

ISOTOP® STEEL SPRINGS

DATA SHEET



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PRODUCT BENEFITS

- Excellent isolation properties due to their low natural frequencies.
- Ideal for applications with low excitation frequencies in industrial environments.
- The standard overall height across the product family offers advantages during installation and reduces the workload when reconfiguring systems.

All information and data are based on our current knowledge. It can be used in calculations and for reference purposes, but is subject to product-specific and application-specific manufacturing tolerances and does not represent warranted properties. Material properties and their tolerances vary depending on the type of application and load and are available from Getzner on request. Subject to change without notice.

For further general information, see VDI Directive 2062 and glossary.
Further characteristic values available on request.

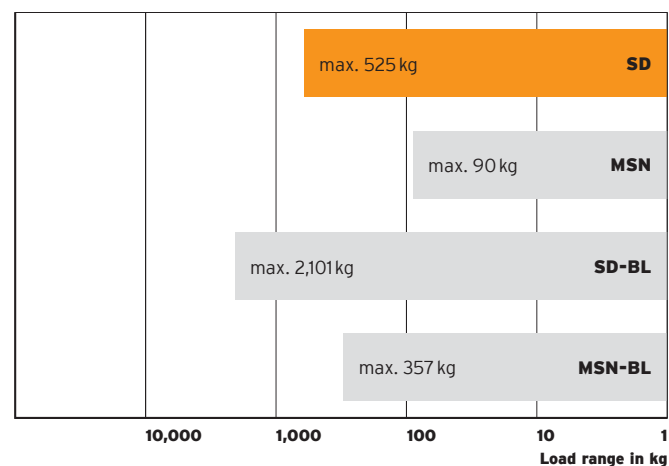
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ISOTOP® SD



Isotop® steel springs type overview

Static application range



Description

Category	Steel spring Design conforms to DIN EN 13906-1
Material	Metal caps made of steel, spring steel
Coating	Electro-galvanised Alternatively, cathodic dip-coated
Permissible temperature range	-30 °C to +70 °C
Dimensions (unloaded)	H 94 mm / D 70 mm

Product characteristics

Natural frequency from	3.2 Hz
Load range up to	525 kg / 5,150 N
Connection thread	M10 internal thread
Suitable accessories	Isotop® FP/K 1-9 ¹ Isotop® FP/K 1-9 KTL ¹ Isotop® FP 1-9 ² Isotop® FP 1-9 KTL ² Isotop® NV 1-9

¹ incl. M10 connecting screws between base plate and spring

² without M10 connecting screws between base plate and spring



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Type	Max. load in kg	in N	Order no.
SD spring element, galvanised			
Isotop® SD 1	20	196	39443
Isotop® SD 2	33	324	39444
Isotop® SD 3	52	510	39003
Isotop® SD 4	82	804	39455
Isotop® SD 5	123	1,206	39004
Isotop® SD 6	195	1,913	39456
Isotop® SD 7	310	3,041	39457
Isotop® SD 8	420	4,120	39458
Isotop® SD 9	525	5,150	39459



SD spring element, cathodic dip coated			
Isotop® SD 1 KTL	20	196	39460
Isotop® SD 2 KTL	33	324	39461
Isotop® SD 3 KTL	52	510	39462
Isotop® SD 4 KTL	82	804	39463
Isotop® SD 5 KTL	123	1,206	39464
Isotop® SD 6 KTL	195	1,913	39465
Isotop® SD 7 KTL	310	3,041	39466
Isotop® SD 8 KTL	420	4,120	39467
Isotop® SD 9 KTL	525	5,150	39468



Base plate FP/K with damping element for SD		
Isotop® FP/K 1–9	for SD 1to 9	38216
Isotop® FP/K 1–9 KTL	for SD 1to 9	39158

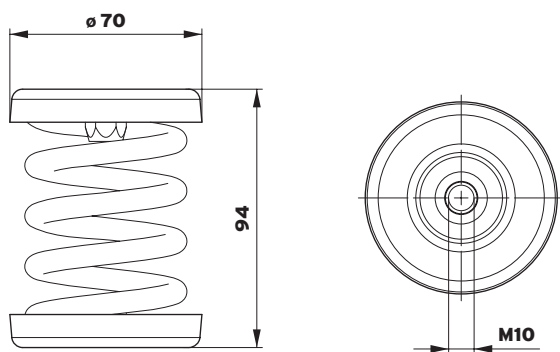


Base plate FP for SD		
Isotop® FP/K 1–9	for SD 1to 9	39536
Isotop® FP/K 1–9 KTL	for SD 1to 9	39537

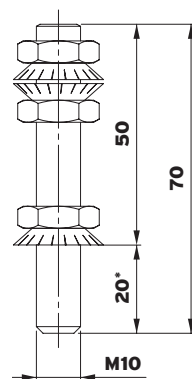


Height adjustment for SD		
Isotop® NV 1–9	M10	for SD 1to 9
		47321

Isotop® SD (unloaded)

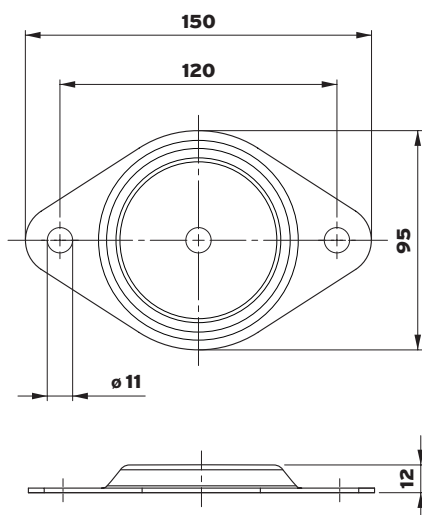


Isotop® NV1-9

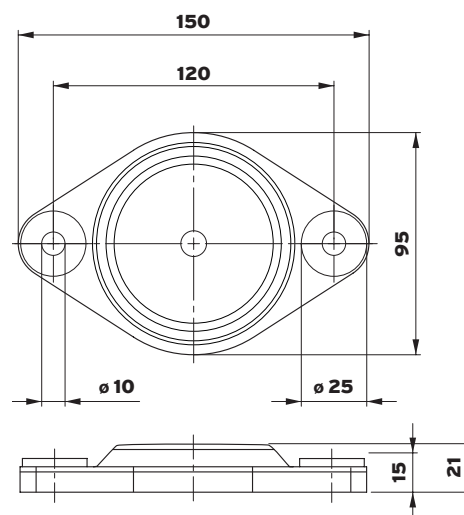


*Thread reach SD/DSD

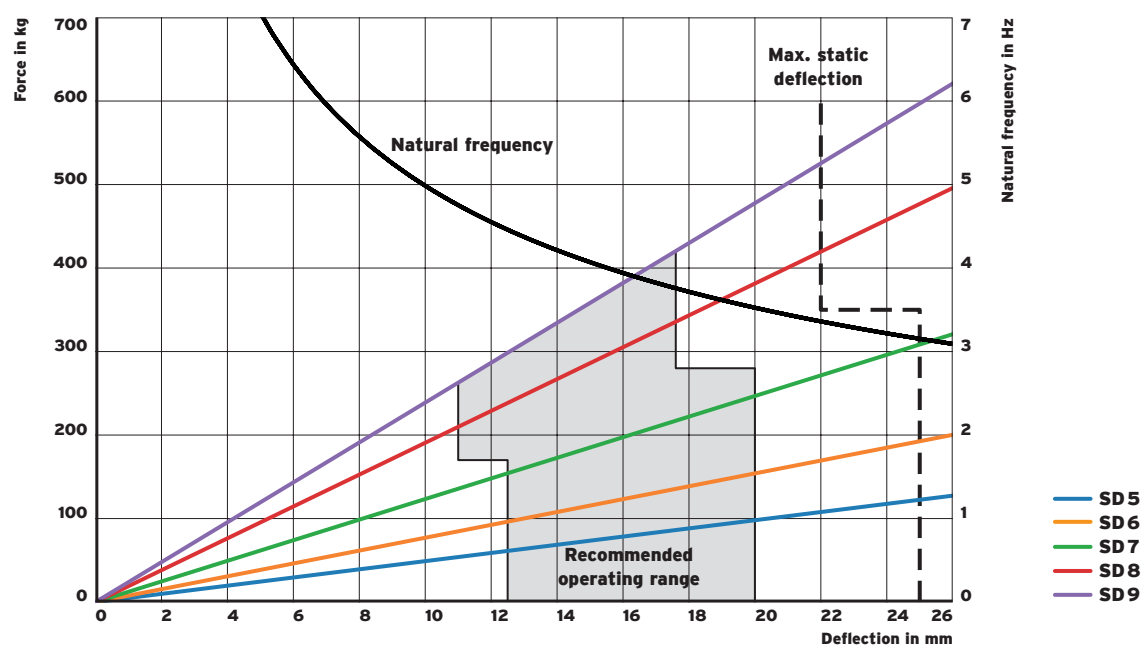
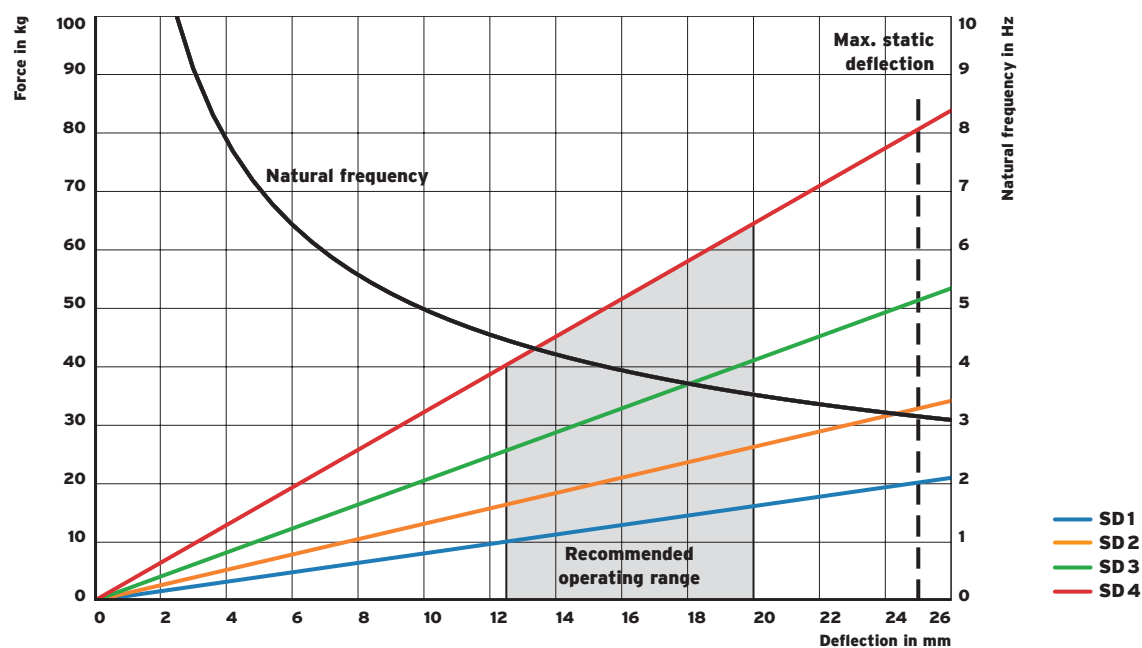
Isotop® FP



Isotop® FP/K



Isotop® SD

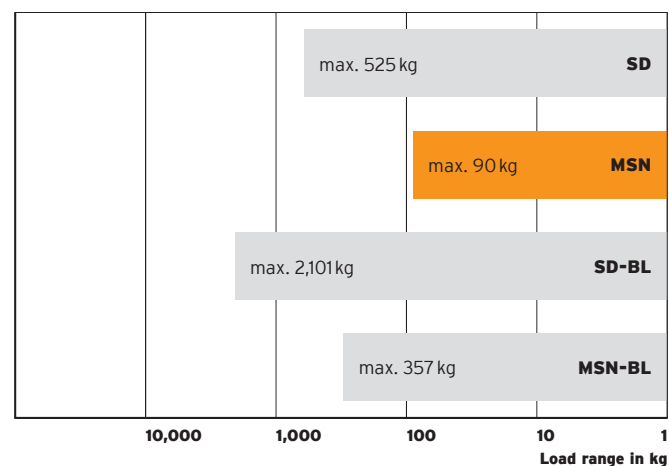


ISOTOP® MSN



Isotop® steel springs type overview

Static application range



Description

Category	Steel spring Design conforms to DIN EN 13906-1
Material	Metal caps made of steel, spring steel
Coating	Electro-galvanised, alternatively, cathodic dip-coated
Permissible temperature range	-30 °C to +70 °C
Dimensions (unloaded)	H 57 mm / D 52 mm

Product characteristics

Natural frequency from	3.5 Hz
Load range up to	90 kg / 883 N
Connection thread	M8 internal thread
Suitable accessories	Isotop® NV 1-8 MSN



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Type	Max. load		Order no.
	in kg	in N	
MSN spring element, galvanised			
Isotop® MSN 1	3	29	39376
Isotop® MSN 2	5	49	39377
Isotop® MSN 3	9	88	39378
Isotop® MSN 4	14	137	39379
Isotop® MSN 5	23	226	39380
Isotop® MSN 6	35	343	39381
Isotop® MSN 7	53	519	39382
Isotop® MSN 8	90	883	39383

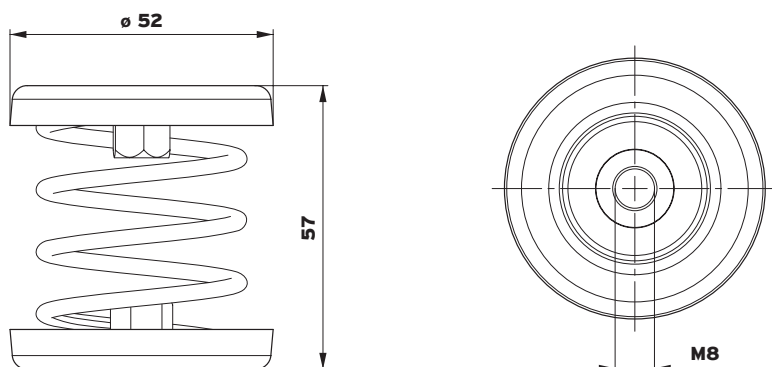


MSN spring element, cathodic dip coated			
Isotop® MSN 1 KTL	3	29	39384
Isotop® MSN 2 KTL	5	49	39415
Isotop® MSN 3 KTL	9	88	39416
Isotop® MSN 4 KTL	14	137	39417
Isotop® MSN 5 KTL	23	226	39418
Isotop® MSN 6 KTL	35	343	39419
Isotop® MSN 7 KTL	53	519	39420
Isotop® MSN 8 KTL	90	883	39421

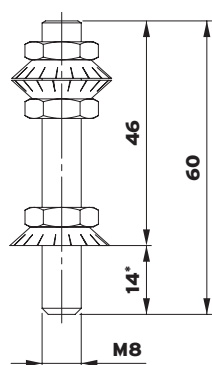


Height adjustment for MSN			
Isotop® NV 1 – 8 MSN	M8	for MSN 1 to 8	47322

Isotop® MSN (unloaded)

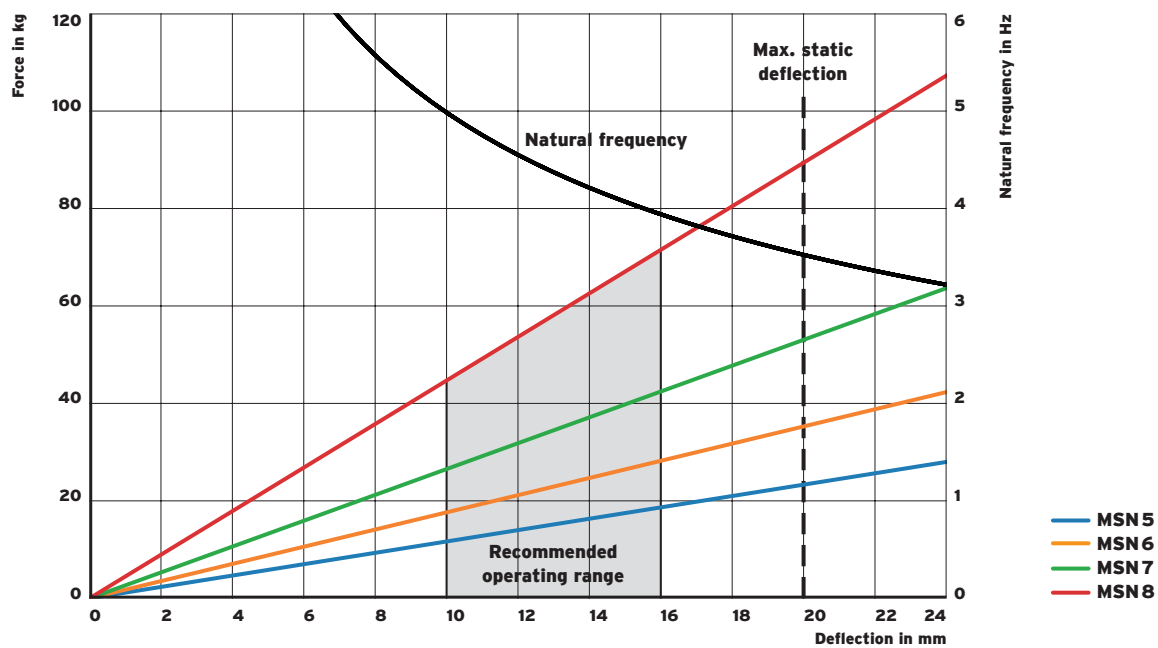
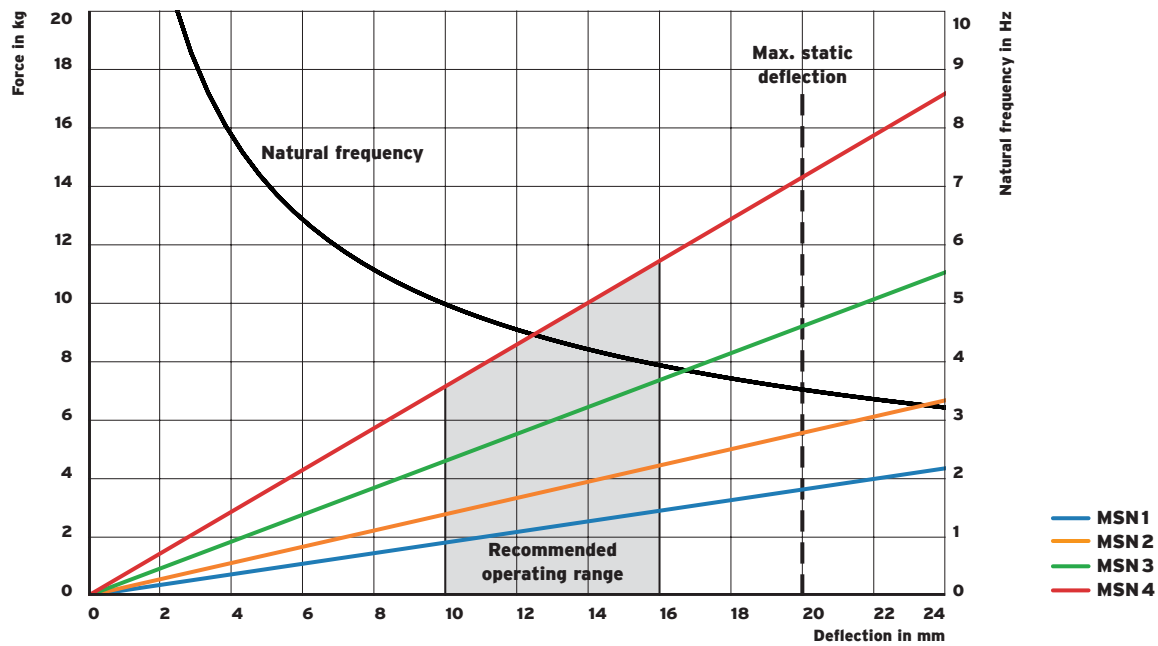


Isotop® NV1-8 MSN



*Thread reach MSN/DMSN

Isotop® MSN

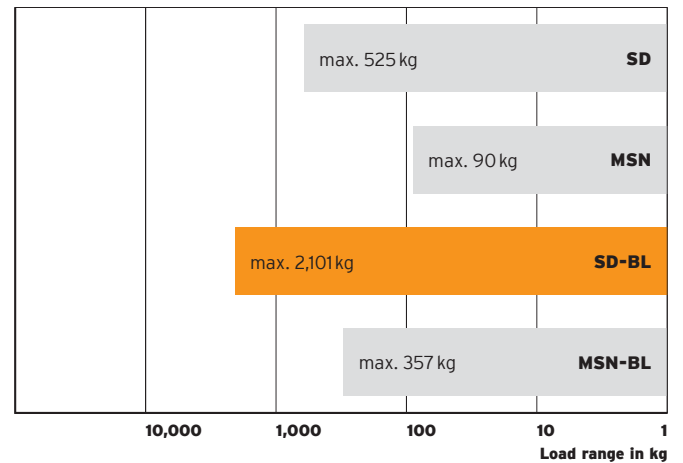


ISOTOP® SD-BL



Isotop® steel springs type overview

Static application range



Description

Category	Steel spring Custom version available
Material	4 mm Sylomer® anti-slip plates Metal caps made of steel Spring steel 6 mm steel pressure plates
Coating	Springs incl. metal caps cathodic dip-coated Powder-coated pressure plates
Permissible temperature range	-30 °C to +70 °C
Dimensions (unloaded)	As per drawing

Product characteristics

Natural frequency from	3,2 Hz
Load range up to	2,101 kg / 20,610 N
Connection thread	M12 internal thread
Suitable accessories	Isotop® DT (SD-BL 2 and SD-BL 4)

Naming convention

Isotop® SD-BL4-82/92

Block element with springs of type SD —
 Block element with 4 springs in total —
 2 springs of type SD 8 included —
 2 springs of type SD 9 included —



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Type	Max. load in kg	in N	Order no.
SD block element 2			
Isotop® SD-BL2-12/20	40	392	51161
Isotop® SD-BL2-11/21	53	519	51162
Isotop® SD-BL2-22/30	65	637	51163
Isotop® SD-BL2-21/31	84	824	51164
Isotop® SD-BL2-32/40	102	1,000	49585
Isotop® SD-BL2-31/41	132	1,294	51165
Isotop® SD-BL2-42/50	161	1,579	51166
Isotop® SD-BL2-41/51	203	1,991	51167
Isotop® SD-BL2-52/60	245	2,403	49734
Isotop® SD-BL2-51/61	315	3,090	51168
Isotop® SD-BL2-62/70	385	3,776	51169
Isotop® SD-BL2-61/71	500	4,905	51170
Isotop® SD-BL2-72/80	616	6,042	49735
Isotop® SD-BL2-71/81	691	6,778	47298
Isotop® SD-BL2-82/90	839	8,230	47300
Isotop® SD-BL2-81/91	945	9,270	51171
Isotop® SD-BL2-80/92	1,050	10,300	47299



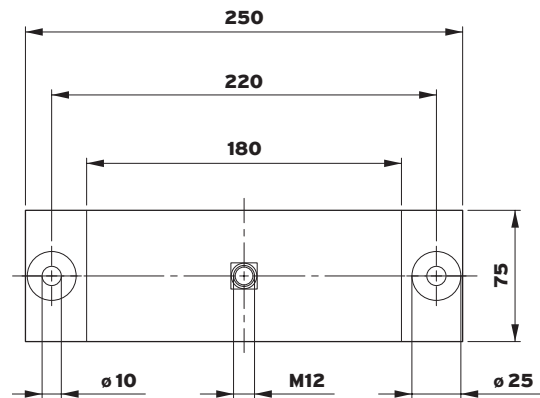
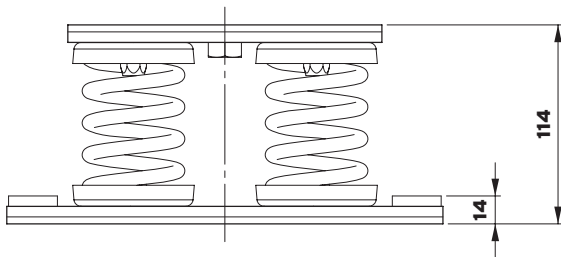
SD block element 4			
Isotop® SD-BL4-14/20	80	784	49697
Isotop® SD-BL4-12/22	106	1,039	49696
Isotop® SD-BL4-24/30	131	1,285	51172
Isotop® SD-BL4-22/32	168	1,648	49698
Isotop® SD-BL4-34/40	205	2,011	49700
Isotop® SD-BL4-32/42	264	2,589	49699
Isotop® SD-BL4-44/50	322	3,158	49702
Isotop® SD-BL4-42/52	406	3,982	49701
Isotop® SD-BL4-54/60	490	4,806	47301
Isotop® SD-BL4-52/62	630	6,180	49703
Isotop® SD-BL4-64/70	770	7,553	47288
Isotop® SD-BL4-62/72	1,001	9,819	49704
Isotop® SD-BL4-74/80	1,233	12,095	51173
Isotop® SD-BL4-72/82	1,382	13,557	51174
Isotop® SD-BL4-84/90	1,678	16,461	47282
Isotop® SD-BL4-82/92	1,890	18,540	47284
Isotop® SD-BL4-80/94	2,101	20,610	47285



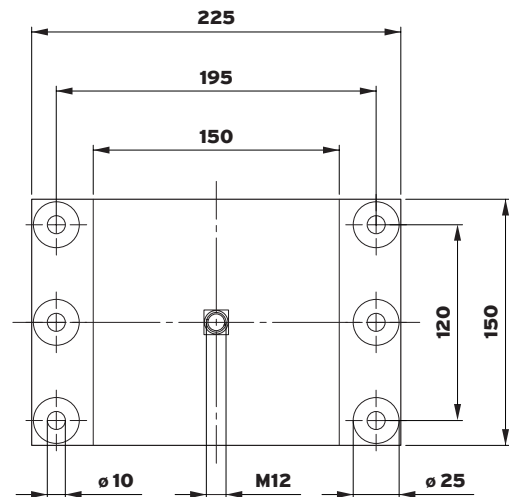
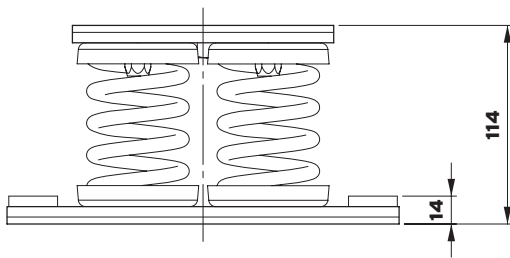
DT spacer base for SD-BL2 and SD-BL4			
Isotop® DT	–	–	47169

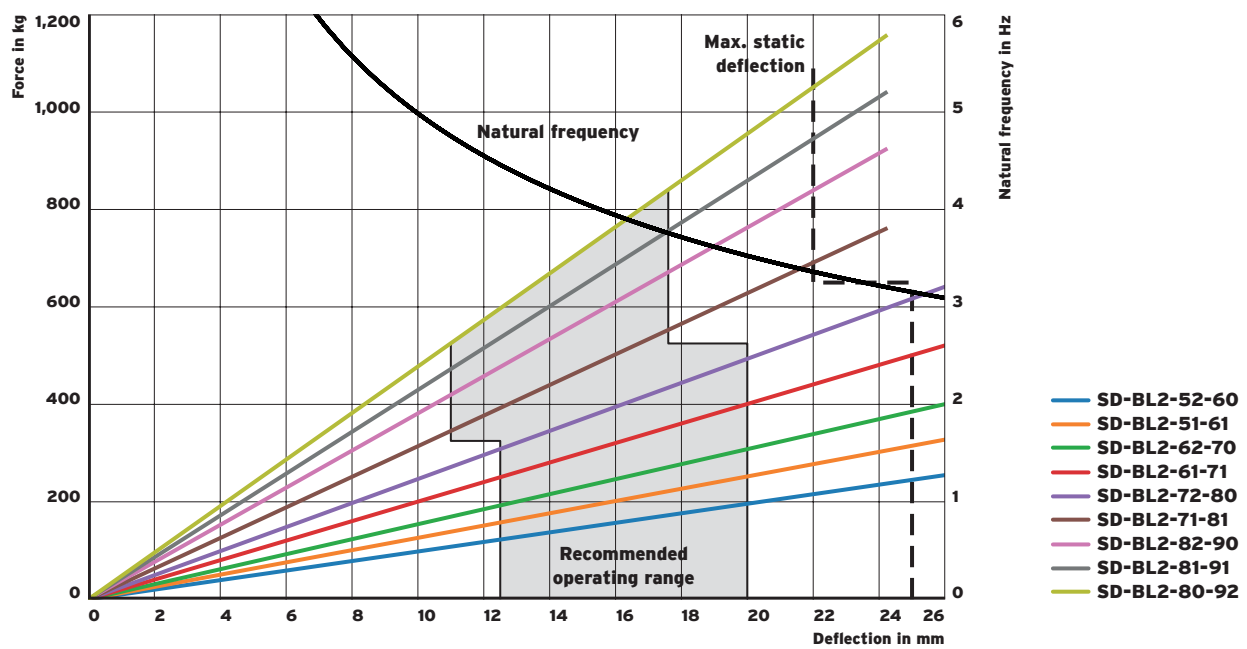
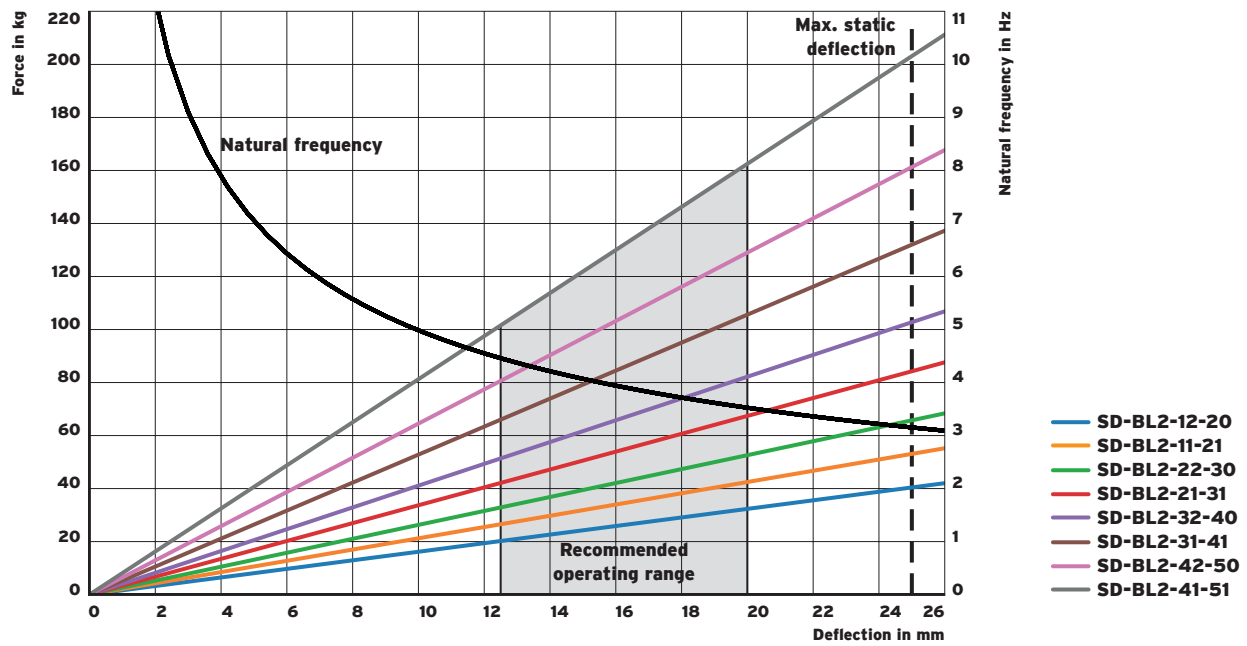
Isotop® SD-BL 2

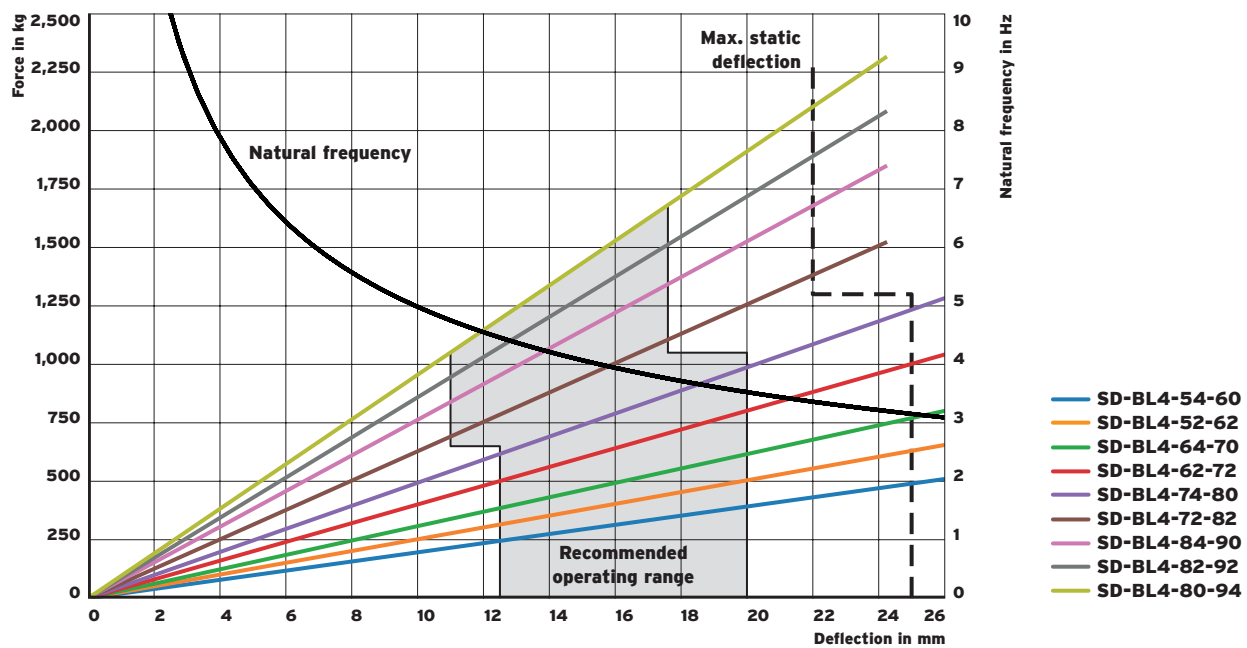
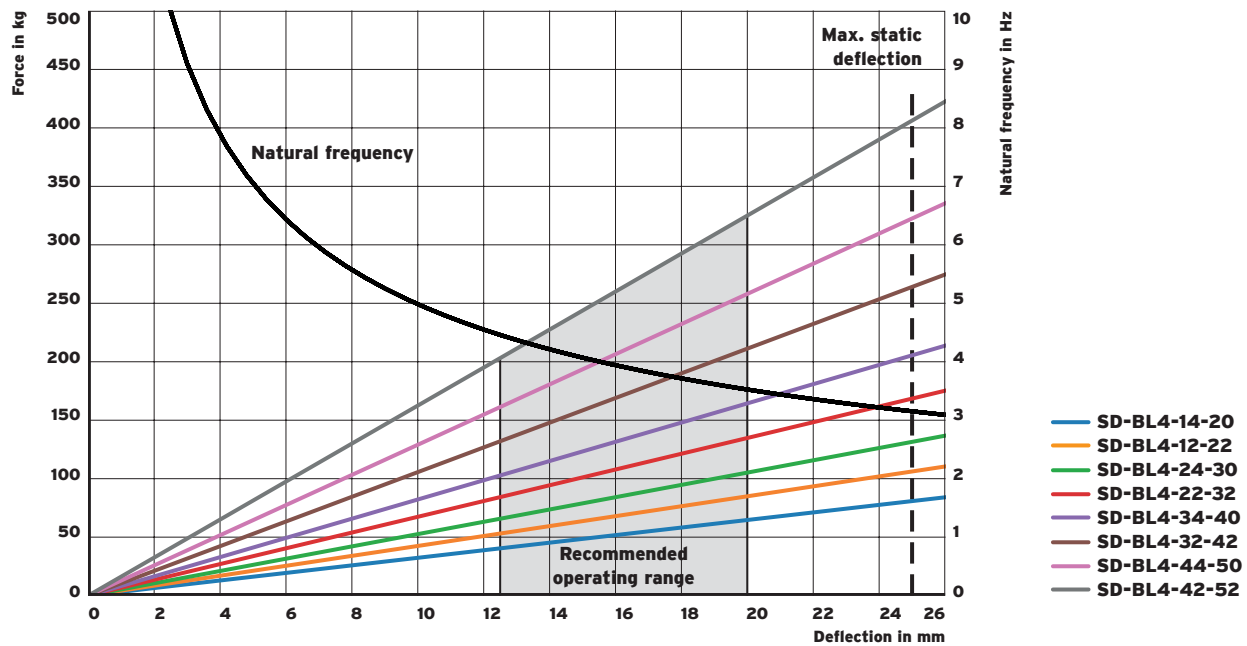
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**Isotop® SD-BL 4**

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Isotop® SD-BL 2

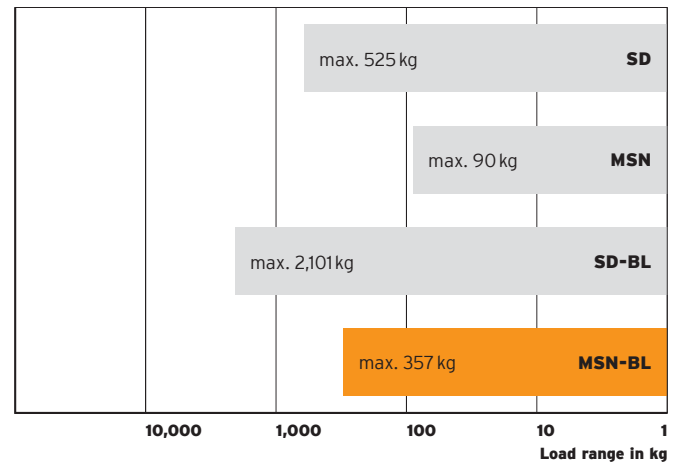
Isotop® SD-BL 4

ISOTOP® MSN-BL



Isotop® steel springs type overview

Static application range



Description

Category	Steel spring Design conforms to DIN EN 13906-1
Material	4 mm Sylomer® anti-slip plates Metal caps made of steel Spring steel 5 mm steel pressure plates
Coating	Cathodic dip-coated springs and metal caps Powder-coated pressure plates
Permissible temperature range	-30 °C to +70 °C
Dimensions (unloaded)	As per drawing

Product characteristics

Natural frequency from	3.5 Hz
Load range up to	357 kg / 3,502 N
Connection thread	M10 internal thread
Suitable accessories	–

Naming convention

Isotop® MSN-BL4-72/82

Block element with springs of type MSN

Block element with 4 springs in total

2 springs of type MSN7 included

2 springs of type MSN8 included



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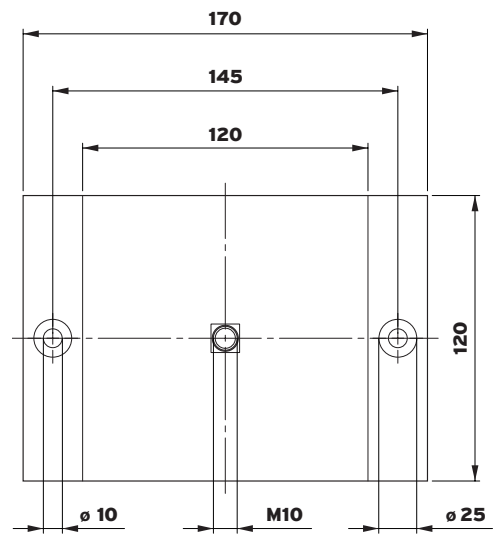
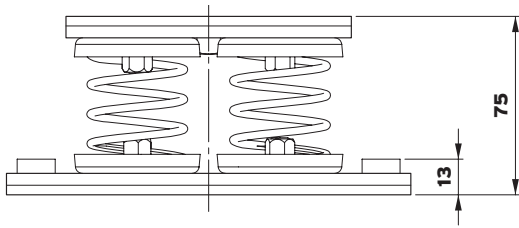
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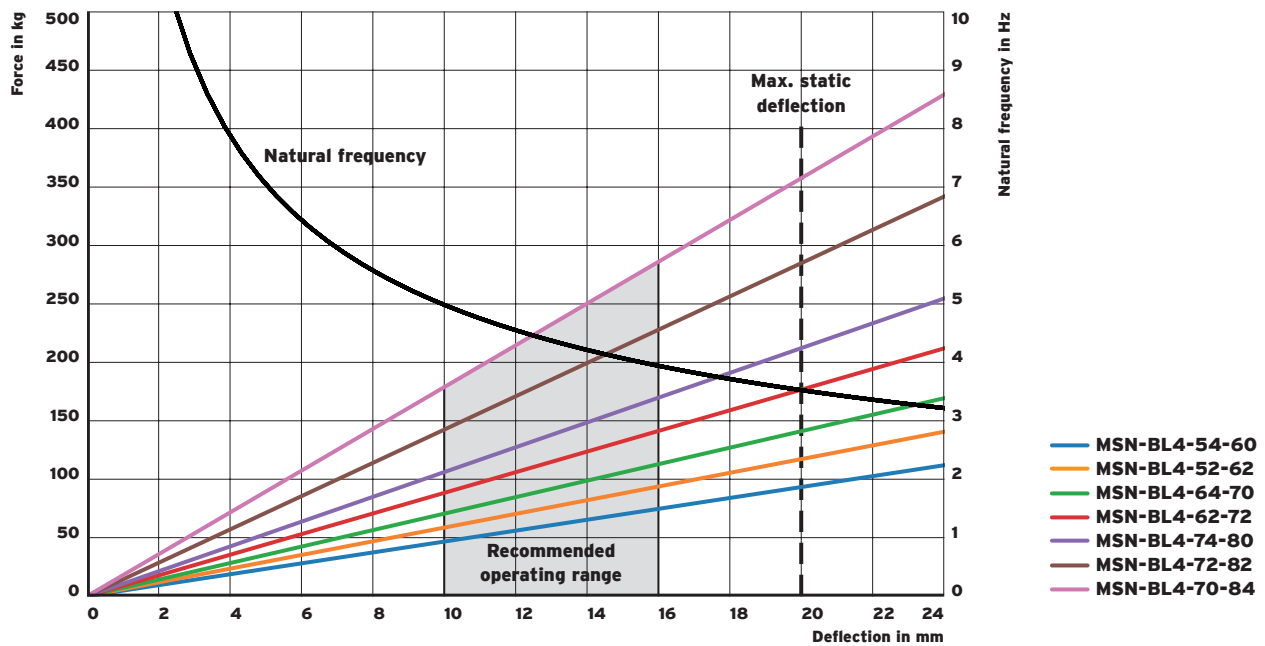
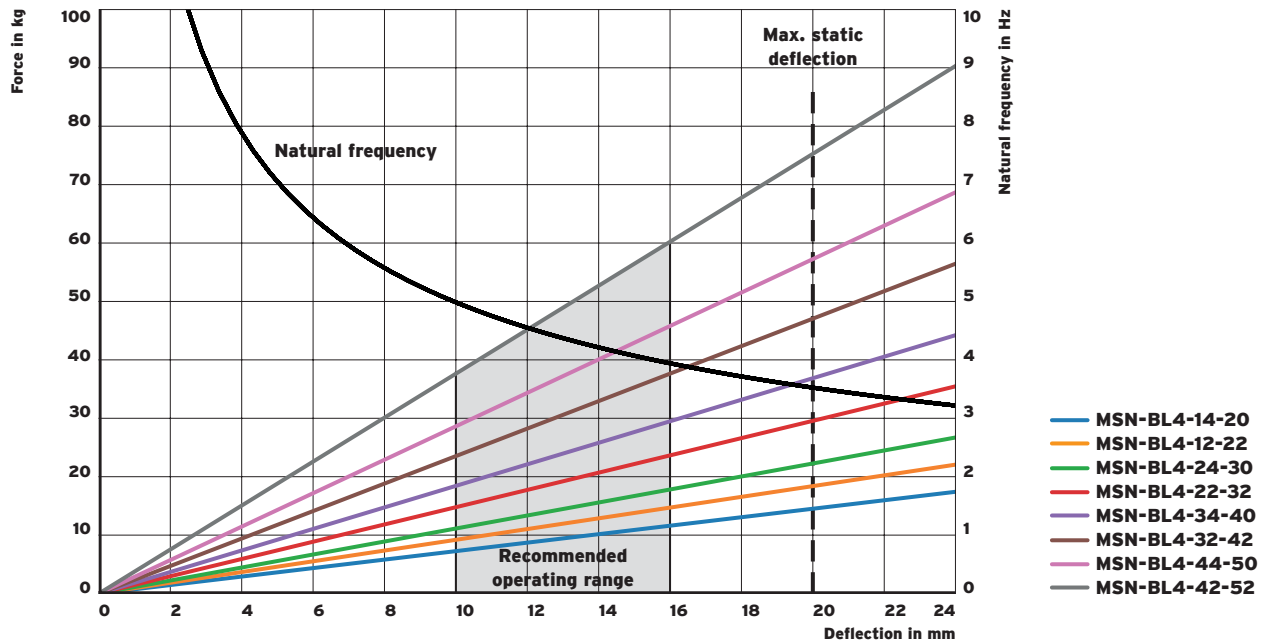
Type	Max. Load		Order no.
	in kg	in N	
MSN block element			
Isotop® MSN-BL4-14/20	14	137	51177
Isotop® MSN-BL4-12/22	18	176	51178
Isotop® MSN-BL4-24/30	22	215	47286
Isotop® MSN-BL4-22/32	29	284	51179
Isotop® MSN-BL4-34/40	36	353	51180
Isotop® MSN-BL4-32/42	47	461	51181
Isotop® MSN-BL4-44/50	57	559	47287
Isotop® MSN-BL4-42/52	75	735	51182
Isotop® MSN-BL4-54/60	93	912	47290
Isotop® MSN-BL4-52/62	117	1,147	47289
Isotop® MSN-BL4-64/70	141	1,383	47291
Isotop® MSN-BL4-62/72	176	1,726	51183
Isotop® MSN-BL4-74/80	212	2,079	47293
Isotop® MSN-BL4-72/82	284	2,786	51184
Isotop® MSN-BL4-70/84	357	3,502	47292

Isotop® MSN-BL 4

(unloaded)



Isotop® MSN-BL 4

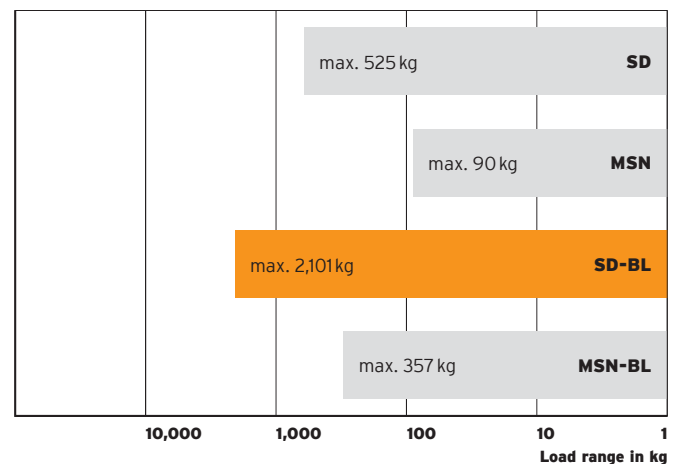


ISOTOP® DT



Isotop® steel springs type overview

Static application range



Description

Category	Spacer base with high chemical resistance
Material	Polyethylene (high resistance to chemicals such as glycol) Includes anti-slip plate made from Sylodyn®
Coating	–
Permissible temperature range	-30 °C to +70 °C
Dimensions (unloaded)	As per drawing

Product characteristics

Natural frequency from	–
Load range up to	2,101 kg / 20,610 N (Isotop® SD-BL 2 + SD-BL 4) 2,600 kg / 25,506 N (Isotop® DSD-BL 2 + DSD-BL 4)
Connection thread	Screws for connecting the block elements are included in the scope of supply
Suitable accessories	Isotop® SD-BL 2 + SD-BL 4 Isotop® DSD-BL 2 + DSD-BL 4 (Block element not included in the scope of supply)



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Type	Max. Load in kg	in N	Order no.
DT spacer base for SD-BL2 and SD-BL4			
Isotop® DT	–	–	47169

Isotop® DT
(unloaded)

