









Vibration-damping levelling elements

Steel base and stem

BASE

Zinc-plated steel.

DAMPING ELEMENT

NR rubber, hardness 80 Shore A, black colour, matte finish.

LEVELLING PLATE

Zinc-plated steel.

PACKING RING

NBR synthetic rubber O-Ring

THREADED STEM

Zinc-plated steel, supplied not assembled.

NUT AND WASHER

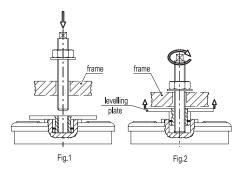
Zinc-plated steel.

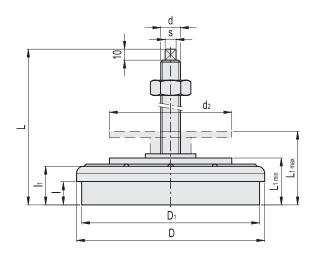
FEATURES

ELESA vibration-damping levelling elements have been designed to damp vibrations, shocks and noises produced by moving bodies or non-balanced vibrating masses of equipment and machines which can cause:

- malfunctioning and reduction of the machine lifespan and/or of the adjacent ones;
- damage to operator's health;
- noise.
- Put the base of the vibration-damping element under the machine and insert the stem through the hole (not threaded) in the frame of the machine (fig.1)
- Turn the square end of the stem to take the levelling plate in contact with the machine thus obtaining the levelling required. Then lock with nut and washer (fig.2)







Code	Description	D	d	D1	L	L1 min÷max	ı	l1	d2	s	Max. limit static load [N]	Stiffness [N/mm]	Max. deflection [mm]	4
415111	LW.A-80-M12x1.25x120	80	M12x1.25	72	133	35÷46	18.5	32	60	7x7	5000	2500	2	530
415121	LW.A-120-M16x1.5x130	120	M16x1.5	109	144	40÷51	23	36.5	80	9x9	10000	4000	2.5	1200
415131	LW.A-160-M20x1.5x170	160	M20x1.5	150	188	50÷63	29	43.5	130	12x12	20000	9000	2.2	2650
415141	LW.A-200-M20x1.5x170	200	M20x1.5	186	198	60÷73	36	54.5	130	12x12	40000	15000	2.7	4500

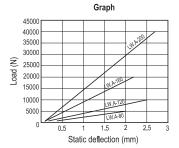
TECHNICAL DATA AND GUIDELINES FOR THE CHOICE

- Basic data required:
- disturbing frequency: the frequency of the disturbing vibration produced by a on-duty machine. In general, it is obtained by the number of rotations of the engine [Hz=r.p.m./60];
- the load applied to every single vibration-damping element [N];
- the isolation degree required [%];
- the deflection value of the vibration-damping element under a given load [mm];
- the rigidity, that is to say the load that applied to the vibrationdamping element produces a deflection of 1.0 mm [N/mm].
- 2. How to choose the vibration-damping element:
- with reference to the diagram for checking the isolation degree, intersect the disturbing frequency value with the isolation degree required (each isolation degree corresponds to a line in the diagram) and define the deflection [in mm];
- divide the load applied onto the vibration-damping element by the deflection value to obtain the required rigidity of the vibrationdamping element;
- compare the rigidity obtained with the rigidity shown in the table and choose the vibration-damping element which presents the nearest value (lower) to the calculated one.
- the deflection of the vibration-damping element chosen can be obtained in the graph on the basis of the load;
- intersect the disturbing frequency value with the vibrationdamping element deflection value in the diagram to obtain the isolation degree offered by the vibration-damping element chosen;
- compare the obtained value with the isolation degree required.

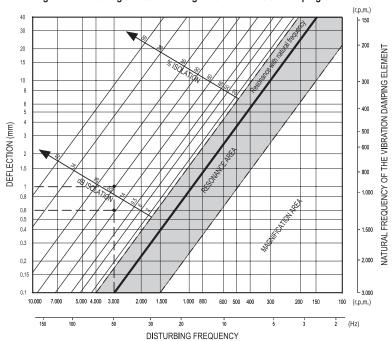
4. Example:

- Conditions of use: disturbing frequency = 50 Hz (3,000 r.p.m.); load applied to every levelling element = 4,000 N; a 80% isolation degree is required;
- diagram shows that with a 50 Hz disturbing frequency and an isolation degree of 80%, the deflection obtained is 0.6 mm;
- divide the load applied by the deflection obtained to define the rigidity required, which is 4,000/0.6= 6,666 N/mm;
- compare the rigidity value obtained (6,666 N/mm) with the values reported in the table. This value is within the rigidity value reported in the table for LW.A-120 (4,000 N/mm) and LW.A-160 (9,000 N/ mm). Choose the vibration-damping element with the lower value that is LW.A-120
- graph shows that LW.A-120 (4,000 N/mm) deflection is 1mm.
- by intersecting the deflection value with the disturbing frequency of 50 Hz in the diagram, the isolation degree obtained is 90%

This value is even greater than the required one; your choice has proved to be correct.







X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Mounting Fixings category:

Click to view products by Elesa & Ganter manufacturer:

Other Similar products are found below:

007310 007541 61-068636-79P 6-141-P 620HA038NF09 620HA038NF11 M81714/60-12-01 M81714/60-22-01 L/C 70-584649-01P 71074914-006 71-146610-6H 712HA170B23128-N 71-441864-5S 75-69116-8S 75-69211-3P 75-69220-27S 75-69224-5S 770-006A109 770006A109R 770-006A207 770-006A208W1 770-006A209 770-006A306 770-006A703W1 770-006A704 770-006A704W1 770-006A705
770-006A706 770-006A706W1 770-006A707 770-006A709 770-007A203 770-007A203W1 770-007A204W1 770-007A207W1 770007A703 770-007A704W1 770-007A706 770-007A707W1 770-010Y208 770-010Y308 770-010Y705 770-010Y706 770-010Y707W1
770-011T201 770-011T203 770-011T701W1 770-011T702 770-011T702W1 770-011T703