

Isotop® DSD-BL

Block elements with attenuators
for heavy loads

by getzner
isotop®

Design

Isotop® DSD-BL block elements consist of two steel plates and spring elements DSD1 - DSD9. The number of spring elements depends on the load. A distinguishing feature of all DSD-BL elements is high corrosion protection: powder coating of the plates and cathodolysis coating (KTL) of the spring elements according to RAL 9005. 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® DSD-BL block elements natural frequency, depending on the load, down to approx. 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 disturbing 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



Isotop® DSD-BL-6

spring. The 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® DSD-BL 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.

Selection table

DESCRIPTION	NOMINAL RANGE*
Isotop® DSD-BL 2 - xx / xx (2 elements)	up to 12,000 N
Isotop® DSD-BL 4 - xx / xx (4 elements)	up to 24,000 N
Isotop® DSD-BL 6 - xx / xx (6 elements)	up to 36,000 N
Isotop® DSD-BL 9 - xx / xx (9 elements)	up to 67,000 N

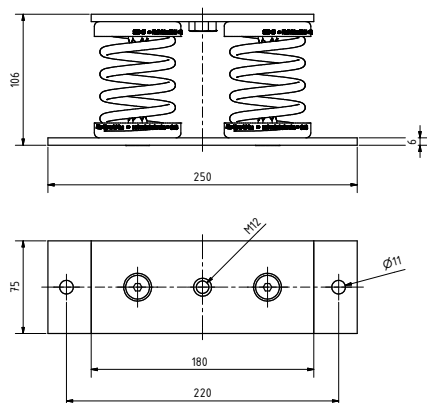
*the minimal nominal range for all Isotop® block elements is 1,000 N

Remarks on the selection table:

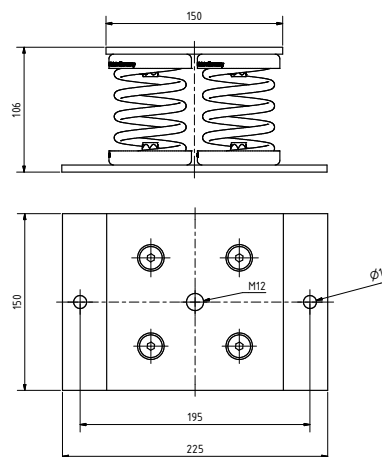
As a result of the possibility of combining Isotop® steel spring vibration isolators of the series DSD 1 - DSD 9 (xx/xx in the table) almost all requirements can be accommodated. The block elements are designed according to your specific requirements.

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.

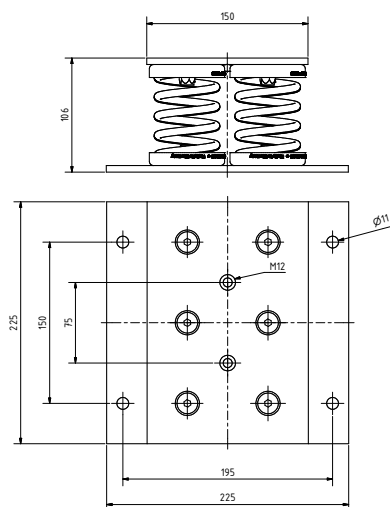
DSD-BL 2 - xx/xx



DSD-BL 4 - xx/xx



DSD-BL 6 - xx/xx



DSD-BL 9 - xx/xx

