

Solid Cone Vibration Isolators

Conical rubber-metal vibration isolators with symmetrical radial stiffness through 360°, designed for effective vibration isolation, stability and high dynamic loads.



The **AMC-MECANOCAUCHO® Solid Cone Vibration Isolators** consist of two concentric metal parts bonded by an elastomeric element.

Thanks to their **solid and symmetrical conical geometry**, they provide **the same radial stiffness in all directions through 360°**. This characteristic ensures consistent behavior regardless of the direction of radial forces and makes them particularly suitable for applications subjected to **multidirectional dynamic loads**.

The elastomer works in **compression and shear**, providing an effective combination of **vibration isolation, stability and motion control** under both static and dynamic loads.

The vibration isolators are fitted with **two metal washers**, one acting as a **fail-safe rebound stop** and the other providing **centering of the isolator**, ensuring a robust and reliable installation.

Thanks to their compact and robust design, Solid Cone Vibration Isolators are particularly suitable for **engines, generator sets, auxiliary machinery, industrial vehicles and mobile machinery**.

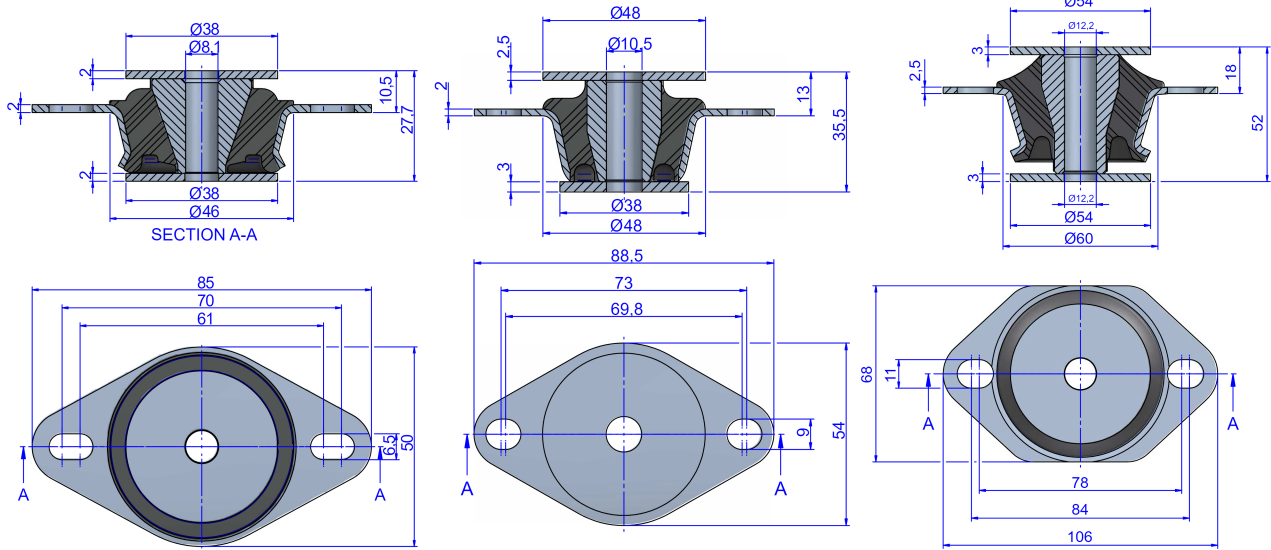
Drawings

1 / 2 / 11

01

02

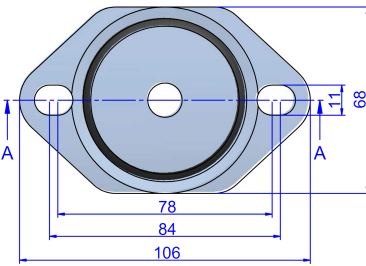
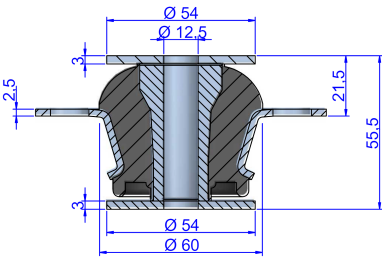
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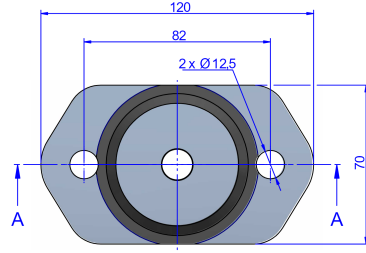
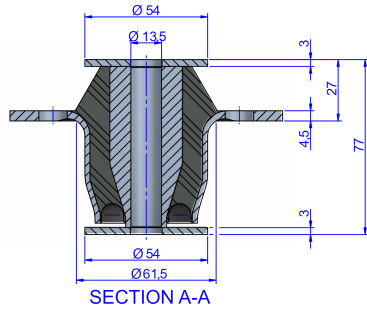
Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
1	0.81	0.28	137005	88	45 Sh
			137006	154	60 Sh
			137015	231	70 Sh
2	2.8	0.29	137010	110	45 Sh
			137011	198	60 Sh
11	2.8	1	137021	220	45 Sh
			137022	397	60 Sh
			137023	595	70 Sh

13 / 14 - 2 holes / 14 - 4 holes

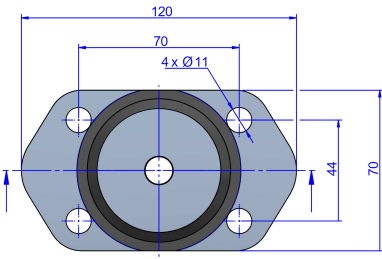
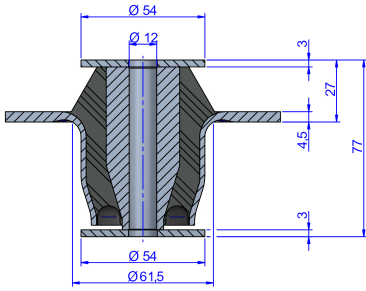
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14-2



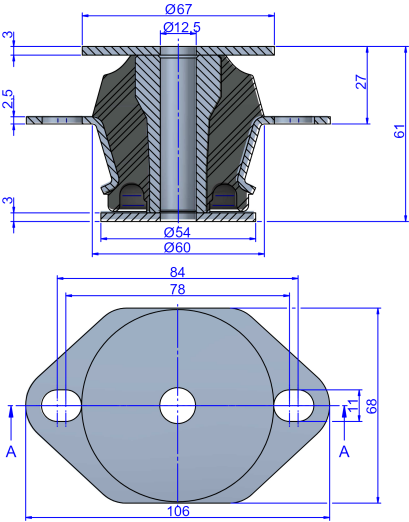
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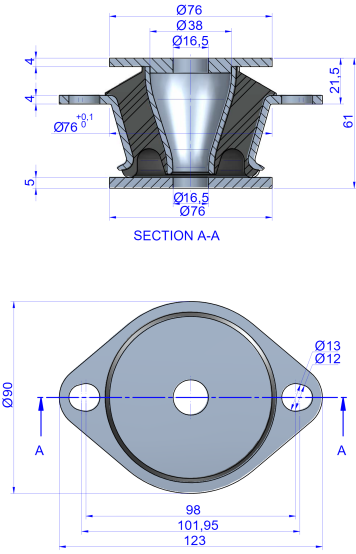
Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
13	2.8	1	137921	264	45 Sh
			137922	375	55 Sh
			137925	595	70 Sh
14 - 2 holes	2.8	1	137930	551	45 Sh
			137628	1102	65 Sh
14 - 4 holes	2.8	1	137935	551	45 Sh
			137936	992	1
			137937	1521	70 Sh

17 / 21 - 2 holes / 21 - 4 holes

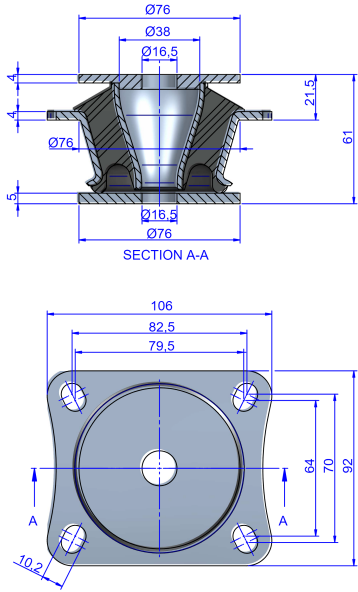
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21-2



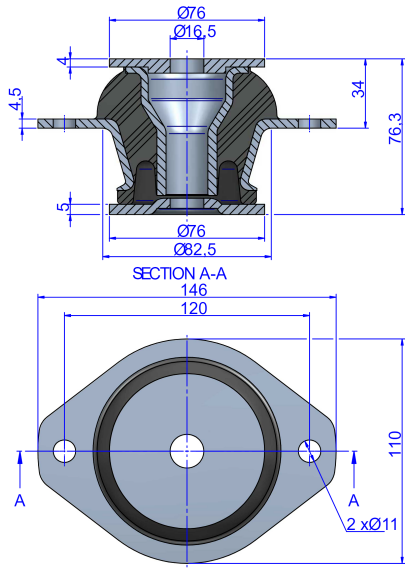
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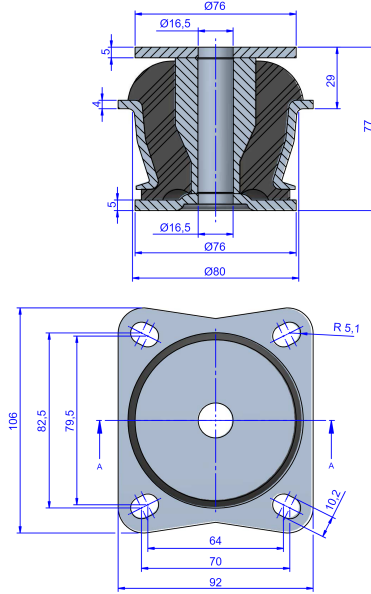
Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
17	2.8	1	137903	353	45 Sh
			137904	551	60 Sh
			137905	771	70 Sh
21 - 2 holes	4.45	2	137470	397	45 Sh
			137472	661	60 Sh
			137474	1102	70 Sh
21 - 4 holes	4.45	1	137071	397	45 Sh
			137074	661	60 Sh
			137079	1102	70 Sh

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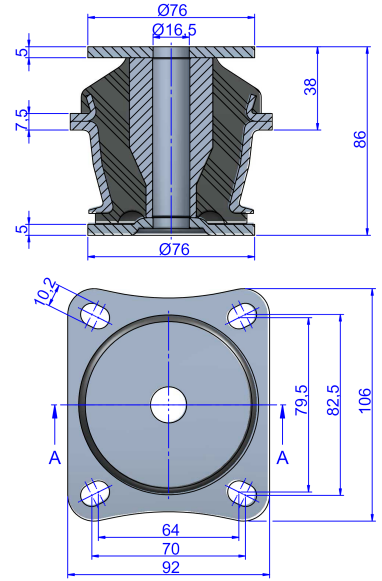
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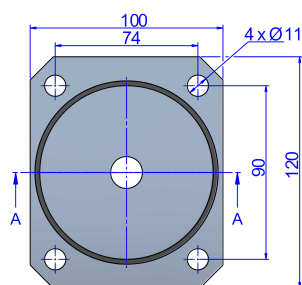
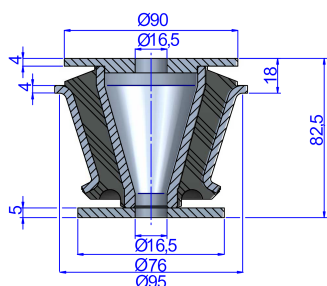
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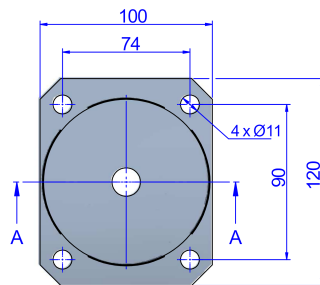
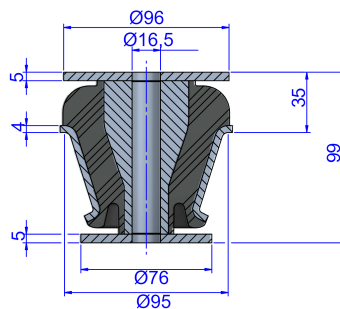
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27	6.69	3	137142	540	40 Sh
			137143	771	50 Sh
			137144	1102	60 Sh
31	6.69	3	137063	683	50 Sh
			137061	1102	60 Sh
			137062	1653	70 Sh
33	6.69	3	137075	661	45 Sh
			137077	1322	60 Sh
			137078	1984	70 Sh

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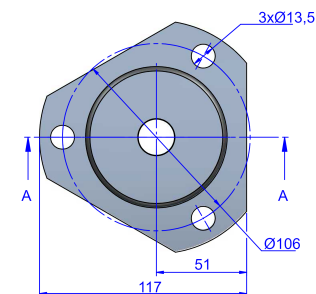
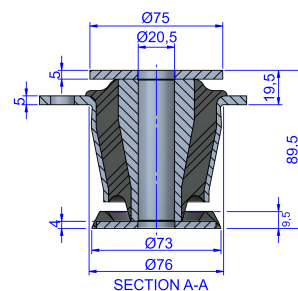
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39



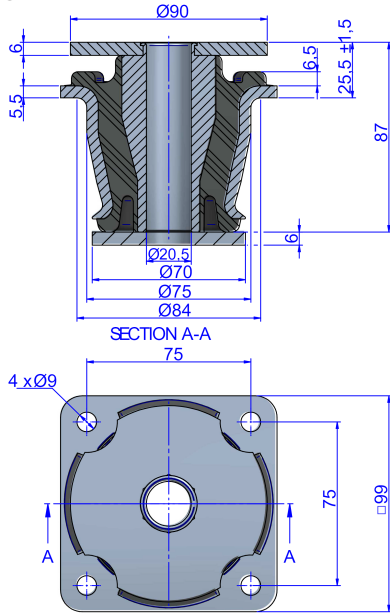
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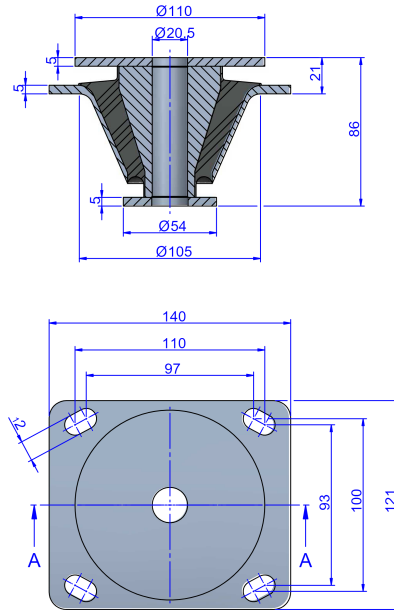
Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
36	6.69	3	137171	882	45 Sh
			137172	1543	60 Sh
			137173	2424	70 Sh
39	6.69	3	137981	882	40 Sh
			137982	1322	50 Sh
			137983	1984	60 Sh
			137984	2424	70 Sh
40	9.65	3	137081	926	45 Sh
			137082	1521	60 Sh
			137083	2380	70 Sh

45 / 60 / 62

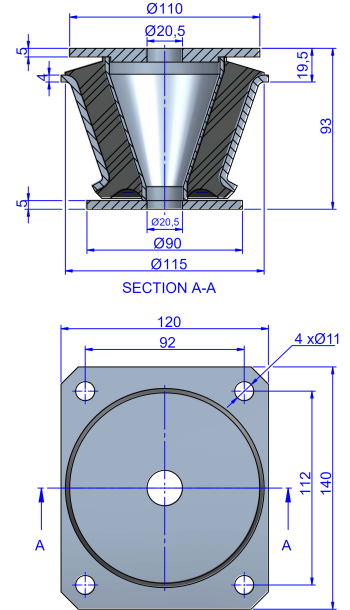
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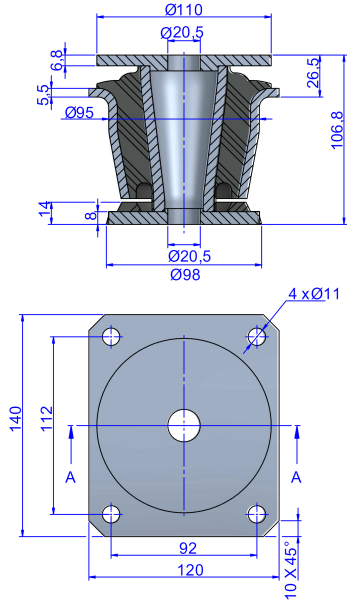
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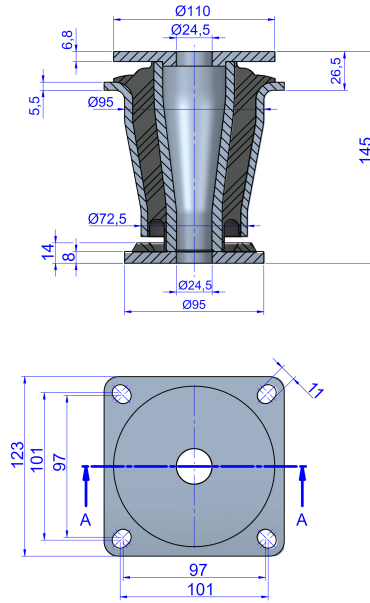
Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
45	9.65	4	137595	926	45 Sh
			137596	1543	60 Sh
			137597	2424	70 Sh
60	13.78	4	137091	1984	45 Sh
			137092	2755	60 Sh
			137093	3438	70 Sh
62	6.69	4	137208	992	45 Sh
			137226	2204	60 Sh
			137232	3086	70 Sh

65 / 70 / 68

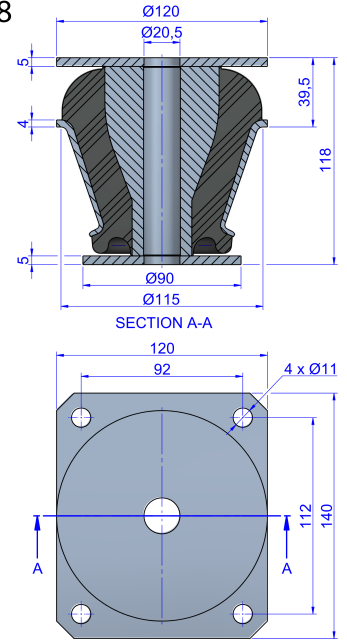
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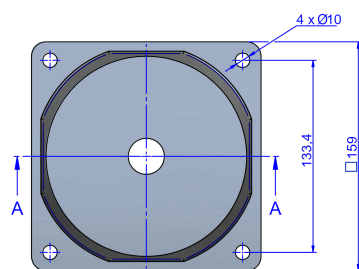
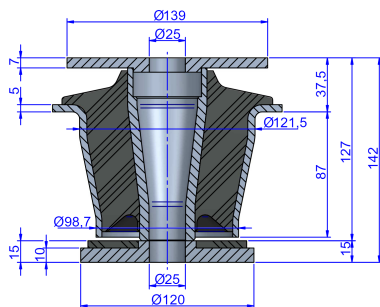
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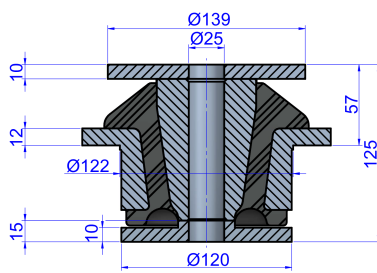
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65	13.78	7	137176	1102	50 Sh
			137177	2424	65 Sh
			137178	3438	75 Sh
70	23.62	8	137101	2204	45 Sh
			137102	4628	60 Sh
			137103	5510	70 Sh
68	13.78	7	137738	1653	40 Sh
			137739	2865	50 Sh
			137740	3747	60 Sh
			137741	4849	70 Sh

75 / 121 NG / 121 NP

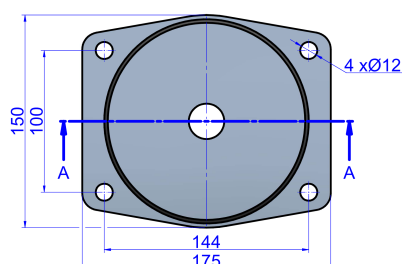
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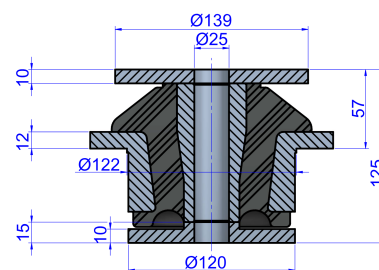
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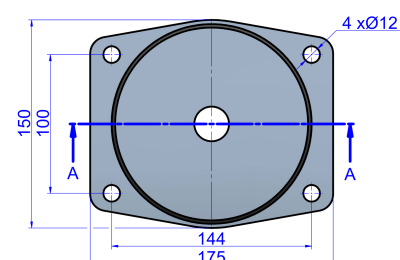
SECTION A-A



121 NP



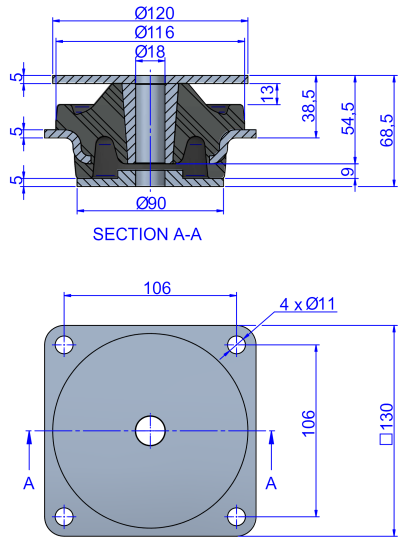
SECTION A-A



Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
75	23.62	9	137786	1873	45 Sh
			137787	3526	60 Sh
121 NG	23.62	17	137830	3857	55 Sh
			137833	4408	65 Sh
121 NP	23.62	15	137841	1609	45 Sh
			137829	2645	55 Sh

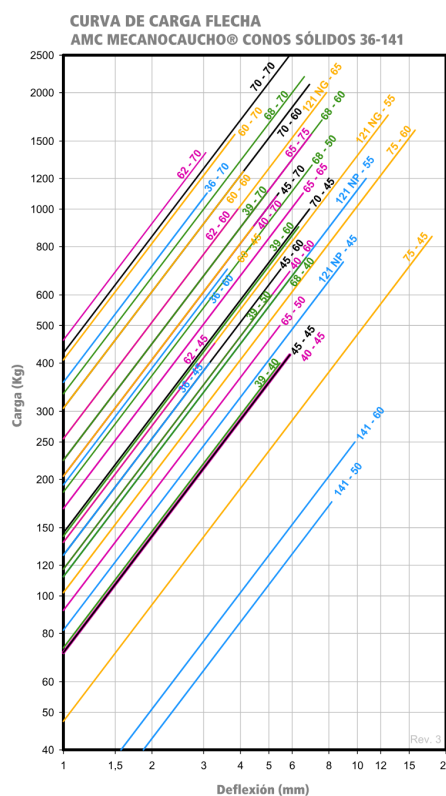
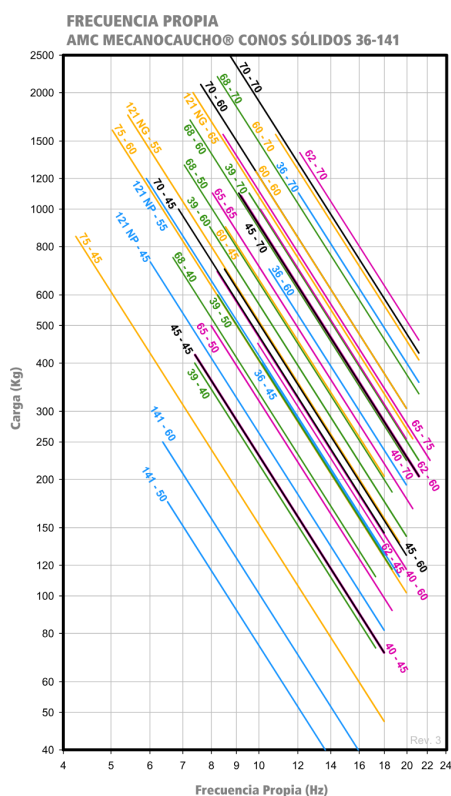
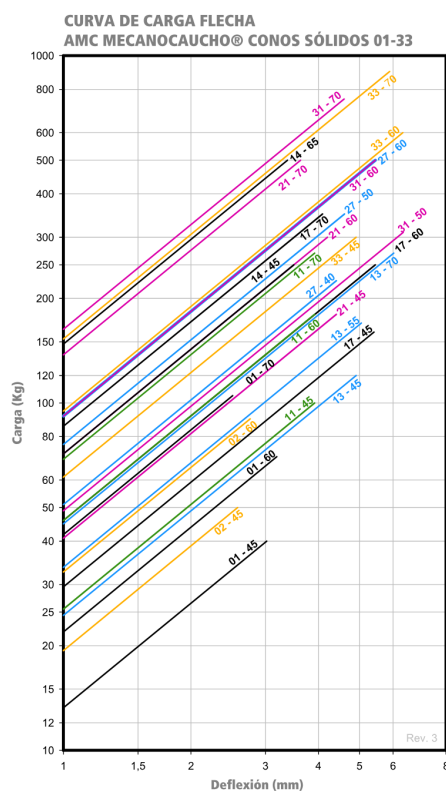
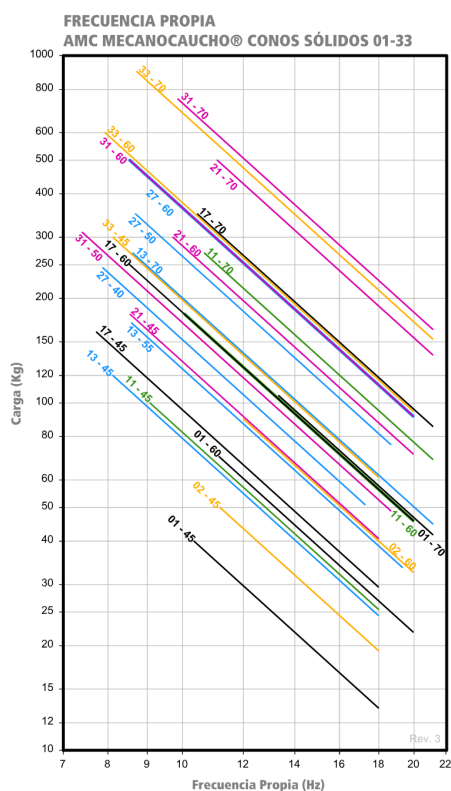
141

141



Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
141	9.65	2	137891	386	50 Sh
			137893	551	60 Sh

Elastic properties



Technical characteristics

The AMC-Mecanocaucho® Cone mounts are safe and stable elements. They do not allow the suspended elements to tilt, while being flexible enough to avoid the transmission of noise and vibration through the structure.

They are supplied with stop and centering washers. This renders deflection above the limits of the Mecanocaucho® Cones impossible, even at extreme loads.

The washers protect the natural rubber (which is highly elastic and highly resistant) from ozone and aging, as well as from metal knocks and dripping oil. The characteristic deflection curves of the AMC-Mecanocaucho® Cone mounts with centering washer are quite linear, increasing progressively as the load increases. Thanks to this they can safely dampen overloads of up to three times the maximum admissible load.

