



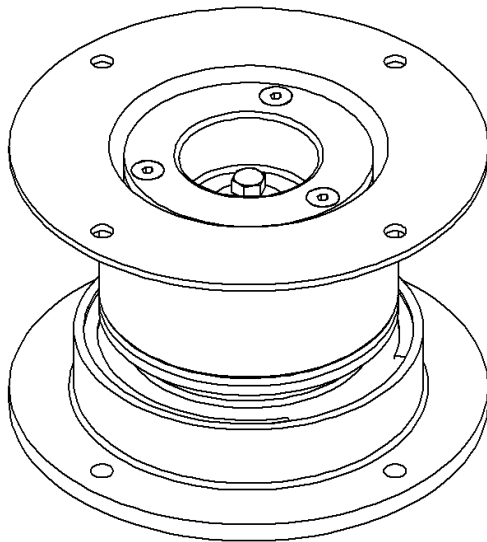
V I S T E K
I N C O R P O R A T E D

1741 W. University Drive, Ste. 146
Tempe, AZ 85281
P.602.426.1211/F.602.426.1611

www.vistekinc.com

Series 410 and Series 450

A passive, mechanical, six degree-of-freedom vibration isolation bearing. The bearing acts as filter, cutting off the transmission of vibrations beginning with vibrations that have very low frequencies.



Uses: (1) Incorporate the bearing into the design of a tool or instrument that is sensitive to vibrations. (2) Use the bearing in the design of a tool pedestal in order to help create a floor condition that is quiet enough to meet a tool manufacturer's specification or an industry specification.

Design Features: (1) Added damping for stability, faster settling time and vibration attenuation at bearing natural frequency; (2) Built-in rotational capacity in the event the isolated surface is not parallel to the bearing plane of isolation; (3) No air hoses or compressed air required.

The Series 410 and 450 bearings function in the same manner. The difference is simply that the VIB450 will isolate heavy payloads than will the VIB410 and is consequently larger than the VIB400.

For additional information, please see the Size Selection Chart, Attachment Options and Installation Instructions

The Series 400/450 VIB is protected by US Patent Nos. 6,517,060, and US and international patents pending.



Vibration Isolation Bearing (VIB) Series 410 / 450

Size Selection Chart

Part No.	Payload Range (lbs) (Rated Load Range)		
	min	mid	max
ViB410-W-001	110	150	180
VIB410-W-002	160	200	240
VIB410-W-003	190	300	410
VIB410-W-004	305	485	665
VIB410-W-005	350	650	950

VIB450 SERIES FOR HEAVIER LOADS

Part No.	Payload Range (lbs) (Rated Load Range)		
	min	mid	max
VIB450-W-001	110	150	180
VIB450-W-002	160	200	240
VIB450-W-003	190	300	410
VIB450-W-004	310	500	690
VIB450-W-005	470	750	1010
VIB450-W-006	630	1000	1370
VIB450-W-007	940	1500	2060
VIB450-W-008	1260	2000	2740

Series VIB3400 / 450 critical dimensions:

Series	Dia.	Working Height
VIB410	3.125	3.0" +/- 0.250"
VIB450	6.000"	6.5" +/- 0.375"

How to Select The Right Size VIB?

To determine the VIB that is right for your job, review the document entitled "**Selecting the Right VIB410 Bearing**" and the accompanying examples.

Specification

Material: Heat-treated, electropolished 440c ss; anodized, Teflon coated aluminum.

Installation Instructions. Contact factory for directions or direct your OEM tool supplier to deliver new tools equipped with VIBs.

Natural Frequency:

Horizontal: 1.0 Hz (micro-vibrations) to 3.0 Hz (impact vibrations)

Vertical: 3.0 Hz at Rated Load Range

Variance from Rated Load	Hz
Min lb rating	3.6 Hz
Max lb rating	2.8 Hz

Tool Attachment. See Part Number Designation Chart.

U.S and International Patents Pending.

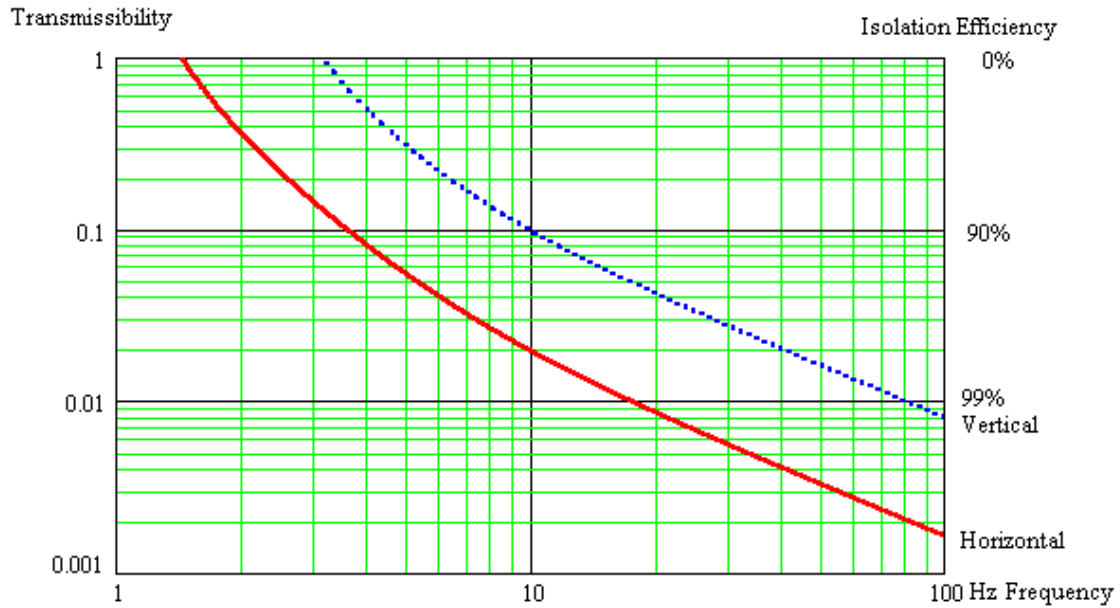
VIB410 / 450 Vibration Isolation Bearing





Series VIB410/450 Vibration Isolation Bearings

Isolation efficiency plot for all legs in the VIB450 product line



Isolator Natural Frequency

- Vertical 2.12 Hz
- Horizontal 1.02 Hz

Isolation efficiency @ 5 Hz		Isolation efficiency @ 10 Hz	
Vertical	80%		90%
Horizontal	94%		98%