



Elastic bearing for air handling and refrigeration systems

Effective vibration isolation for entire unit

Modern HVAC systems, air handling and refrigeration units are usually installed in service rooms in the basement, on mezzanine floors or on the roof. This can lead to unwanted vibrations and noise inside the building. This can be prevented with elastic bearings. The Isotop[®] product range has proven particularly successful in this respect and relies on the outstanding properties of Getzner's polyurethane materials Sylomer[®], Sylodyn[®] and Sylodamp[®].

Key benefits

- Measurable reduction in vibrations and secondary airborne noise
- Devices can be installed even in difficult locations (e.g. roofs and mezzanine floors)
- Easy and convenient installation
- Long service life and maintenance-free

Application

Alongside fans and pumps, the compressors in the refrigerant circuit are the main source of unwanted vibrations. These are introduced into the HVAC unit as a result of the pressure pulsations of the compression process. Furthermore, air currents and turbulences can also cause the device to vibrate.

The vibrations are transmitted to the building structure via connection points, such as insufficiently elastic mounting elements and lines, and are often perceived as a deep 'hum' in adjacent living or working areas.

Elastic bearings are used to effectively isolate vibrations. The correct choice of bearings is crucial for a good result and prevents unnecessary alterations or retrofiting.



Product solutions

Elastic point and strip bearings made of Sylomer® have become a go-to solution. Metal-PUR combinations from the Isotop® range, such as Isotop® ENI, Isotop® SE or Isotop® SE-DE, make installation easier and offer greater versatility.

For trickier applications (hospitals, concert halls, theatres, etc.), the systems are mounted on Isotop® steel spring isolators. Special elements such as the push-pull bearing Isotop® DZE round off the product range.

Sylomer® point and strip bearings

- Maintenance-free
- Low deflection and long service life
- Highly effective at low overall height
- Resistant to UV and hydrolysis
- Free from plasticisers and environmentally harmful substances



Isotop® ENI

- Sylomer® or Sylodyn® inside
- Integrated height adjustment
- Ball-and-socket joint to compensate for uneven floors and inclinations
- Galvanised threaded bolt and polyamide plastic plate for high corrosion resistance



Isotop® SE

- Sylomer® inside - 1, 2 or 3-ply
- 10 mm galvanised steel plate for pressure distribution
- M12 internal thread for easy screwing
- Also highly suitable for devices with narrow base frames
- Optionally with foot plate or foot and pressure plate



Isotop® SE-DE

- Sylomer® or Sylodyn® inside
- 10 mm galvanised steel plate for pressure distribution
- 60 mm-thick, heavy settling mass
- M12 internal thread for easy screwing
- Category EL-3 according to DIN 8989 (VDI 2566)



Isotop® DSD and DSD-BL

- High load capacity of up to 5850 kg per element
- Sylodamp® inside - ideal for machines with several start-stop cycles
- CDC coating for springs and powder coating for pressure plates for outstanding corrosion protection
- Secure connection between the plate and the spring thanks to special bonding



Isotop® SD and SD-BL

- High load capacity of up to 4730 kg per element
- CDC coating for springs and powder coating for pressure plates for outstanding corrosion protection
- Secure connection between the plate and the spring thanks to special bonding
- Top plate with M12 thread



Isotop® DZE

- Resistant to compression and tension
- Reduces high amplitudes
- Designed for horizontal forces (e.g. high wind loads)
- Sylodyn® and Sylodamp® inside
- Stainless steel housing and continuous stainless steel piping for ultimate corrosion protection
- Rapid installation thanks to pre-assembled elements





You can obtain **measurement reports and further information** from your Getzner contact or at **getzner.com**.



Want to find out more about the best solution for your machine? The EquipCalc selection tool makes it easy to choose the right product for you: **www.getzner.com/equipcalc**



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