



Pneumatic Vibration Isolation System

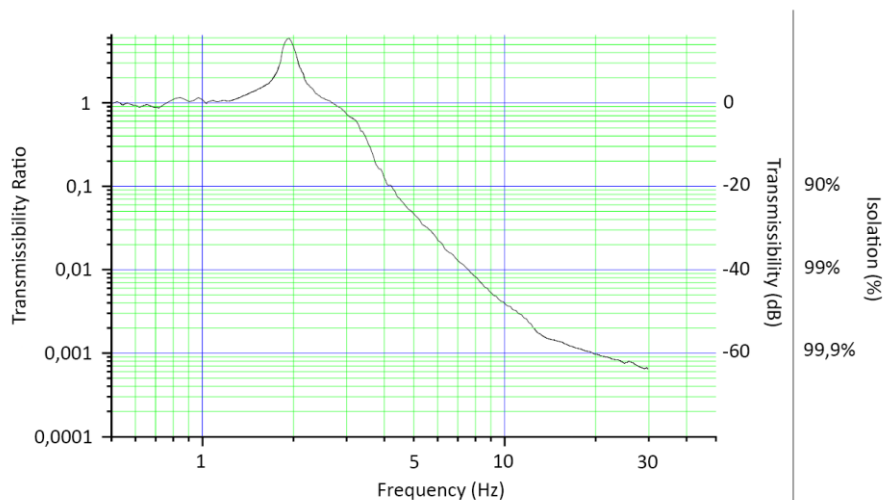
1VIS27



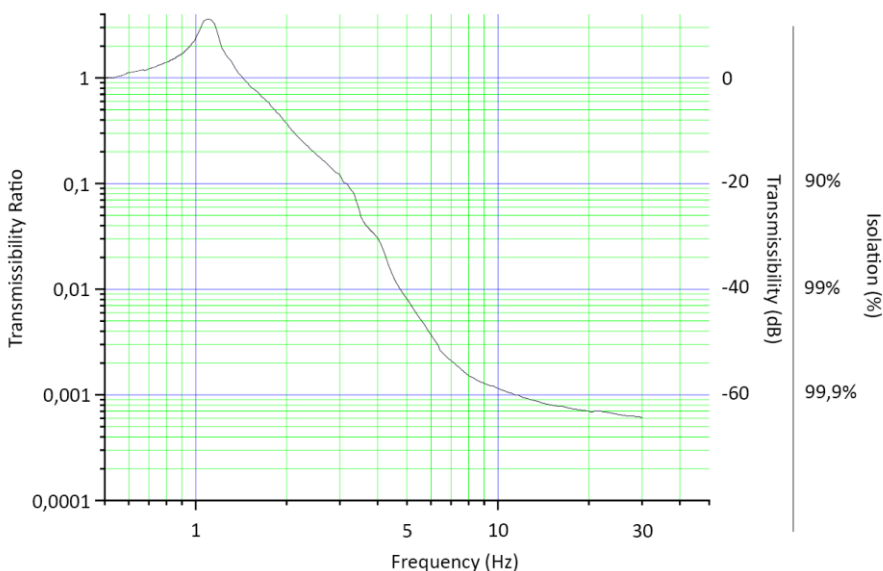
Pneumatic Vibration Isolation System 1VIS27 is an ideal working platform for vibration-sensitive devices such as microscopes, scales, interferometers and similar devices.

The working surface of the table is separated from the floor by a highly efficient system of pneumatic supports, which are two-chamber pneumatic springs with transitional throttle devices.

The system uses rigid and lightweight optical honeycomb tables of various sizes, which allows you to create a large range of systems for a wide range of applications using the entire range of sizes and loads.

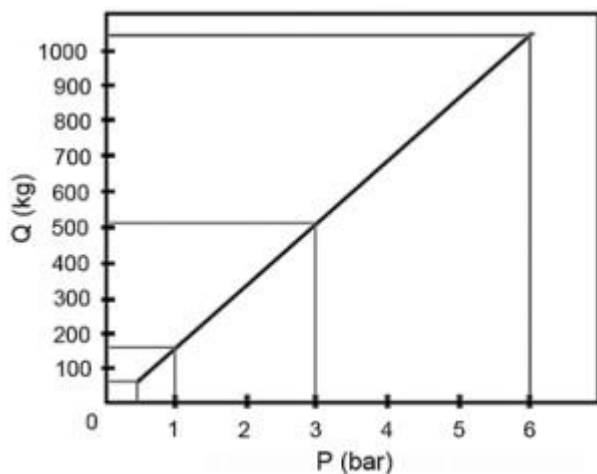


Graph of vertical vibrations damping with 1VIS27



Graph of horizontal vibrations damping with 1VIS27

Air compressor is required for operation. Working pressure of the system is 0.5 – 6 atm (bar).



P - required minimal pressure in atm (bar).
Q - load on one support leg (kg).



Specifications

- Vertical Resonant Frequency	1,9 Hz
- Horizontal Resonant Frequency	1,2 Hz
- Vertical Isolation, 5 Hz	95 %
- Vertical Isolation, 10 Hz	99 %
- Horizontal Isolation, 5 Hz	99 %
- Horizontal Isolation, 10 Hz	99 %
- Max. Air Pressure	6 bar
- Horizontal Damping	Rubber
- Max. load Capacity (set of four)	4000 kg
- Vertical Transmissibility at Resonance	10 dB
- Horizontal Transmissibility at Resonance	5 dB
- Minimal load per isolator	90 kg
- Weight	35kg

*Measurements of the characteristics of the supports were made at 200 kg load per support.

Ordering information

Model	Isolators	Height, mm
1VIS27-50-4	4	500
1VIS27-60-4	4	600
1VIS27-70-4	4	700
1VIS27-custom	Any number	Any height: Min. – 500 Max. –