

ISOTOP® BL/DSD

Block elements with attenuators for heavy loads

Design

ISOTOP® BL/DSD block elements consist of two steel plates and spring elements DSD 4 - DSD 8. The number of spring elements depends on the load. All DSD elements are cathaphoresis coated, which guarantees high corrosion resistance. The core piece of these elements is the damping medium of special Sylomer®-HD material, which is exactly matched to the relevant characteristic curve of the spring. The material is permanently elastic and break-proof. Special designs are available on request.

Field of application

ISOTOP® BL/DSD block elements have a resonant frequency of about 4 - 6 Hz \triangleq 240 - 360 min⁻¹ and are used for:

- Source isolation of heavy ventilators, fans, extractors, air conditioners, compressors, emergency power units, piston pumps, turbine bearings, textile machines, presses, block-type thermal power stations, rotating machines, centrifuges, shaking grates, conveying troughs, etc.
- Receiver isolation of sensitive measuring equipment, scales, test beds, control cabinets, transportation bedding of sensitive equipment, etc.
- Percussion isolation of all sorts of machines

Required data for selection

- Total weight to be absorbed
- Number and location of points of support
- Centre of gravity
- Structural shape of the device (dimensions)
- Direction of load
- Lowest parasitic frequency (rotational speed or number of strokes)

Advantages

- Construction height is identical for all types, which guarantees exchangeability.
- As a result of the open construction, the source is connected to the suspension point only via the spring. The



ISOTOP® BL 6/DSD, KTL

spring element can oscillate in the horizontal plane without restriction.

- The spring is clearly visible, which allows checking of its condition without dismantling. The distance between spring coils is visible under load.
- The form of the steel plates can be adapted to connecting surfaces.
- ISOTOP® BL/DSD elements have got a defined static and dynamic rigidity and damping. High precision of manufacture guarantees that no dimensional deviations or deviation of technical parameters results.

Our service

Make use of our know-how on questions about vibration technology. We will gladly consult you and will calculate tailor-made solutions for vibration isolation.

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Selection table

Description	Nominal range*
ISOTOP® BL/DSD 2 - xx/xx (2 elements)	up to 12.000 N
ISOTOP® BL/DSD 4 - xx/xx (4 elements)	up to 24.000 N
ISOTOP® BL/DSD 6 - xx/xx (6 elements)	up to 36.000 N
ISOTOP® BL/DSD 9 - xx/xx (9 elements)	up to 54.000 N

*the minimal nominal range for all ISOTOP® block elements is 1,000 N

Remarks on the selection table:

As a result of the possibility of combining ISOTOP® steel spring vibration isolators of the series DSD 1 - DSD 8 (xx/xx in the table) almost all requirements can be accommodated. The block elements are designed according to your specific requirements.

Figure

Please refer to the ISOTOP® BL data sheet for technical drawings of the block elements.

Special purpose types upon request.

All data indicated are based upon our current knowledge.
They may be used as calculation and standard values and are subject to the usual machining tolerances. Subject to change and correction.

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Block elements for heavy loads

Figure BL 2 - xx/xx

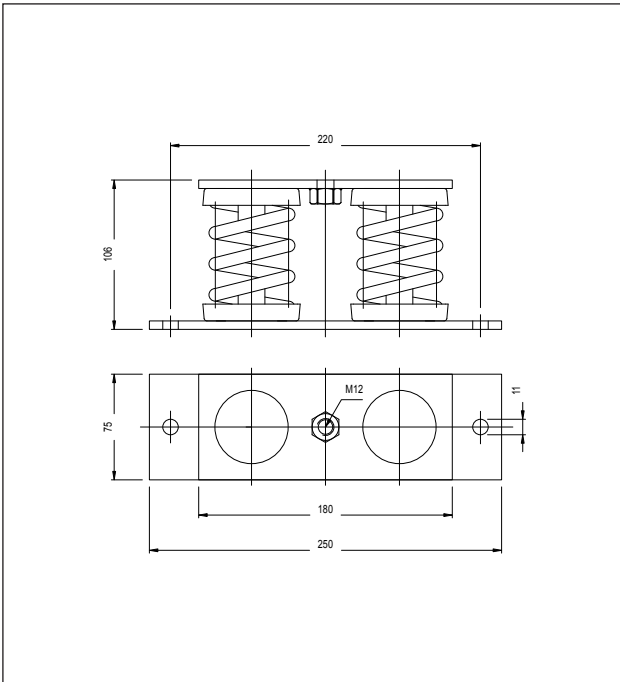


Figure BL 4 - xx/xx

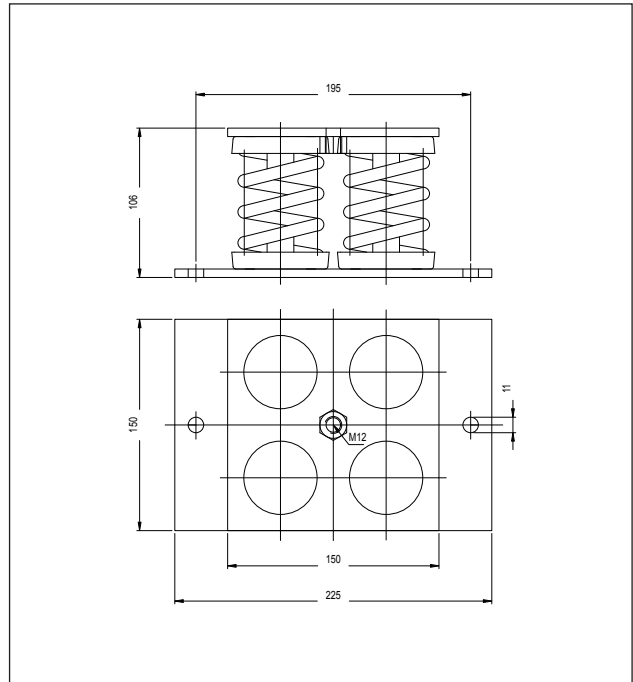


Figure BL 6 - xx/xx

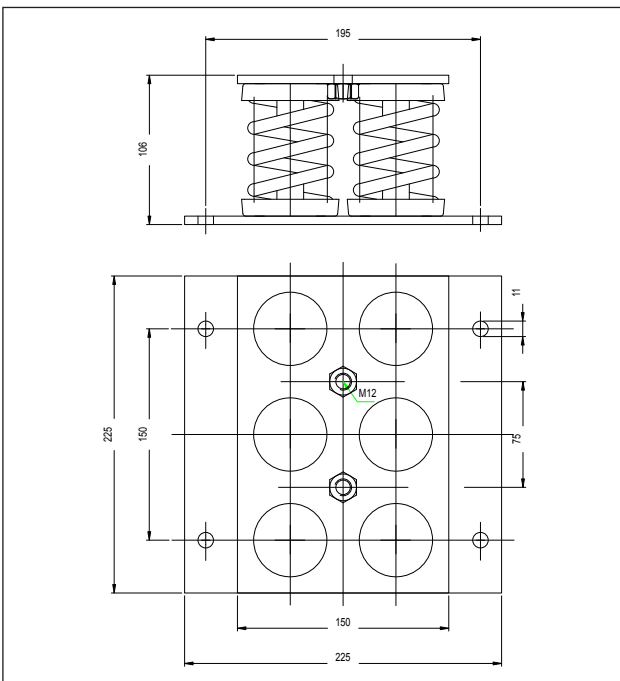
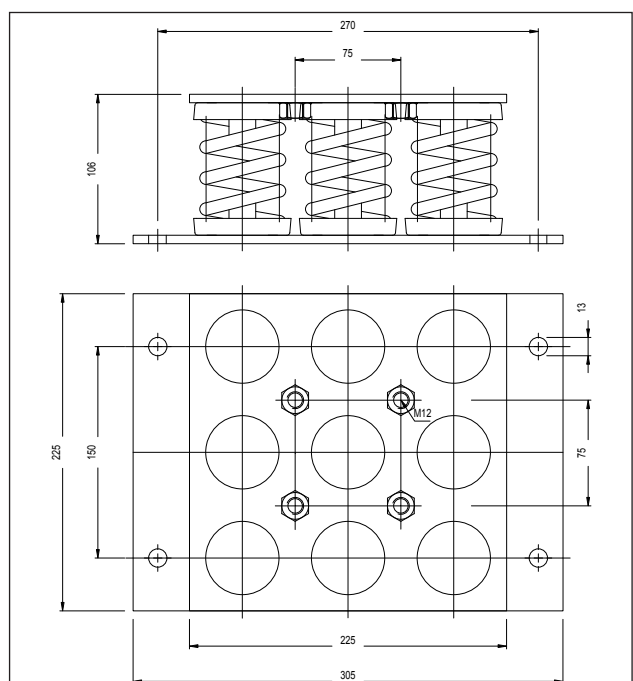


Figure BL 9 - xx/xx



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