMP B/T (unladen)



Isotop® MSN-DAMP B/B (unladen)



Thread reach into the internal thread max. approx. 15 mm plus material thickness of device frame



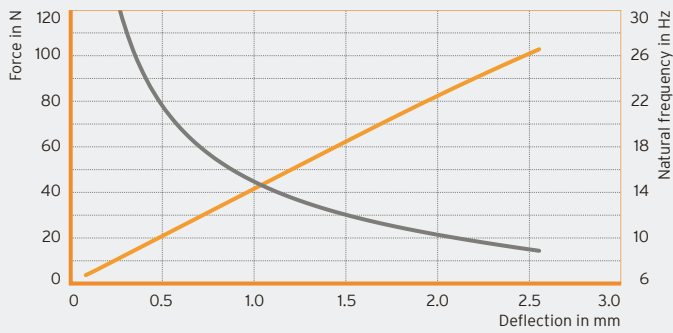


Bearing of a compressor assembly on an internal frame

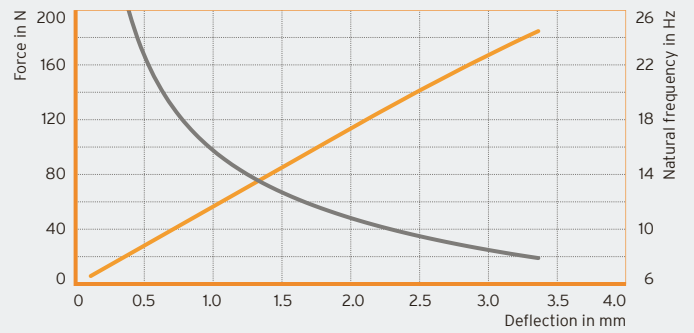


Compressor bearing concept with Sylomer® CGR and Isotop® MSN-DAMP

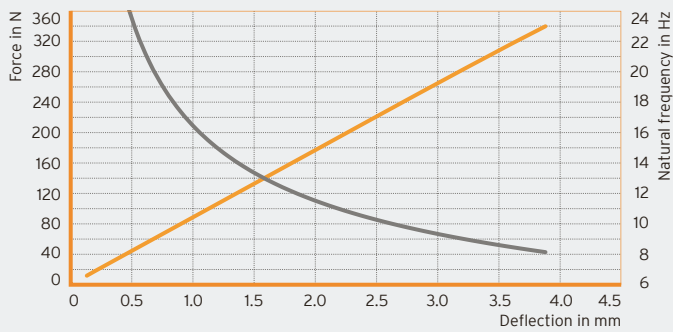
### Isotop® MSN-DAMP 110



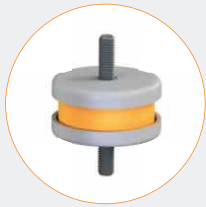
### Isotop® MSN-DAMP 170



### Isotop® MSN-DAMP 350



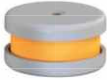
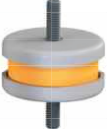
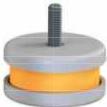

— Force in N  
— Natural frequency in Hz



# Isotop® Compact

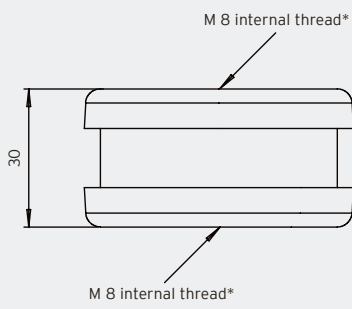
Vibration damper for low installation heights,  
with diverse attachment options

- 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)

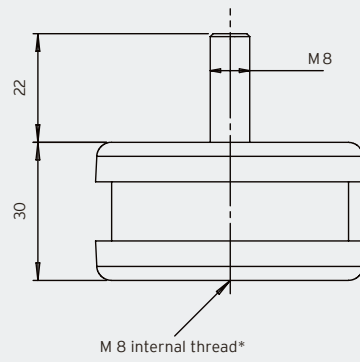
		Maximum load		Natural frequency at maximum load	Packaging unit	Order number
		in kg	in N			
<b>Compact T/T</b>  	Isotop® Compact-4 T/T	4	41	12.1Hz	50 pcs.	<b>39504</b>
	Isotop® Compact-9 T/T	9	93	10.3 Hz	50 pcs.	<b>39505</b>
	Isotop® Compact-15 T/T	15	147	11.5 Hz	50 pcs.	<b>39506</b>
	Isotop® Compact-20 T/T	27	264	10.7 Hz	50 pcs.	<b>39507</b>
	Isotop® Compact-40 T/T	40	392	10.1Hz	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>  	Isotop® Compact-4 B/B	4	41	12.1Hz	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	10.1Hz	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>  	Isotop® Compact-4 B/T	4	41	12.1Hz	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	10.1Hz	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>  	Isotop® Compact-4 B/-	4	41	12.1Hz	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	10.1Hz	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

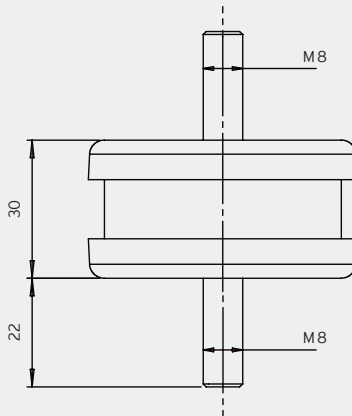
**Isotop® Compact T/T** (unladen)



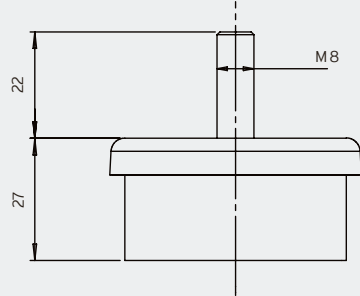
**Isotop® Compact B/T** (unladen)



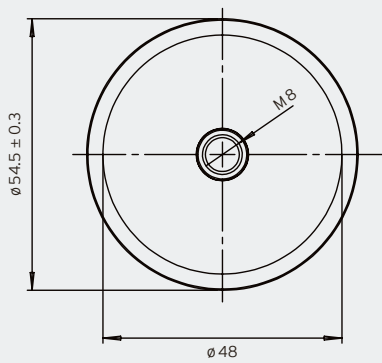
**Isotop® Compact B/B** (unladen)

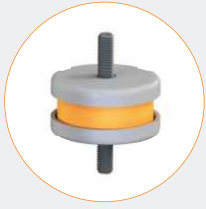


**Isotop® Compact B/-** (unladen)



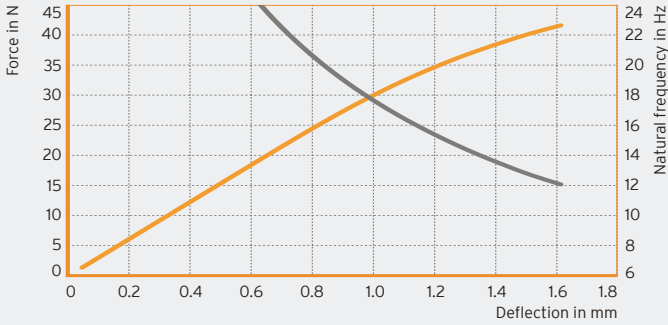
\* Thread reach for internal thread maximum 7 mm



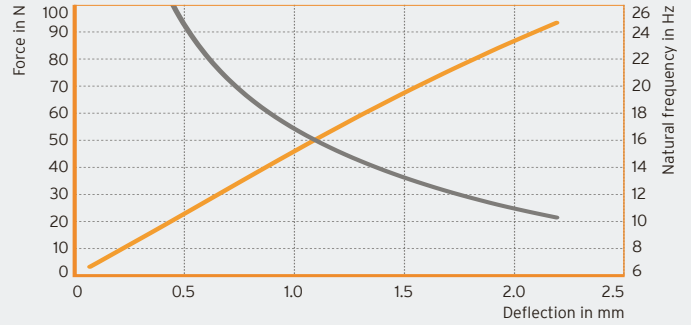


# Isotop® Compact

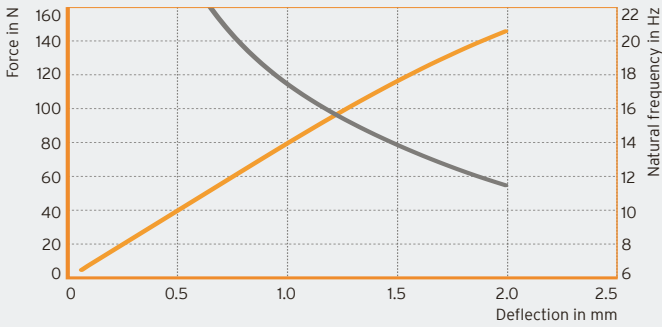
**Isotop® Compact 4**



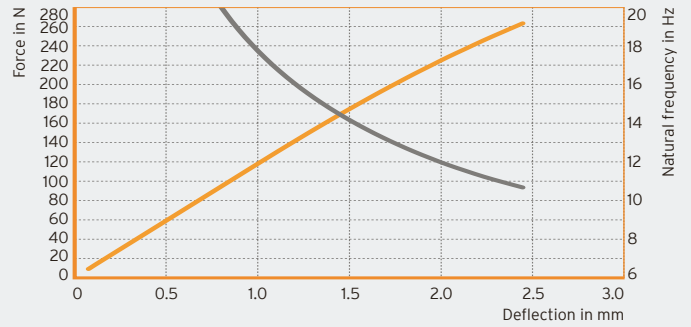
**Isotop® Compact 9**



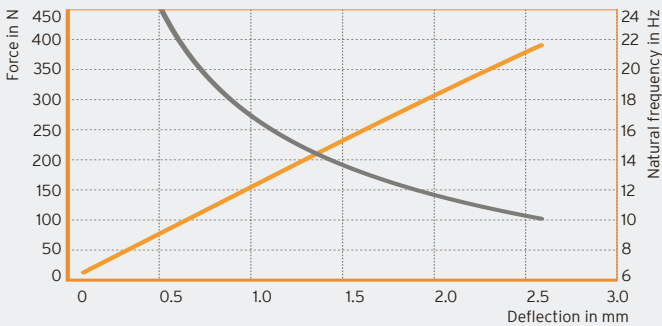
**Isotop® Compact 15**



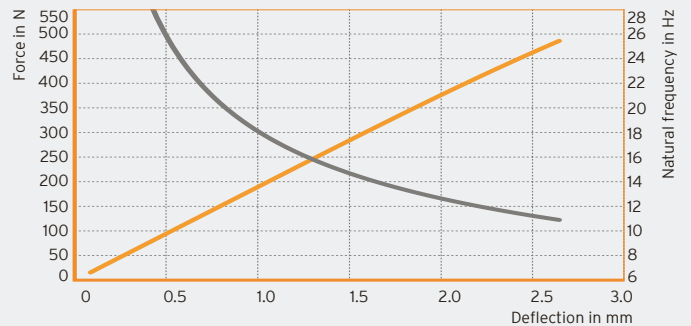
**Isotop® Compact 20**



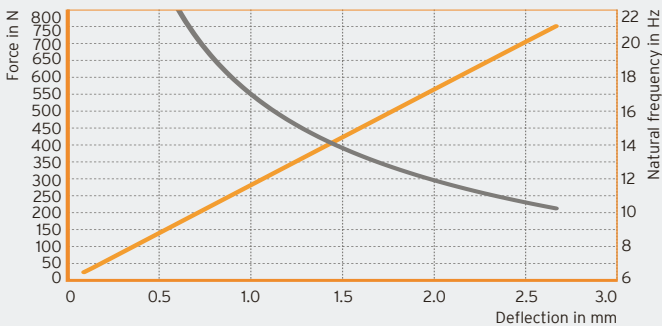
**Isotop® Compact 40**



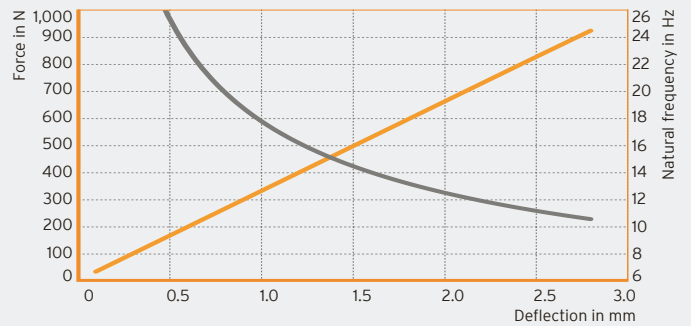
**Isotop® Compact 50**



**Isotop® Compact 70**

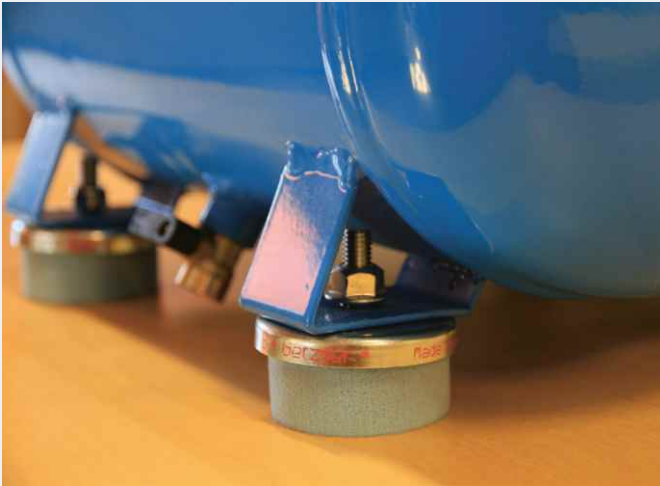


**Isotop® Compact 100**



— Force in N  
 — Natural frequency in Hz





Small compressed air compressor on Compact B/-



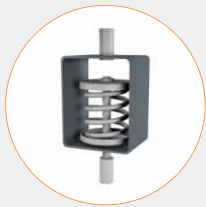
Isotop® Compact with various attachment options



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 3.2Hz
- 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 at maximum load	Packaging unit	Order number
		in kg	in N			
 <b>MSN/Z</b>	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>	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>	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).

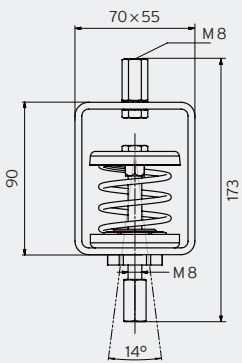


Decoupled pipes with SD/Z

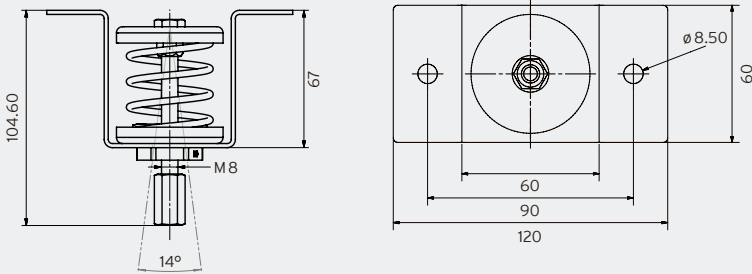


Ceiling hanger MSN/Z-LC

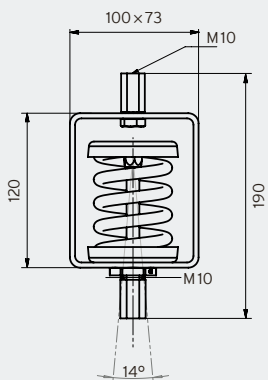
**MSN/Z (unladen)**

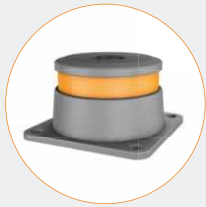


**MSN/Z-LC (unladen)**



**SD/Z (unladen)**

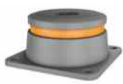


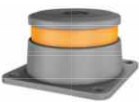



# Isotop® DZE

## 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		Natural frequency at maximum load	Packaging unit	Order number
		in kg	in N			
<b>DZE Mini</b> 	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> 	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> 	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!



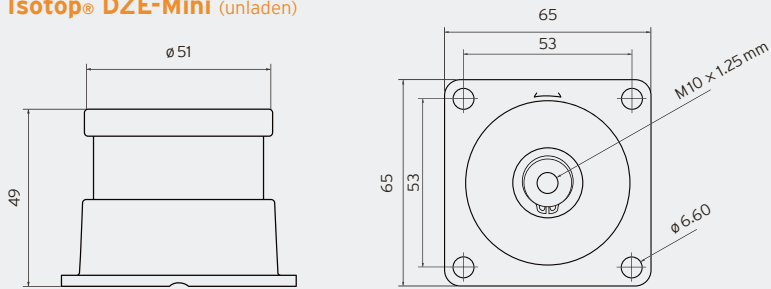


Recoiler with Isotop® DZE to counter very high wind loads



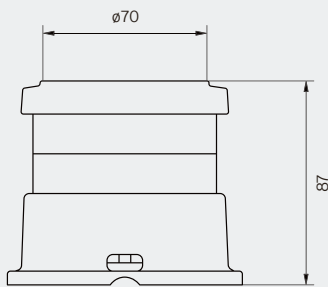
Pump with Isotop® DZE to compensate for high dynamic operating forces

**Isotop® DZE-Mini (unladen)**

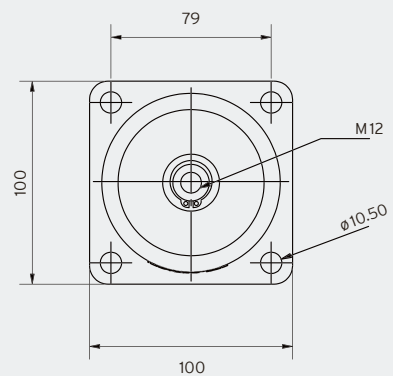
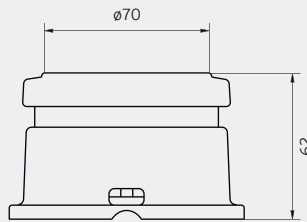


Please note: a 1.25 mm fine-pitch thread is required to make the connection

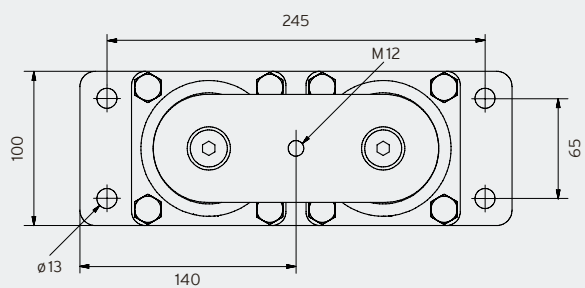
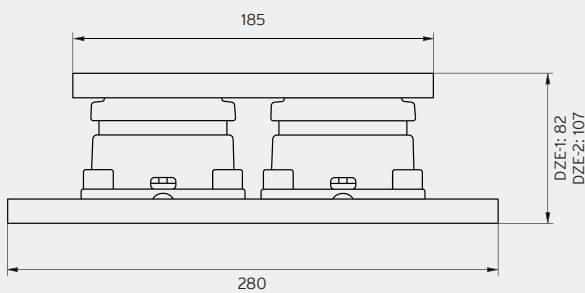
**Isotop® DZE-2 (unladen)**



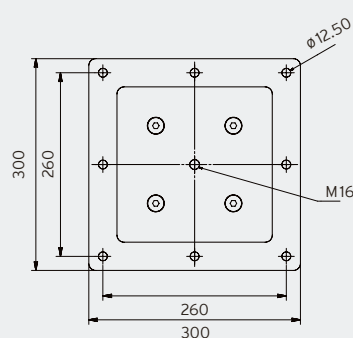
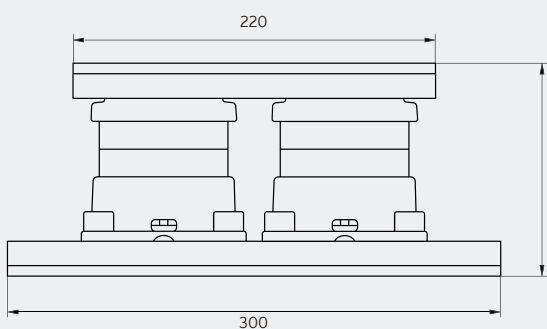
**Isotop® DZE-1 (unladen)**



**Isotop® DZE-x-BL2 (unladen)**



**Isotop® DZE-x-BL4 (unladen)**








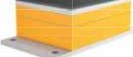


# Isotop® SE




## Sandwich element with steel plate

- Natural frequency from 6 Hz
- Top plate fitted with 6 mm Sylomer® anti-slip plate
- 10 mm galvanised steel plate for pressure distribution
- Available with 1, 2 or 3 layers of Sylomer®
- M12 internal thread for easy screw-fixing
- Also especially suitable for devices with narrow base frames
- Quick and easy to install

			Maximum load		Natural frequency at maximum load	Packaging unit	Order number
			in kg	in N			
<b>SE with anti-slip plate</b>   	Isotop® SE 12-1	Single layer	125	1,226	12.2 Hz	4 pcs.	<b>39656</b>
	Isotop® SE 12-2	Double layer	120	1,177	8.2 Hz	4 pcs.	<b>39657</b>
	Isotop® SE 12-3	Triple layer	116	1,137	6.4 Hz	4 pcs.	<b>39292</b>
	Isotop® SE 15-1	Single layer	165	1,618	11.7 Hz	4 pcs.	<b>39658</b>
	Isotop® SE 15-2	Double layer	156	1,530	7.9 Hz	4 pcs.	<b>39659</b>
	Isotop® SE 15-3	Triple layer	150	1,472	6.3 Hz	4 pcs.	<b>39293</b>
	Isotop® SE 30-1	Single layer	325	3,188	11.8 Hz	4 pcs.	<b>39660</b>
	Isotop® SE 30-2	Double layer	300	2,943	8.1 Hz	4 pcs.	<b>39661</b>
	Isotop® SE 30-3	Triple layer	285	2,795	6.5 Hz	4 pcs.	<b>39662</b>
	Isotop® SE 50-1	Single layer	635	6,229	10.8 Hz	4 pcs.	<b>39663</b>
	Isotop® SE 50-2	Double layer	570	5,591	7.5 Hz	4 pcs.	<b>39664</b>
	Isotop® SE 50-3	Triple layer	525	5,150	6.0 Hz	4 pcs.	<b>39335</b>
	Isotop® SE 100-1	Single layer	1,260	12,360	10.9 Hz	4 pcs.	<b>39675</b>
Isotop® SE 100-2	Double layer	1,090	10,692	7.6 Hz	4 pcs.	<b>39676</b>	
Isotop® SE 100-3	Triple layer	1,000	9,810	6.2 Hz	4 pcs.	<b>39677</b>	

<b>SE with anti-slip plate and base plate</b>   	Isotop® SE 12-1	Single layer	125	1,226	12.2 Hz	20 pcs.	<b>44165</b>
	Isotop® SE 12-2	Double layer	120	1,177	8.2 Hz	20 pcs.	<b>44167</b>
	Isotop® SE 12-3	Triple layer	116	1,137	6.4 Hz	20 pcs.	<b>44168</b>
	Isotop® SE 15-1	Single layer	165	1,618	11.7 Hz	20 pcs.	<b>44169</b>
	Isotop® SE 15-2	Double layer	156	1,530	7.9 Hz	20 pcs.	<b>44170</b>
	Isotop® SE 15-3	Triple layer	150	1,472	6.3 Hz	20 pcs.	<b>44171</b>
	Isotop® SE 30-1	Single layer	325	3,188	11.8 Hz	20 pcs.	<b>44172</b>
	Isotop® SE 30-2	Double layer	300	2,943	8.1 Hz	20 pcs.	<b>44174</b>
	Isotop® SE 30-3	Triple layer	285	2,795	6.5 Hz	20 pcs.	<b>44175</b>
	Isotop® SE 50-1	Single layer	635	2,229	10.8 Hz	20 pcs.	<b>44240</b>
	Isotop® SE 50-2	Double layer	570	5,591	7.5 Hz	20 pcs.	<b>44241</b>
	Isotop® SE 50-3	Triple layer	525	5,150	6.0 Hz	20 pcs.	<b>44242</b>
	Isotop® SE 100-1	Single layer	1,260	12,360	10.9 Hz	20 pcs.	<b>44243</b>
Isotop® SE 100-2	Double layer	1,090	10,692	7.6 Hz	20 pcs.	<b>44244</b>	
Isotop® SE 100-3	Triple layer	1,000	9,810	6.2 Hz	20 pcs.	<b>44245</b>	

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

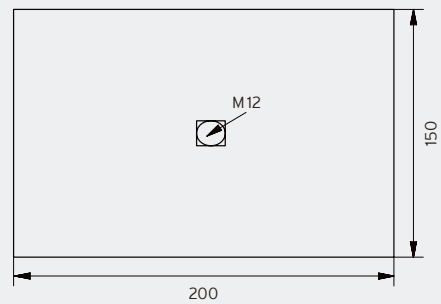
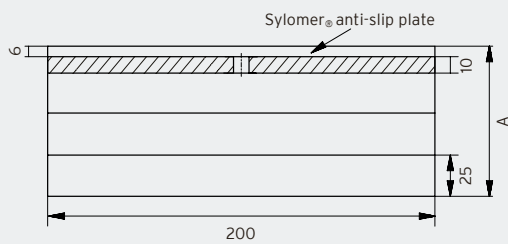
<b>SE with base plate and pressure-distribution plate</b>   	Isotop® SE 12-1	Single layer	125	1,226	12.2 Hz	20 pcs.	<b>44246</b>
	Isotop® SE 12-2	Double layer	120	1,177	8.2 Hz	20 pcs.	<b>44247</b>
	Isotop® SE 12-3	Triple layer	116	1,137	6.4 Hz	20 pcs.	<b>44248</b>
	Isotop® SE 15-1	Single layer	165	1,618	11.7 Hz	20 pcs.	<b>44249</b>
	Isotop® SE 15-2	Double layer	156	1,530	7.9 Hz	20 pcs.	<b>44250</b>
	Isotop® SE 15-3	Triple layer	150	1,472	6.3 Hz	20 pcs.	<b>44251</b>
	Isotop® SE 30-1	Single layer	325	3,188	11.8 Hz	20 pcs.	<b>44253</b>
	Isotop® SE 30-2	Double layer	300	2,943	8.1 Hz	20 pcs.	<b>44256</b>
	Isotop® SE 30-3	Triple layer	285	2,795	6.5 Hz	20 pcs.	<b>44257</b>
	Isotop® SE 50-1	Single layer	635	2,229	10.8 Hz	20 pcs.	<b>44258</b>
	Isotop® SE 50-2	Double layer	570	5,591	7.5 Hz	20 pcs.	<b>44259</b>
	Isotop® SE 50-3	Triple layer	525	5,150	6.0 Hz	20 pcs.	<b>44260</b>
	Isotop® SE 100-1	Single layer	1,260	12,360	10.9 Hz	20 pcs.	<b>44261</b>
Isotop® SE 100-2	Double layer	1,090	10,692	7.6 Hz	20 pcs.	<b>44262</b>	
Isotop® SE 100-3	Triple layer	1,000	9,810	6.2 Hz	20 pcs.	<b>44263</b>	

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



On-roof installation of an AC enclosure

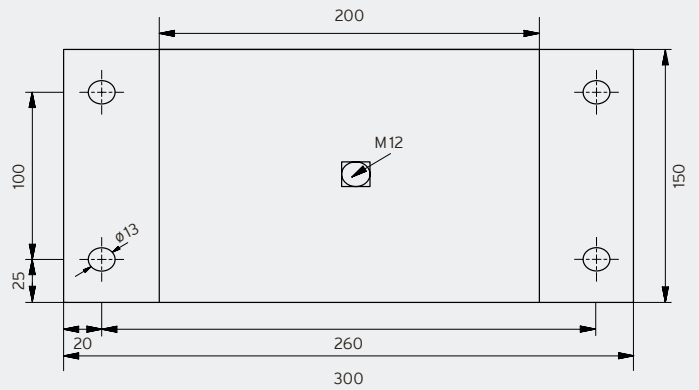
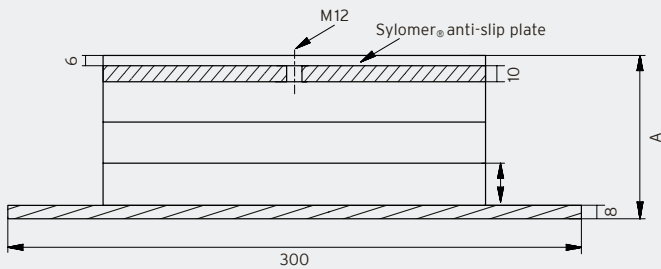
**Isotop® SE with anti-slip plate (unladen)**



**Overall height [A]:**

SE-xx-1	A = 41 mm
SE-xx-2	A = 66 mm
SE-xx-3	A = 91 mm

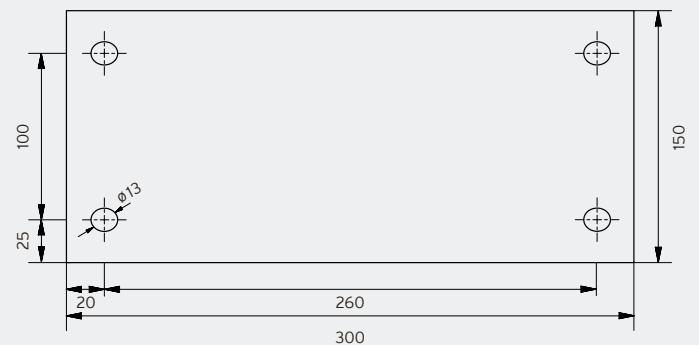
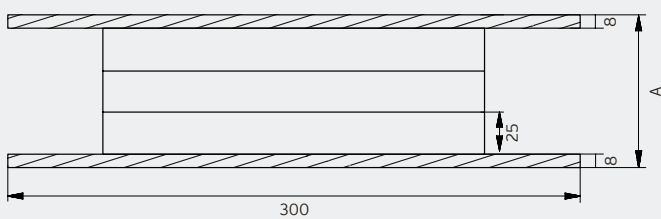
**Isotop® SE with anti-slip plate and base plate (unladen)**



**Overall height [A]:**

SE-xx-1	A = 49 mm
SE-xx-2	A = 73 mm
SE-xx-3	A = 99 mm

**Isotop® SE with pressure-distribution plate and base plate (unladen)**



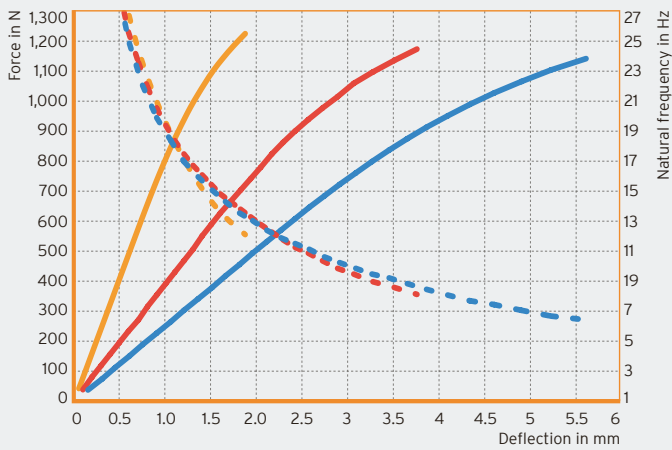
**Overall height [A]:**

SE-xx-1	A = 41 mm
SE-xx-2	A = 66 mm
SE-xx-3	A = 91 mm

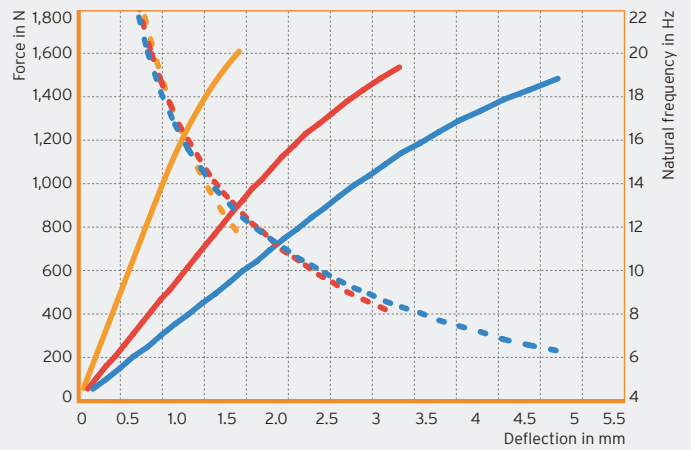


# Isotop® SE

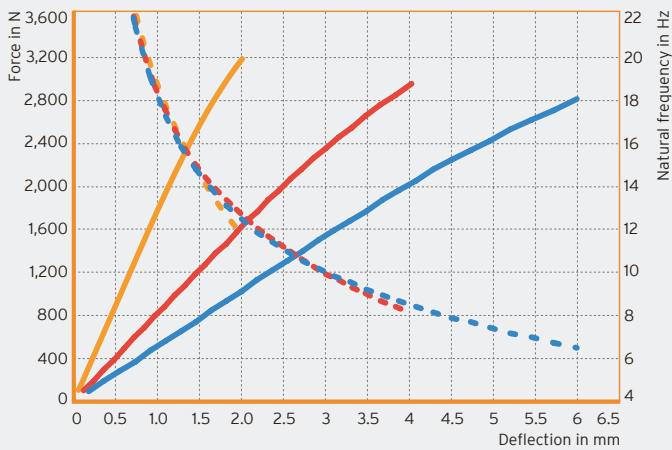
**Isotop® SE 12**



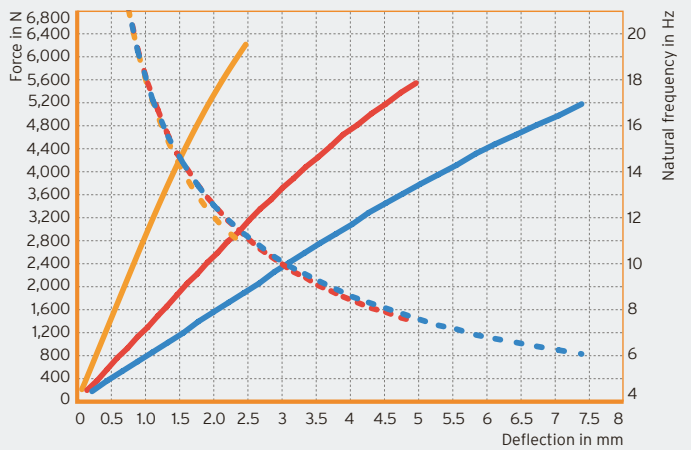
**Isotop® SE 15**



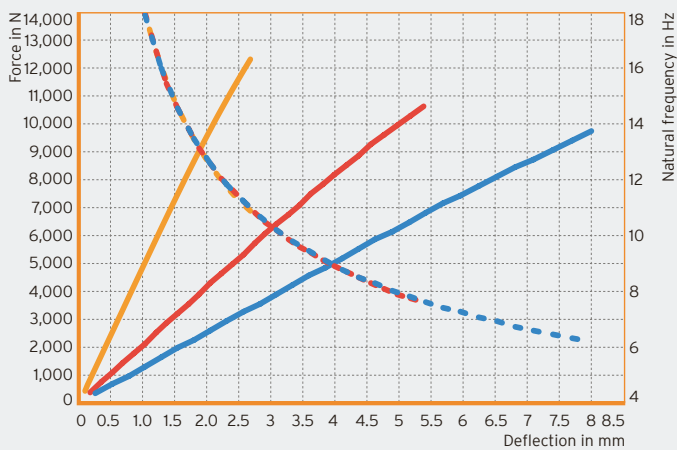
**Isotop® SE 30**



**Isotop® SE 50**



**Isotop® SE 100**

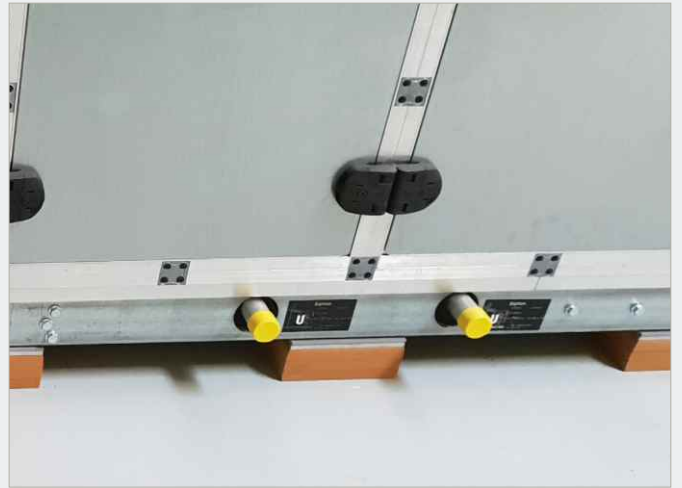


- Force in N - single layer
- Force in N - double layer
- Force in N - triple layer
- - - Natural frequency in Hz - single layer
- - - Natural frequency in Hz - double layer
- - - Natural frequency in Hz - triple layer





Bearing of an AC unit in the building



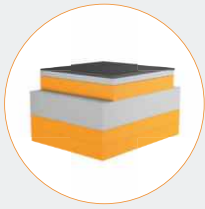
Isotop® SE triple layer



Ventilation unit with Isotop® SE bearing



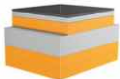
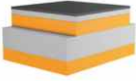
Installation of AC unit on Isotop® SE



# Isotop® SE-DE and SE-DE Elevator

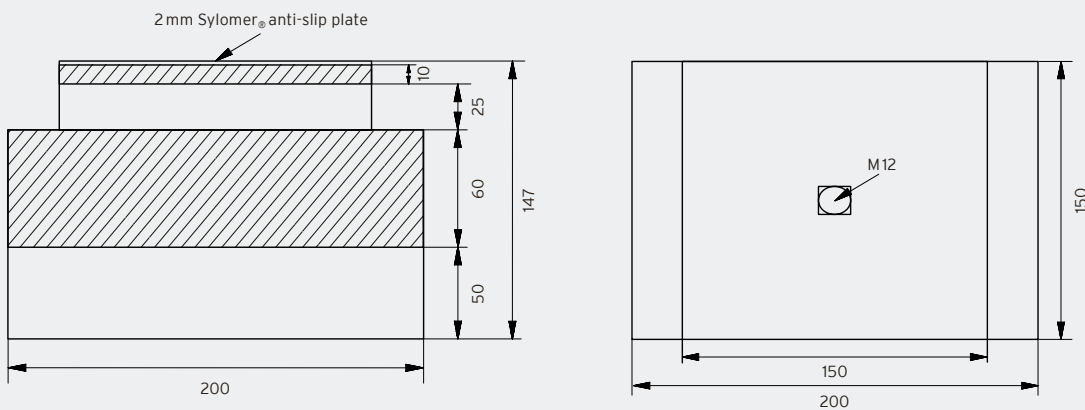
## Sandwich element with double-elastic bearing

- Natural frequency from 6.6Hz
- Sylomer® or Syldyn® 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

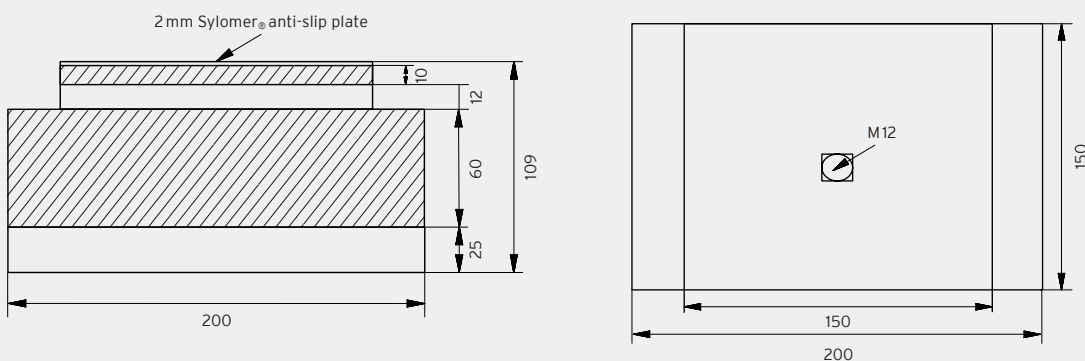
		Maximum load		Natural frequency at maximum load	Packaging unit	Order number
		in kg	in N			
 SE-DE	Isotop® SE-DE 10	105	1,030	6.6Hz	4 pcs.	<b>42387</b>
	Isotop® SE-DE 13	142	1,393	7.0Hz	4 pcs.	<b>39684</b>
	Isotop® SE-DE 30	285	2,795	7.0Hz	4 pcs.	<b>39685</b>
	Isotop® SE-DE 50	550	5,395	6.6Hz	4 pcs.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



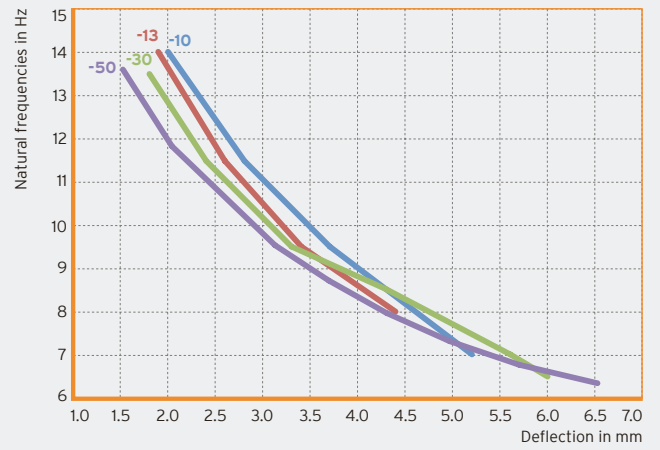
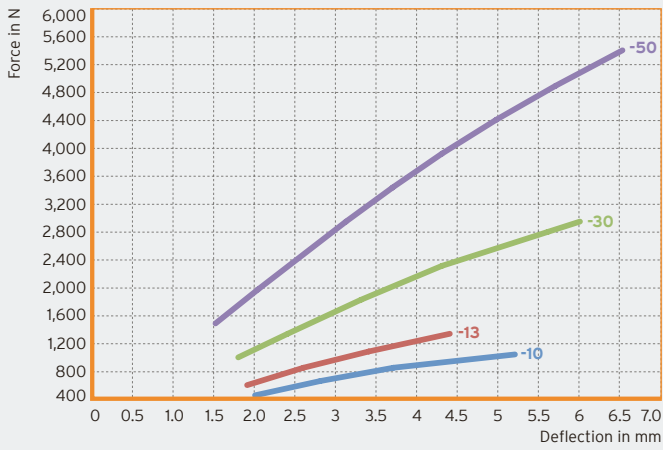


Bearing of a lift system with overhead cable guide

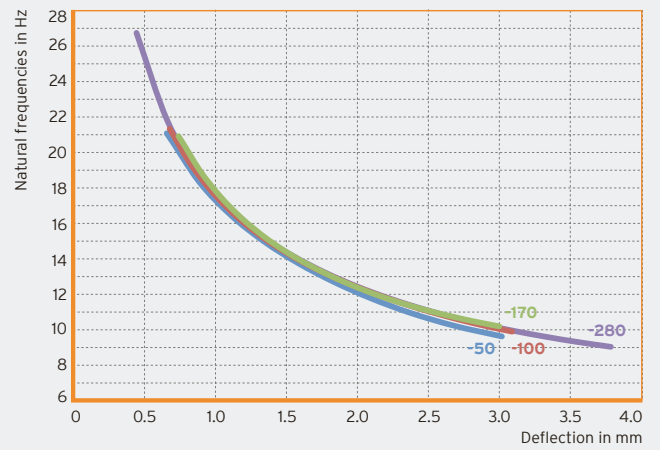
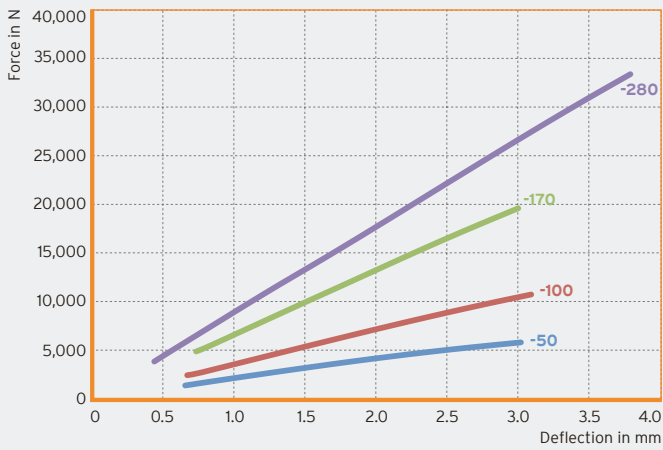


Chiller indoor unit

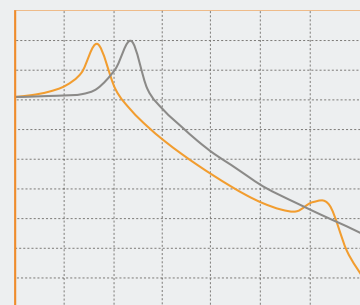
**Isotop® SE-DE**



**Isotop® SE-DE Elevator**



**Double elastic element vs. single elastic element**




— Double elastic — Single elastic



# Isotop® ENI

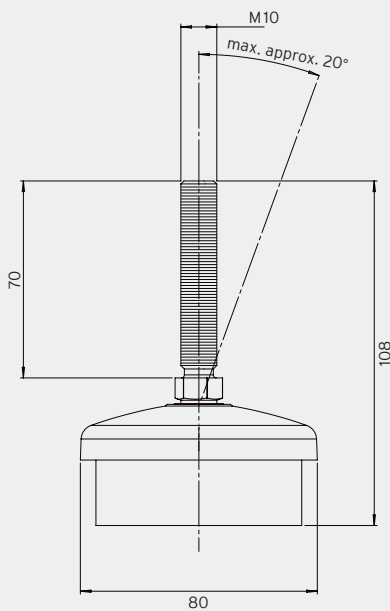
## Structure-borne noise-insulated machine base with ball-and-socket joint

- 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.

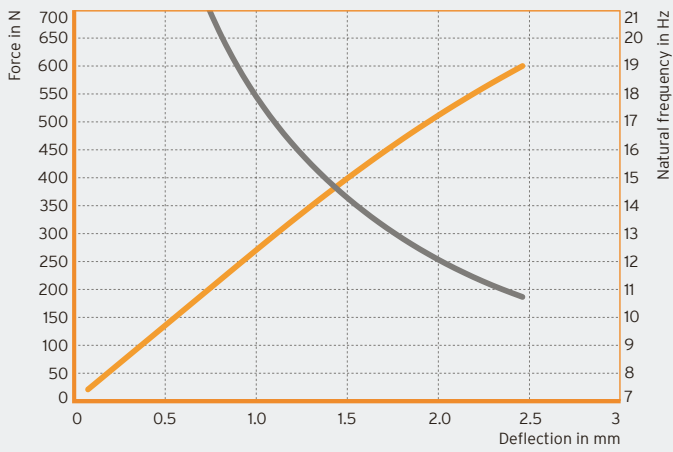
### Isotop® ENI-xx-25-80 (unladen)



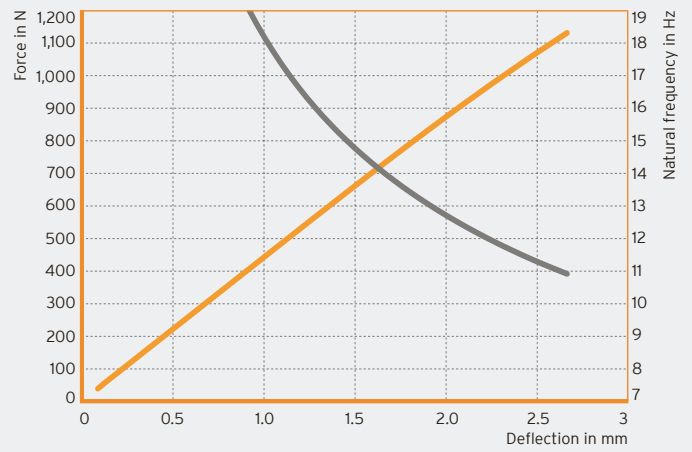


AC system installed in cellar

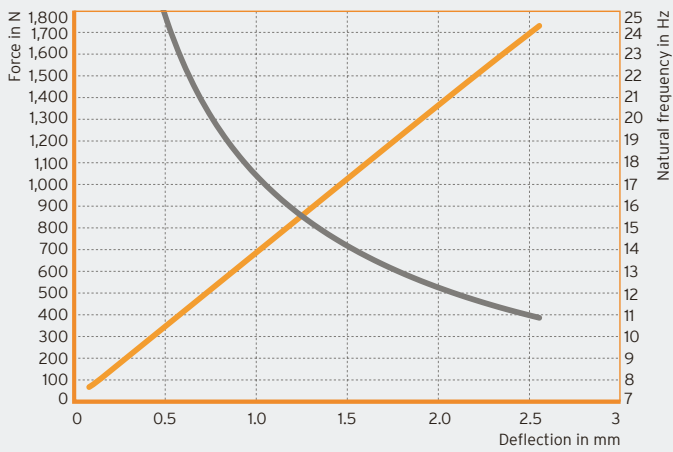
**Isotop® ENI 60-25-80**



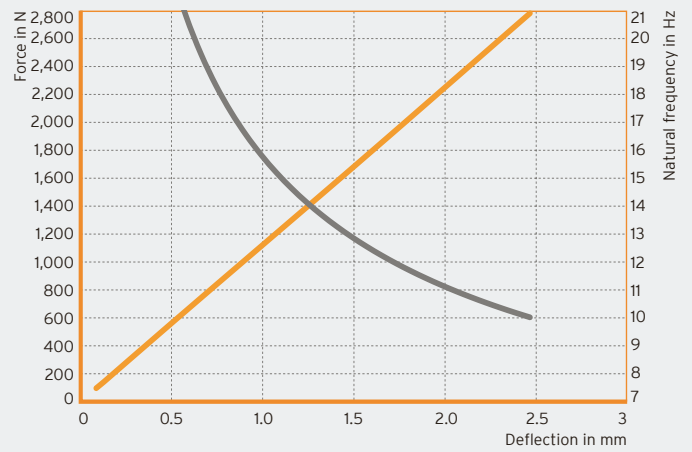
**Isotop® ENI 115-25-80**



**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

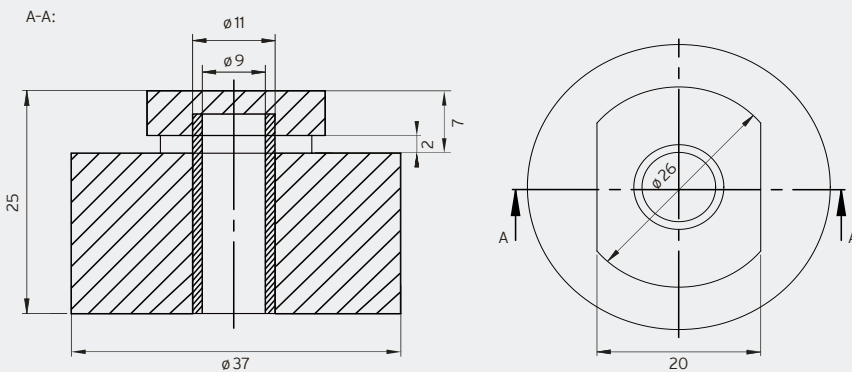
	Type	Dimension	Maximum load		Natural frequency at maximum load	Packaging unit	Order number
			in kg	in N			
<b>Compressor Grommet CGR</b> 	CGR-3-37x25-M8-S	37x25 mm	3	29	33.0 Hz	1 set (= 48 pcs.)	<b>42177</b>
	CGR-6-37x25-M8-S	37x25 mm	6	59	32.0 Hz	1 set (= 48 pcs.)	<b>42178</b>
	CGR-10-37x25-M8-S	37x25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

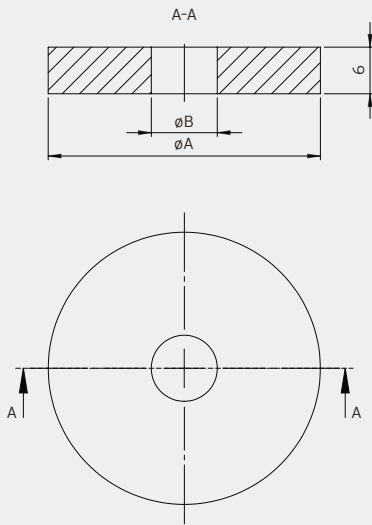


Sylomer® Compressor Grommet CGR

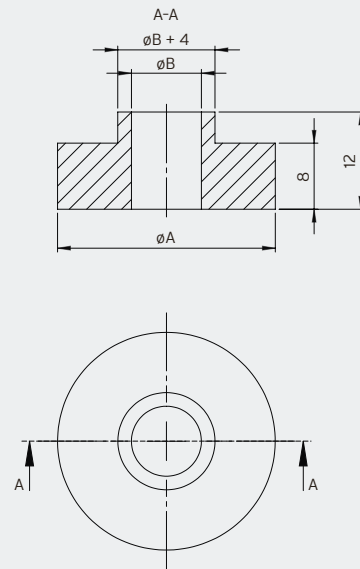


Elastic Washer EW

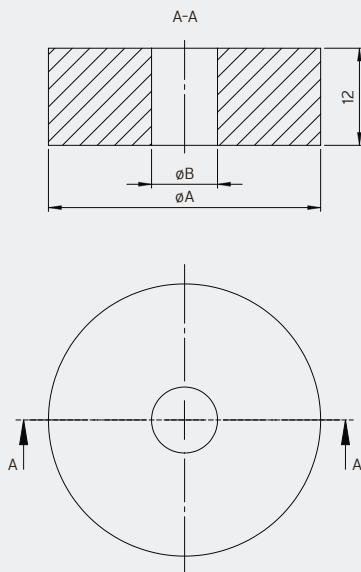
**EW Mxx-6 (unladen)**



**EW Mxx-8 (unladen)**



**EW Mxx-12 (unladen)**






# Isotop® Transformer Pad TR

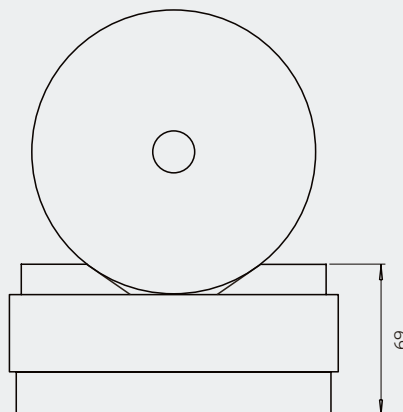
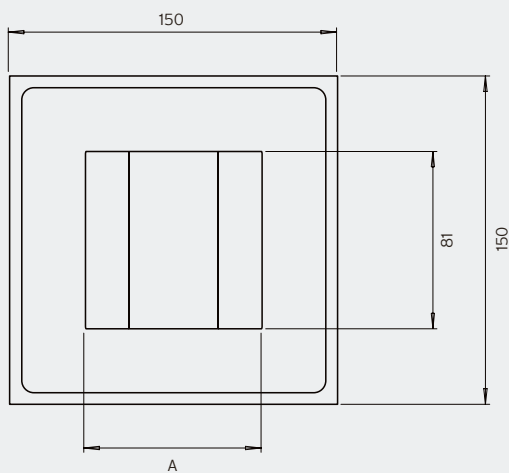
High-performance pads for transformers with wheels

- 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
			in kg	in N			
<b>Transformer Pad TR</b>	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





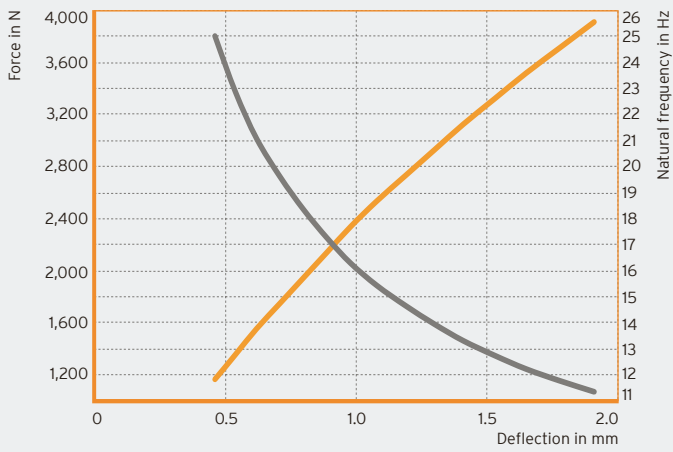
Isotop® TR



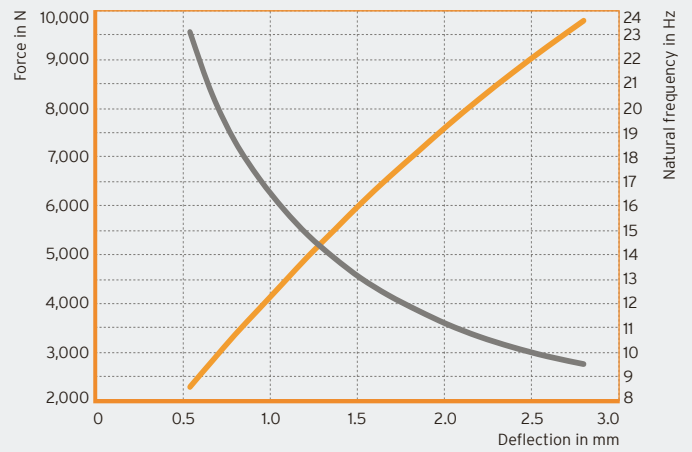
Vibration decoupled bearing of a distribution transformer



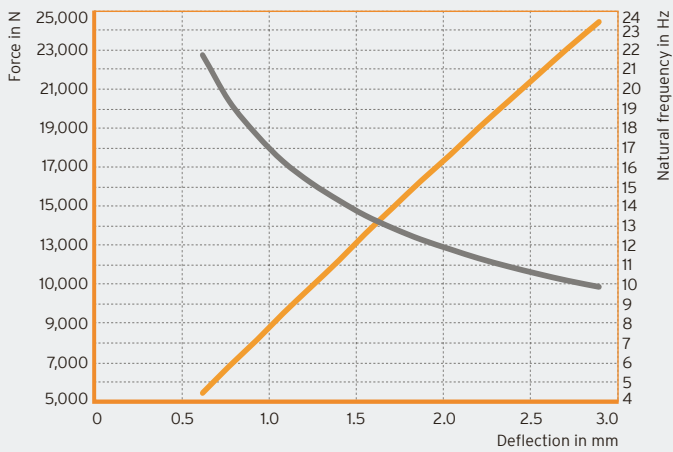
TR-400



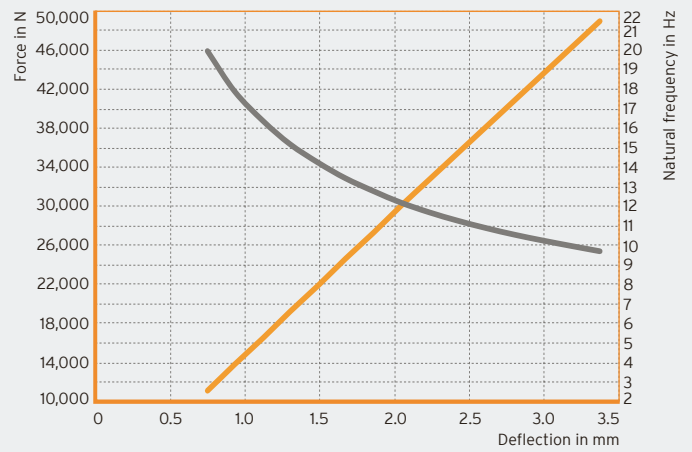
TR-1000



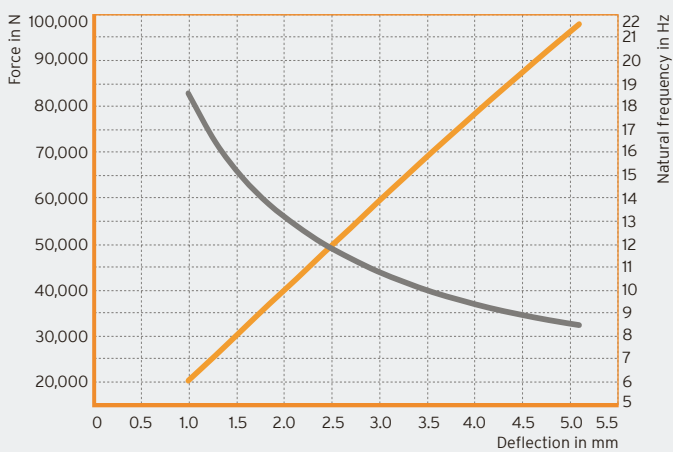
TR-2500



TR-5000



TR-10000







— Force in N  
— Natural frequency in Hz



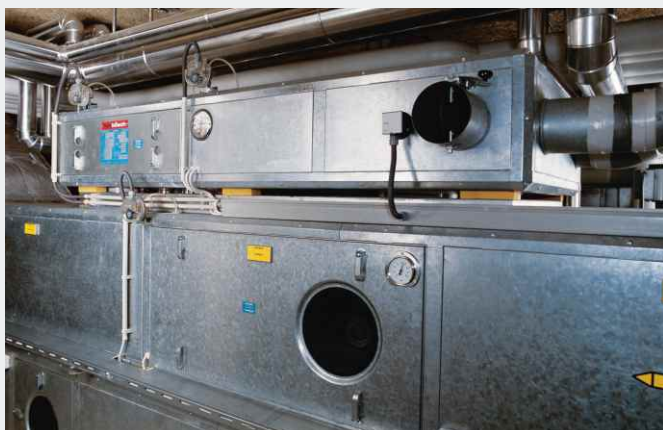
# Sylomer® Point Bearing PBE

## 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 at maximum load	Packaging unit	Order number
		in kg	in N			
<b>PBE-S</b> <b>50×50×12.5 mm</b> 	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> <b>50×50×25 mm</b> 	PBE-M-5	6	58	12.5 Hz	1 set (= 48 pcs.)
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> <b>100×100×12.5 mm</b> 		PBE-L-25	28	274	18.5 Hz	1 set (= 48 pcs.)
	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> <b>100×100×25 mm</b> 	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

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

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



Strip bearing for air conditioning (AC) unit



Strip bearing positioned in readiness for a rooftop ventilation unit

