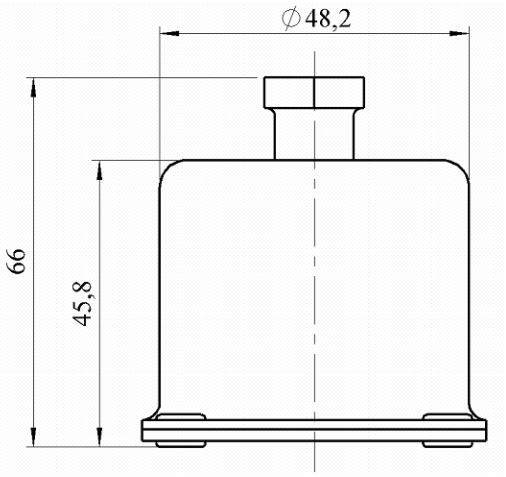
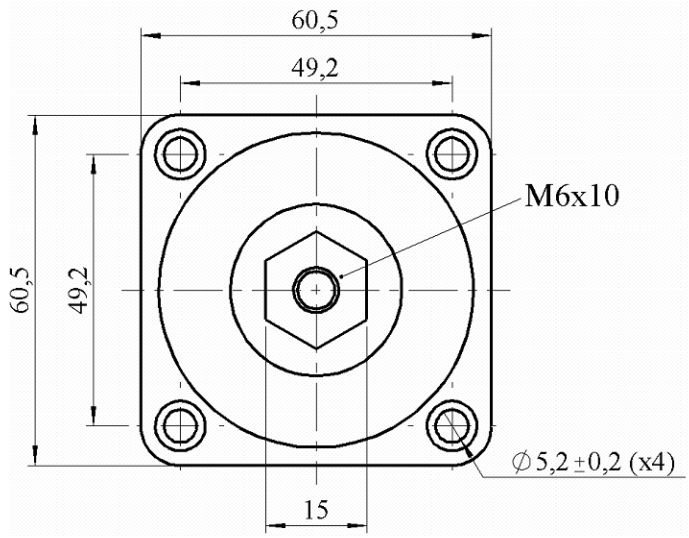
GAMMA

GDL 5 Series





Construction

The GDL 5 series dampers are made of stainless steel metal parts and of elastic rubber elements combined with viscous fluids, in order to obtain high damping, allowing to reach a Q factor at resonance, lower than 2, following loads and amplitudes of excitation (Qmax = 3)
Their construction is fail-safe
Approximate weight of damper : 240 grs

Applications

These isolators are suitable for the realization of suspensions of sensitive materials mounted on carrier or at fixed stations
Their excellent damping behaviour enable them to filter efficiently shocks and jerks comparatively to classical isolators with same sizes

Codification

The reference to be indicated for these dampers is at follows : GDL-5S-[xx] ;
[xx] corresponding to the index of load range

Particular achievements with specific load range can be proposed, for any request, consult our engineering departments

NATO Codification:

GDL-5S-01 : 5340.14.426.8638
GDL-5S-02 : 5340.14.426.8637

Characteristics

The static load can be applied in all directions
The input level can reach *±4mm* for resonance frequencies from *10Hz*
The axial to radial stiffness factor is about 1,1
The coefficients of variation of stiffness according to the input are better than for a traditional isolator
The extent of the load range for each index is larger than for a traditional isolator
The operative temperature range is from *-55°C to +150°C,* with low coefficients of variation of characteristics
The max static loads are :

GDL-5S-01	GDL-5S-02
11,0 Kg	20,0 Kg

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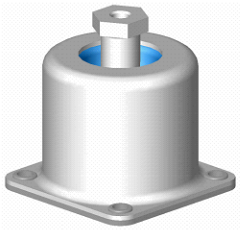
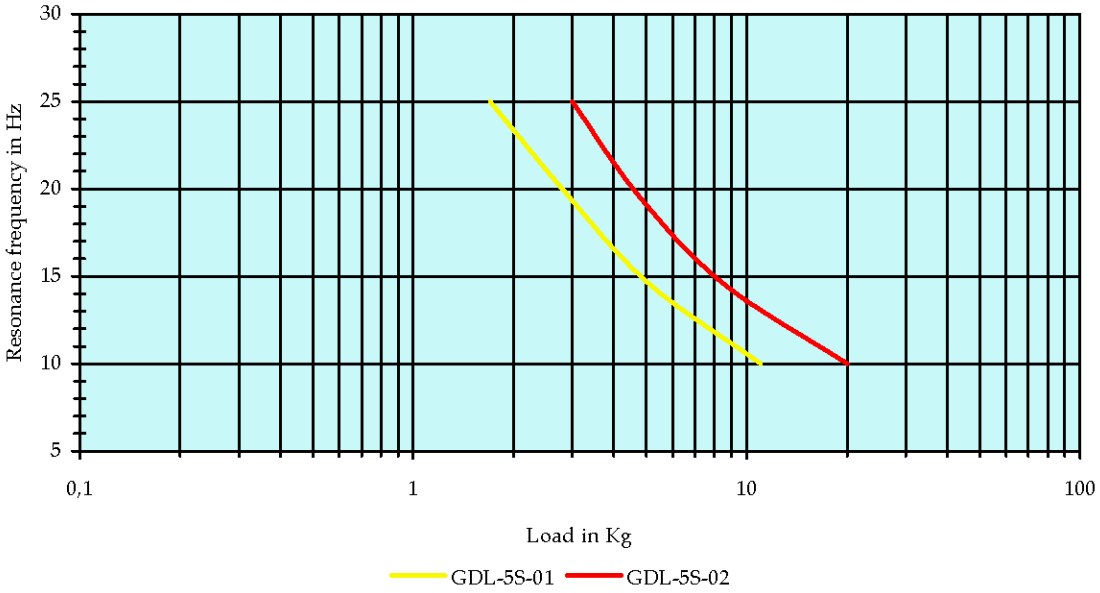
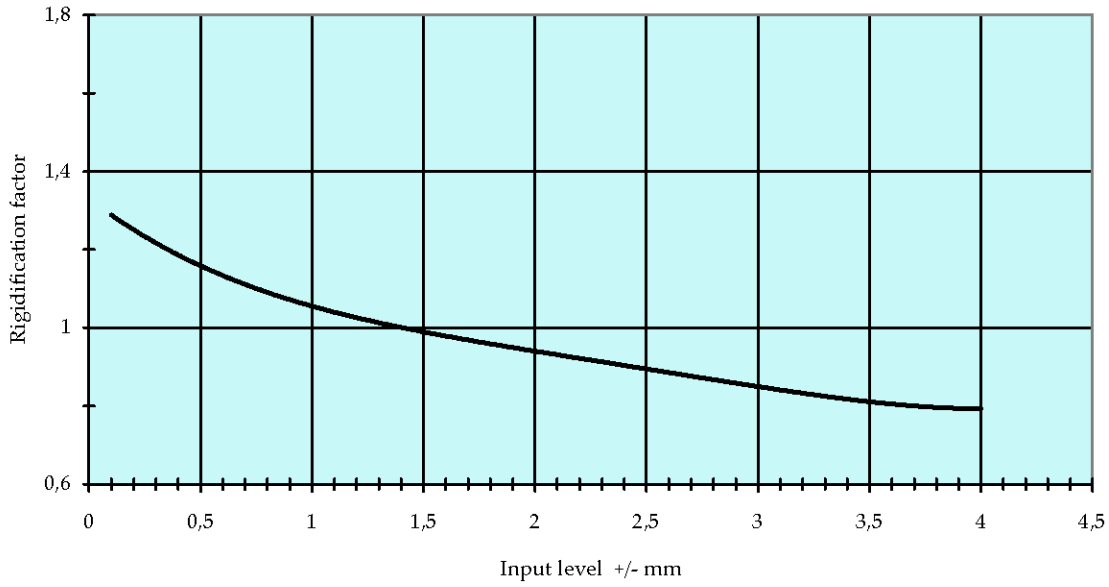


Load range under +/-1,5mm



Typical dynamic rigidification behaviour



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