

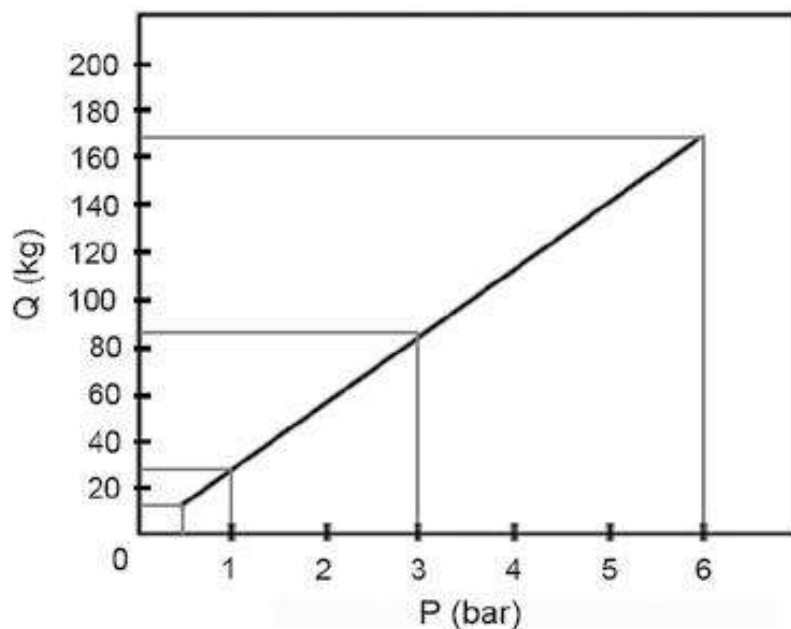
1VIS10 - Pneumatic Vibration Isolation System



- Vertical resonance frequency: 1.5 Hz (average load)
- Horizontal resonance frequency: 1.7 Hz (average load)
- Air source pressure: up to 600 KPa (6 bar) (87 PSI)
- [User manual \(PDF, English\)](#)
- [User manual \(PDF, Russian\)](#)

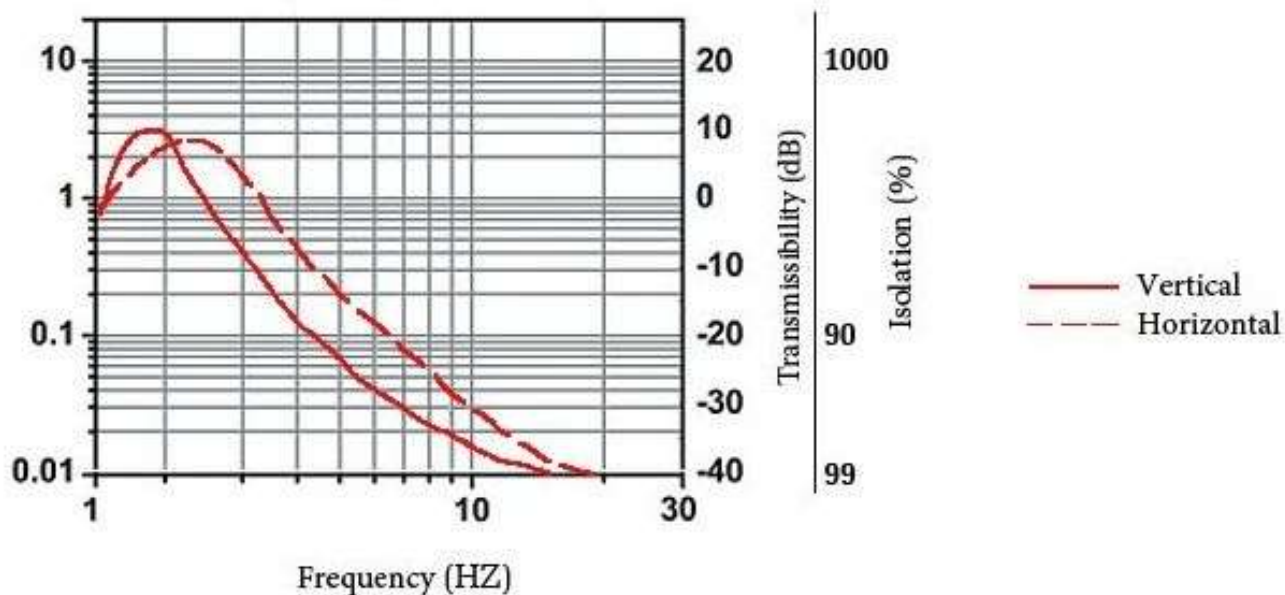
Pneumatic Vibration Isolation System 1VIS10 is an ideal foundation for equipment which is sensitive to vibration, e.g. microscopes, scales, interferometers, and similar devices. Work surface of the table is separated from the floor by means of a highly effective system of pneumatic supports. The system features solid and light supports that come in various dimensions to support a wide range of table top sizes. This enables quick creation of vibration isolation systems for a variety of tasks. Maximum load capacity of each support leg is 168 kg. Working pressure of the system is 0.5–6 atm (bar). Required minimum system pressure required to support a certain load in kg is shown in the load/pressure diagram. Air compressor is required for operation.

Load/Pressure diagram



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

Vibration / Isolation performance



Specifications

Height of the vibration isolation system	600, 700 mm
Vertical movement range	14 mm
Precision of automatic level control	±0.3 mm
Vertical resonance frequency	1.5 Hz (average load)
Vertical isolation at 5 Hz	85–93%
Vertical isolation at 10 Hz	90–98%
Horizontal resonance frequency	1.7 Hz (average load)
Horizontal isolation at 5 Hz	85–93%
Horizontal isolation at 10 Hz	90–97%
Pressure from source of air	600 KPa (6 bar) (87 PSI)
Air supply socket diameter	Ø 6 mm
Operating humidity (max)	90%
Operating temperature range	10–50 °C
Minimal load (system of 4 isolators)	60 kg
Load capacity (system of 4 isolators at 6 bar)	672 kg
Load capacity (at 6 bar)	168 kg per isolator

Ordering Information

Model	Width, mm	Length, mm	Height, mm
1VIS10-05-07-60	Qty.	700	600
1VIS10-05-07-70	500	700	700
1VIS10-05-12-60	500	1200	600
1VIS10-05-12-70	500	1200	700
1VIS10-065-12-60	650	1200	600
1VIS10-065-12-70	650	1200	700
1VIS10-065-18-60	650	1800	600
1VIS10-065-18-70	650	1800	700
1VIS10-08-12-60	800	1200	600
1VIS10-08-12-70	800	1200	700