

Product Catalogue

Machine Bearings for Building Services Equipment

Update 2022

For the latest online version, go to:
www.getzner.com/catalogue-hvac-en



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Applications



1 Air handling units (HVAC)

2 Fans

3 Elevator systems

4 Transformers



5 Chillers

7 Compressors

9 Pumps

6 Pipes

8 Heat pumps

10 Combined heat and power plants (CHP)

Products

Steel springs



Isotop MSN
Page 12



Isotop MSN-BL
Page 14



Isotop SD
Page 16



Isotop SD-BL
Page 18

Steel springs with damper core



Isotop DMSN
Page 20



Isotop DMSN-BL
Page 22



Isotop DSD
Page 24

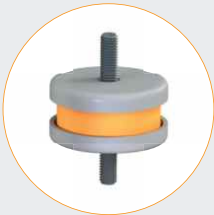


Isotop DSD-BL
Page 26

Vibration dampers



Isotop MSN-DAMP
Page 30

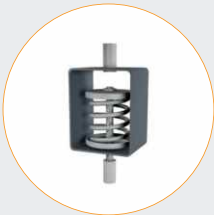


Isotop Compact
Page 32

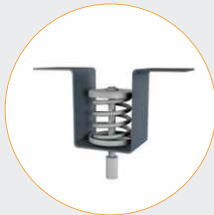
Ceiling hangers



Isotop SD/Z
Page 36



Isotop MSN/Z
Page 36



Isotop MSN/Z-LC
Page 36

Pressure-tension elements



Isotop DZE Mini
Page 38

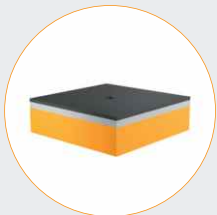


Isotop DZE
Page 38



Isotop DZE-BL
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Sandwich elements



Isotop SE pro
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Isotop SE light
Page 44



Isotop SE-DE
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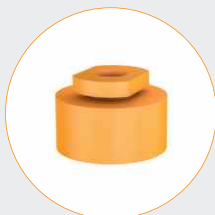
Isotop SE-DE Elevator
Page 46

Machine mountings



Isotop ENI
Page 48

Compressor bearings



Sylomer® Compressor
Grommet CGR
Page 50

Transformer bearings

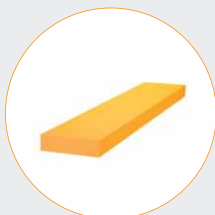


Isotop Transformer
Pad TR
Page 52

Point bearings and strip bearings



Sylomer® Point
Bearing PBE
Page 54



Sylomer® Strip
Bearing SBE
Page 55

Seismic machine bearings



SMM
www.getzner.com

Product benefits



Quieter equipment thanks to efficient vibration isolation



Reduced secondary airborne noise even in critical installation locations (roof-top installation, mezzanine floors, etc.)



Time and cost savings in design, procurement and installation



Reduced maintenance costs

sylomer^{by getzner}

sylodyn^{by getzner}

sylodamp^{by getzner}



**Getzner PU
made easy -
with Isotop
machine bearings**

Product finder

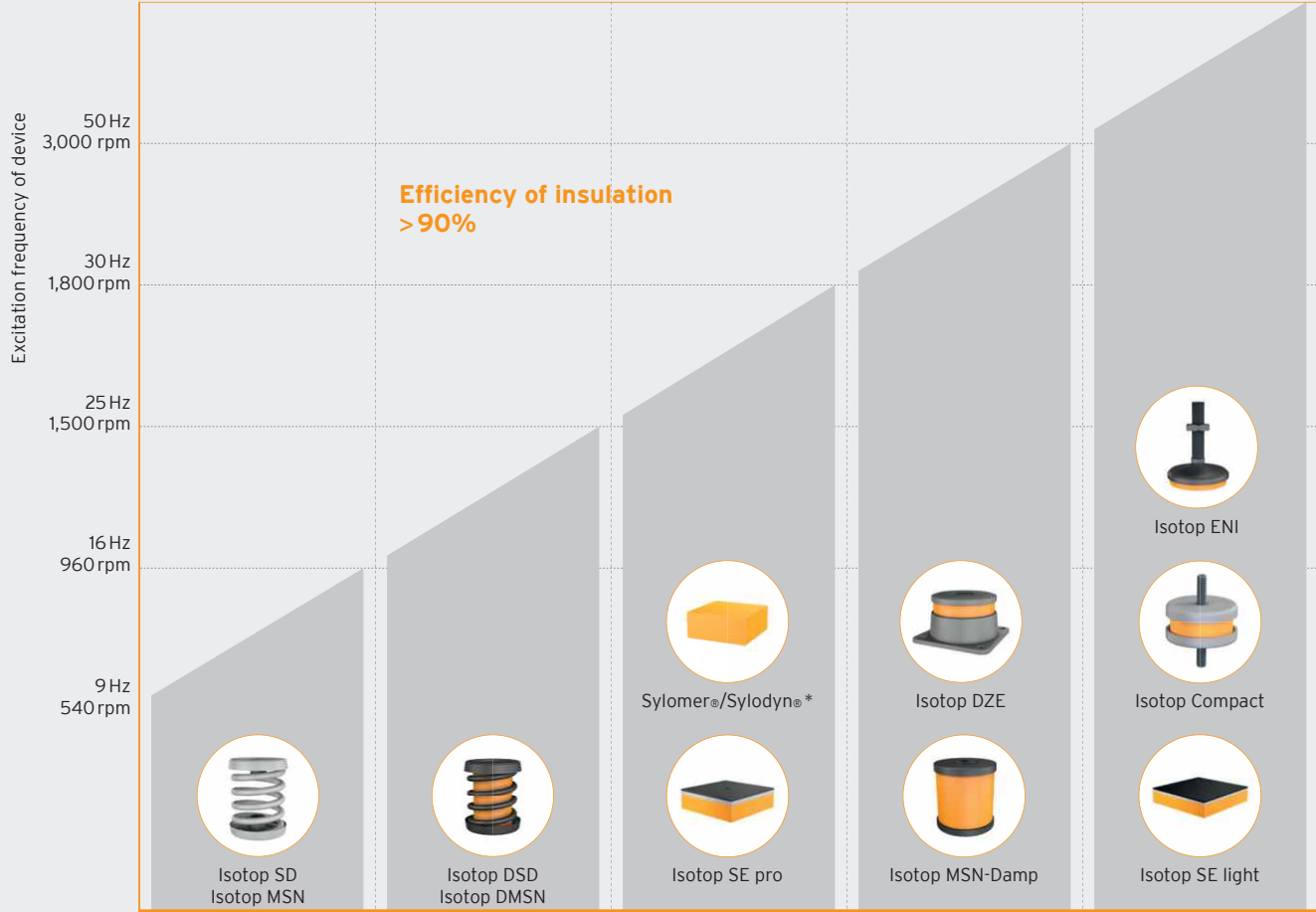
Thanks to its wide range of products, Getzner Werkstoffe is able to tailor the bearings perfectly to customer requirements.

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 approx. 7 Hz (excitation frequencies from 25 Hz). 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/m²
- Available in standard thicknesses of 12.5 mm and 25 mm



Requirements 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.)
	9 Hz 540 rpm	16 Hz 960 rpm	25 Hz 1,500 rpm	30 Hz 1,800 rpm	50 Hz 3,000 rpm
Excitation fre- quency 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 natu- ral 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 bedded item and the number of bearings.

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

- Calculation and efficacy forecasts
- Comparative measurements
- Material tests
- Customer-specific solutions

Compelling advantages:



Intuitive operation



Latest product information



Quick results

1 Following the project description ...

getzner? EquipCalc

Project

Project name: Comments:

Filter settings

Note:
The total load and the number of bearing points are required to calculate suitable products.

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

getzner? EquipCalc

Project

Filter settings

Products

 Isotop® SD 8 - Deflection: 16.2 mm - Calculated natural frequency: 3.8 Hz - Overall height unloaded: 94 mm - Insulation efficiency at 50 Hz: 99.4 %	 Isotop® DSD 8 KTL - Deflection: 16.2 mm - Calculated natural frequency: 3.8 Hz - Overall height unloaded: 94 mm - Insulation efficiency at 50 Hz: 99.4 %	 Isotop® DSD 8 KTL - Deflection: 22.3 mm - Calculated natural frequency: 4.8 Hz - Overall height unloaded: 94 mm - Insulation efficiency at 50 Hz: 98.3 %
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2 ... the relevant data is entered ...

getzner? EquipCalc

Project

Filter settings

Total load* Kilogram

Number of bearing points* Pieces

Desired (calculated) natural frequency (max) Hz

(Main) excitation frequency Hz

Application: All applications

Installation options: All installation options

☐ Increased wind loads expected
For example, no concrete support

☐ Seismoresistant elements

Available installation height mm

Reset filters

Note:
The total load and the number of bearing points are required to calculate suitable products.

Data needed to choose the right product

- Total load
- Number of bearing points

Other filter options

- Desired, calculated, natural frequency (max)
- (Main) excitation frequency
- Application
- Assembly options
- Available installation height

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4 Detailed product information ...

Isotop® SD 7 Isotop® SD 7 KTL **Isotop® DSD 6 KTL** Isotop® MSN-BL4-74/80 Isotop® MSN-BL6-72/84

Isotop® DSD 6 KTL

Ordering number: **39157**

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

Product dimensions (continued)			
Height	h	=	94 mm
Diameter	D	=	70 mm
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			4.9 Hz

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

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Editor: **Thomas Warte**
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	4.9 Hz
Capacity	88 %

■ Static load limit ■ Total load ■ Deflection curve

■ Insulation efficiency

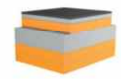
Frequency in Hz	Insulation in dB	Degree of insulation in %
2.5	2.5	-33
3.1	4.1	-41
4.0	7.3	-133
4.9	9.8	-211
5.8	9.7	-205
6.3	3.0	-41
8.0	-3.9	36
10.0	-8.0	65
12.5	-13.5	79
16.0	-17.9	87
20.0	-21.6	92
25.0	-25.2	94
31.5	-28.6	96
40.0	-32.1	98
50.0	-35.2	99.3
63.0	-38.3	99.8
80.0	-41.5	99.9
100.0	-44.4	99.9
125.0	-47.2	99.9
160.0	-50.3	99.7
200.0	-53.0	99.9

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JAPAN - Tokyo INDIA - Pune CHINA - Shanghai USA - Charlotte www.getzner.com **getzner**
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Selection matrix

	Steel springs				Steel springs with damper core				Vibration dampers	
										
Natural frequency Load range Unloaded height	MSN 3.5 Hz 3 to 90 kg 57 mm	MSN-BL 3.5 Hz 117 to 800 kg 75 mm	SD 3.2 Hz 20 to 525 kg 94 mm	SD-BL 3.4 Hz 690 to 4,730 kg 114 mm	DMSN 5.3 to 9.5 Hz 11 to 100 kg 57 mm	DMSN-BL 5.3 to 6.6 Hz 215 to 1,590 kg 75 mm	DSD 4.2 to 5.6 Hz 24 to 650 kg 94 mm	DSD-BL 4.3 to 5.2 Hz 400 to 5,850 kg 114 mm	MSN-DAMP 8.2 to 11.1 Hz 7 to 37 kg 45 mm (T/T)	Compact 10.1 to 12.1 Hz 4 to 95 kg 28 mm (T/T)
	Page 12	Page 14	Page 16	Page 18	Page 20	Page 22	Page 24	Page 26	Page 30	Page 32
Air handling units (HVAC)			Recommended	Recommended			Recommended	Recommended		
Fans	Recommended		Recommended		Alternative		Alternative			Alternative
Elevator systems										
Chillers			Alternative	Alternative			Recommended	Recommended		
Pipes		Alternative		Alternative						
Compressors	Alternative		Alternative		Recommended		Recommended	Recommended	Recommended	Recommended
Heat pumps					Recommended		Recommended		Recommended	Alternative
Pumps	Alternative	Alternative	Alternative	Alternative	Recommended	Recommended	Recommended	Recommended		
Combined heat and power plants (CHP)					Recommended	Recommended	Recommended	Recommended		
Transformers				Alternative				Alternative		

 Recommended
  Alternative

Ceiling hangers	Pressure-tension elements	Sandwich elements			Machine mountings	Compressor bearings	Transformer bearings	Point bearings and strip bearings	
 MSN/Z + SD/Z 3.2 to 3.5 Hz 3 to 420 kg 105 to 190 mm	 DZE 7 to 12 Hz 9 to 4,135 kg 49 to 117 mm	 SE pro 7.9 to 9.6 Hz 90 to 2,250 kg 51.5 mm	 SE light 10.8 to 12.7 Hz 63 to 930 kg 33 mm	 SE-DE 5.7 to 10.4 Hz 105 to 3,480 kg 111 or 149 mm	 ENI 10 to 10.9 Hz 61 to 285 kg 118 mm	 CGR 12.7 to 14 Hz 3 to 20 kg 25 mm	 TR 8.5 to 11.3 Hz 100 to 2,500 kg 69 mm	 PBE/SBE 10.5 to 18.5 Hz 6 to 1,075 kg 12.5 or 25 mm	Natural frequency Load range Unloaded height
Page 36	Page 38	Page 42	Page 44	Page 46	Page 48	Page 50	Page 52	Page 54	
	Recommended	Recommended	Recommended	Alternative	Recommended			Recommended	Air handling units (HVAC)
Alternative	Alternative								Fans
	Alternative			Recommended				Recommended	Elevator systems
	Recommended	Recommended	Alternative	Alternative	Recommended			Recommended	Chillers
Recommended									Pipes
						Recommended			Compressors
	Alternative	Alternative	Recommended		Recommended			Recommended	Heat pumps
	Recommended								Pumps
Alternative	Recommended	Recommended	Alternative					Recommended	Combined heat and power plants (CHP)
							Recommended	Alternative	Transformers



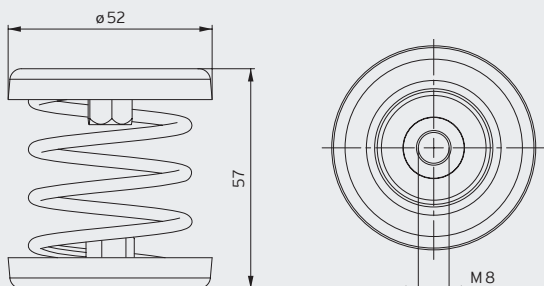
Isotop MSN

Steel spring isolators for low installation heights

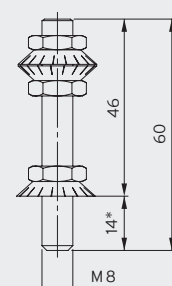
- Natural frequency from 3.5 Hz
- Low overall height of 57 mm
- Electro-galvanised or cathodic dip-coated (CDC) for increased corrosion protection
- Secure connection between the plate and the spring
- thanks to special adhesive
- M8 internal thread
- Simple load control thanks to open design
- Spring design conforms to DIN EN 13906-1

			Maximum load		Natural frequency at maximum load	Packaging unit	Order number
			in kg	in N			
MSN spring element galvanised 	Isotop MSN 1		3	29	3.5 Hz	50 pcs.	39376
	Isotop MSN 2		5	49	3.5 Hz	50 pcs.	39377
	Isotop MSN 3		9	88	3.5 Hz	50 pcs.	39378
	Isotop MSN 4		14	137	3.5 Hz	50 pcs.	39379
	Isotop MSN 5		23	226	3.5 Hz	50 pcs.	39380
	Isotop MSN 6		35	343	3.5 Hz	50 pcs.	39381
	Isotop MSN 7		53	519	3.5 Hz	50 pcs.	39382
	Isotop MSN 8		90	883	3.5 Hz	50 pcs.	39383
MSN spring element KTL 	Isotop MSN 1 KTL		3	29	3.5 Hz	100 pcs.	39384
	Isotop MSN 2 KTL		5	49	3.5 Hz	100 pcs.	39415
	Isotop MSN 3 KTL		9	88	3.5 Hz	50 pcs.	39416
	Isotop MSN 4 KTL		14	137	3.5 Hz	50 pcs.	39417
	Isotop MSN 5 KTL		23	226	3.5 Hz	50 pcs.	39418
	Isotop MSN 6 KTL		35	343	3.5 Hz	50 pcs.	39419
	Isotop MSN 7 KTL		53	519	3.5 Hz	50 pcs.	39420
	Isotop MSN 8 KTL		90	883	3.5 Hz	50 pcs.	39421
Height adjustment for MSN/DMSN 	Isotop NV 1-8 MSN	M8	for MSN 1 to 8			50 pcs.	47322

Isotop MSN (unloaded)



Isotop NV 1-8 MSN



*Thread reach MSN/DMSN

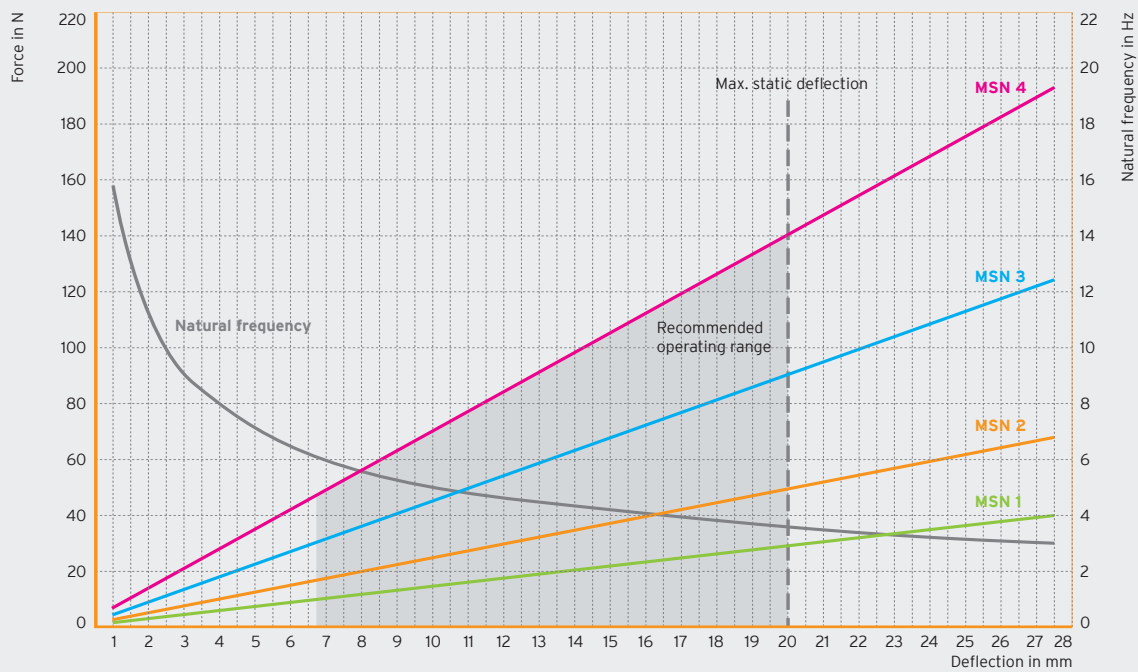


Radial fan in an HVAC system

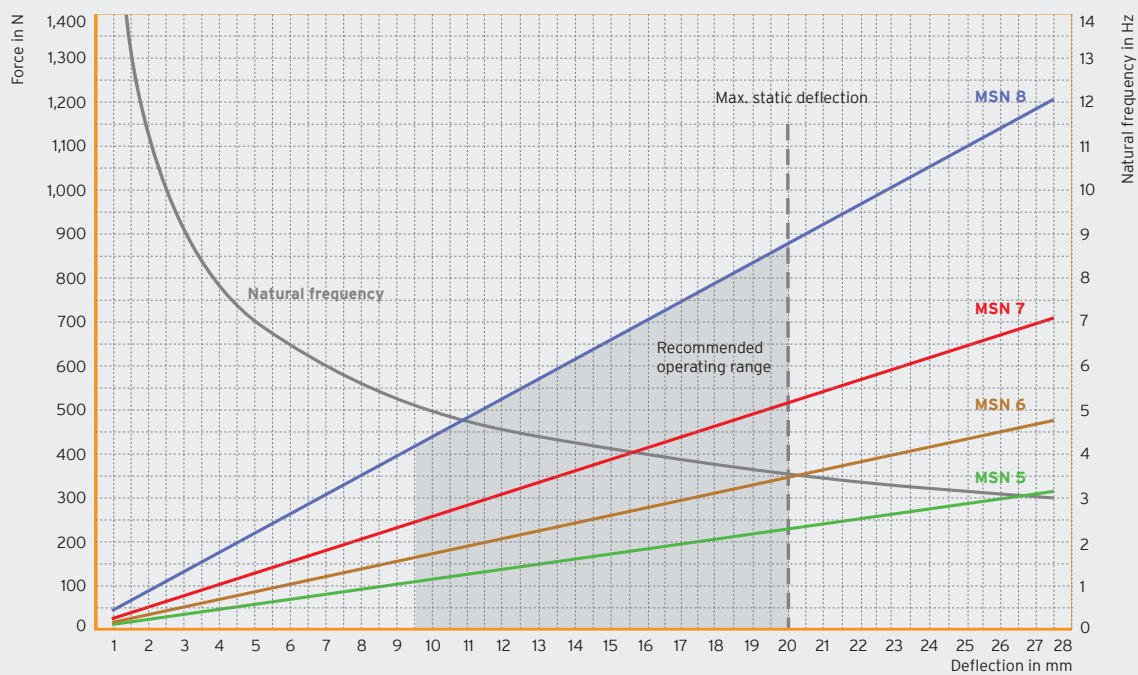


External unit of a heat pump on a wall bracket

Isotop MSN 1– MSN 4



Isotop MSN 5– MSN 8





Isotop MSN-BL

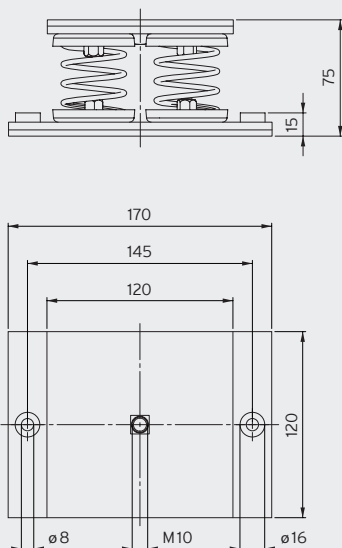
MSN steel spring block element
for low installation heights and high loads

- Natural frequency from 3.5 Hz
- Low overall height of 75 mm
- High load capacity of up to 800 kg per element
- 5 mm top plate and base plate fitted with 4 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

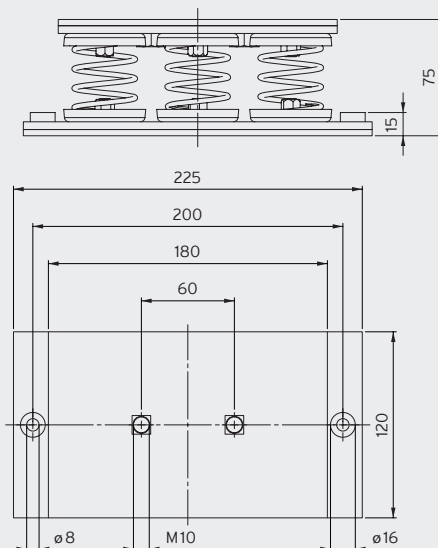
MSN-BL		Maximum load		Natural frequency at maximum load	Packaging unit	Order number
		in kg	in N			
	Isotop MSN-BL4-52/62	117	1,147	3.5 Hz	4 pcs.	47289
	Isotop MSN-BL4-74/80	212	2,079	3.5 Hz	4 pcs.	47293
	Isotop MSN-BL4-70/84	360	3,531	3.5 Hz	4 pcs.	47292
	Isotop MSN-BL6-72/84	465	4,561	3.5 Hz	10 pcs.	47295
	Isotop MSN-BL6-70/86	535	5,248	3.5 Hz	10 pcs.	47294
	Isotop MSN-BL9-73/86	695	6,817	3.5 Hz	10 pcs.	47297
	Isotop MSN-BL9-70/89	800	7,848	3.5 Hz	10 pcs.	47296

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

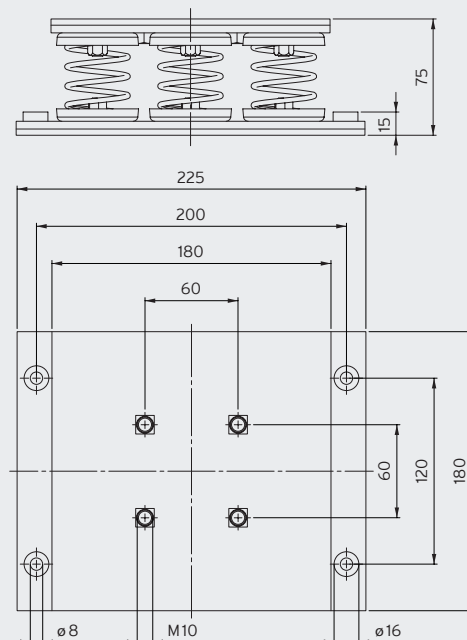
Isotop MSN-BL 4 (unloaded)



Isotop MSN-BL 6 (unloaded)



Isotop MSN-BL 9 (unloaded)

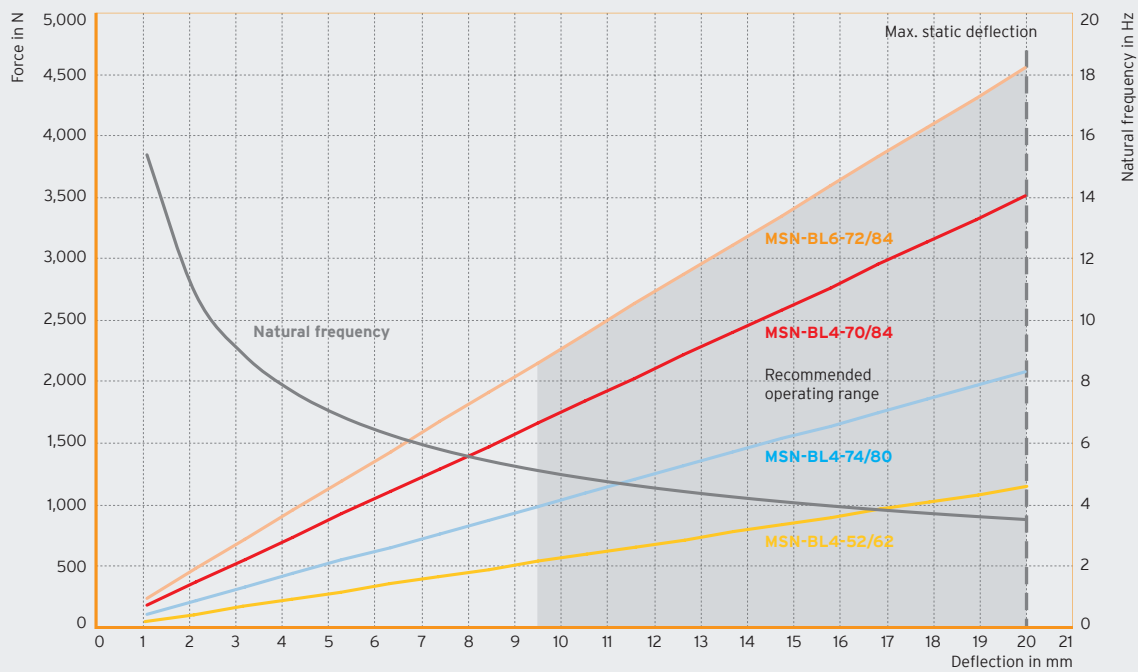


Customised block
elements available
on request

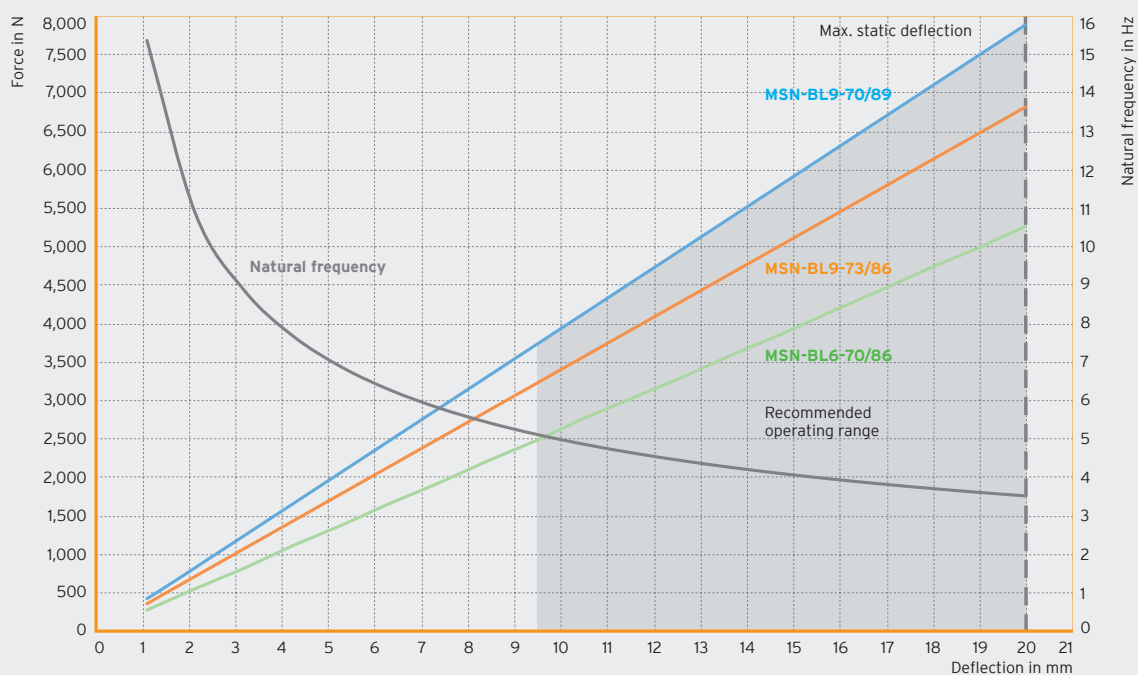


Bearing of duct silencer

Isotop MSN-BL4 and MSN-BL6



Isotop MSN-BL6 and MSN-BL9





Isotop SD

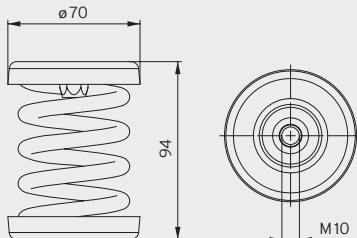
Steel spring isolators

- 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

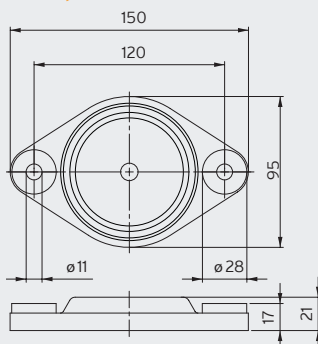
			Maximum load		Natural frequency at maximum load	Packaging unit	Order number
			in kg	in N			
SD spring element galvanised 	Isotop SD 1		20	196	3.2 Hz	50 pcs.	39443
	Isotop SD 2		33	324	3.2 Hz	50 pcs.	39444
	Isotop SD 3		52	510	3.2 Hz	50 pcs.	39003
	Isotop SD 4		82	804	3.2 Hz	50 pcs.	39455
	Isotop SD 5		123	1,206	3.2 Hz	50 pcs.	39004
	Isotop SD 6		195	1,913	3.2 Hz	50 pcs.	39456
	Isotop SD 7		310	3,041	3.2 Hz	50 pcs.	39457
	Isotop SD 8		420	4,120	3.4 Hz	50 pcs.	39458
	Isotop SD 9		525	5,150	3.4 Hz	50 pcs.	39459
SD spring element KTL 	Isotop SD 1 KTL		20	196	3.2 Hz	100 pcs.	39460
	Isotop SD 2 KTL		33	324	3.2 Hz	100 pcs.	39461
	Isotop SD 3 KTL		52	510	3.2 Hz	50 pcs.	39462
	Isotop SD 4 KTL		82	804	3.2 Hz	50 pcs.	39463
	Isotop SD 5 KTL		123	1,206	3.2 Hz	50 pcs.	39464
	Isotop SD 6 KTL		195	1,913	3.2 Hz	50 pcs.	39465
	Isotop SD 7 KTL		310	3,041	3.2 Hz	50 pcs.	39466
	Isotop SD 8 KTL		420	4,120	3.4 Hz	100 pcs.	39467
	Isotop SD 9 KTL		525	5,150	3.4 Hz	100 pcs.	39468
Base plate FP/K with damping element for SD/DSD 	Isotop FP/K 1-9		for SD 1 to 9		including screws ¹	50 pcs.	38216
	Isotop FP/K 1-9 KTL		for SD 1 to 9		including screws ¹	50 pcs.	39158
Base plate FP for SD/DSD 	Isotop FP 1-9		for SD 1 to 9		without screws	50 pcs.	39536
	Isotop FP 1-9 KTL		for SD 1 to 9		without screws	50 pcs.	39537
Height adjustment for SD/DSD 	Isotop NV 1-9	M10	for SD 1 to 9			50 pcs.	47321

¹ M10 connecting screws between base plate and spring

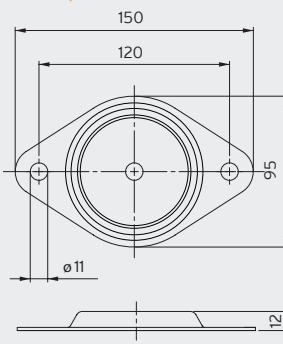
Isotop SD (unloaded)



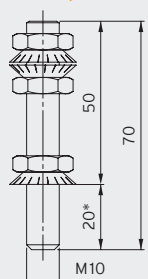
Isotop FP/K



Isotop FP



Isotop NV 1-9



*Thread reach SD/DSD

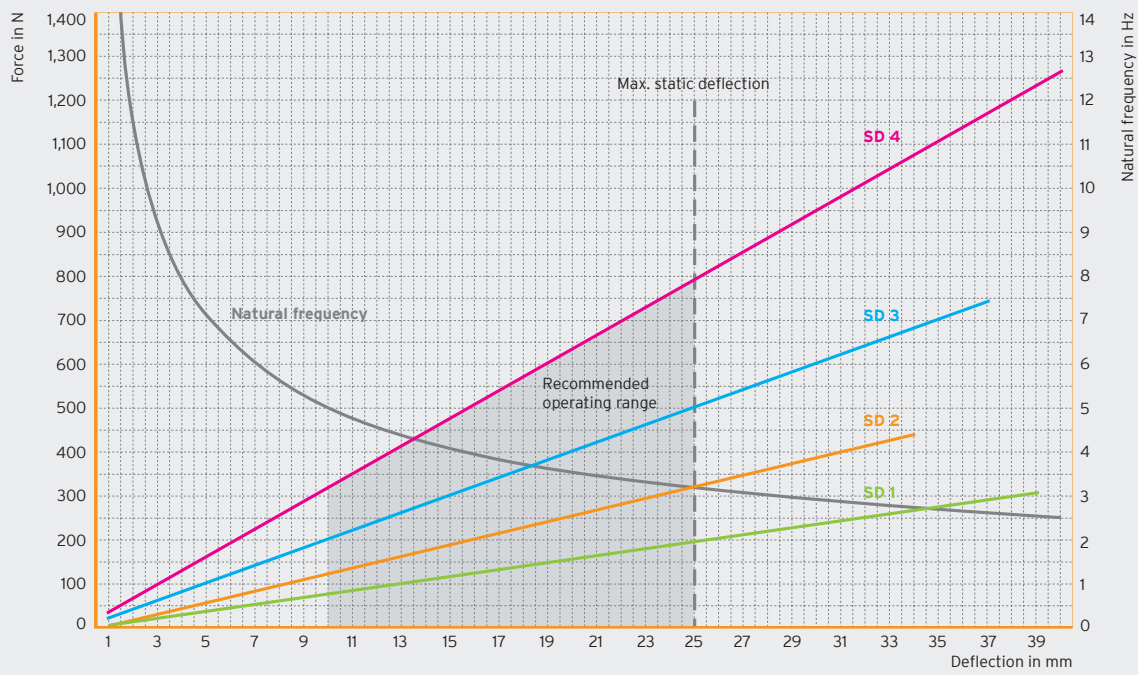


Bearing of belt-driven fans

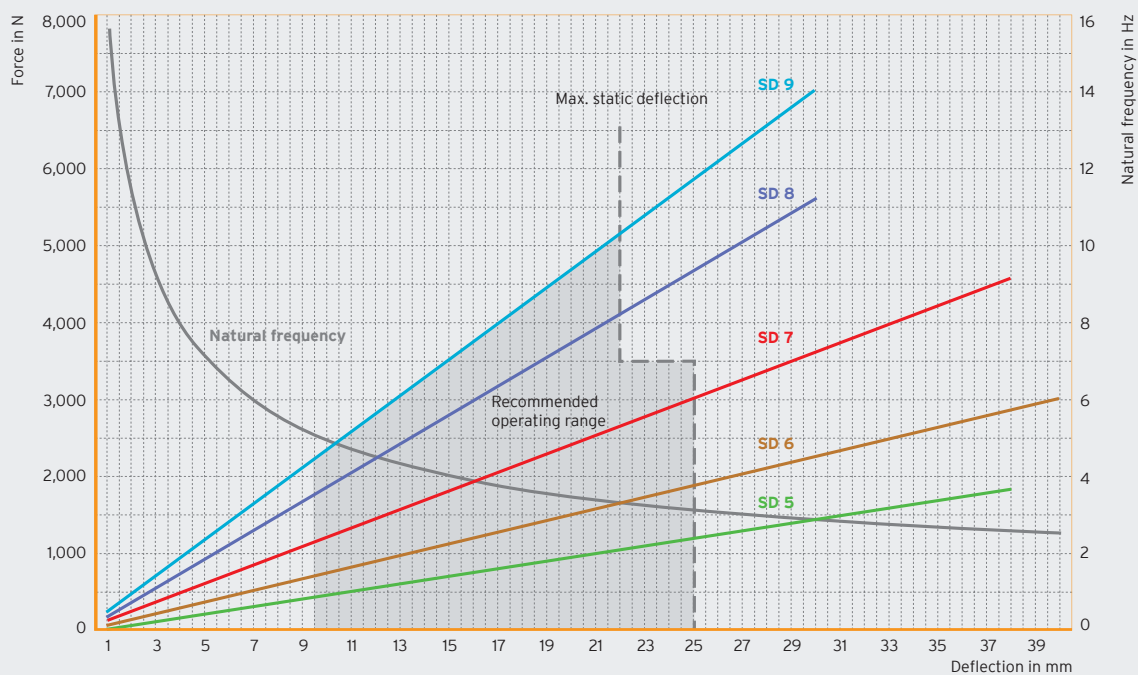


Bearing of HVAC unit with Isotop SD and Isotop FP/K

Isotop SD1–SD 4



Isotop SD5–SD 9





Isotop SD-BL

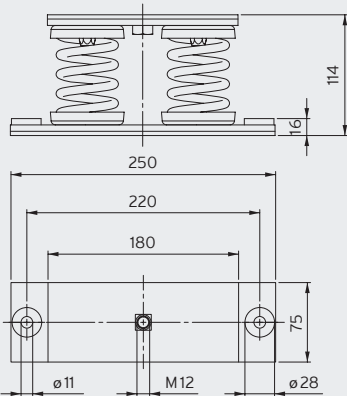
SD steel spring block element

- Natural frequency from 3.4Hz
 - High load capacity of up to 4,730 kg per element
 - 6 mm top plate and base plate fitted with 4 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

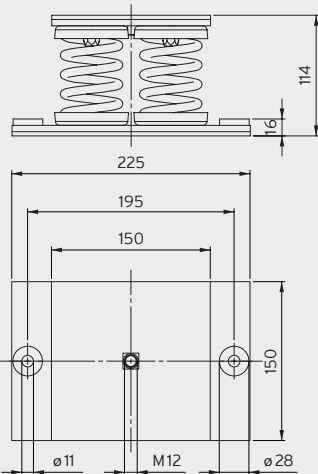
		Maximum load		Natural frequency	Packaging	Order
		in kg	in N	at maximum load	unit	number
	Isotop SD-BL2-71/81	690	6,769	3.4 Hz	4 pcs.	47298
	Isotop SD-BL2-82/90	840	8,240	3.4 Hz	4 pcs.	47300
	Isotop SD-BL2-80/92	1,050	10,301	3.4 Hz	4 pcs.	47299
	Isotop SD-BL4-84/90	1,680	16,481	3.4 Hz	4 pcs.	47282
	Isotop SD-BL4-82/92	1,890	18,541	3.4 Hz	4 pcs.	47284
	Isotop SD-BL4-80/94	2,100	20,601	3.4 Hz	4 pcs.	47285
	Isotop SD-BL6-84/92	2,730	26,781	3.4 Hz	10 pcs.	47279
	Isotop SD-BL9-80/99	4,730	46,401	3.4 Hz	10 pcs.	47273

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

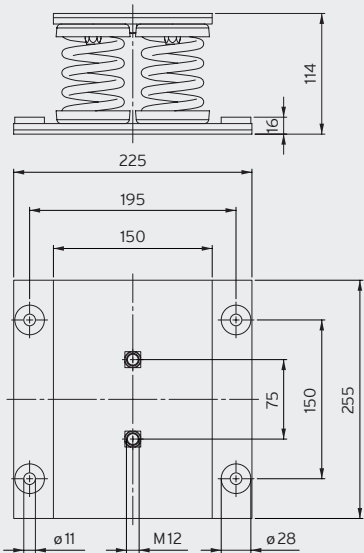
Isotop SD-BL 2 (unloaded)



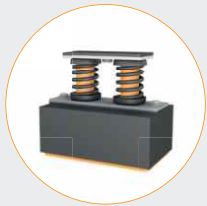
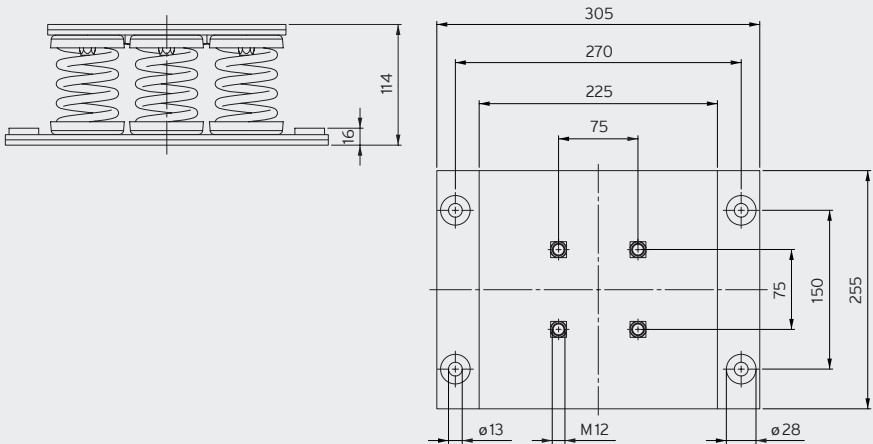
Isotop SD-BL 4 (unloaded)



Isotop SD-BL 6 (unloaded)



Isotop SD-BL 9 (unloaded)



Isotop SD-BL2 and SD-BL4 optionally available with spacer base
Details on page 28



Customised block elements available on request

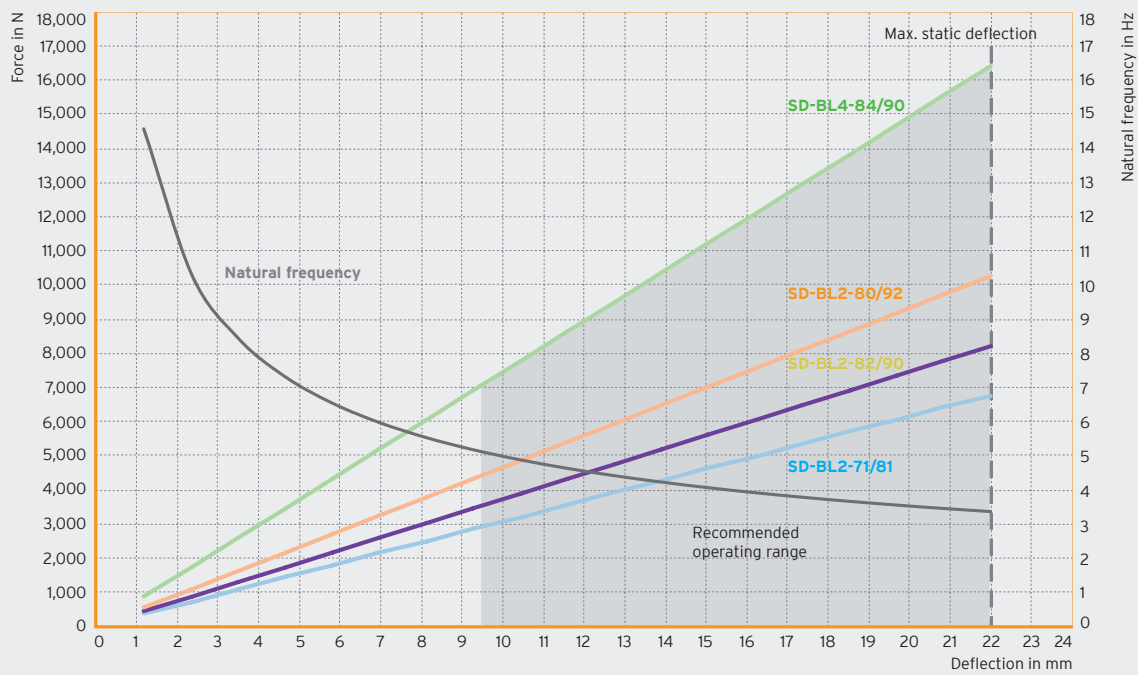


Bearing of pumps with additional mass

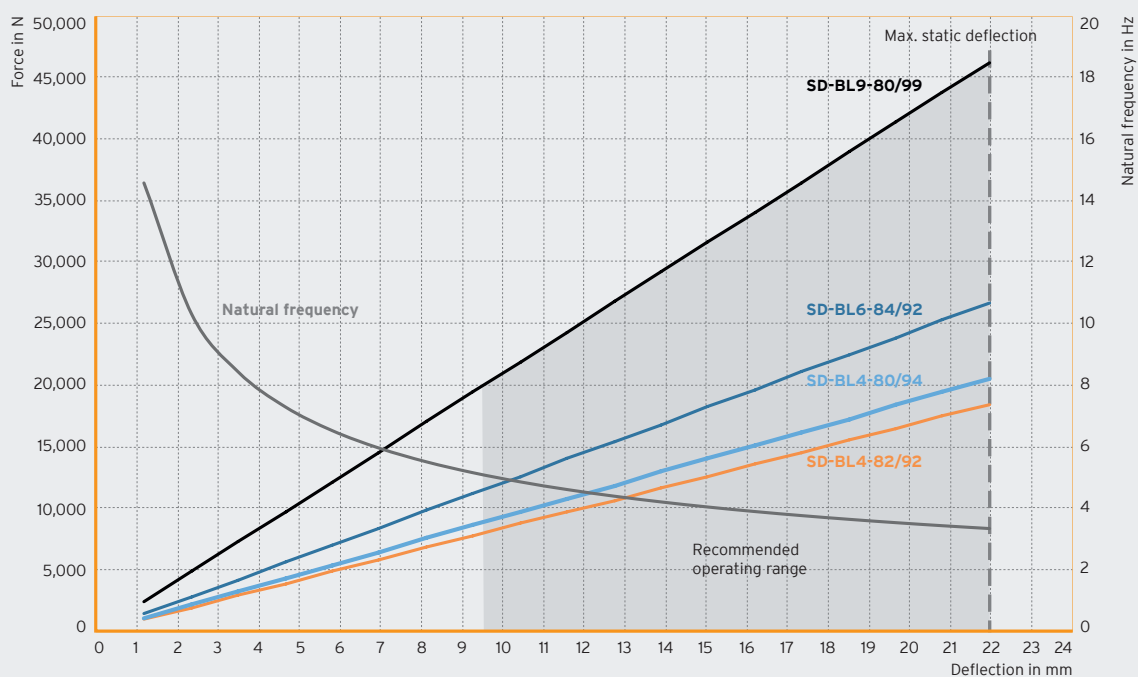


Roof-mounted HVAC system

Isotop SD-BL2 and SD-BL4



Isotop SD-BL 4, SD-BL 6 and SD-BL 9





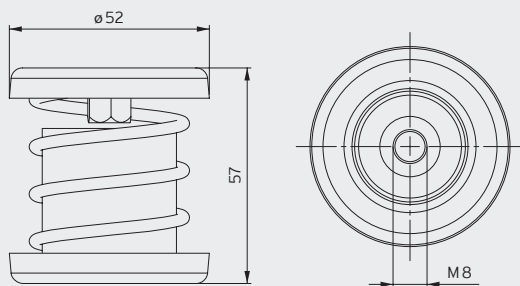
Isotop DMSN

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

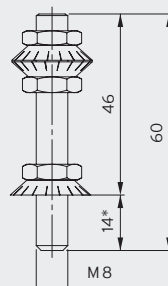
- Natural frequency from 5.3Hz
- Low overall height of 57 mm
- Sylodamp® inside - ideal for machines with several start-stop cycles
- Cathodic dip-coating (CDC) for increased corrosion protection
- Secure connection between the plate and the spring thanks to special adhesive
- M8 internal thread
- Simple 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			
DMSN spring element KTL 	Isotop DMSN 3	KTL	11	108	9.5 Hz	50 pcs.	42389
	Isotop DMSN 4	KTL	16	158	7.8 Hz	50 pcs.	42390
	Isotop DMSN 5	KTL	33	324	8.1 Hz	50 pcs.	42397
	Isotop DMSN 6	KTL	45	441	7.0 Hz	50 pcs.	42396
	Isotop DMSN 7	KTL	63	618	6.2 Hz	50 pcs.	42394
	Isotop DMSN 8	KTL	100	981	5.3 Hz	50 pcs.	42395
Height adjustment for MSN/DMSN 	Isotop NV 1-8 MSN	M8	for DMSN 3 to 8			50 pcs.	47322

Isotop DMSN (unloaded)



Isotop NV 1-8 MSN



*Thread reach MSN/DMSN



Reciprocating compressor with Isotop DMSN

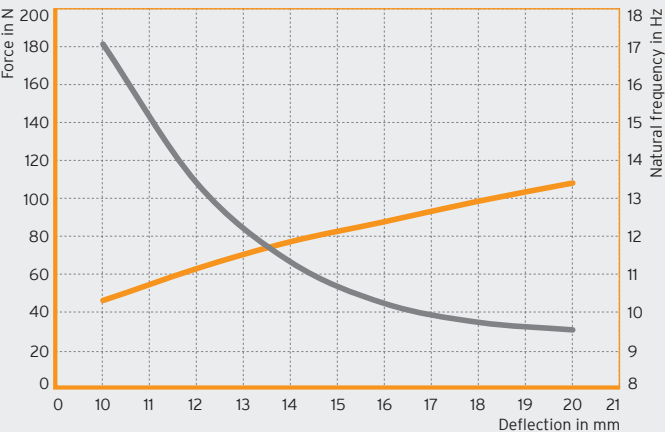


Monoblock heat pump with Isotop DMSN

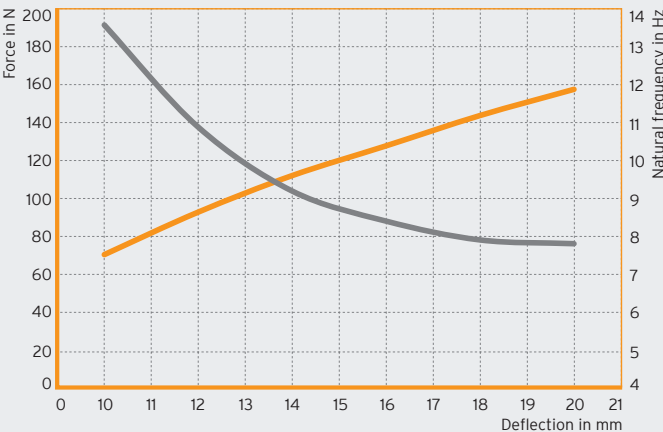


Power generator

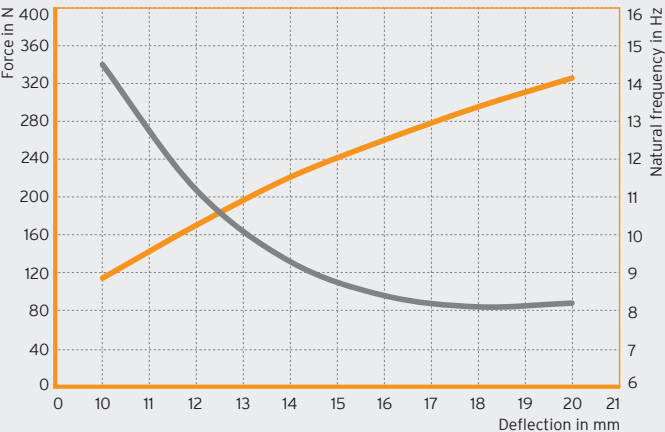
Isotop DMSN 3



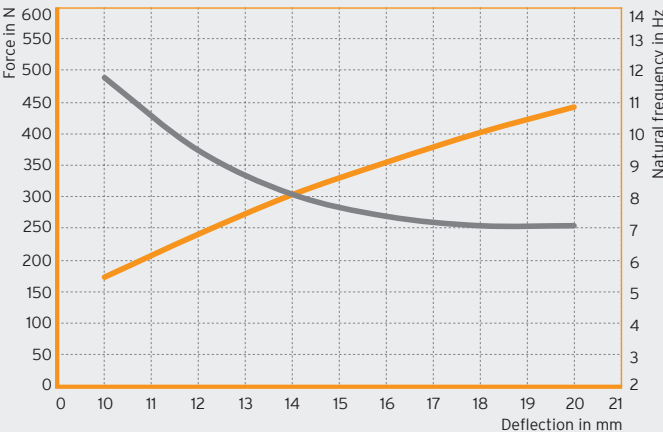
Isotop DMSN 4



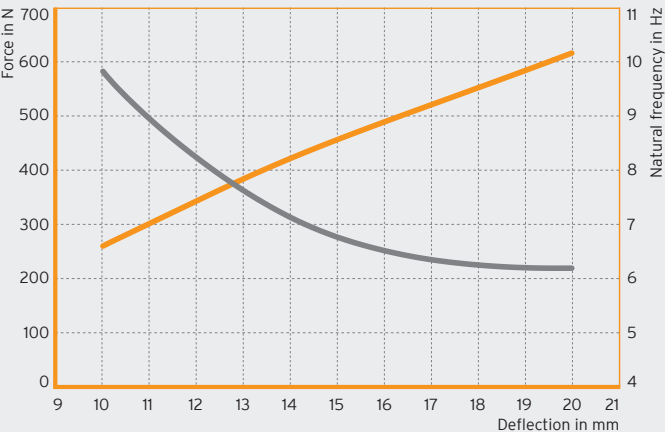
Isotop DMSN 5



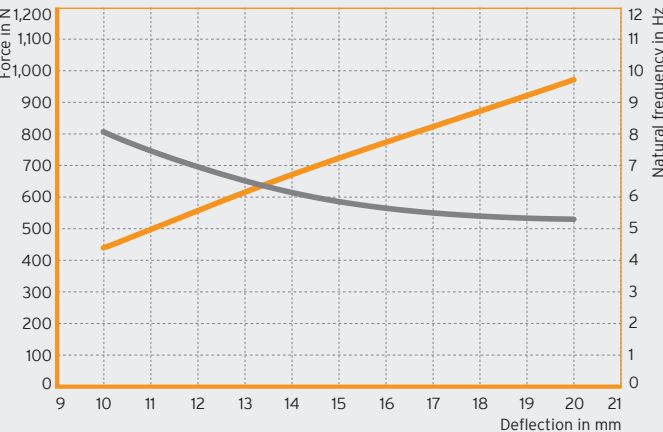
Isotop DMSN 6



Isotop DMSN 7



Isotop DMSN 8



— Force in N
— Natural frequency in Hz



Isotop DMSN-BL

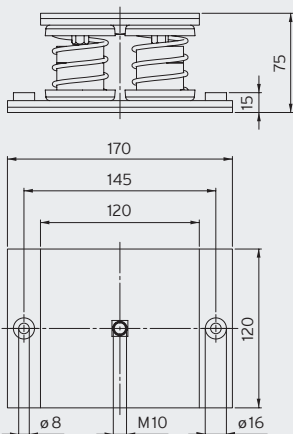
DMSN steel spring block element with high-performance damper for low installation heights and high loads

- Natural frequency from 5.3 Hz
- Low overall height of 75 mm
- High load capacity of up to 1,590 kg per element
- Sylodamp® inside - ideal for machines with several start-stop cycles
- 5 mm top plate and base plate fitted with 4 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

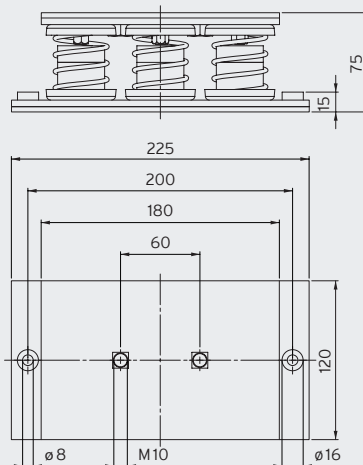
		Maximum load		Natural frequency at maximum load	Packaging unit	Order number
		in kg	in N			
 DMSN-BL	Isotop DMSN-BL4-62/72	215	2,109	6.6 Hz	4 pcs.	47239
	Isotop DMSN-BL4-70/84	395	3,875	5.3 Hz	4 pcs.	47240
	Isotop DMSN-BL6-72/84	520	5,101	5.5 Hz	10 pcs.	47248
	Isotop DMSN-BL9-74/85	750	7,358	5.6 Hz	10 pcs.	47242
	Isotop DMSN-BL9-70/89	895	8,780	5.3 Hz	10 pcs.	47241
	Isotop DMSN-BL16-712/804	1,150	11,282	5.9 Hz	10 pcs.	47246
	Isotop DMSN-BL16-700/816	1,590	15,598	5.3 Hz	10 pcs.	47244

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

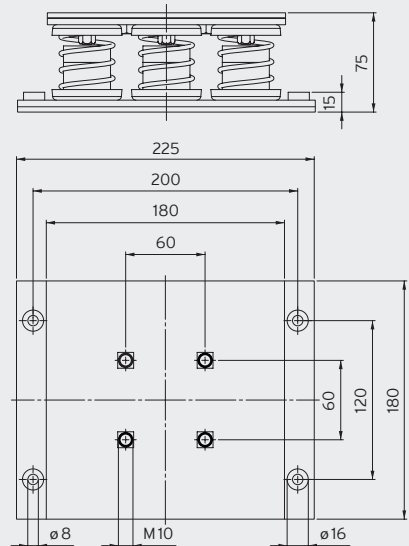
Isotop DMSN-BL 4 (unloaded)



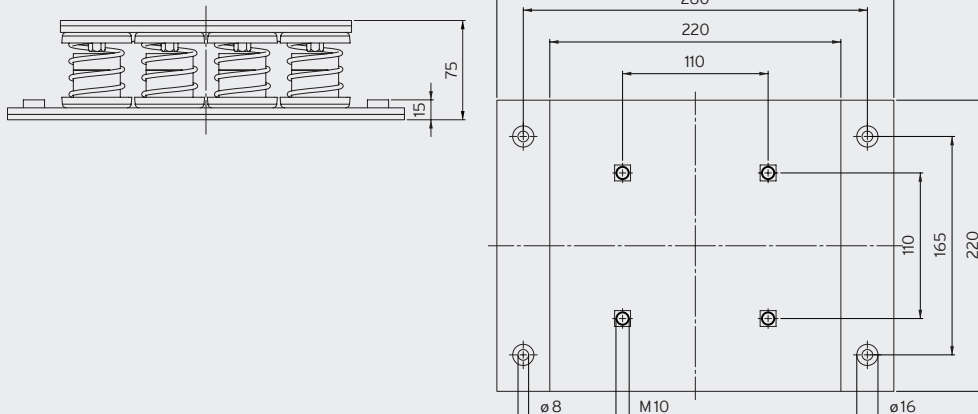
Isotop DMSN-BL 6 (unloaded)



Isotop DMSN-BL 9 (unloaded)



Isotop DMSN-BL 16 (unloaded)



Customised block elements available on request

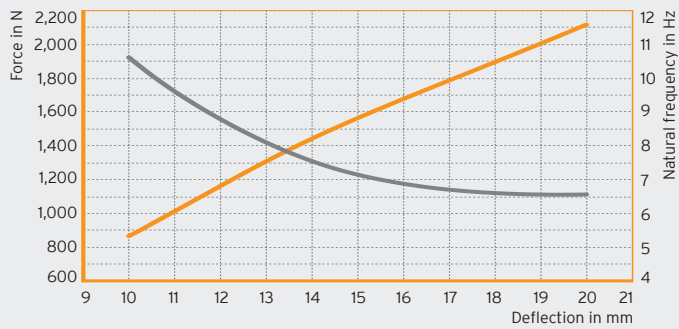


Base of a textile machine on Isotop DM-SN-BL (special version)

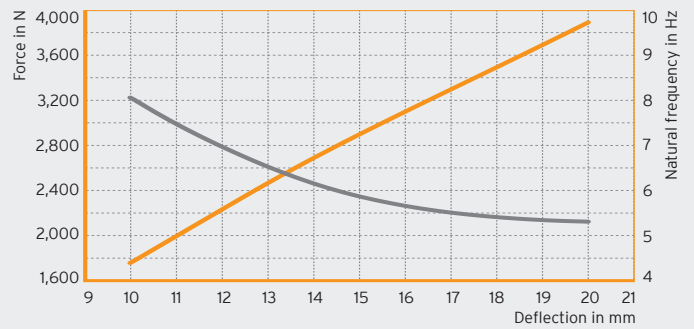


Small combined heat and power plant on Isotop DMSN-BL (special version)

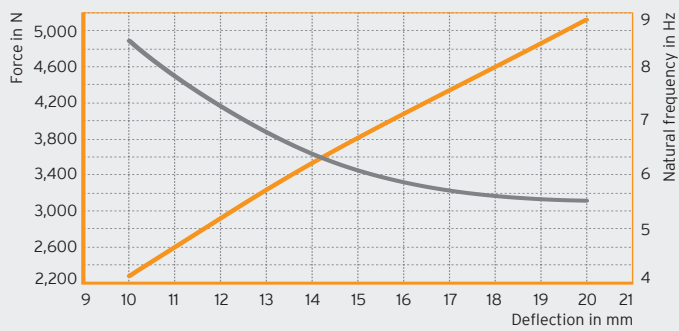
Isotop DMSN-BL4-62/72



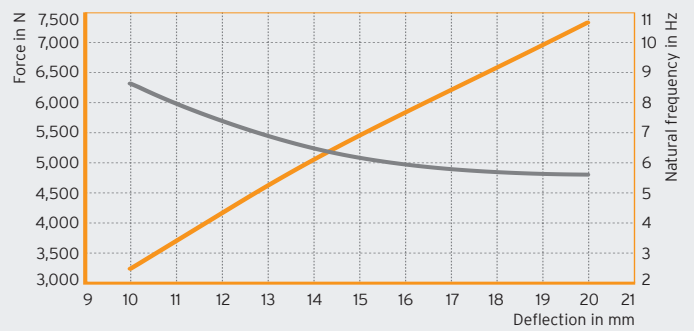
Isotop DMSN-BL4-70/84



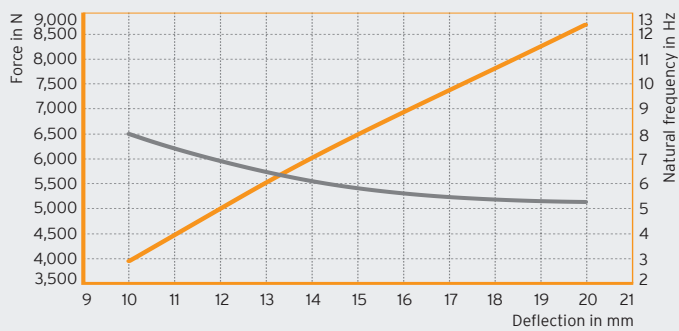
Isotop DMSN-BL6-72/84



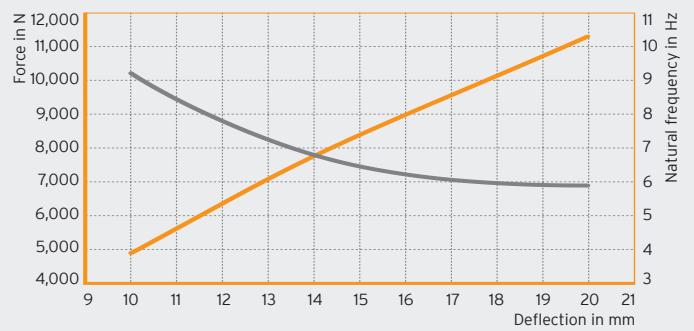
Isotop DMSN-BL9-74/85



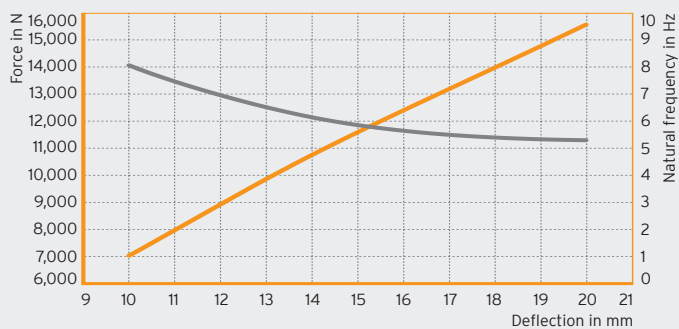
Isotop DMSN-BL9-70/89



Isotop DMSN-BL16-712/804



Isotop DMSN-BL16-700/816



— Force in N
— Natural frequency in Hz



Isotop DSD

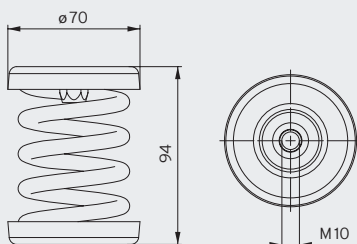
Steel spring isolators with integrated high-performance dampers

- 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

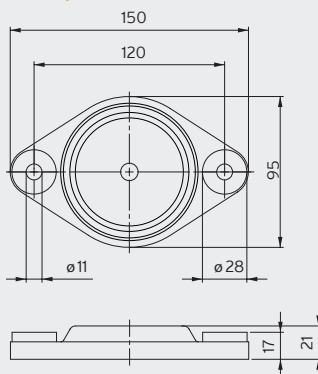
			Maximum load		Natural frequency at maximum load	Packaging unit	Order number
			in kg	in N			
DSD spring element KTL 	Isotop DSD 1 KTL		24	235	5.6 Hz	50 pcs.	39492
	Isotop DSD 2 KTL		39	383	4.9 Hz	50 pcs.	39493
	Isotop DSD 3 KTL		57	559	4.8 Hz	50 pcs.	39495
	Isotop DSD 4 KTL		87	853	4.2 Hz	50 pcs.	39496
	Isotop DSD 5 KTL		140	1,373	4.8 Hz	50 pcs.	39497
	Isotop DSD 6 KTL		200	1,962	4.3 Hz	50 pcs.	39157
	Isotop DSD 7 KTL		365	3,581	5.2 Hz	50 pcs.	39498
	Isotop DSD 8 KTL		470	4,611	4.7 Hz	50 pcs.	39499
	Isotop DSD 9 KTL		650	6,377	4.6 Hz	50 pcs.	39500
Base plate FP/K with damping element for SD/DSD 	Isotop FP/K 1-9 KTL		for DSD 1 to 9		including screws ¹	50 pcs.	39158
Base plate FP for SD/DSD 	Isotop FP 1-9 KTL		for DSD 1 to 9		without screws	50 pcs.	39537
Height adjustment for SD/DSD 	Isotop NV 1-9	M10	for DSD 1 to 9			50 pcs.	47321

¹ M10 connecting screws between base plate and spring

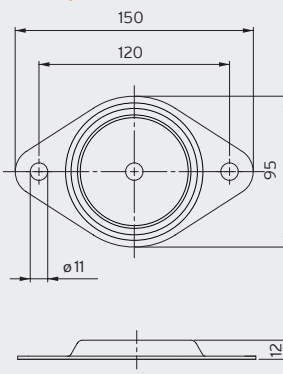
Isotop SD (unloaded)



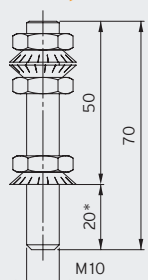
Isotop FP/K



Isotop FP



Isotop NV 1-9



*Thread reach SD/DSD

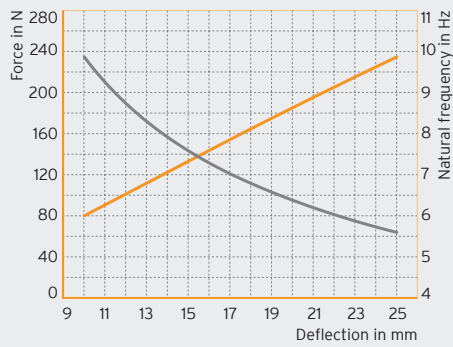


Small combined heat and power plant

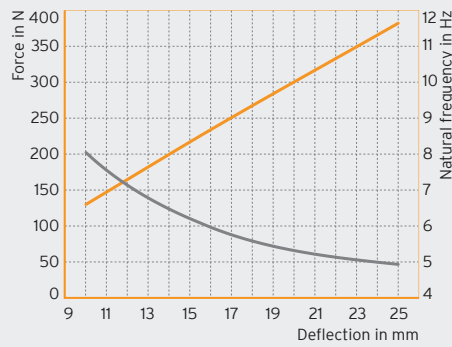


Roof-mounted recoler

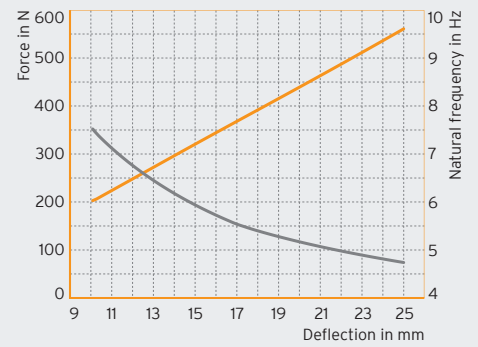
Isotop DSD 1



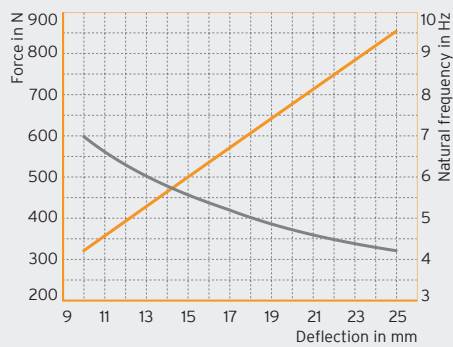
Isotop DSD 2



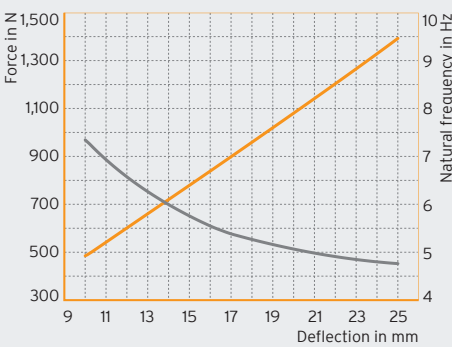
Isotop DSD 3



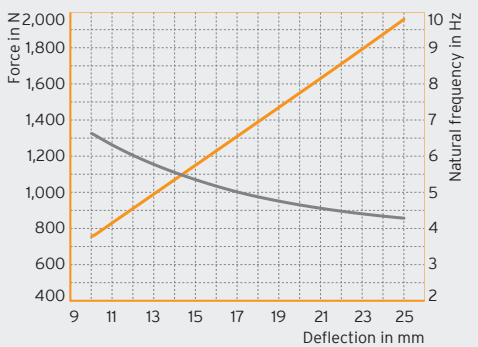
Isotop DSD 4



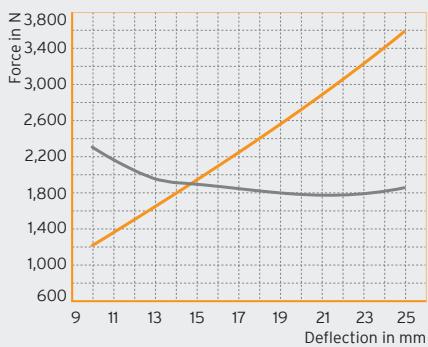
Isotop DSD 5



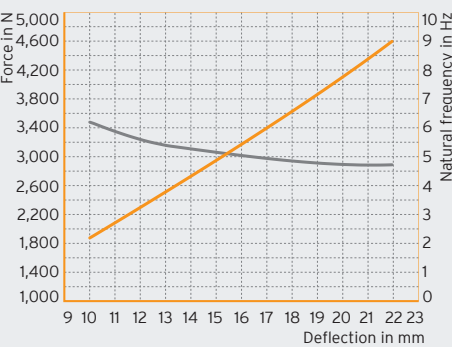
Isotop DSD 6



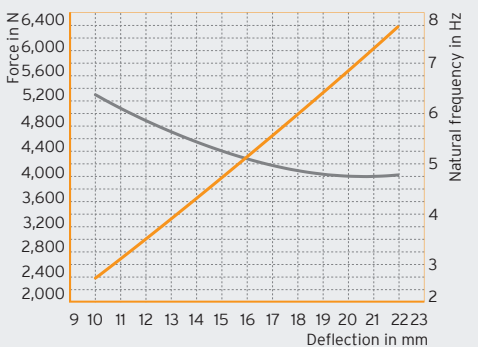
Isotop DSD 7



Isotop DSD 8



Isotop DSD 9



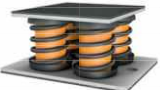
— Force in N
— Natural frequency in Hz



Isotop DSD-BL

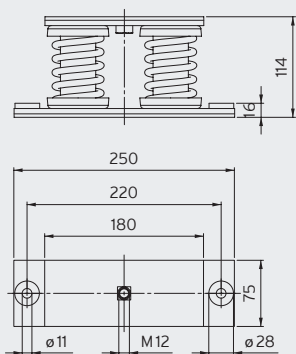
DSD steel spring block element with high-performance damper

- 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
- 6 mm top plate and base plate fitted with 4 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

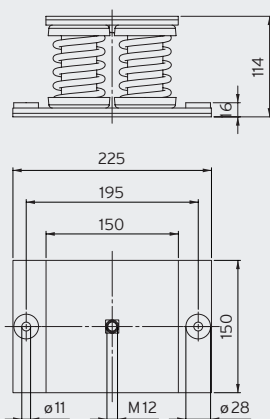
		Maximum load		Natural frequency at maximum load	Packaging unit	Order number
		in kg	in N			
DSD-BL 	Isotop DSD-BL2-62/70	400	3,924	4.3 Hz	4 pcs.	47257
	Isotop DSD-BL2-72/80	730	7,161	5.2 Hz	4 pcs.	47258
	Isotop DSD-BL2-82/90	940	9,221	4.7 Hz	4 pcs.	47264
	Isotop DSD-BL2-81/91	1,120	10,987	4.7 Hz	4 pcs.	47262
	Isotop DSD-BL2-80/92	1,300	12,753	4.6 Hz	4 pcs.	47260
	Isotop DSD-BL4-72/82	1,560	15,304	4.8 Hz	4 pcs.	47271
	Isotop DSD-BL4-84/90	1,880	18,443	4.7 Hz	4 pcs.	47275
	Isotop DSD-BL4-82/92	2,240	21,974	4.7 Hz	4 pcs.	47274
	Isotop DSD-BL4-80/94	2,600	25,506	4.6 Hz	4 pcs.	47272
	Isotop DSD-BL6-86/90	2,820	27,664	4.7 Hz	10 pcs.	47281
	Isotop DSD-BL6-80/96	3,900	38,259	4.6 Hz	10 pcs.	47280
	Isotop DSD-BL9-80/99	5,850	57,389	4.6 Hz	10 pcs.	47283

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

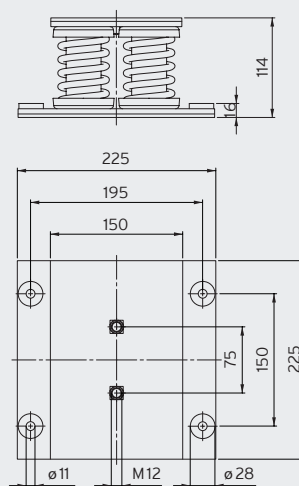
Isotop DSD-BL 2 (unloaded)



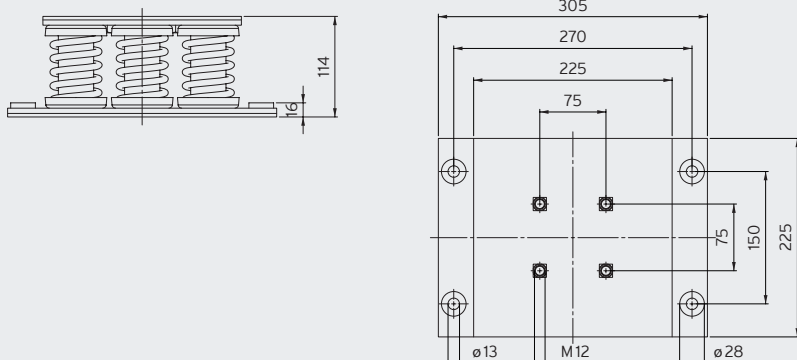
Isotop DSD-BL 4 (unloaded)



Isotop DSD-BL 6 (unloaded)



Isotop DSD-BL 9 (unloaded)



Isotop DSD-BL2 and DSD-BL4 optionally available with spacer base
Details on page 28



Customised block elements available on request

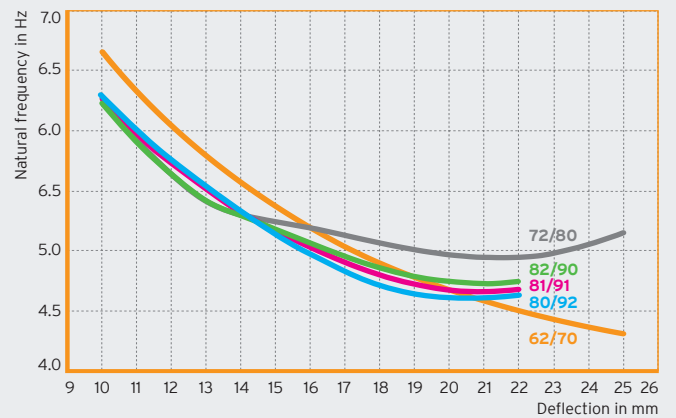
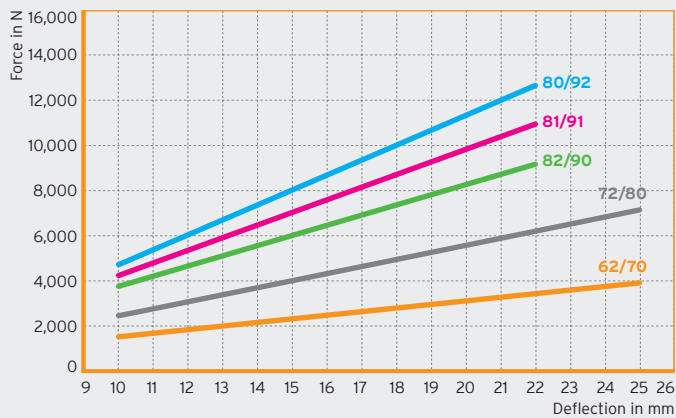


On-roof installation of an HVAC system with relatively high wind loads

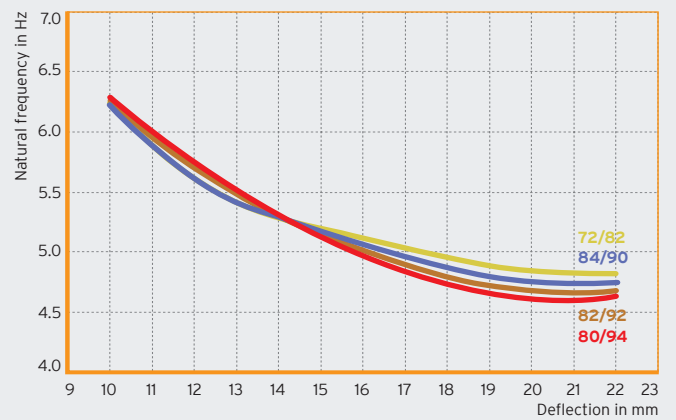
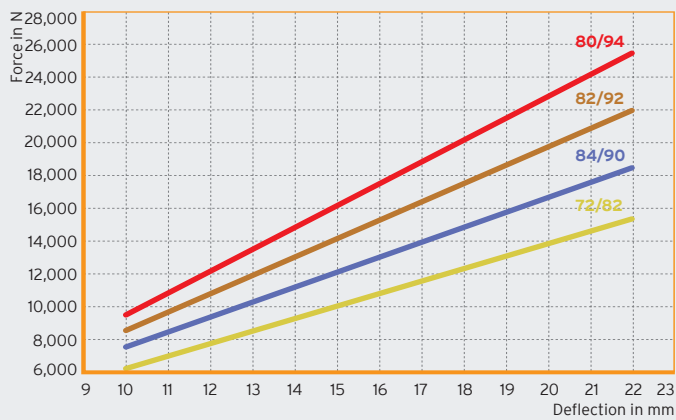


Large combined heat and power plant with several start-stop cycles

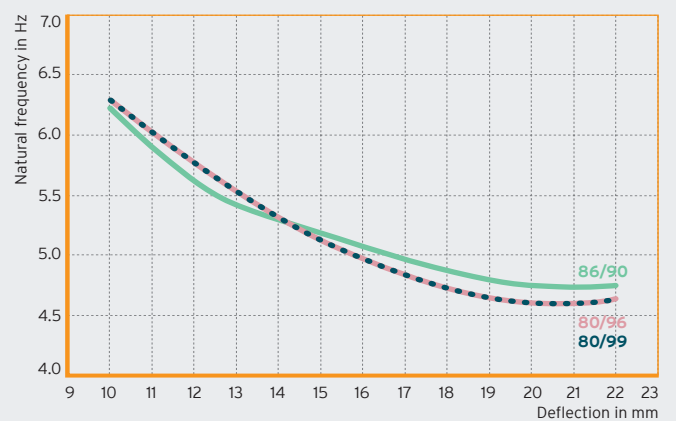
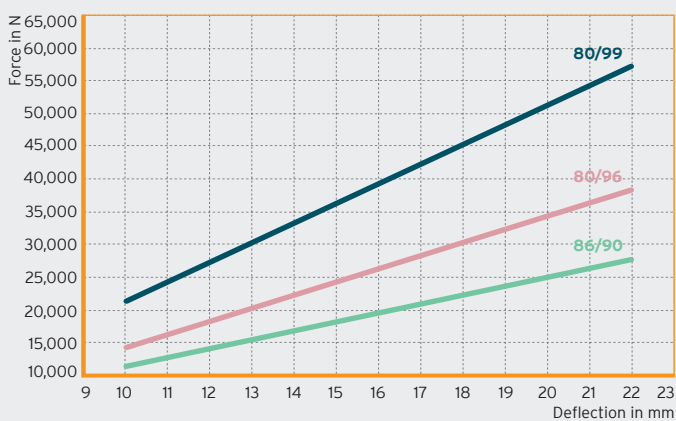
Isotop DSD-BL 2

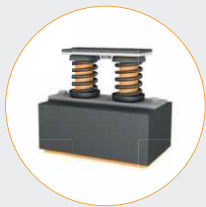


Isotop DSD-BL 4



Isotop DSD-BL 6 and DSD-BL 9





Isotop DT

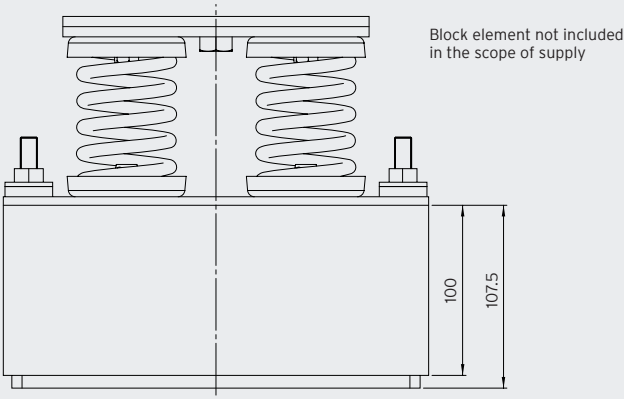
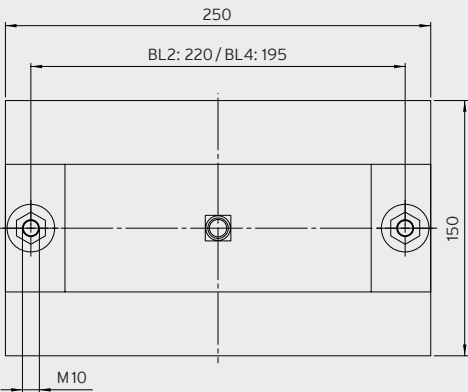
Spacer base with high chemical resistance

- High resistance to chemicals such as glycol thanks to polyethylene
- Includes anti-slip plate made from Sylodyn®
- Polyethylene spacer base
- Can be combined with Isotop SD-BL 2 and 4 as well as Isotop DSD-BL 2 and 4 (not included in the scope of supply)
- Screws for connecting the block elements are included in the scope of supply

		Maximum load in kg	Maximum load in N	Natural frequency at maximum load	Packaging unit	Order number
	Isotop DT	-	-	-	4 pcs.	47169

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

Isotop DT (unloaded)





Isotop DT pre-mounted on device frame



Unit installation with pre-mounted Isotop DT



Unit installation in the drip tray



Air conditioning unit with Isotop DT and Isotop DSD-BL2
(not included in the scope of supply)



Isotop MSN-DAMP

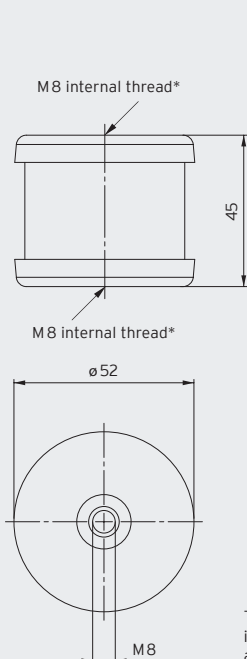
Vibration damper with metal caps and threaded fastening

- Natural frequency from 8.2 Hz
- Low overall height of 45 mm (T/T version)
- 37.5 mm 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

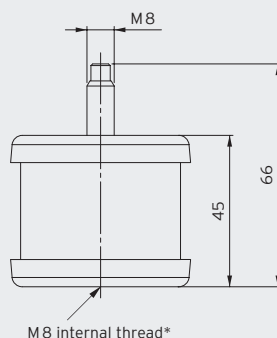
		Maximum load		Natural frequency at maximum load	Packaging unit	Order number
		in kg	in N			
MSN-DAMP T/T 	Isotop MSN-DAMP-70 T/T	7	68	8.9 Hz	OR	OR
	Isotop MSN-DAMP-110 T/T	11	107	11.1 Hz	50 pcs.	39501
	Isotop MSN-DAMP-170 T/T	21	206	9.1 Hz	50 pcs.	39502
	Isotop MSN-DAMP-280 T/T	31	304	8.2 Hz	OR	OR
	Isotop MSN-DAMP-350 T/T	37	362	8.5 Hz	50 pcs.	39503
MSN-DAMP B/T 	Isotop MSN-DAMP-70 B/T	7	68	8.9 Hz	OR	OR
	Isotop MSN-DAMP-110 B/T	11	107	11.1 Hz	50 pcs.	41715
	Isotop MSN-DAMP-170 B/T	21	206	9.1 Hz	50 pcs.	41716
	Isotop MSN-DAMP-280 B/T	31	304	8.2 Hz	OR	OR
	Isotop MSN-DAMP-350 B/T	37	362	8.5 Hz	50 pcs.	41717
MSN-DAMP B/B 	Isotop MSN-DAMP-70 B/B	7	68	8.9 Hz	OR	OR
	Isotop MSN-DAMP-110 B/B	11	107	11.1 Hz	50 pcs.	41720
	Isotop MSN-DAMP-170 B/B	21	206	9.1 Hz	50 pcs.	41721
	Isotop MSN-DAMP-280 B/B	31	304	8.2 Hz	OR	OR
	Isotop MSN-DAMP-350 B/B	37	362	8.5 Hz	50 pcs.	41722

OR ... On request

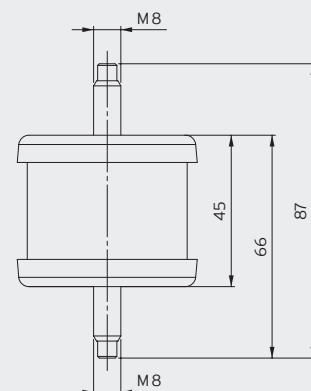
Isotop MSN-DAMP T/T (unloaded)



Isotop MSN-DAMP B/T (unloaded)



Isotop MSN-DAMP B/B (unloaded)



Thread reach into the internal thread max. approx. 15 mm



Bearing of a reciprocating compressor with Isotop MSN-DAMP

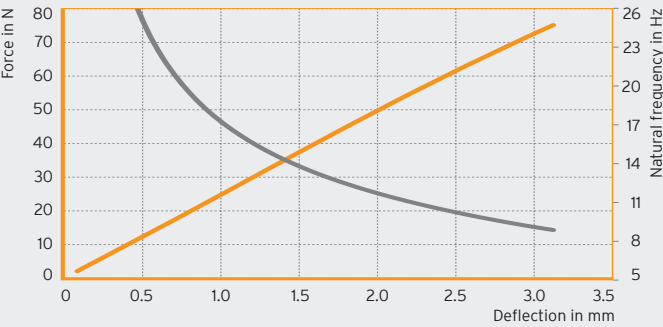


Bearing of a compressor assembly on an internal frame

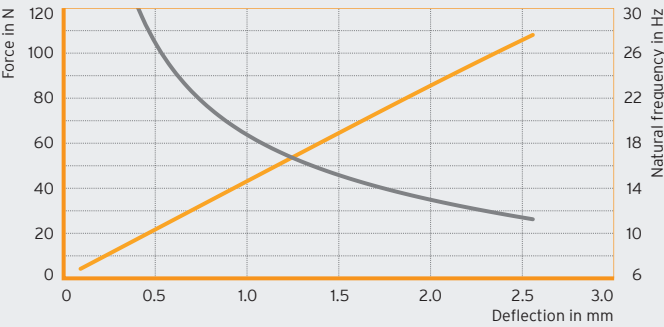


Compressor bearing concept with Sylomer® CGR and Isotop MSN-DAMP

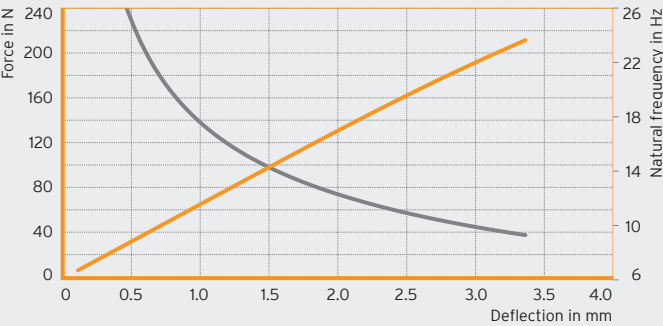
Isotop MSN-DAMP 70



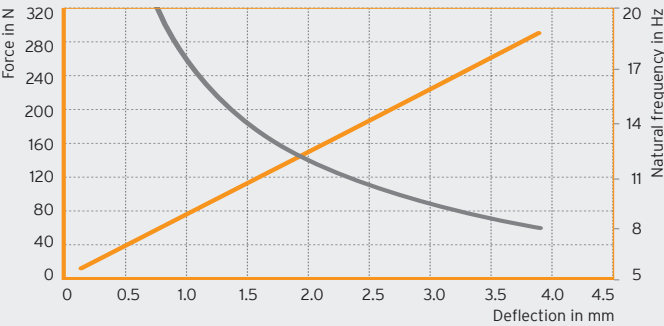
Isotop MSN-DAMP 110



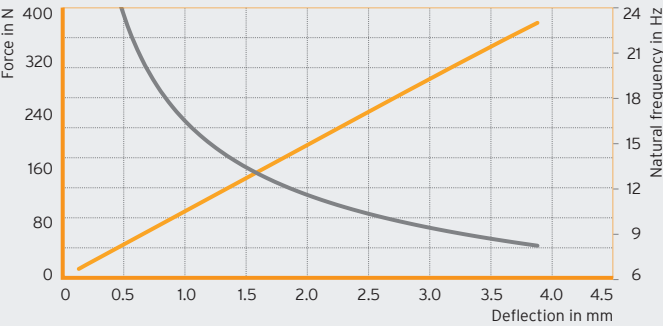
Isotop MSN-DAMP 170



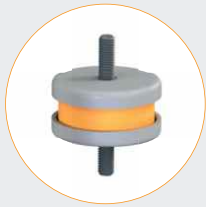
Isotop MSN-DAMP 280



Isotop MSN-DAMP 350



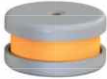
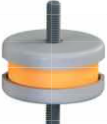
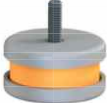
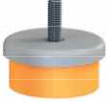
Force in N
Natural frequency in Hz



Isotop Compact

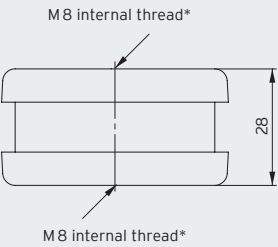
Vibration damper for low installation heights,
with diverse attachment options

- Natural frequency from 10 Hz
- Very low overall height of 28 mm (T/T version)
- Load capacity of up to 95 kg per element
- 25 mm 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 mounting (B/- version)

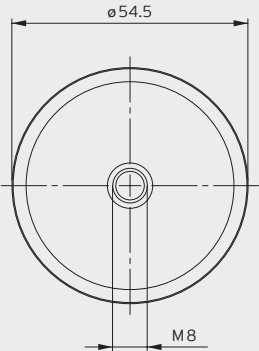
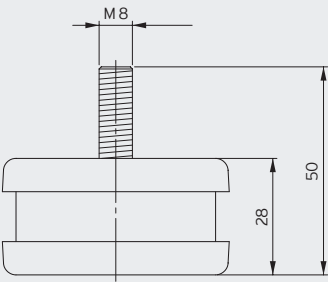
		Maximum load		Natural frequency at maximum load	Packaging unit	Order number
		in kg	in N			
Compact T/T 	Isotop Compact-4 T/T	4	41	12.1 Hz	50 pcs.	39504
	Isotop Compact-9 T/T	9	93	10.3 Hz	50 pcs.	39505
	Isotop Compact-15 T/T	15	147	11.5 Hz	50 pcs.	39506
	Isotop Compact-20 T/T	27	264	10.7 Hz	50 pcs.	39507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

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

Isotop Compact T/T (unloaded)

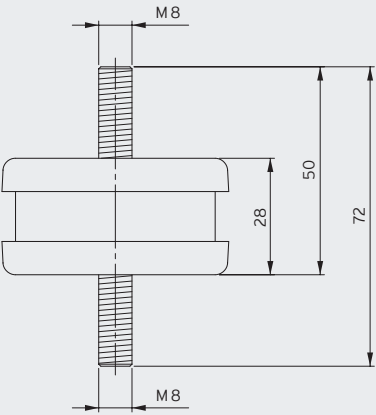


Isotop Compact B/T (unloaded)

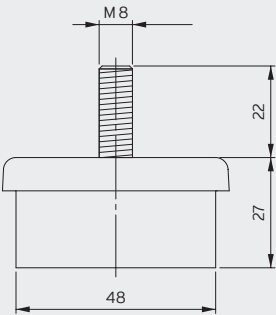


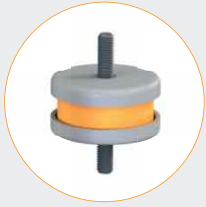
* Thread reach for internal thread max. 7 mm

Isotop Compact B/B (unloaded)



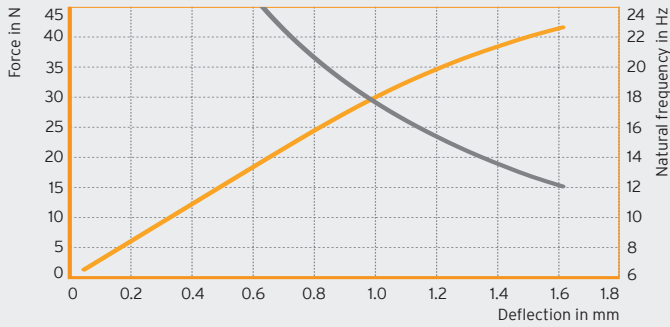
Isotop Compact B/- (unloaded)



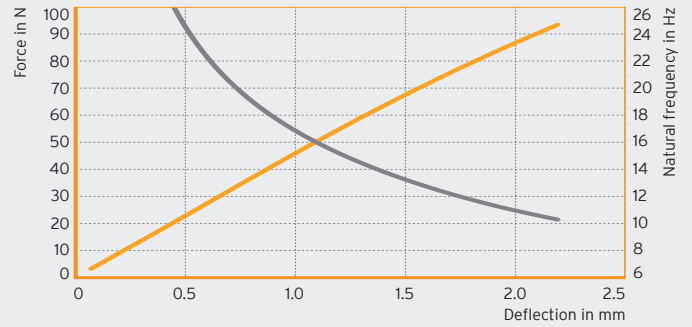


Isotop Compact

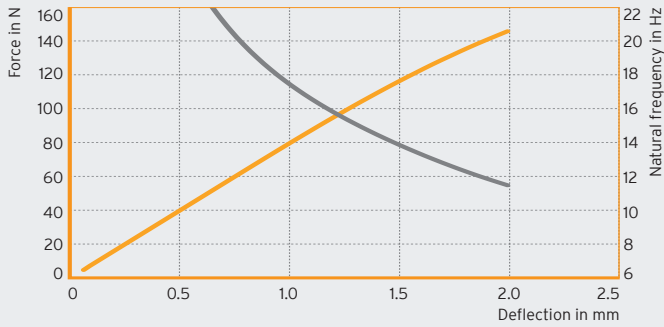
Isotop Compact 4



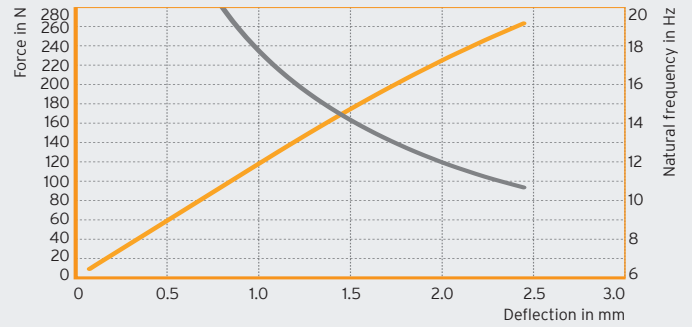
Isotop Compact 9



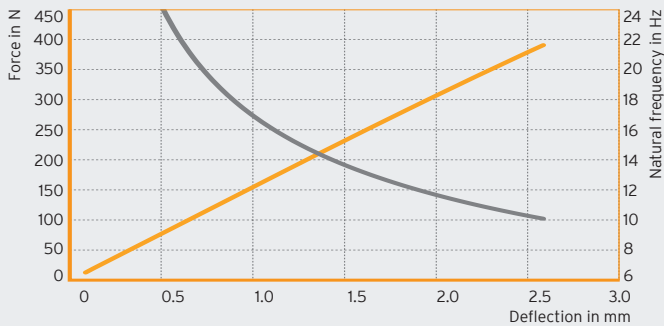
Isotop Compact 15



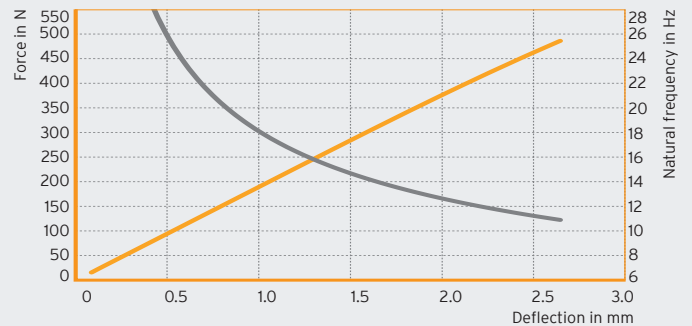
Isotop Compact 20



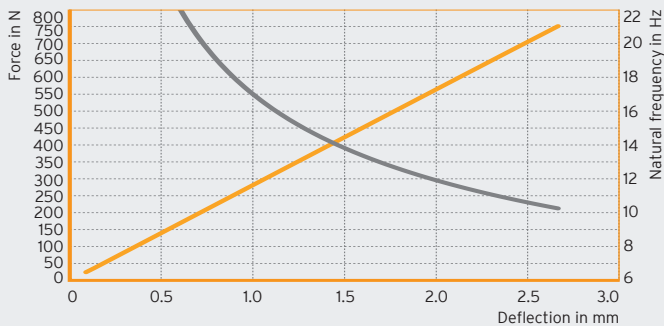
Isotop Compact 40



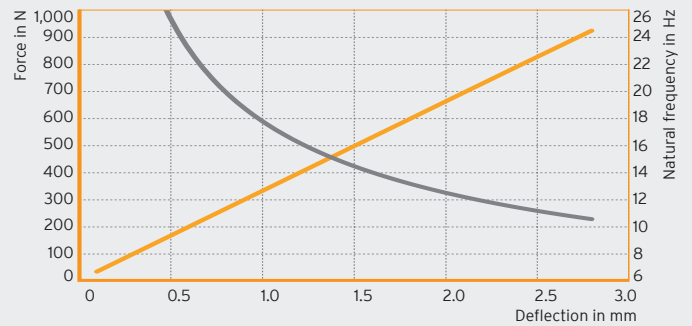
Isotop Compact 50



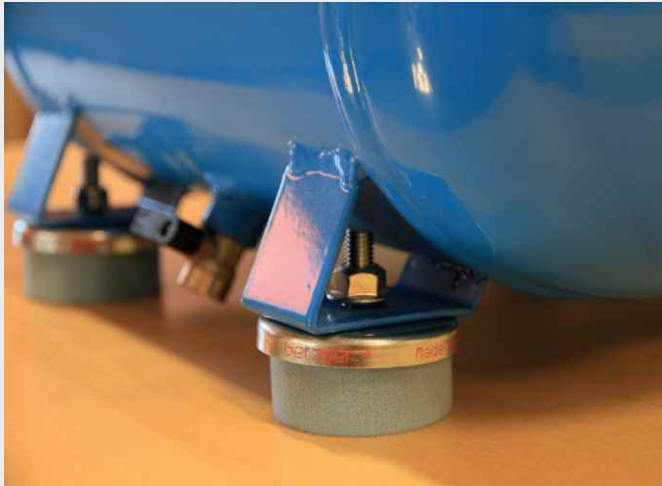
Isotop Compact 70



Isotop Compact 100



— Force in N
— Natural frequency in Hz



Small air compressor on Isotop Compact B/-



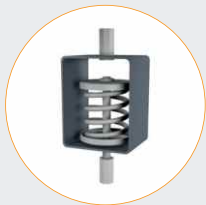
Heat pump bearing with Isotop Compact



External air conditioning unit on wall bracket



Bearing of a reciprocating compressor with 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 420 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			
MSN/Z 	Isotop MSN/Z 1	3	29	3.5 Hz	20 pcs.	39538
	Isotop MSN/Z 2	5	49	3.5 Hz	20 pcs.	38850
	Isotop MSN/Z 3	9	88	3.5 Hz	20 pcs.	38851
	Isotop MSN/Z 4	14	137	3.5 Hz	20 pcs.	38643
	Isotop MSN/Z 5	23	226	3.5 Hz	20 pcs.	38644
	Isotop MSN/Z 6	35	343	3.5 Hz	20 pcs.	38852
	Isotop MSN/Z 7	53	519	3.5 Hz	20 pcs.	38853
	Isotop MSN/Z 8	90	883	3.5 Hz	20 pcs.	39539
MSN/Z-LC 	Isotop MSN/Z-LC 1	3	29	3.5 Hz	100 pcs.	39540
	Isotop MSN/Z-LC 2	5	49	3.5 Hz	100 pcs.	39541
	Isotop MSN/Z-LC 3	9	88	3.5 Hz	100 pcs.	39542
	Isotop MSN/Z-LC 4	14	137	3.5 Hz	100 pcs.	39543
	Isotop MSN/Z-LC 5	23	226	3.5 Hz	100 pcs.	39544
	Isotop MSN/Z-LC 6	35	343	3.5 Hz	100 pcs.	38548
	Isotop MSN/Z-LC 7	53	519	3.5 Hz	100 pcs.	39545
	Isotop MSN/Z-LC 8	90	883	3.5 Hz	100 pcs.	39546
SD/Z 	Isotop SD/Z 1	20	196	3.2 Hz	20 pcs.	39547
	Isotop SD/Z 2	33	324	3.2 Hz	20 pcs.	39548
	Isotop SD/Z 3	52	510	3.2 Hz	20 pcs.	39549
	Isotop SD/Z 4	82	804	3.2 Hz	20 pcs.	39550
	Isotop SD/Z 5	123	1,206	3.2 Hz	20 pcs.	39551
	Isotop SD/Z 6	195	1,913	3.2 Hz	20 pcs.	39552
	Isotop SD/Z 7	310	3,041	3.2 Hz	20 pcs.	39553
	Isotop SD/Z 8	420	4,120	3.2 Hz	OR	OR

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

The Isotop SD/Z and MSN/Z ceiling hangers are only suitable for use as pipe suspension or for fans 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 regarding pressure equipment, these ceiling hangers are not suitable, as the maximum deflection is limited (see graph).



Pipework suspension with Isotop SD/Z

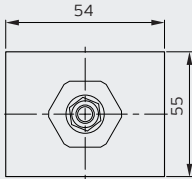
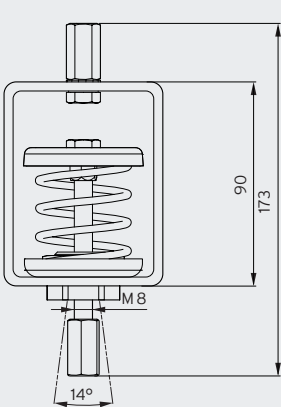


Decoupled pipes with Isotop SD/Z

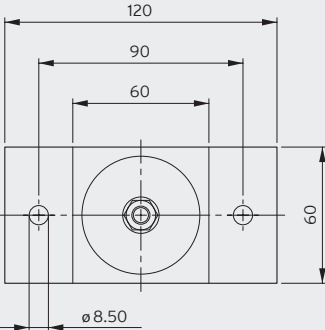
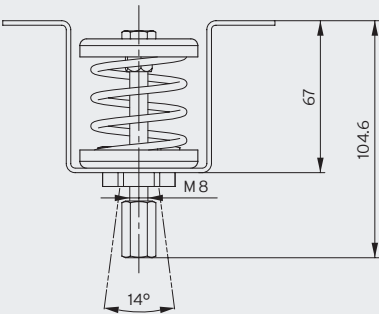


Ceiling hanger Isotop MSN/Z-LC

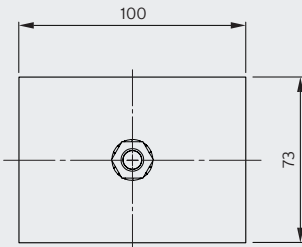
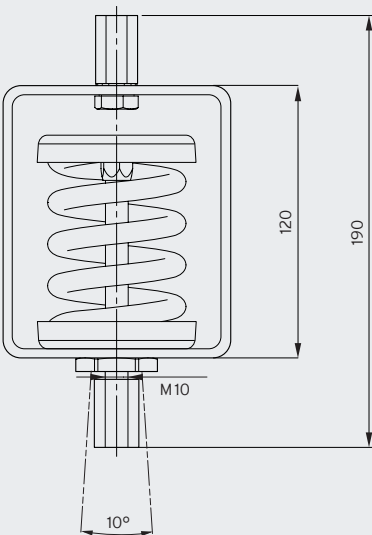
MSN/Z (unloaded)



MSN/Z-LC (unloaded)



SD/Z (unloaded)



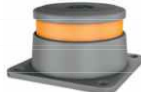


Isotop DZE

Pressure-tension element with high-performance damper

- Natural frequency from 7 Hz
- Resistant to compression and tension
- Reduces high amplitudes
- 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			
DZE Mini 	Isotop DZE Mini NB SP1		9	88	10.3 Hz	10 pcs.	43799
	Isotop DZE Mini NC SP1		17	167	10.7 Hz	10 pcs.	43800
	Isotop DZE Mini ND SP3		38	373	10.1 Hz	10 pcs.	43801
	Isotop DZE Mini NE SP3		75	735	10.3 Hz	10 pcs.	43802
	Isotop DZE Mini NF SP3		110	1,079	10.1 Hz	10 pcs.	43803
	Isotop DZE Mini HRB 3 SP3		230	2,256	11.6 Hz	10 pcs.	43804

DZE 	Isotop DZE-1-NB-SP	Single layer	28	275	10.3 Hz	10 pcs.	39614
	Isotop DZE-1-NC-SP	Single layer	55	540	10.1 Hz	10 pcs.	39615
	Isotop DZE-1-ND-SP	Single layer	122	1,196	9.9 Hz	10 pcs.	39616
	Isotop DZE-1-NE-SP	Single layer	238	2,305	10.1 Hz	10 pcs.	39617
	Isotop DZE-1-HLL-SP5	Single layer	800	7,848	12.0 Hz	10 pcs.	39618
	Isotop DZE-1-HLH-SP5	Single layer	1,030	10,104	11.5 Hz	10 pcs.	39619
	Isotop DZE-2-NB-SP	Double layer	25	245	7.2 Hz	10 pcs.	39442
	Isotop DZE-2-NC-SP	Double layer	48	471	7.6 Hz	10 pcs.	39620
	Isotop DZE-2-ND-SP	Double layer	107	1,050	7.0 Hz	10 pcs.	39621
	Isotop DZE-2-NE-SP	Double layer	205	2,011	7.1 Hz	10 pcs.	39622
	Isotop DZE-2-HLL-SP5	Double layer	630	6,180	8.1 Hz	10 pcs.	39623
	Isotop DZE-2-HLH-SP5	Double layer	820	8,044	7.7 Hz	10 pcs.	39624

DZE-BL 	Isotop DZE-1-BL2-HLH-SP5	Single layer	2,065	20,258	11.5 Hz	10 pcs.	42595
	Isotop DZE-1-BL4-HLH-SP5	Single layer	4,135	40,564	11.5 Hz	10 pcs.	42597
	Isotop DZE-2-BL2-HLH-SP5	Double layer	1,635	16,039	7.7 Hz	10 pcs.	42598
	Isotop DZE-2-BL4-HLH-SP5	Double layer	3,270	32,079	7.7 Hz	10 pcs.	42599

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

Tensile forces

Type	Maximum tensile force
Isotop DZE Mini NB and NC	0.3 kN
Isotop DZE Mini ND to HRB	1.1 kN
Isotop DZE-1 NB to NE	2.7 kN
Isotop DZE-1 HLL and HLH	4.0 kN
Isotop DZE-2 NB to NE	2.7 kN
Isotop DZE-2 HLL and HLH	4.0 kN
Isotop DZE-x-BL2-HLH	8.0 kN
Isotop DZE-x-BL4-HLH	16.0 kN

Note: Tensile forces correspond to the impact area of application of Sylodamp® (brief dynamic loads) according to the data sheet. The mechanical strength of the metal components is higher.

Isotop DZE Railway is also available especially for rolling stock!





Recoiler with Isotop DZE versus high wind loads

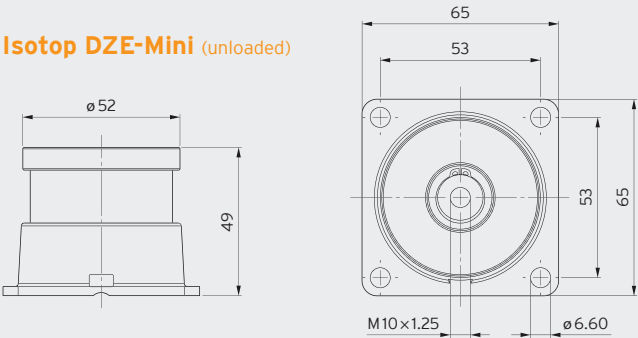


Bearing of a reciprocating compressor with Isotop DZE Mini



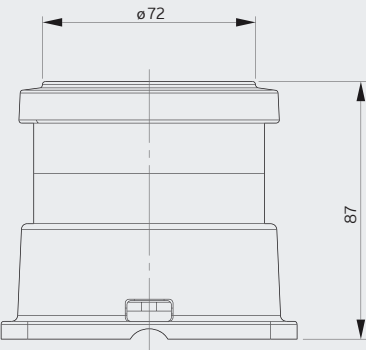
Pump with Isotop DZE to compensate for high dynamic operating forces

Isotop DZE-Mini (unloaded)

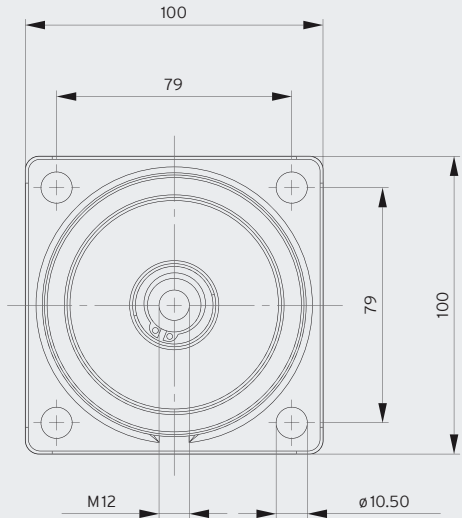
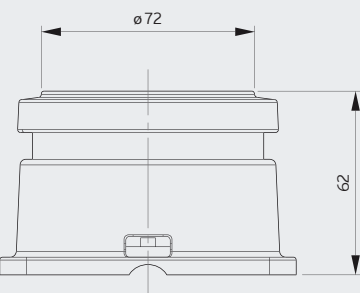


Please note: a 1.25 mm fine-pitch thread is required to make the connection

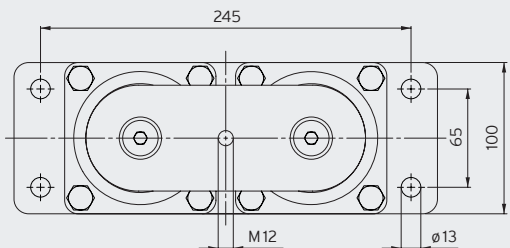
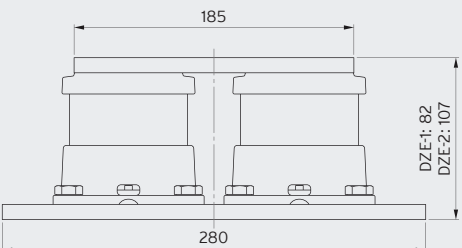
Isotop DZE-2 (unloaded)



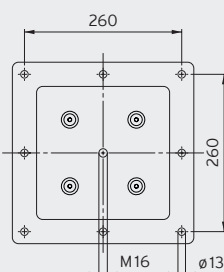
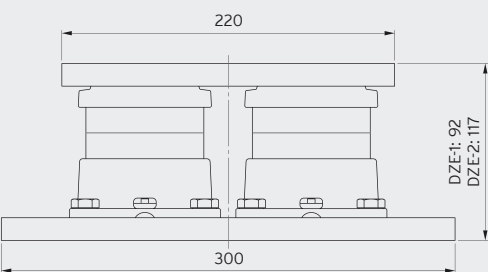
Isotop DZE-1 (unloaded)



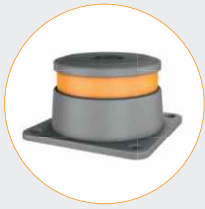
Isotop DZE-x-BL 2 (unloaded)



Isotop DZE-x-BL 4 (unloaded)

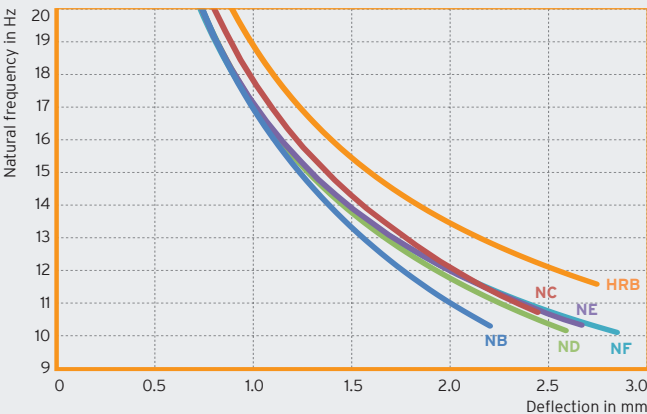
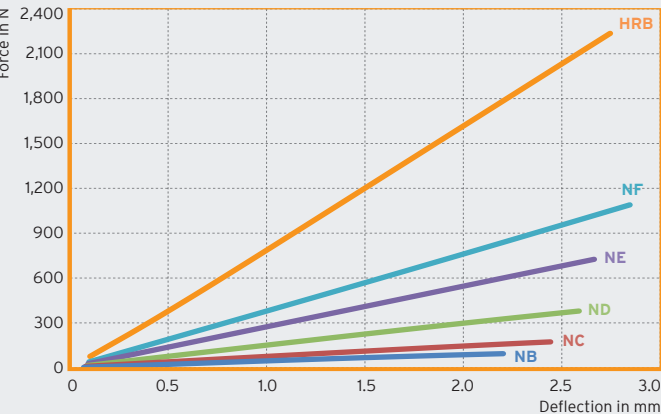


Customised block elements available on request

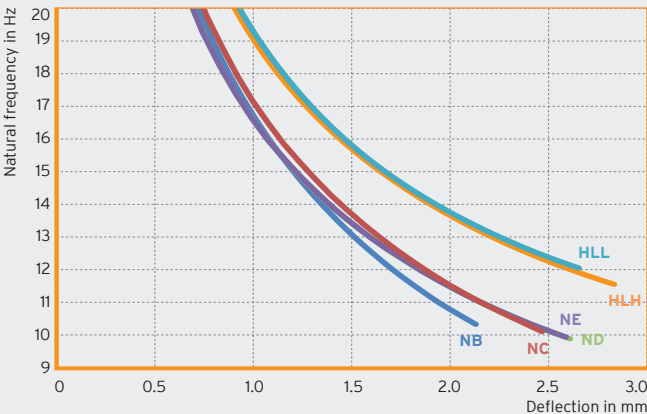
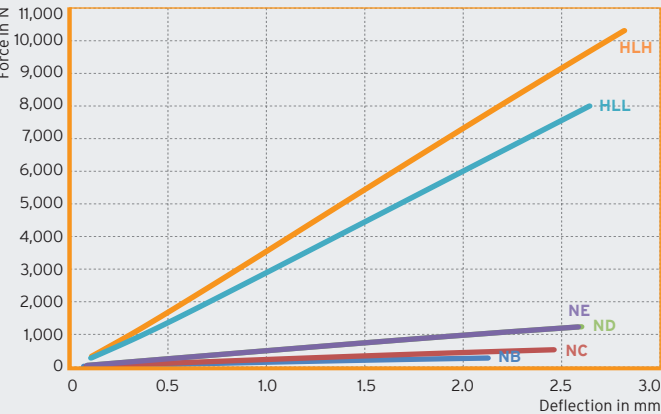


Isotop DZE

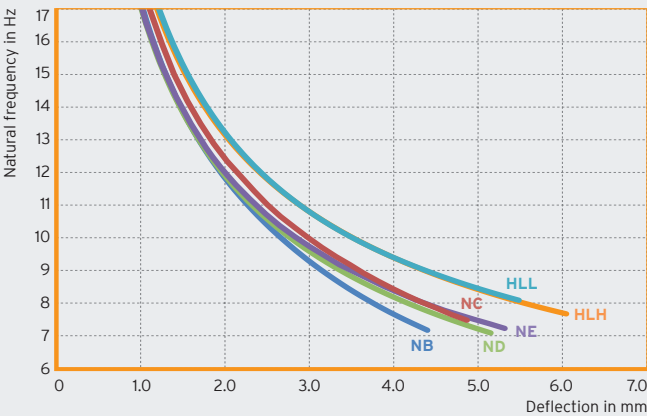
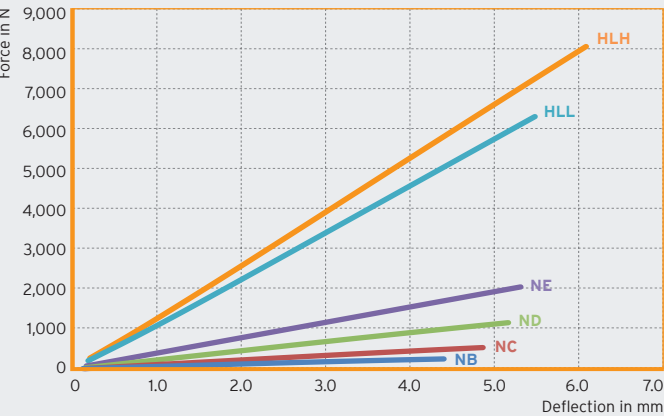
Isotop DZE Mini



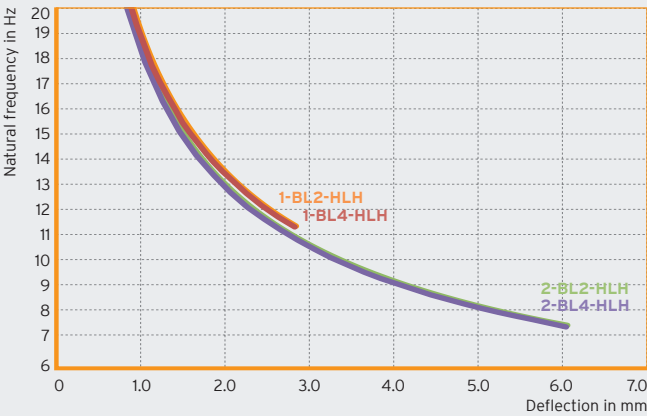
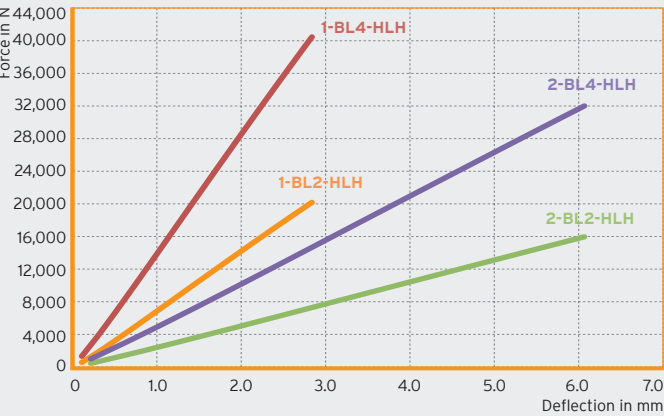
Isotop DZE-1

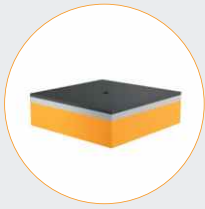


Isotop DZE-2



Isotop DZE-x-BL





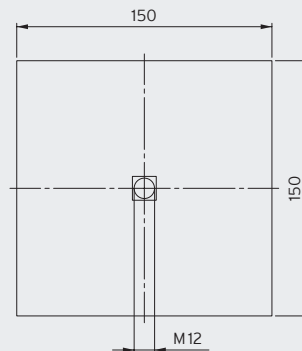
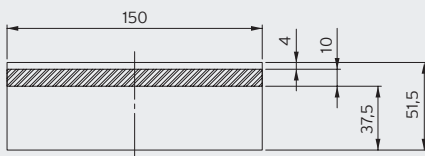
Isotop SE pro

Sandwich element with high-end vibration isolation

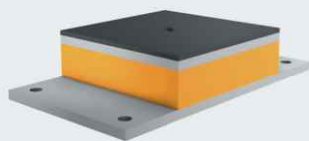
- Natural frequency from 7.9 Hz
- Top plate fitted with 4 mm Sylomer® anti-slip plate
- 10 mm hot dip galvanised steel plate for pressure distribution
- Insulating layer made from 37.5 mm Sylomer® or Sylodyn®
- M12 internal thread for easy screw-fixing
- Suitable for different frame widths
- Quick and easy to install

			Maximum load		Natural frequency at maximum load	Packaging unit	Order number
			in kg	in N			
 SE pro	Isotop SE pro 9-1	Single layer	90	883	9.6 Hz	12 pcs.	47527
	Isotop SE pro 14-1	Single layer	148	1,452	8.5 Hz	12 pcs.	46528
	Isotop SE pro 28-1	Single layer	285	2,796	7.9 Hz	12 pcs.	46529
	Isotop SE pro 67-1	Single layer	670	6,573	7.9 Hz	12 pcs.	46530
	Isotop SE pro 133-1	Single layer	1,330	13,048	8.2 Hz	12 pcs.	46532
	Isotop SE pro 225-1	Single layer	2,250	22,073	8.1 Hz	12 pcs.	46533

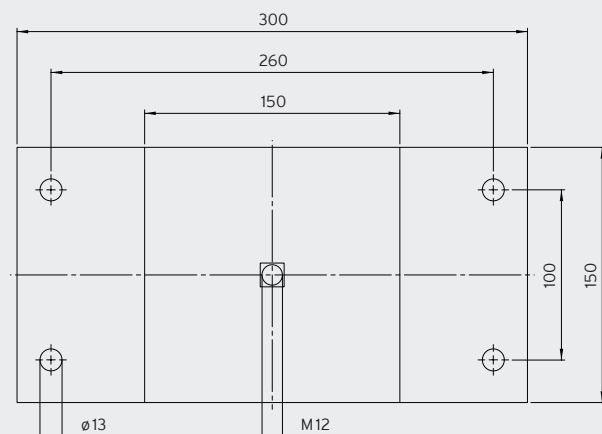
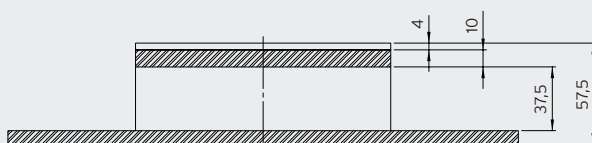
Isotop SE pro (unloaded)



Pre-mounted base plate available on request



Isotop SE pro with base plate (unloaded)





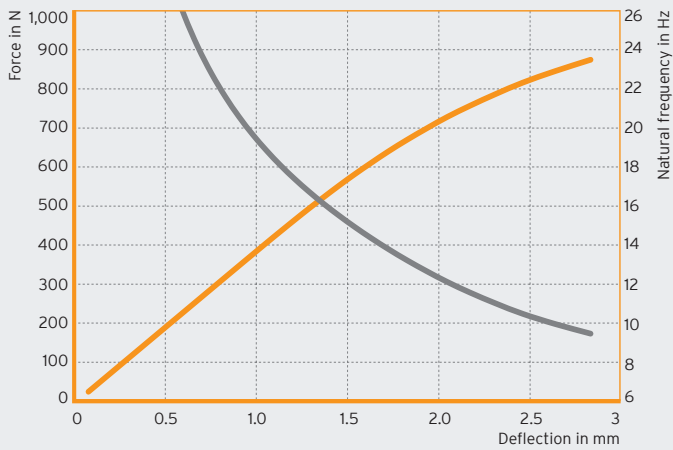
Isotop SE pro



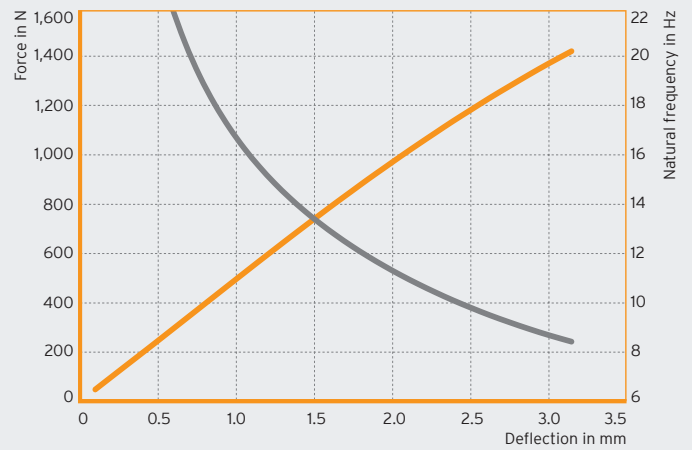
Air conditioning unit on Isotop SE pro

— Force in N
— Natural frequency in Hz

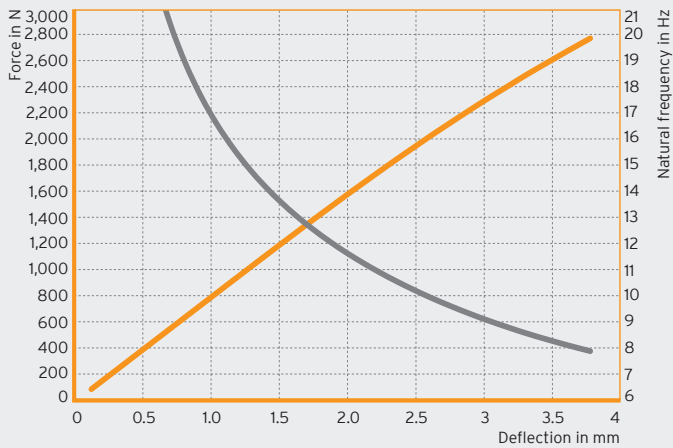
Isotop SE pro 9-1



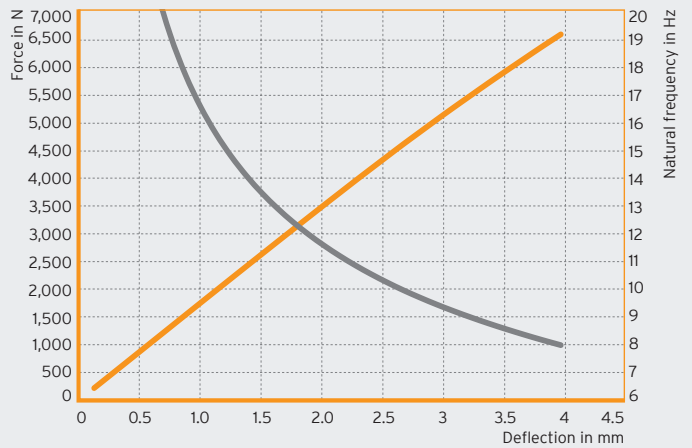
Isotop SE pro 14-1



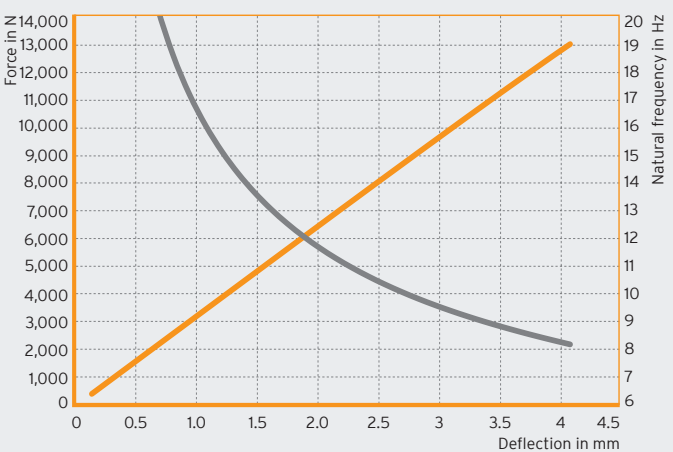
Isotop SE pro 28-1



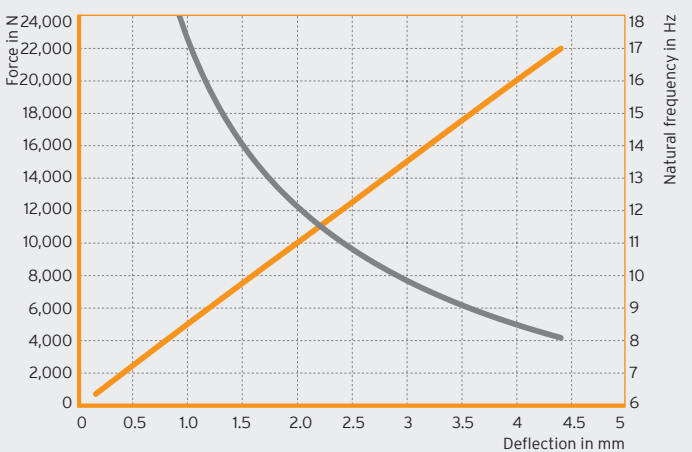
Isotop SE pro 67-1



Isotop SE pro 133-1



Isotop SE pro 225-1





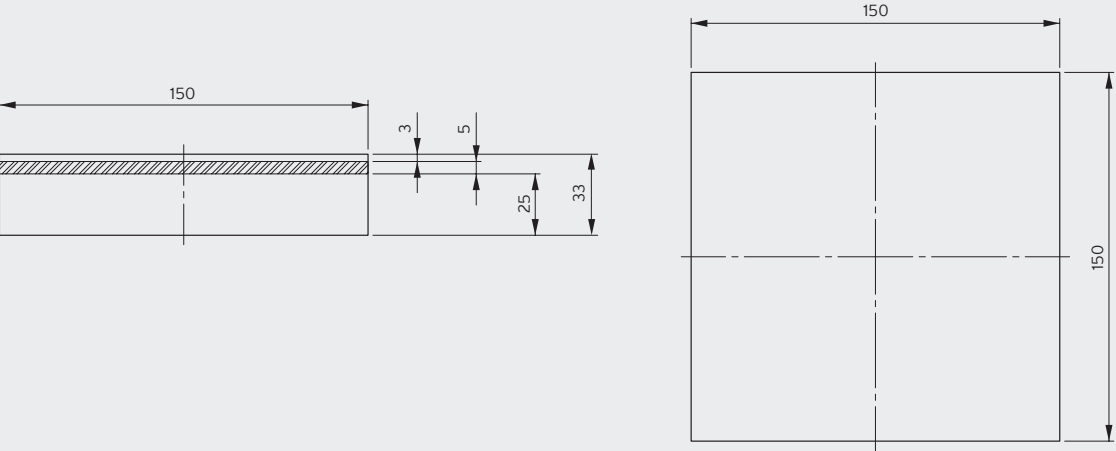
Isotop SE light

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 plate
 - 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			
SE light	Isotop SE light 6-1	Single layer	63	618	12.7 Hz	4 pcs.	45949
	Isotop SE light 12-1	Single layer	123	1,206	11.7 Hz	4 pcs.	45950
	Isotop SE light 24-1	Single layer	240	2,354	11.8 Hz	4 pcs.	45951
	Isotop SE light 47-1	Single layer	470	4,610	10.8 Hz	4 pcs.	45952
	Isotop SE light 93-1	Single layer	930	9,123	11.0 Hz	4 pcs.	45953

Isotop SE light (unloaded)



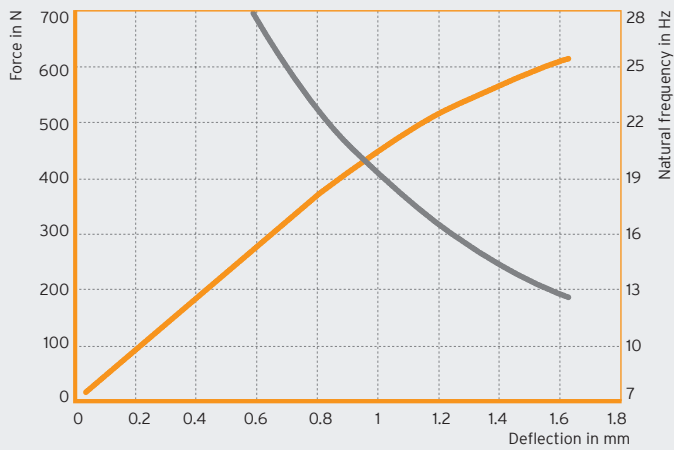


Isotop SE light

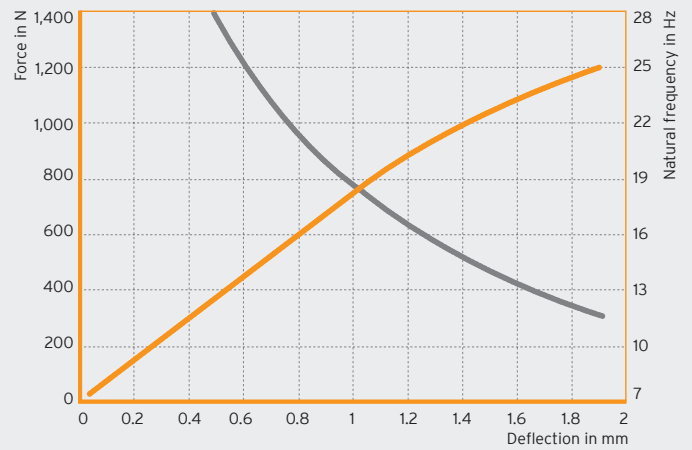


Air conditioning unit on Isotop SE light

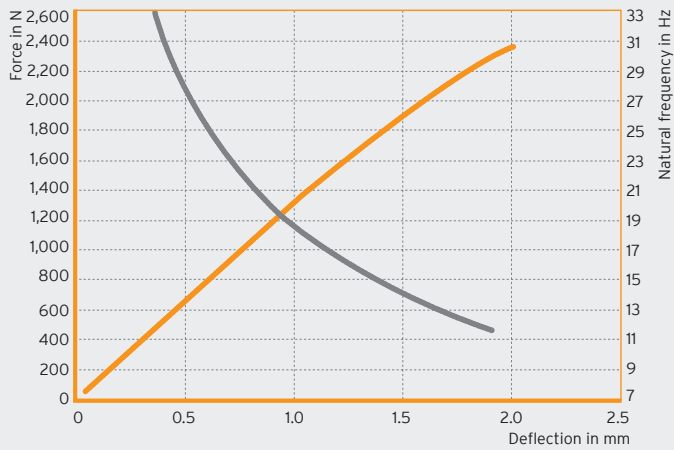
Isotop SE light 6-1



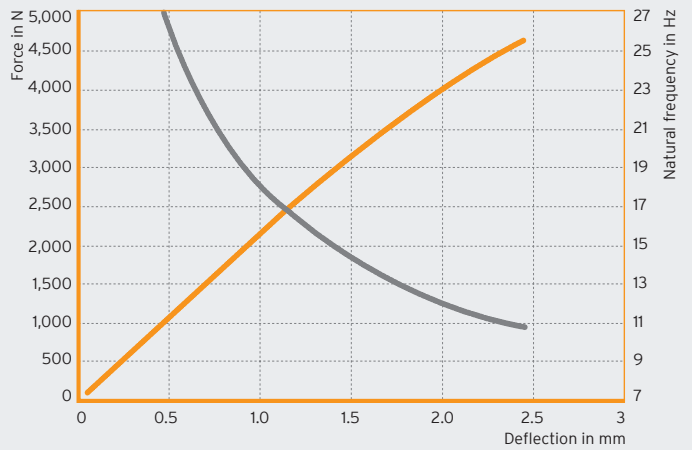
Isotop SE light 12-1



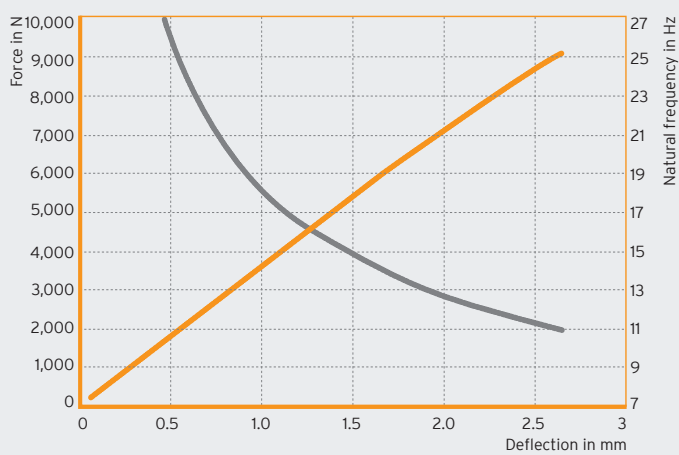
Isotop SE light 24-1



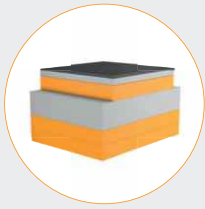
Isotop SE light 47-1



Isotop SE light 93-1



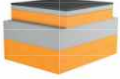
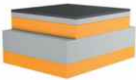
— Force in N
— Natural frequency in Hz



Isotop SE-DE and SE-DE Elevator

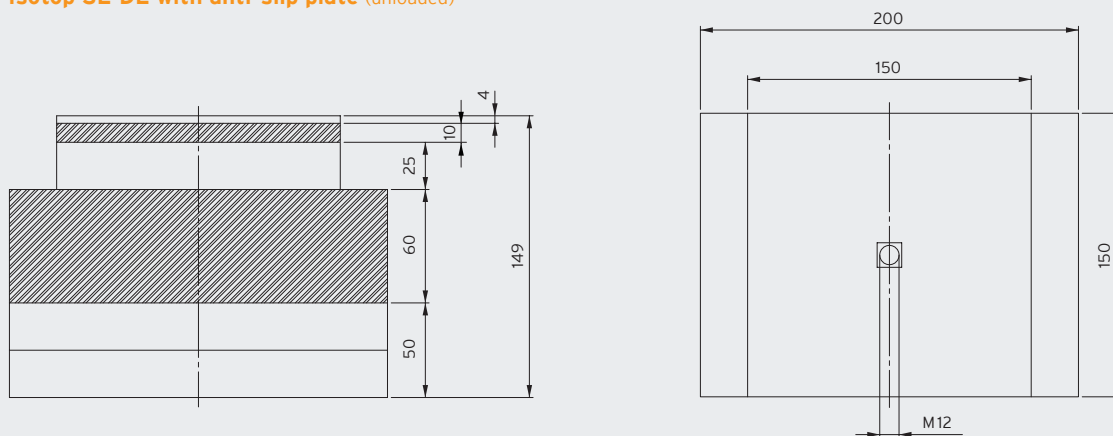
Sandwich element with double-elastic bearing

- Natural frequency from 5.7 Hz
- Sylomer® or Sylodyn® inside
- Category EL-3 according to DIN 8989 (VDI 2566)
- Top plate fitted with 4 mm Sylomer® anti-slip plate
- 10 mm hot dip galvanised steel plate for pressure distribution
- 60 mm thick, heavy settling mass
- M12 internal thread for easy screw-fixing
- Quick and easy to install

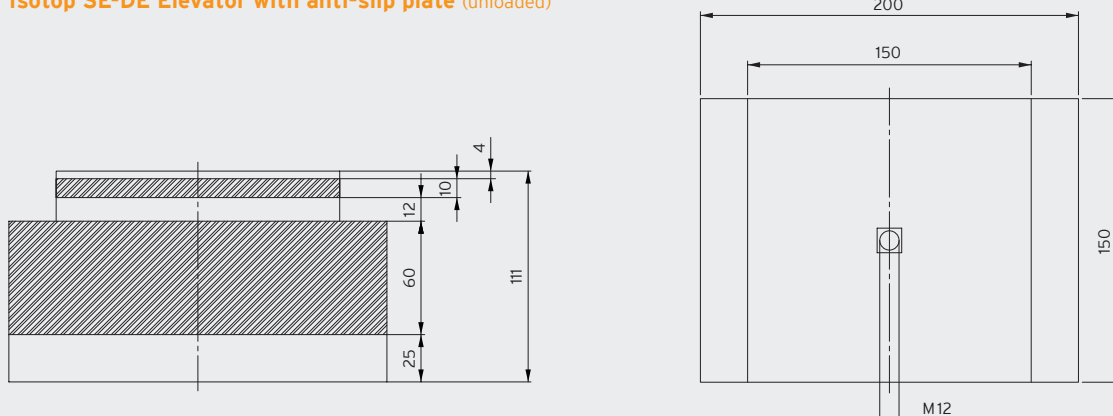
		Maximum load		Natural frequency at maximum load	Packaging unit	Order number
		in kg	in N			
SE-DE 	Isotop SE-DE 10	105	1,030	6.6 Hz	4 pcs.	47270
	Isotop SE-DE 13	142	1,393	7.0 Hz	4 pcs.	47263
	Isotop SE-DE 30	285	2,795	7.0 Hz	4 pcs.	47268
	Isotop SE-DE 50	550	5,395	6.6 Hz	4 pcs.	47266
	Isotop SE-DE 100	1,080	10,594	6.5 Hz	OR	OR
	Isotop SE-DE 170	1,730	16,971	6.5 Hz	OR	OR
	Isotop SE-DE 280	2,840	27,860	5.7 Hz	OR	OR
SE-DE Elevator 	Isotop SE-DE Elevator 13	150	1,471	10.4 Hz	OR	OR
	Isotop SE-DE Elevator 30	310	3,041	10.2 Hz	OR	OR
	Isotop SE-DE Elevator 50	620	6,082	9.5 Hz	20 pcs.	47250
	Isotop SE-DE Elevator 100	1,250	12,262	9.5 Hz	4 pcs.	47247
	Isotop SE-DE Elevator 170	2,190	21,483	9.5 Hz	4 pcs.	47245
	Isotop SE-DE Elevator 280	3,480	34,138	8.8 Hz	4 pcs.	47243

SE-DE and SE-DE Elevator not stock items. Delivery time on request (approx. 15 working days from the factory)
OR ... On request

Isotop SE-DE with anti-slip plate (unloaded)



Isotop SE-DE Elevator with anti-slip plate (unloaded)



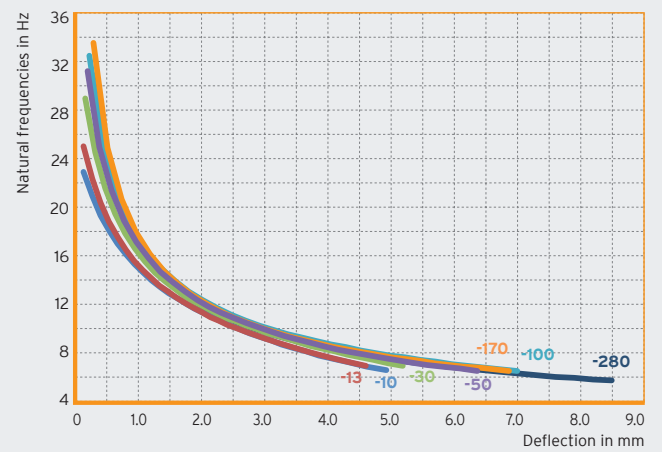
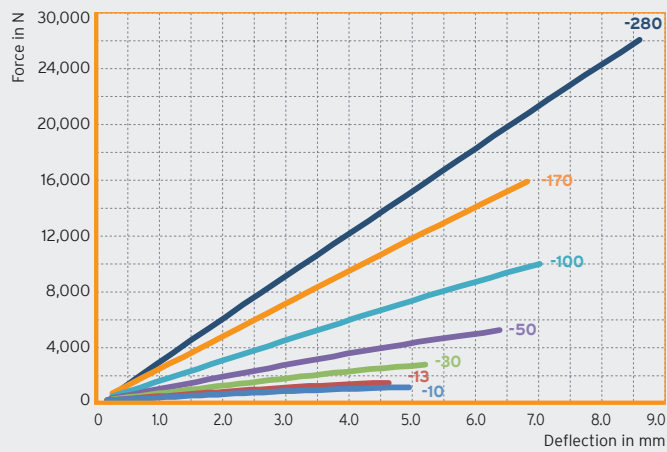


Bearing of a lift system with overhead cable guide

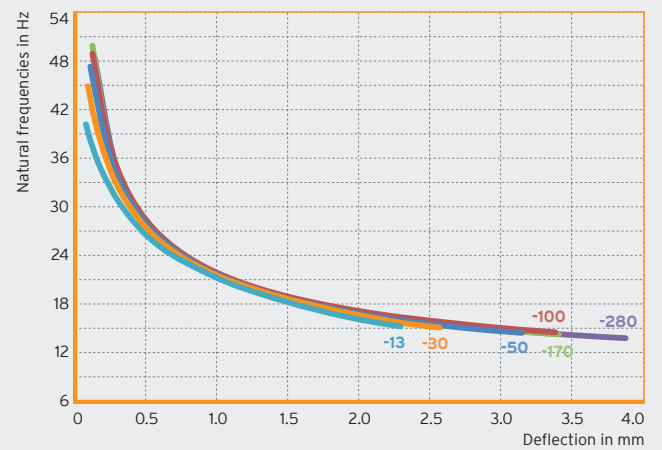
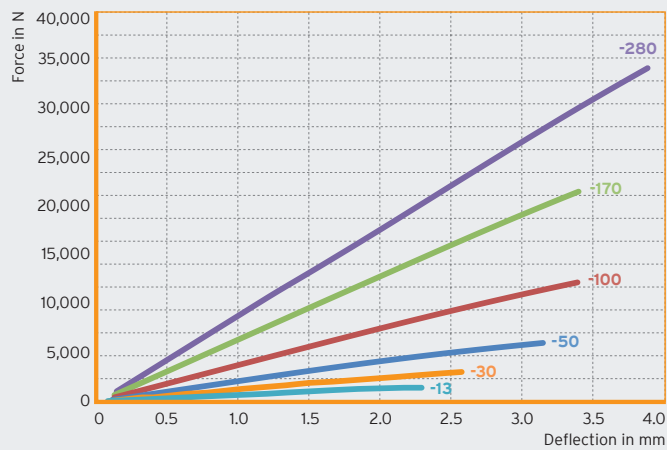


Chiller indoor unit

Isotop SE-DE



Isotop SE-DE Elevator





Isotop ENI

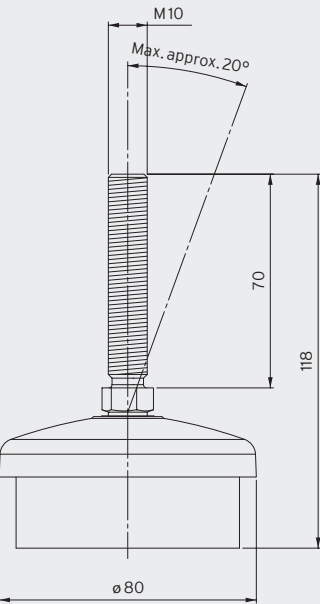
Structure-borne noise-insulated machine mountings with ball-and-socket joint

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

				Material thickness	Maximum load in kg 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.	45150	
	Isotop ENI-115-25-80	M10	25 mm	115	1,128	10.9 Hz	50 pcs.	45152	
	Isotop ENI-175-25-80	M10	25 mm	176	1,726	10.8 Hz	50 pcs.	45154	
	Isotop ENI-285-25-80	M10	25 mm	285	2,795	10.0 Hz	50 pcs.	45155	

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

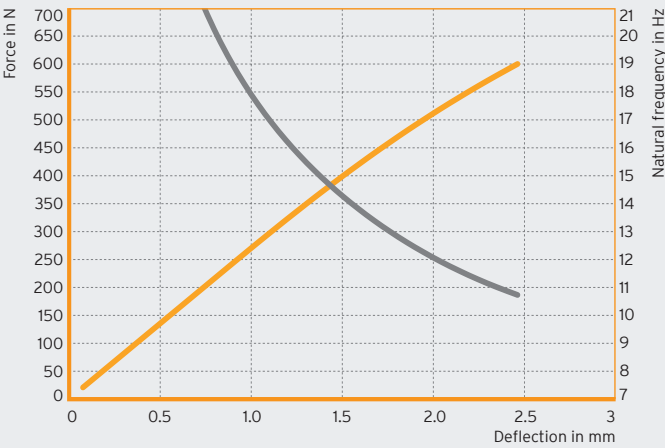
Isotop ENI-xx-25-80 (unloaded)



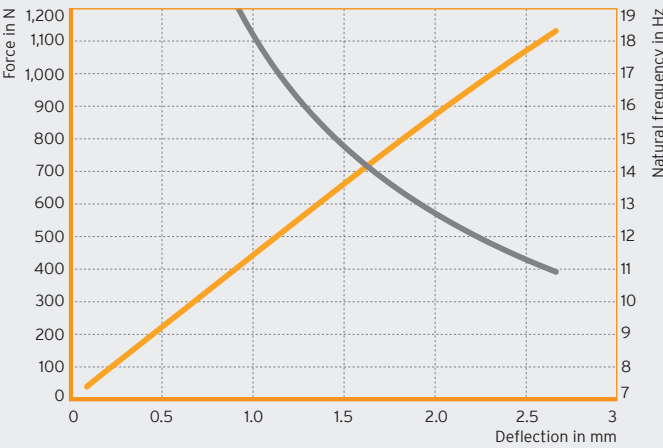


HVAC system installed in cellar

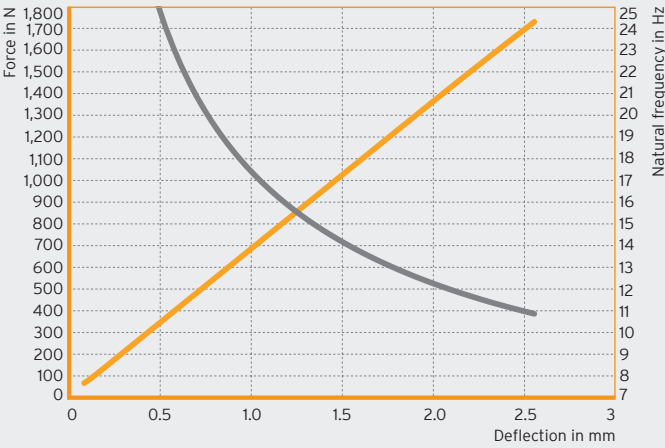
Isotop ENI 60-25-80



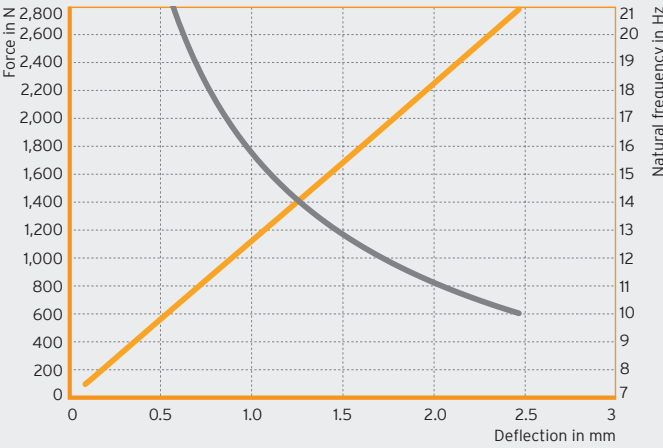
Isotop ENI 115-25-80



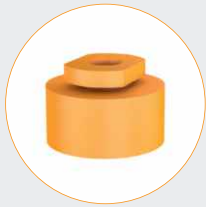
Isotop ENI 175-25-80



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

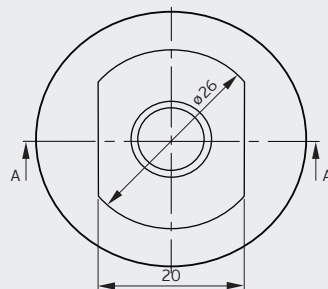
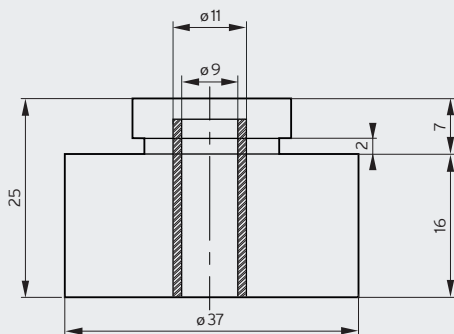
	Type	Dimension	Maximum load		Natural frequency at maximum load	Packaging unit	Order number
			in kg	in N			
Compressor Grommet CGR 	CGR-3-37x25-M8-S	37 x 25 mm	3	29	14.0 Hz	1 set (= 48 pcs.)	42177
	CGR-6-37x25-M8-S	37 x 25 mm	6	59	13.7 Hz	1 set (= 48 pcs.)	42178
	CGR-10-37x25-M8-S	37 x 25 mm	10	98	12.7 Hz	1 set (= 48 pcs.)	41652
	CGR-20-37x25-M8-S	37 x 25 mm	20	196	13.0 Hz	1 set (= 48 pcs.)	42179

Purchasing quantity = packaging unit or multiple thereof

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

Purchasing quantity = packaging unit or multiple thereof

Sylomer® Compressor Grommet CGR (unloaded)



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

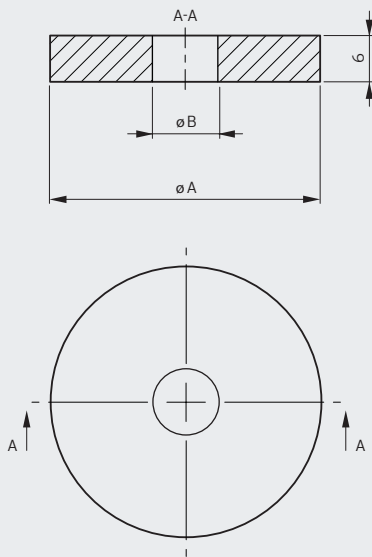


Sylomer® Compressor Grommet CGR

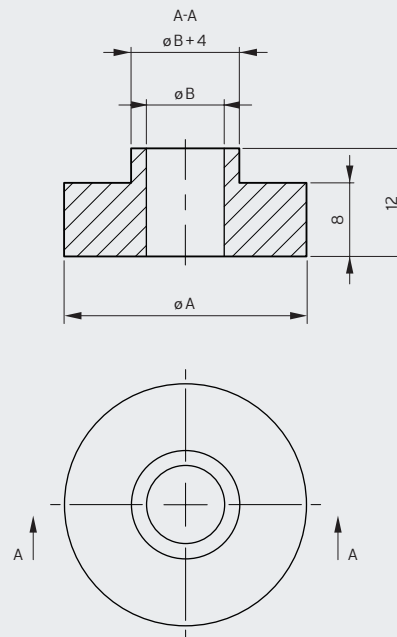


Elastic Washer EW

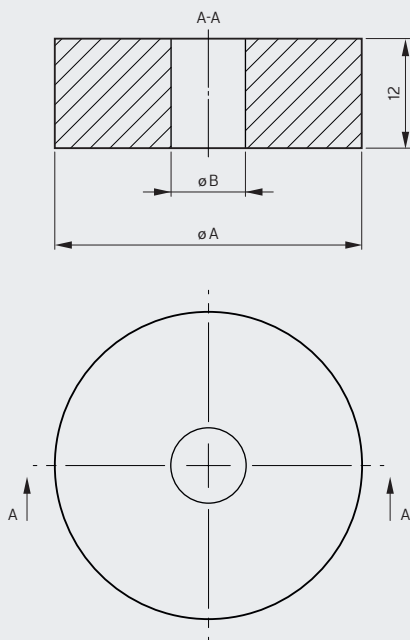
EW Mxx-6 (unloaded)



EW Mxx-8 (unloaded)



EW Mxx-12 (unloaded)





Isotop Transformer Pad TR

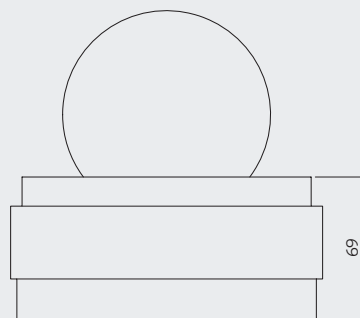
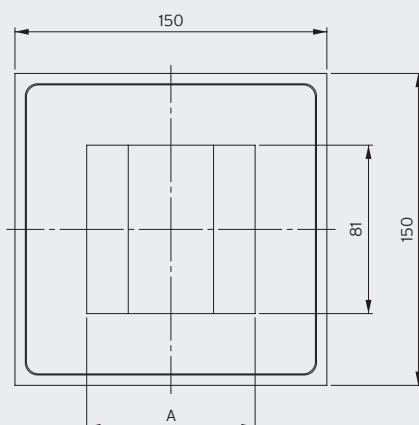
High-performance pads for transformers with wheels

- Natural frequencies from 8.5 Hz
- Sylodyn® 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.)	43099
	TR-1000/150-100	up to 100 mm	1,000	9,810	9.5 Hz	1 set (= 4 pcs.)	43100
	TR-2500/150-100	up to 100 mm	2,500	24,525	9.9 Hz	1 set (= 4 pcs.)	43101
	TR-5000/150-100	up to 100 mm	5,000	49,050	9.7 Hz	1 set (= 4 pcs.)	43102
	TR-10000/150-100	up to 100 mm	10,000	98,100	8.5 Hz	1 set (= 4 pcs.)	43103
	TR-400/150-150	101 - 150 mm	400	3,925	11.3 Hz	1 set (= 4 pcs.)	43202
	TR-1000/150-150	101 - 150 mm	1,000	9,810	9.5 Hz	1 set (= 4 pcs.)	43204
	TR-2500/150-150	101 - 150 mm	2,500	24,525	9.9 Hz	1 set (= 4 pcs.)	43206
	TR-5000/150-150	101 - 150 mm	5,000	49,050	9.7 Hz	1 set (= 4 pcs.)	43208
	TR-10000/150-150	101 - 150 mm	10,000	98,100	8.5 Hz	1 set (= 4 pcs.)	43210
	TR-400/150-200	151 - 200 mm	400	3,925	11.3 Hz	1 set (= 4 pcs.)	43203
	TR-1000/150-200	151 - 200 mm	1,000	9,810	9.5 Hz	1 set (= 4 pcs.)	43205
	TR-2500/150-200	151 - 200 mm	2,500	24,525	9.9 Hz	1 set (= 4 pcs.)	43207
	TR-5000/150-200	151 - 200 mm	5,000	49,050	9.7 Hz	1 set (= 4 pcs.)	43209
	TR-10000/150-200	151 - 200 mm	10,000	98,100	8.5 Hz	1 set (= 4 pcs.)	43211

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

Isotop Transformer Pad TR (unloaded)

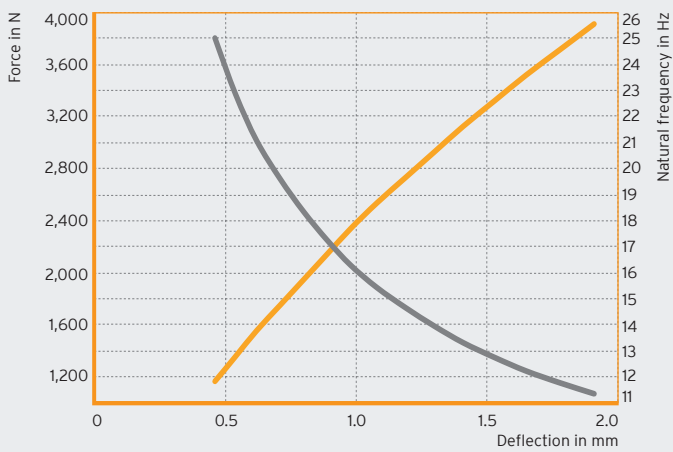


Dimension inlay [A]:
 TR-xxx-100 A = 81 mm
 TR-xxx-150 A = 105 mm
 TR-xxx-200 A = 119 mm

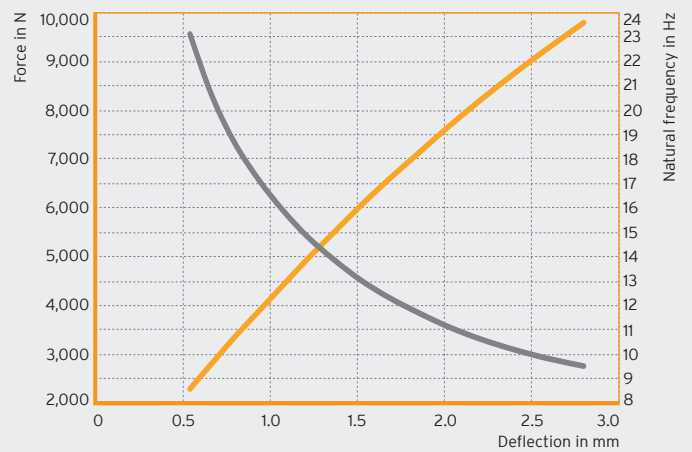


Vibration decoupled bearing of a distribution transformer

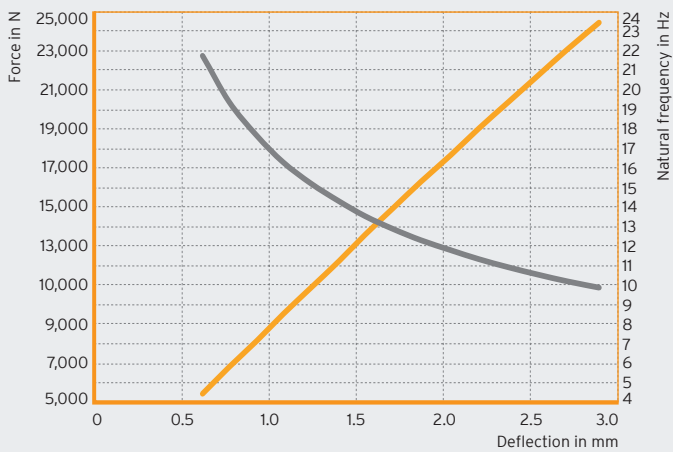
TR-400



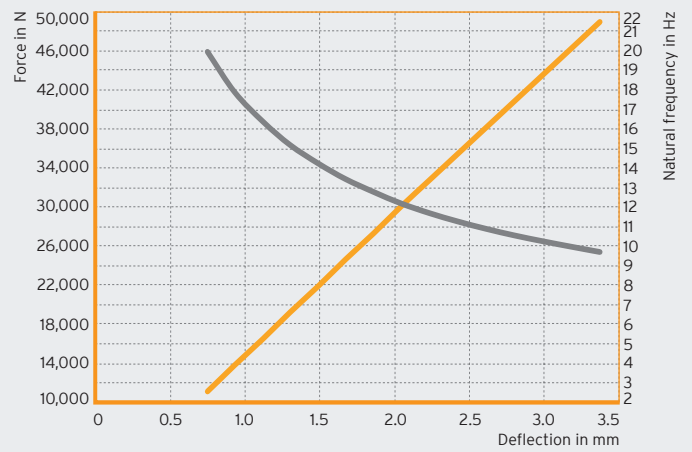
TR-1000



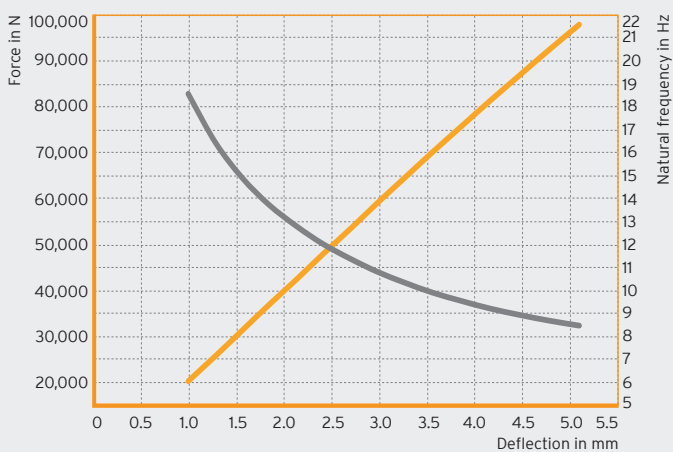
TR-2500



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 mm or 100×100 mm 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 discrete bearing

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

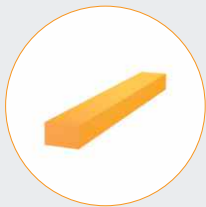
Not held in stock. Delivery time on request (approx. 15 working days from the factory)
 Minimum purchase quantity = packaging unit or multiple thereof



Decoupled air handling unit 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

SBE-L 1500 x 60 x 25 mm 	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.)	45115
	SBE-L-R3	160	1,569	13.0 Hz	1 set (= 6 pcs.)	45116
	SBE-L-R4	247	2,423	12.5 Hz	1 set (= 6 pcs.)	45117
	SBE-L-R5	367	3,600	12.0 Hz	1 set (= 6 pcs.)	45118
	SBE-L-R6	481	4,718	11.5 Hz	1 set (= 6 pcs.)	45119
		930	9,123	11.5 Hz	1 set (= 6 pcs.)	45120

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

Cutting matrix

		Strip length in mm						
		1,500	1,250	1,000	750	500	250	100
Sylomer® SBE-L-R1	Max. load in kg	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 ventilation and air-conditioning unit (HVAC)



Strip bearing prepared for a rooftop ventilation unit

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