

MCVH Series

Construction

Vibration and shock isolator with separate and decoupled shock attenuation element
 The external ring, made in high strength elastomers, with nearly the same displacement ability in all axis, confers a very good attenuation in low frequency domain of shocks whereas the central element, consisting of two opposite membranes features the isolators with an efficient and high damping of vibrations in all axis
 The Q factor is at maximum of 4,5
 Approximate weight of damper: 550 grams

Applications

Insulation of cabinets or equipment subjected to highly stringent test or operating conditions.
 Their performances makes them especially recommended for protection of sensitive equipment used by Army (tanks) and Navy (ships and submarines) as well as for shelters, containers or skids

Codification

The reference to be indicated for these dampers is:
 MCVH-[x],
 [x] corresponding to the index of load range

Particular achievements can be proposed, for any request, consult our engineering departments

NATO Codification

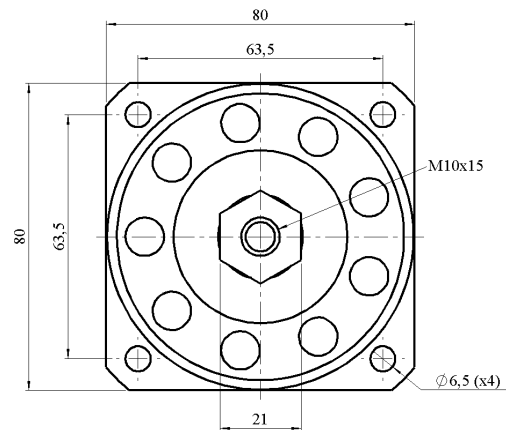
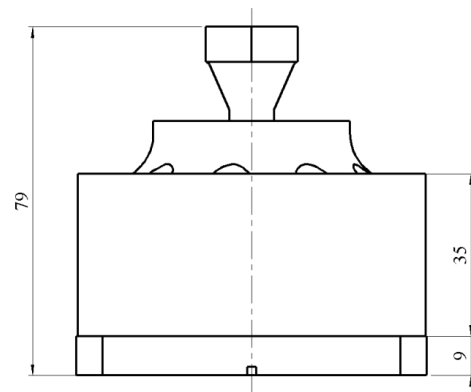
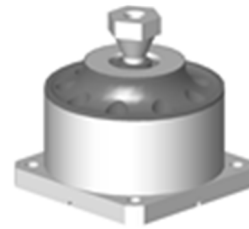
MCVH 3: 5340.14.365.1164
 MCVH 5: 5340.14.439.8430

Characteristics

It is possible to apply the load in all directions but preferably in vertical compression axis
 The vibrations levels can reach $\pm 1,5\text{mm}$ and this for resonance frequencies from 7,5Hz
 The axial to radial frequency factor is about 0,9
 The maximum displacements are of $\pm 30\text{mm}$ in axial direction and $\pm 25\text{mm}$ in radial direction
 The operative temperature range is from -30°C to $+80^\circ\text{C}$

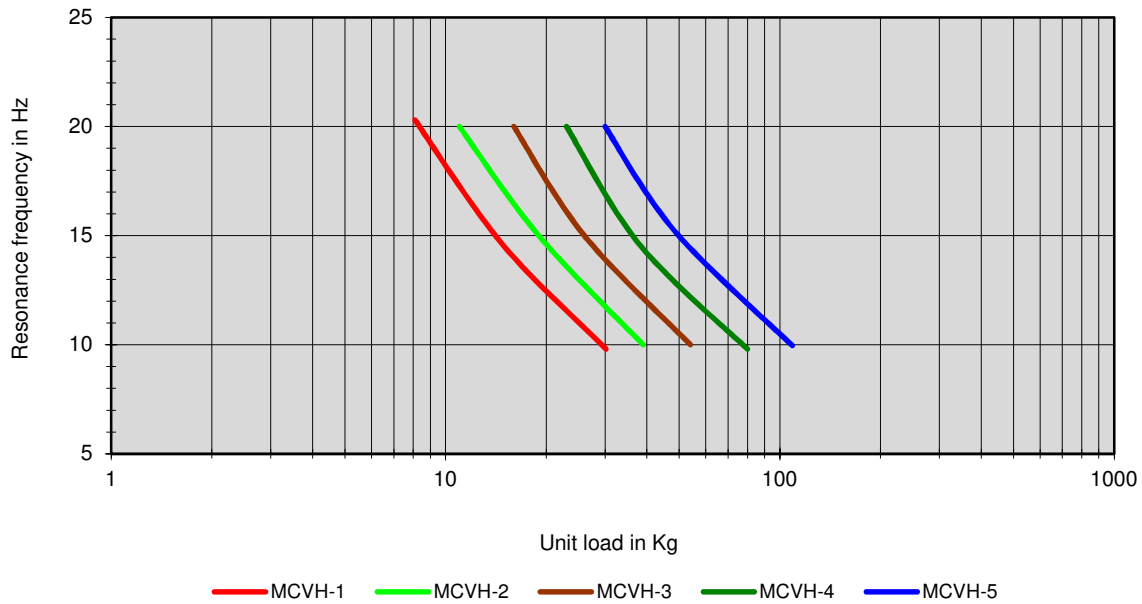
The maximum loads are:

MCVH 1	MCVH 2	MCVH 3	MCVH 4	MCVH 5
30 Kg	40 Kg	55 Kg	80 Kg	110 Kg

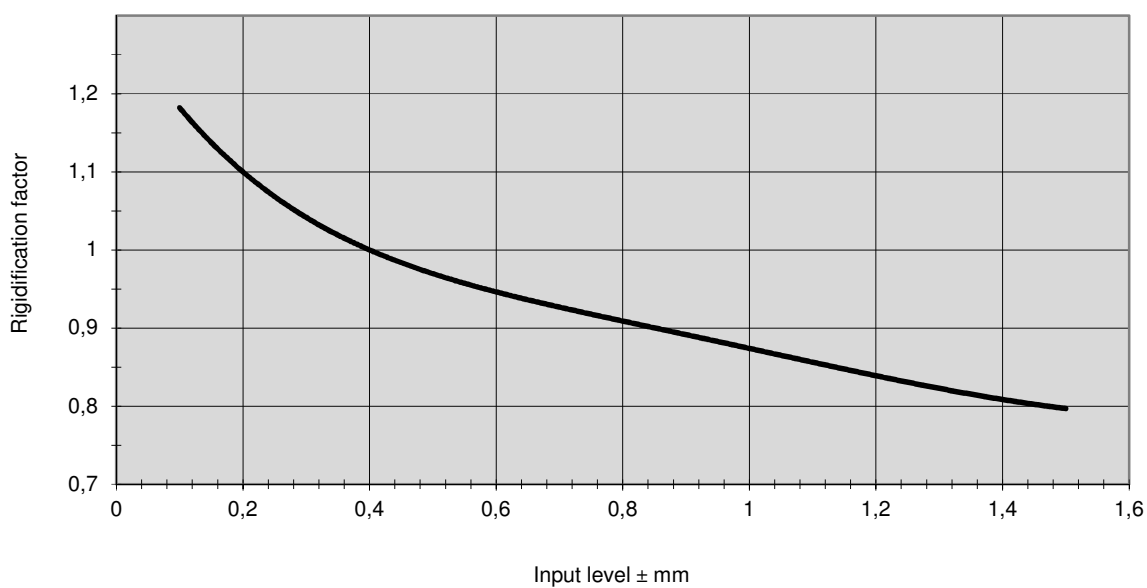


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Load range under $\pm 0,4$ mm

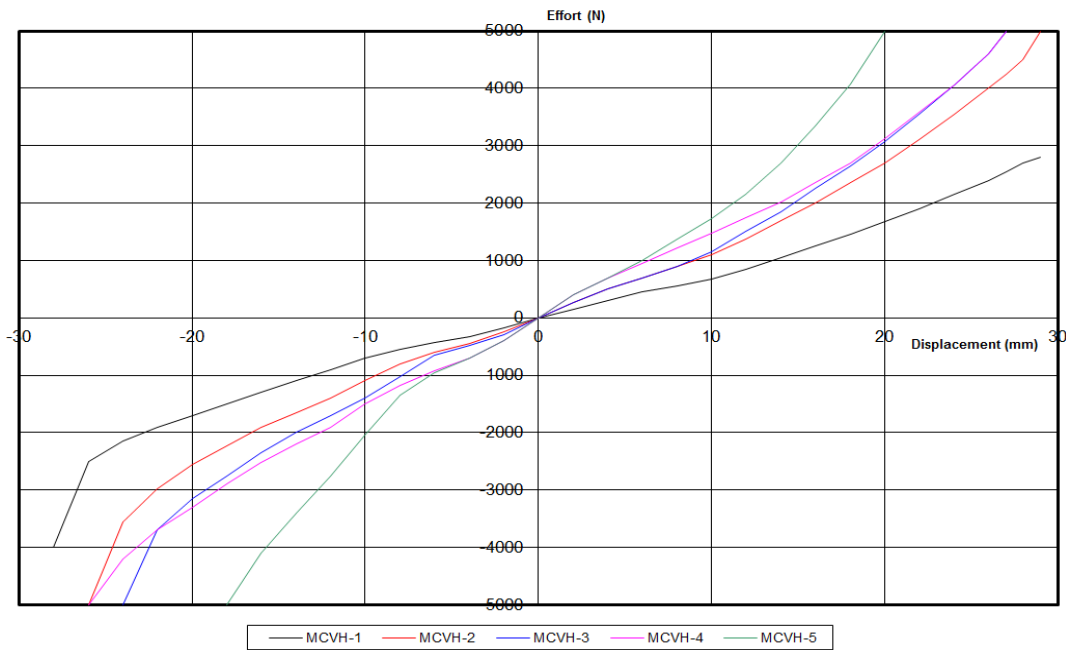


Typical dynamic rigidification behaviour



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Static Axial Behavior MCVH series



Static Radial Behavior MCVH series

