

KINETICS™

Isolation Hangers Model FH



Description

Kinetics Model FH hangers are recommended for use in isolating high frequency noise produced by suspended equipment, piping, and ductwork. Model FH Hangers incorporate a coded, molded, inorganic fiberglass isolation pad attached to a steel load transfer plate and to a stamped or welded hanger bracket. Hangers will allow a support rod misalignment through a 30° arc. Isolation brackets will carry 500% overload without failure. Fiberglass pads are fine (0.00027" diameter/6.8 microns) bonded annealed glass fibers which are stabilized by severely overloading the material during the manufacturing process, and then coated with a flexible moisture-impervious elastomeric membrane. Fiberglass is unique in that the natural frequency is constant over a wide operating load range, and the stiffness increases proportionately with load applied. Model FH Isolation Hangers are available in sizes with capacities from 250 to 900 lbs. (113 to 408 kg), with deflection of 0.18" to 0.27" (5 to 7 mm). Kinetics Model FH hangers are recommended for the isolation of vibration produced by suspended mechanical or electrical equipment, in-line and exhaust fans, ductwork, piping, etc.

Application

Kinetics Model FH hangers are recommended for use in isolating any suspended source of audible frequency vibration, or noise, located near a critically quiet area.

Isolation of noise in piping and ductwork systems from a building structure is a typical use of Model FH hangers. Piping within 100 pipe diameters of connection to mechanical equipment should be isolated with Model SFH spring and fiberglass hangers to control transmission of low frequency vibration as well as noise.

High sound transmission loss ceiling systems can be effectively isolated by Model FH hangers. When isolating sources of predominately low frequency noise such as flyover aircraft, Model SFH hangers are recommended.

Model FH hangers are shipped fully assembled and ready for installation in threaded rod suspension systems.

Hanger Type	Standard Ratings				Dimensions									
	Load		Deflection		L		W		A		Dmax		H	
	lbs	kg	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
FH-250A	250	113	0.27	7	5.91	150	3.15	80	2.25	57	0.63	16	1.13	29
FH-500A	500	227	0.18	5	5.91	150	3.15	80	2.25	57	0.63	16	1.13	29
FH-900A	900	408	0.27	7	8.00	203	4.00	102	4.75	121	0.75	19	1.63	41

Specifications

Vibration isolators with maximum static deflection requirements under the operating load conditions not exceeding 0.27" (7 mm) shall be hangers consisting of a precompressed molded fiberglass insert, complete with load transfer plate and assembled in a stamped or welded steel bracket.

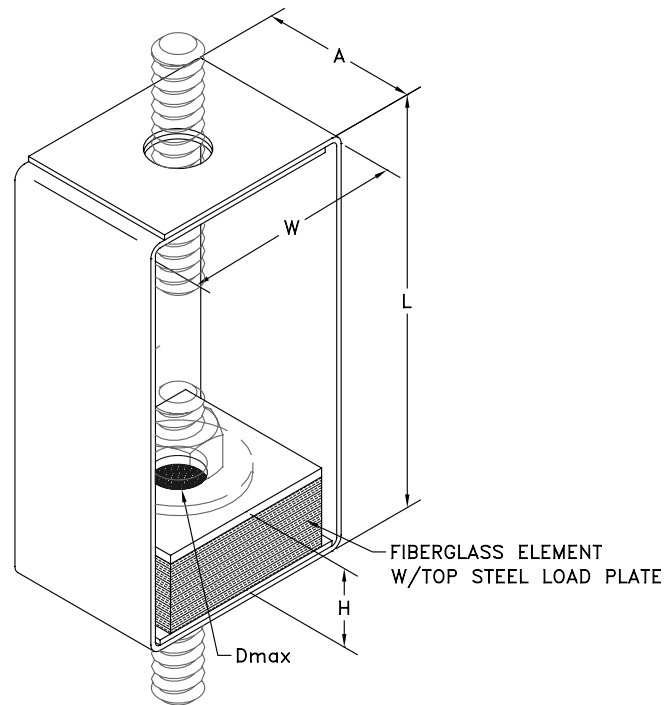
The fiberglass insert shall be individually coated with a flexible, moisture-impervious elastomeric membrane. The insert shall be molded from glass fibers with fiber diameters not exceeding 0.00027" (6.8 microns) and with a modulus of elasticity of 10.5 million PSI (738,223 kg/cm²).

Natural frequency of fiberglass vibration isolators shall be essentially constant for the operating load range of the supported equipment. Vibration isolators shall be coded to indicate load capacity.

The hanger bracket shall be designed to carry a 500% overload without failure and to allow a support rod misalignment through a 30° arc without metal-to-metal contact or other short circuit.

Isolation hangers shall be selected by the manufacturer for each specific application to comply with deflection requirements as shown on the Vibration Isolation Schedule or as indicated on the project documents.

Vibration isolation assembly shall be Model FH, as manufactured by Kinetics Noise Control, Inc.



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