Kinetics SRH
25 & 51mm
Deflection Isolation Hangers

CMSDANSKIN ACOUSTICS

Technical Data Sheet

Kinetics SRH vibration isolation hangers consist of free-standing, large diameter, laterally stable steel springs in series with an elastomer-inshear insert, 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. Hangers with properly deflected coils 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 from 30 to 61mm, and in capacities from 16 to 1588kg. Model SRH hangers are superior to hangers which incorporate only springs, which can transmit noise through the all metal construction, and hangers which incorporate only pads, which can transmit low frequency vibration. Kinetics Model SRH hangers are recommended for the isolation of vibration produced by suspended mechanical equipment, low-speed suspended fans, transformers, ductwork, piping, etc.

APPLICATIONS

Kinetics SRH hangers are used to isolate suspended sources of both noise and vibration. Typical uses include suspended mechanical equipment such as inline fans, cabinet fans, and piping and ductwork in close proximity to mechanical equipment. SRH hangers feature Kinetics patented No-Short self-centering cap.

Kinetics' minimum recommendation for the placement of spring hangers is that they be installed on all piping in the equipment room and on the first 15m for piping that extends outside of the equipment room. For typical installations, the three spring hangers closest to the equipment should have equal deflection to the equipment isolators. The remaining spring hangers should have a minimum deflection of 25mm. In noise sensitive areas, the pipe hangers selected should have the same deflection as that specified for the equipment isolation and all piping in the building should be isolated.

High sound transmission loss ceiling systems can be isolated by the use of SRH hangers in the ceiling suspension system.

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

Model SRH hangers are available in a wide range of load and static deflection selections and can be provided with labor-saving accessories for adaption to wire or strap suspension systems, and spring may be preloaded for ease in erecting piping at a fixed elevation.

SPECIFICATIONS

Vibration isolators for suspended equipment with minimum static deflection requirement exceeding 10mm, and where both high and low frequency vibrations are to be isolated, shall be hangers consisting of a laterally stable spring in series with an elastomer-in-shear insert complete with load transfer plates and assembled in a stamped or welded steel bracket.

The bracket shall be finished with an polyester-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 elastomer insert shall be molded from oil-resistant compounds and shall be color coded to indicate load capacity and selected to operate within its published load range.

The spring element shall have a minimum lateral stiffness of 1.0 times the rated vertical stiffness.

Springs shall be color coded or otherwise identified 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.

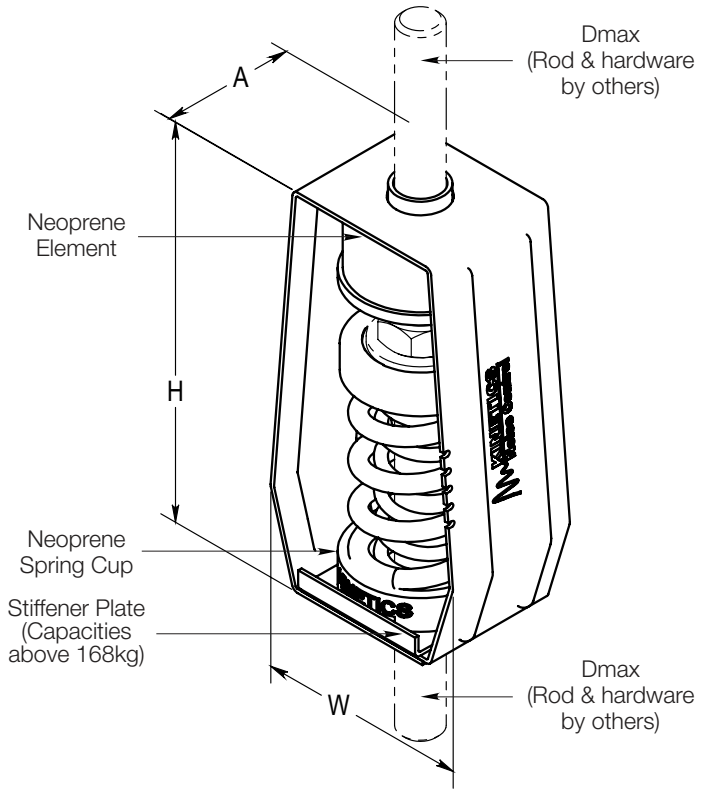
The hanger bracket shall incorporate spring caps with indexed steps which correspond to the washer diameter of the appropriately sized hanger rod to keep the rod centered in the spring cap and reduce rod misalignment.

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.

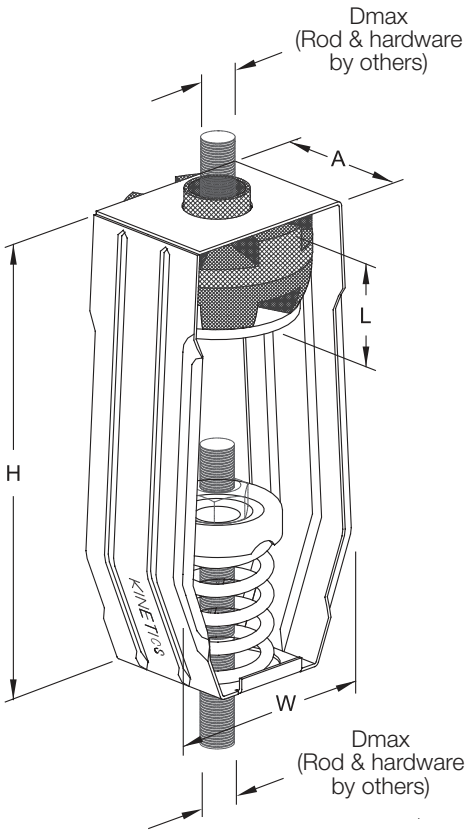
The combination isolation hanger assembly with neoprene insert shall be Model SRH, as manufactured by Kinetics Noise Control, Inc.

KINETICS Noise Control®

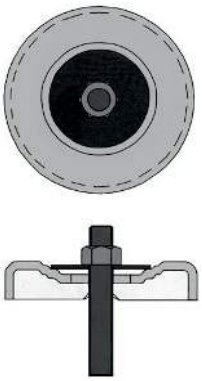
Kinetics SRH Deflection Isolation Hangers - SRH-1-12 to SRH-1-805



Kinetics SRH Deflection Isolation Hangers - SRH-1-50 to SRH-2-3250



How the self centering no short cap works:
Indexed steps in spring cap correspond to standard washer diameters for the appropriate rod diameter. The washer and rod stay centered in the cap.



KINETICS Noise Control

Kinetics SRH Deflection Isolation Hangers - 25 & 51mm

Hanger Type	Spring Colour	Spring O.D. (mm)	Load (kg)	Deflection (mm)	L (mm)	H (mm)	W (mm)	A (mm)	Dmax (mm)
SRH-1-12	Silver	44	5	26	-	150	79	79	16
SRH-1-18	Yellow	44	8	27	-	150	79	79	16
SRH-1-30	Blue	44	14	27	-	150	79	79	16
SRH-1-35	Blue	44	16	41	-	150	79	79	16
SRH-1-37	White	44	17	28	-	150	79	79	16
SRH-1-70	Green	44	32	39	-	150	79	79	16
SRH-1-75	Black	44	34	30	-	150	79	79	16
SRH-1-125	Grey	44	57	40	-	150	79	79	16
SRH-1-150	Red	44	68	33	-	150	79	79	16
SRH-1-245	Brown	44	111	39	-	150	79	79	16
SRH-1-300	Purple	44	136	36	-	150	79	79	16
SRH-1-370	Orange	44	168	33	-	150	79	79	16
SRH-1-500	Beige	44	227	37	-	150	79	79	16
SRH-1-600	Chrome	44	272	34	-	150	79	79	16
SRH-1-700	Beige/White	44	318	36	-	150	79	79	16
SRH-1-805	Chrome/White	44	365	32	-	150	79	79	16
SRH-1-50	Beige	76	23	29	51	218	142	92	22
SRH-1-100	Chrome	76	45	30	51	218	142	92	22
SRH-1-250	Blue	76	113	54	51	218	142	92	22
SRH-1-450	Green	76	204	49	51	218	142	92	22
SRH-1-625	Black	76	283	46	51	218	142	92	22
SRH-1-800	Grey	76	363	37	51	218	142	92	22
SRH-1-1000	Red	76	454	37	51	218	142	92	22
SRH-1-1250	Brown	76	567	35	51	218	142	92	22
SRH-1-1700	Orange	76	771	34	51	218	142	92	22
SRH-1-2200	Orange/Grey	76	998	39	47	241	127	121	22
SRH-1-2465	Blue	76	1118	40	47	241	127	121	22
SRH-1-2865	Blue/Grey	76	1300	43	47	241	127	121	22
SRH-1-3500	Blue/Brown	76	1588	46	47	241	127	121	22
SRH-2-35	Blue	44	16	53	44	187	94	57	13
SRH-2-70	Green	44	32	56	44	187	94	57	13
SRH-2-120	Grey	44	54	59	44	187	94	57	13
SRH-2-220	Brown	44	100	58	44	187	94	57	13
SRH-2-260	Blue	76	118	56	44	218	142	92	22
SRH-2-465	Green	76	211	51	44	218	142	92	22
SRH-2-720	Black	76	327	53	44	218	142	92	22
SRH-2-850	White	76	386	50	44	218	142	92	22
SRH-2-1025	Beige	76	465	51	44	218	142	92	22
SRH-2-1200	Chrome	76	544	51	44	218	142	92	22
SRH-2-2000	Orange	127	909	53	44	305	152	152	25
SRH-2-2500	Blue	127	1136	53	44	305	152	152	25
SRH-2-2750	Blue/Blue	127	1250	54	44	305	152	152	25
SRH-2-3025	Blue/Green	127	1375	54	44	305	152	152	25
SRH-2-3250	Blue/Black	127	1477	54	44	305	152	152	25

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