



Description

Kinetics Model SH Vibration Isolation Hangers are designed to reduce the transmission of vibration and noise produced by suspended equipment and piping. SH Hangers incorporate a high deflection color-coded spring element, load transfer plate, and noise isolation pad, assembled into a stamped or welded hanger bracket. To assure stability, the spring element has a minimum lateral spring stiffness of 1.0 times the rated vertical stiffness. SH Hangers will allow a support rod misalignment through a 30° arc without short circuiting. Isolation brackets will carry a 500% overload without failure. Hangers are available in deflections of 4.00"(102 mm) and in capacities from 100 to 3850 lbs. (46 to 1747 kg). SH Hangers are effective in isolating vibration produced by low rpm equipment. Kinetics Model SH Hangers are recommended for the isolation of vibration produced by suspended mechanical equipment, in-line and exhaust fans, ductwork, piping, etc.

Application

Kinetics Model SH Hangers are recommended for use in isolating suspending sources of inaudible frequency vibration located near critical vibration-free areas.

Suspended mechanical equipment such as in-line fans, cabinet fans, and piping and ductwork in close proximity to mechanical equipment are typical uses of Model SH hangers.

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

Model SH hangers are available in a wide range of load and static deflection selections, and can be provided with labor saving accessories for preloading, or provided with positioning plates for ease in erecting piping at a fixed elevation.

Specifications

Vibration isolators for suspended equipment, with minimum static deflections requirement exceeding 0.4" (10 mm) shall be hangers consisting of a free-standing, laterally stable steel spring and elastomeric washer in series, assembled in a stamped or welded steel bracket.

The bracket shall be finished with an epoxy-based powder coating. The manufacturer shall provide independent laboratory testing showing that the bracket with this finish has endured a minimum of 1,000 hours of exposure to salt spray fog testing per ASTM B117 without signs of corrosion.

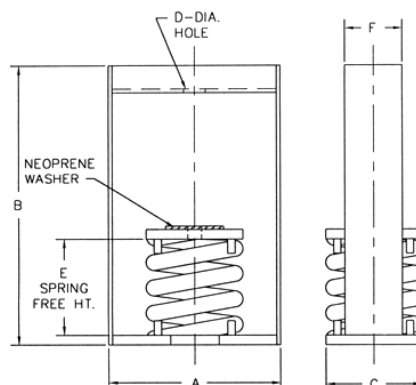
The hanger bracket shall be designed to carry a 500% overload without failure and to allow a support rod misalignment through a 30° arc without metal-to-metal contact or other short circuit.

Springs shall have a minimum lateral stiffness of 1.0 times the rated vertical stiffness.

Springs shall be selected to provide operating static deflections shown on the Vibration Isolation Schedule or as indicated on the project documents. Springs shall be color coded or otherwise identified to indicate load capacity.

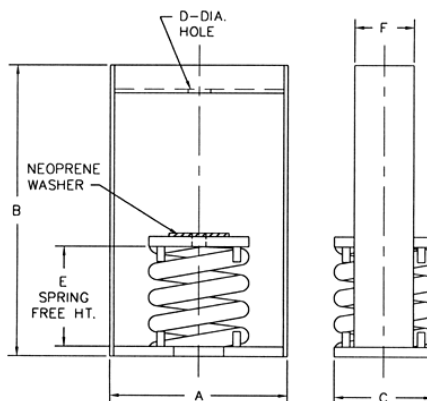
Vibration isolation shall be Model SH, as manufactured by Kinetics Noise Control, Inc.

SH-4-100/1600



Spring Type	Spring Color	Rated Defl. in/mm	Rated Load lb/kg	A in/mm	B in/mm	C in/mm	D in/mm	E in/mm	F in/mm
SH-4-100	Gray	4.00/102	100/46	9.38/238	16/406	6.00/152	1.13/29	10/254	4.00/102
SH-4-250	Blue	4.00/102	250/114	9.38/238	16/406	6.00/152	1.13/29	10/254	4.00/102
SH-4-500	Green	4.00/102	500/227	9.38/238	16/406	6.00/152	1.13/29	10/254	4.00/102
SH-4-750	Black	4.00/102	750/341	9.38/238	16/406	6.00/152	1.13/29	10/254	4.00/102
SH-4-1000	Red	4.00/102	1000/455	9.38/238	16/406	6.00/152	1.13/29	10/254	4.00/102
SH-4-1250	Brown	4.00/102	1250/568	9.38/238	16/406	6.00/152	1.13/29	10/254	4.00/102
SH-4-1600	Orange	4.00/102	1600/727	9.38/238	16/406	6.00/152	1.13/29	10/254	4.00/102

SH-4-2250/3850



Spring Type	Spring Color	Rated Defl. in/mm	Rated Load lb/kg	A in/mm	B in/mm	C in/mm	D in/mm	E in/mm	F in/mm
SH-4-2250	Beige	4.00/102	2250/1023	13.5/343	18.5/470	8.00/203	1.25/32	11.5/292	6.00/152
SH-4-2500	Beige/Blu	4.00/102	2500/1136	13.5/343	18.5/470	8.00/203	1.25/32	11.5/292	6.00/152
SH-4-2750	Beige/Grn	4.00/102	2750/1250	13.5/343	18.5/470	8.00/203	1.25/32	11.5/292	6.00/152
SH-4-3000	Beige/Blk	4.00/102	3000/1364	13.5/343	18.5/470	8.00/203	1.25/32	11.5/292	6.00/152
SH-4-3250	Beige/Red	4.00/102	3250/1475	13.5/343	18.5/470	8.00/203	1.25/32	11.5/292	6.00/152
SH-4-3500	Beige/Brn	4.00/102	3500/1588	13.5/343	18.5/470	8.00/203	1.25/32	11.5/292	6.00/152
SH-4-3850	Beige/Org	4.00/102	3850/1747	13.5/343	18.5/470	8.00/203	1.25/32	11.5/292	6.00/152