BASE
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

DAMPING ELEMENT
Polyurethane-based rubber (PUR), natural colour, hardness 50 Shore A.

ARTICULATED STEM
Threaded AISI 304 stainless steel with regulation hexagon.

FEATURES AND APPLICATIONS
The rubber buffers have been designed to damp vibrations, shocks and noises produced by moving bodies or non-balanced vibrating masses of equipment and machines.
Vibrations can cause:
- malfunctioning and reduction of the machine lifespan and/or of the adjacent ones;
- damage to operator's health;
- noise.

ORDER INFORMATION
The levelling feet are supplied unassembled to make carriage and storage easier. The components (base and stem) are supplied in separate packing: less volume taken and better protection from scratches and dirt.
To order bases and stems separately, see:
- table of possible combinations Bases/Stems (see page 839)
- the codes of the Bases (see page 836)
- the codes of the Stems (see page 985).

TECHNICAL DATA AND GUIDELINES FOR THE CHOICE
The maximum static load value shown in the table indicates the static load for a specific load of 0.4 N/mm2 to which the damping element can be subjected in order to have optimal vibration absorption.
The table shows also the values (l2) of elastic deformation with a load of max 0.6 N/mm² in case of a dynamic load.
The effectiveness of the damping depends on the ratio between the disturbance frequency of the machine and the natural frequency of the damping foot.
The natural frequency of the base depends on the material, the geometry, and the specific load [N/mm2] to which it is subjected.
The specific load is obtained by dividing the applied load by the support area of the damping element.
Once the specific load is known, the natural frequency of the foot can be obtained from the graph in figure 1.
The damping starts when the ratio between the disturbance frequency of the machine and the natural frequency of the damping foot is greater than √2. The greater the difference between the interference frequency of the machine and the natural frequency of the foot, the greater the damping (see figure 2).
Example:
1. Expected load on the foot = 150 N
2. Specific load LS.VA-32 = 150/239 = 0.63 N/mm2
3. Specific load LS.VA-40 = 150/452 = 0.33 N/mm2
4. LS.VA-40 is therefore chosen as the specific load of the example is less than 0.4 N/mm2 , which is the optimal damping value.
5. Entering the graph in figure 1 with a specific load of 0.33 N/mm2 we obtain a natural frequency of 26 Hz (curve LS.VA-40).
6. Entering the graph in figure 2, with 26 Hz, the chosen foot will start to dampen frequencies greater than 32 Hz.
   A damping of 69% is obtained for a machine frequency of 61 Hz.
   A damping of 92% is obtained for a machine frequency of 85 Hz.

ACCESSORIES ON REQUEST
AISI 304 stainless steel nut (see Nuts NT. on page 835).

ELESA Original design

Fig.1

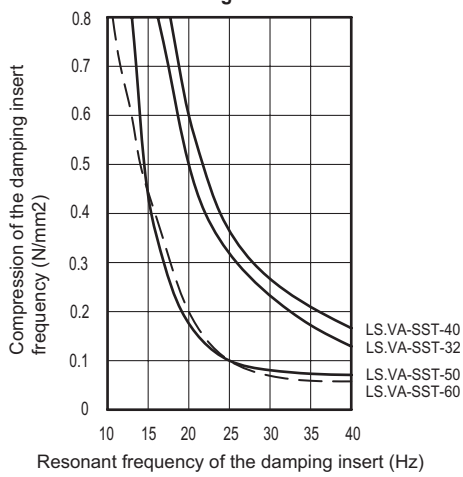
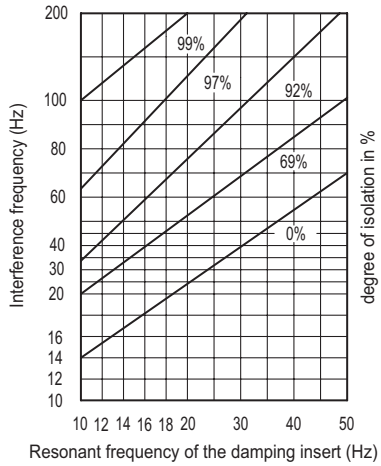
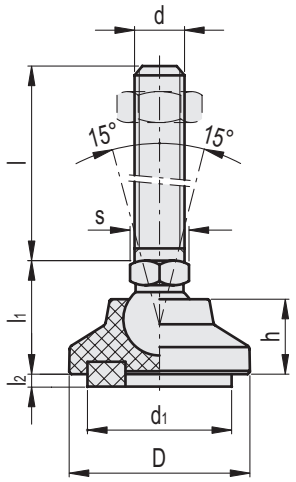


Fig.2



Models all rights reserved in accordance with the law. Always mention the source when reproducing our drawings and photos.



INOX STAINLESS STEEL | INCH

Code	Description	D	d2A	l	l1	l2	d1	h	s	Articulation Ø	l2 0 [lbf/inch2]	l2 0.4 [lbf/inch2]	l2 0.6 [lbf/inch2]	Area damping insert [inch2]	Max. limit static load* [lbf]	⚖
90352122	LS.VA-32-14-SST-3/8-16X2	1.26	3/8-16	2	0.98	0.21	0.91	0.59	9/16	0.55	768.70	696.18	667.17	0.37	21.58	0.12
90352126	LS.VA-32-14-SST-3/8-16X4	1.26	3/8-16	4	0.98	0.21	0.91	0.59	9/16	0.55	768.70	696.18	667.17	0.37	21.58	0.23
90352128	LS.VA-32-14-SST-3/8-16X6	1.26	3/8-16	6	0.98	0.21	0.91	0.59	9/16	0.55	768.70	696.18	667.17	0.37	21.58	0.13
90352322	LS.VA-32-14-SST-1/2-13X2	1.26	1/2-13	2	0.98	0.21	0.91	0.59	9/16	0.55	768.70	696.18	667.17	0.37	21.58	0.14
90352326	LS.VA-32-14-SST-1/2-13X4	1.26	1/2-13	4	0.98	0.21	0.91	0.59	9/16	0.55	768.70	696.18	667.17	0.37	21.58	0.24
90352332	LS.VA-32-14-SST-1/2-13X6	1.26	1/2-13	6	0.98	0.21	0.91	0.59	9/16	0.55	768.70	696.18	667.17	0.37	21.58	0.23
90352522	LS.VA-32-14-SST-5/8-11X4	1.26	5/8-11	4	0.98	0.21	0.91	0.59	5/8	0.55	768.70	696.18	667.17	0.37	21.58	0.35
90352526	LS.VA-32-14-SST-5/8-11X6	1.26	5/8-11	6	0.98	0.21	0.91	0.59	5/8	0.55	768.70	696.18	667.17	0.37	21.58	0.52
90352542	LS.VA-32-14-SST-5/8-11X8	1.26	5/8-11	8	0.98	0.21	0.91	0.59	5/8	0.55	768.70	696.18	667.17	0.37	21.58	0.57
90353122	LS.VA-40-14-SST-3/8-16X2	1.57	3/8-16	2	0.98	0.24	1.18	0.67	9/16	0.55	870.23	812.21	783.20	0.70	40.47	0.14
90353126	LS.VA-40-14-SST-3/8-16X4	1.57	3/8-16	4	0.98	0.24	1.18	0.67	9/16	0.55	870.23	812.21	783.20	0.70	40.47	0.25
90353128	LS.VA-40-14-SST-3/8-16X6	1.57	3/8-16	6	0.98	0.24	1.18	0.67	9/16	0.55	870.23	812.21	783.20	0.70	40.47	0.15
90353322	LS.VA-40-14-SST-1/2-13X2	1.57	1/2-13	2	0.98	0.24	1.18	0.67	9/16	0.55	870.23	812.21	783.20	0.70	40.47	0.16
90353326	LS.VA-40-14-SST-1/2-13X4	1.57	1/2-13	4	0.98	0.24	1.18	0.67	9/16	0.55	870.23	812.21	783.20	0.70	40.47	0.26
90353332	LS.VA-40-14-SST-1/2-13X6	1.57	1/2-13	6	0.98	0.24	1.18	0.67	9/16	0.55	870.23	812.21	783.20	0.70	40.47	0.25
90353522	LS.VA-40-14-SST-5/8-11X4	1.57	5/8-11	4	0.98	0.24	1.18	0.67	5/8	0.55	870.23	812.21	783.20	0.70	40.47	0.37
90353526	LS.VA-40-14-SST-5/8-11X6	1.57	5/8-11	6	0.98	0.24	1.18	0.67	5/8	0.55	870.23	812.21	783.20	0.70	40.47	0.54
90353542	LS.VA-40-14-SST-5/8-11X8	1.57	5/8-11	8	0.98	0.24	1.18	0.67	5/8	0.55	870.23	812.21	783.20	0.70	40.47	0.59
90354122	LS.VA-50-14-SST-3/8-16X2	1.97	3/8-16	2	1.06	0.24	1.57	0.75	9/16	0.55	870.23	725.19	681.68	1.55	89.92	0.17
90354126	LS.VA-50-14-SST-3/8-16X4	1.97	3/8-16	4	1.06	0.24	1.57	0.75	9/16	0.55	870.23	725.19	681.68	1.55	89.92	0.28
90354128	LS.VA-50-14-SST-3/8-16X6	1.97	3/8-16	6	1.06	0.24	1.57	0.75	9/16	0.55	870.23	725.19	681.68	1.55	89.92	0.18
90354322	LS.VA-50-14-SST-1/2-13X2	1.97	1/2-13	2	1.06	0.24	1.57	0.75	9/16	0.55	870.23	725.19	681.68	1.55	89.92	0.19
90354326	LS.VA-50-14-SST-1/2-13X4	1.97	1/2-13	4	1.06	0.24	1.57	0.75	9/16	0.55	870.23	725.19	681.68	1.55	89.92	0.29
90354332	LS.VA-50-14-SST-1/2-13X6	1.97	1/2-13	6	1.06	0.24	1.57	0.75	9/16	0.55	870.23	725.19	681.68	1.55	89.92	0.28
90354522	LS.VA-50-14-SST-5/8-11X4	1.97	5/8-11	4	1.06	0.24	1.57	0.75	5/8	0.55	870.23	725.19	681.68	1.55	89.92	0.40
90354526	LS.VA-50-14-SST-5/8-11X6	1.97	5/8-11	6	1.06	0.24	1.57	0.75	5/8	0.55	870.23	725.19	681.68	1.55	89.92	0.57
90354542	LS.VA-50-14-SST-5/8-11X8	1.97	5/8-11	8	1.06	0.24	1.57	0.75	5/8	0.55	870.23	725.19	681.68	1.55	89.92	0.62
90355122	LS.VA-60-14-SST-3/8-16X2	2.36	3/8-16	2	1.30	0.20	1.99	0.94	9/16	0.55	725.19	565.65	507.63	2.65	152.87	0.32
90355126	LS.VA-60-14-SST-3/8-16X4	2.36	3/8-16	4	1.30	0.20	1.99	0.94	9/16	0.55	725.19	565.65	507.63	2.65	152.87	0.43
90355128	LS.VA-60-14-SST-3/8-16X6	2.36	3/8-16	6	1.30	0.20	1.99	0.94	9/16	0.55	725.19	565.65	507.63	2.65	152.87	0.33
90355322	LS.VA-60-14-SST-1/2-13X2	2.36	1/2-13	2	1.30	0.20	1.99	0.94	9/16	0.55	725.19	565.65	507.63	2.65	152.87	0.34
90355326	LS.VA-60-14-SST-1/2-13X4	2.36	1/2-13	4	1.30	0.20	1.99	0.94	9/16	0.55	725.19	565.65	507.63	2.65	152.87	0.45
90355332	LS.VA-60-14-SST-1/2-13X6	2.36	1/2-13	6	1.30	0.20	1.99	0.94	9/16	0.55	725.19	565.65	507.63	2.65	152.87	0.43
90355522	LS.VA-60-14-SST-5/8-11X4	2.36	5/8-11	4	1.30	0.20	1.99	0.94	5/8	0.55	725.19	565.65	507.63	2.65	152.87	0.55
90355526	LS.VA-60-14-SST-5/8-11X6	2.36	5/8-11	6	1.30	0.20	1.99	0.94	5/8	0.55	725.19	565.65	507.63	2.65	152.87	0.72
90355542	LS.VA-60-14-SST-5/8-11X8	2.36	5/8-11	8	1.30	0.20	1.99	0.94	5/8	0.55	725.19	565.65	507.63	2.65	152.87	0.77
90355622	LS.VA-60-24-SST-5/8-11X4	2.36	5/8-11	4	1.69	0.20	1.99	0.94	15/16	0.94	725.19	565.65	507.63	2.65	152.87	0.75
90355626	LS.VA-60-24-SST-5/8-11X6	2.36	5/8-11	6	1.69	0.20	1.99	0.94	15/16	0.94	725.19	565.65	507.63	2.65	152.87	0.87
90355722	LS.VA-60-24-SST-5/8-11X8	2.36	5/8-11	8	1.69	0.20	1.99	0.94	15/16	0.94	725.19	565.65	507.63	2.65	152.87	0.93
90355732	LS.VA-60-24-SST-3/4-10X4	2.36	3/4-10	4	1.69	0.20	1.99	0.94	15/16	0.94	725.19	565.65	507.63	2.65	152.87	0.92
90355822	LS.VA-60-24-SST-3/4-10X6	2.36	3/4-10	6	1.69	0.20	1.99	0.94	15/16	0.94	725.19	565.65	507.63	2.65	152.87	1.09
90355826	LS.VA-60-24-SST-3/4-10X8	2.36	3/4-10	8	1.69	0.20	1.99	0.94	15/16	0.94	725.19	565.65	507.63	2.65	152.87	1.37

* See paragraph: *Technical data and guidelines for the choice.*

Models all rights reserved in accordance with the law. Always mention the source when reproducing our drawings and photos.