

GKE-1006-B Series

Construction

The GKE-1006-B damper is made of silicone rubber with high mechanical fatigue properties combined with viscous fluids, in order to obtain high damping, allowing to reach a Q factor at resonance, lower than 3.0

The Fluorosilicon rubber allows a use in severe Aeronautical environmental conditions as well as in a large temperature domain

Approximate weight of damper: 120 grams

Applications

These isolators are suitable in a very large application field, for insulation of sensitive equipment boarded or at fixed stations, like full bays, compressors, power of hydraulic units rotary machines, portable cabinets and measuring equipment, with a good isolation of low frequencies under high dynamic input. In a small size, their deflexion ability enabling them to damp shock or jerk applied on structure.

Codification

The reference to be indicated for these dampers is as follows:

GKE-1006-B[x]

[x]: Load index

Characteristics

It is possible to apply the load in all directions but preferably in compression axis.

The vibrations levels can reach $\pm 2\text{mm}$ and this for resonance frequencies from 10Hz.

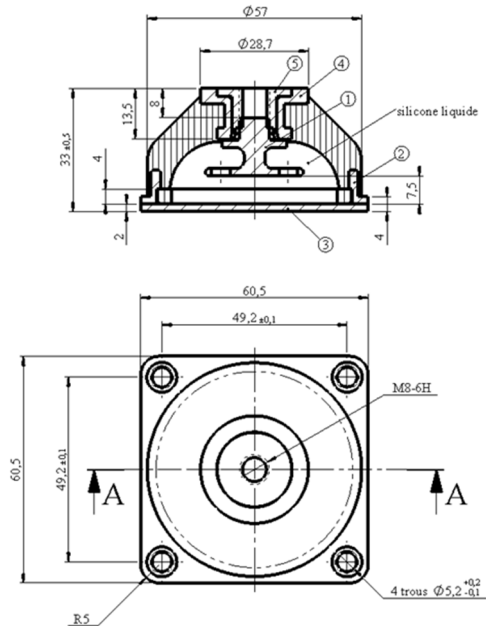
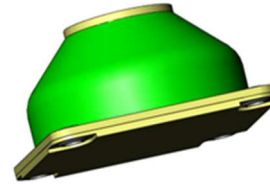
The axial to radial frequency factor is about 1,2.

The operative temperature range is from -55°C to $+120^{\circ}\text{C}$.

The wide range of loading allows a use of same in different loads configuration with quite same behaviour (illustrated by curve on second page, comparison between the new isolator and a classical issue where earlier the load range was 7-20Kg for 10-20Hz, now the extended range for same frequency range is 3-40Kg)

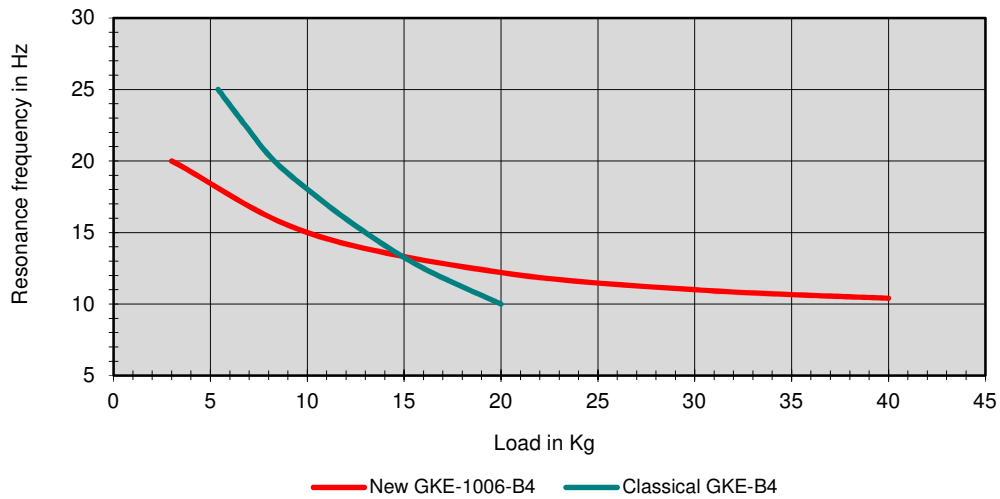
In same way the characteristics under a given load by a changing level of excitation is more linear as with a classical one, as well as the new isolator became a better creeping under load behaviour, as illustrate on second page also

The Shelf life is of 10 Years in normal conditions (NF-L-17-103)



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Typical Load range under +/-1mm



Typical creeping behavior

