Kinetics SHAA

Light-duty spring vibration isolation hanger

CMSDANSKIN ACOUSTICS

Technical Data Sheet

Model SHAA spring hangers consist of freestanding, laterally stable steel springs in series with a moulded elastomeric element assembled into a stamped and welded hanger bracket.

The hanger brackets are zinc plated and incorporate colour-coded spring elements. To assure stability, the spring element has a minimum lateral spring stiffness of 1.0 times the rated vertical stiffness. They will carry a 500% overload without failure.

APPLICATION

- Ceilings
- Fan coil boxes
- Light-duty fans
- Piping
- Duct work

With lighter weight construction materials used in office buildings, schools and hospitals today, it does not take much energy to generate annoying vibration problems. The SHAA rubber and spring vibration isolation hangers are designed to provide high-efficiency isolation from structure-borne vibration for lighter point load applications.

It is important the spring is adequately loaded to achieve the desired natural frequency. The SHAA provides 25 mm deflection at loads of 8 to 32 kg.

The SHAA vibration isolation hangers are complete with moulded neoprene rubber bottom caps which hold the spring in place, provide protection against short-circuiting due to rod misalignment, and isolate against high frequency vibration from fan blade passage noise.

These vibration isolation hangers are shipped completely assembled and are designed to be used with threaded rod through 10 mm in diameter.

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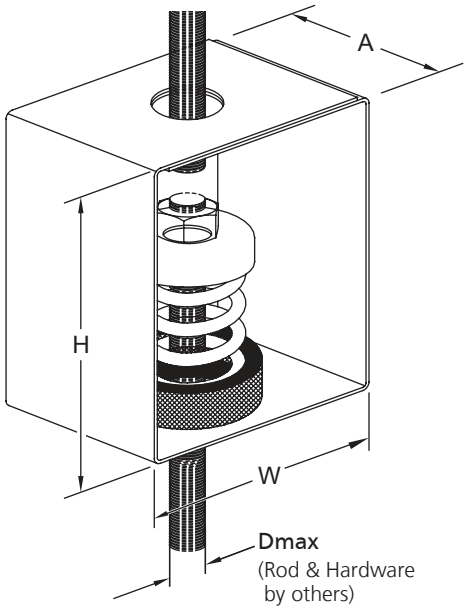
TECHNICAL INFORMATION

Type	Standard Ratings		Spring Coil				Dimensions			
	Load	Deflection	Overload @ Rated Deflection	Colour	Free HT	OD	H	W	A	Dmax
SHAA-1-17	8 kg	25 mm	91 %	Blue	64 mm	31 mm	101 mm	55 mm	38 mm	10 mm
SHAA-1-25	11 kg	26 mm	55 %	Black	64 mm	31 mm	101 mm	55 mm	38 mm	10 mm
SHAA-1-45	20 kg	26 mm	58 %	Brown	64 mm	31 mm	101 mm	55 mm	38 mm	10 mm
SHAA-1-55	25 kg	23 mm	56 %	Orange	64 mm	31 mm	101 mm	55 mm	38 mm	10 mm
SHAA-1-71	32 kg	21 mm	52 %	Red	64 mm	31 mm	101 mm	55 mm	38 mm	10 mm
SHAA-1-90	41 kg	20 mm	47 %	Beige	64 mm	31 mm	101 mm	55 mm	38 mm	10 mm
SHAA-1-130	59 kg	15 mm	40 %	White	64 mm	31 mm	101 mm	55 mm	38 mm	10 mm
SHAA-1-270	122 kg	13 mm	40 %	Purple	64 mm	31 mm	101 mm	55 mm	38 mm	10 mm

SPECIFICATION

- Vibration isolators for suspended equipment with minimum static deflection requirement exceeding 7.5 mm, 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 spring bottom cap and assembled in a stamped and welded steel bracket.
- The stamped and welded bracket shall be finished with an electro-zinc plating. The elastomer insert shall be moulded from oil resistant compounds and shall be 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 colour 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.
- 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.



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