SPS Vibration Isolators

Vibration isolators designed for shock absorption and vibration control in equipment suspensions.



The **AMC-MECANOCAUCHO® SPS vibration isolators** are specifically designed for applications requiring **high shock absorption capacity combined with effective vibration control**.

Their design combines a **cylindrical outer housing with a conical inner metal insert**, with **two elastomer elements** positioned between them. This configuration helps control motion and **progressively dissipate the energy generated by shocks and dynamic loads**.

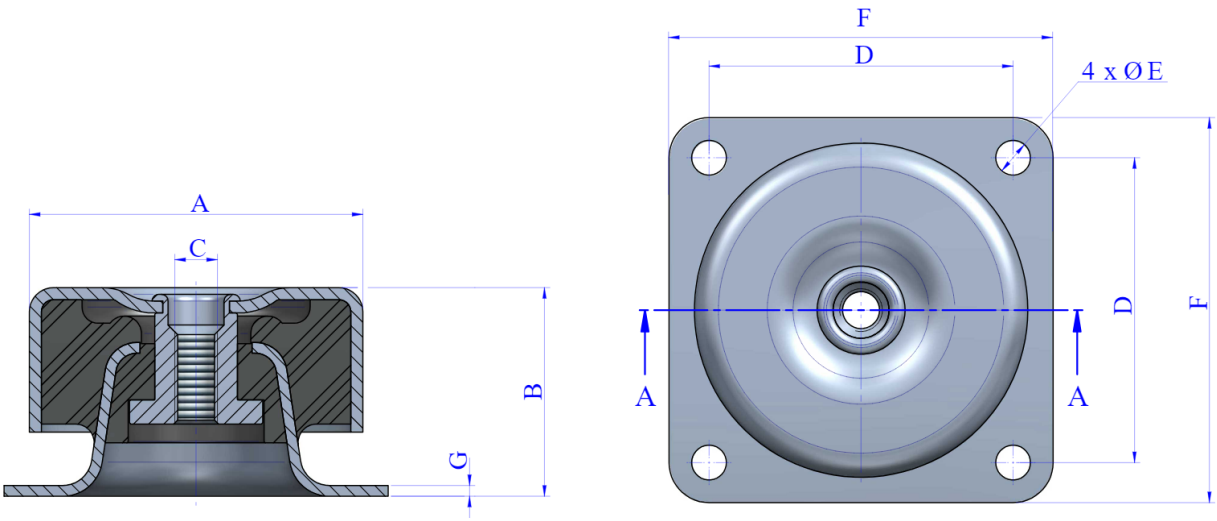
Thanks to their geometry and damping capacity, SPS vibration isolators are particularly suitable for **mobile equipment, on-board machinery, and systems subjected to shocks, impacts, or transient motion**, where mechanical protection of the equipment is as important as vibration reduction.

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Drawings

SPS 020 / SPS 120 / SPS 220 / SPS 420

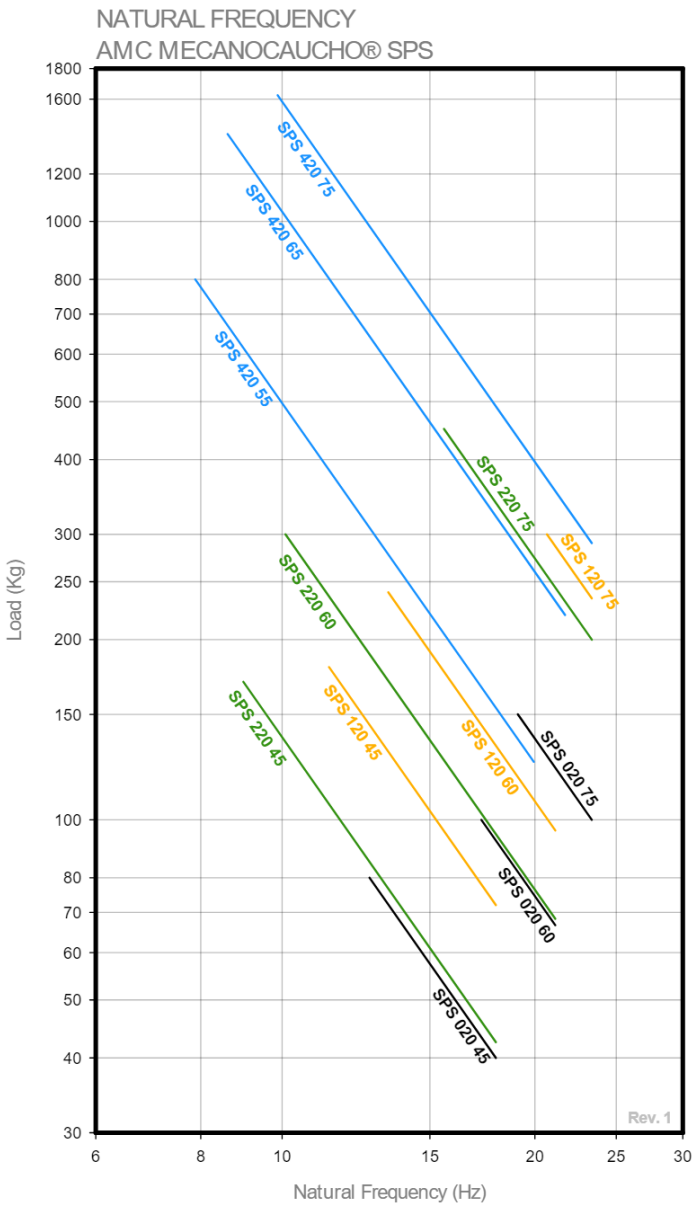


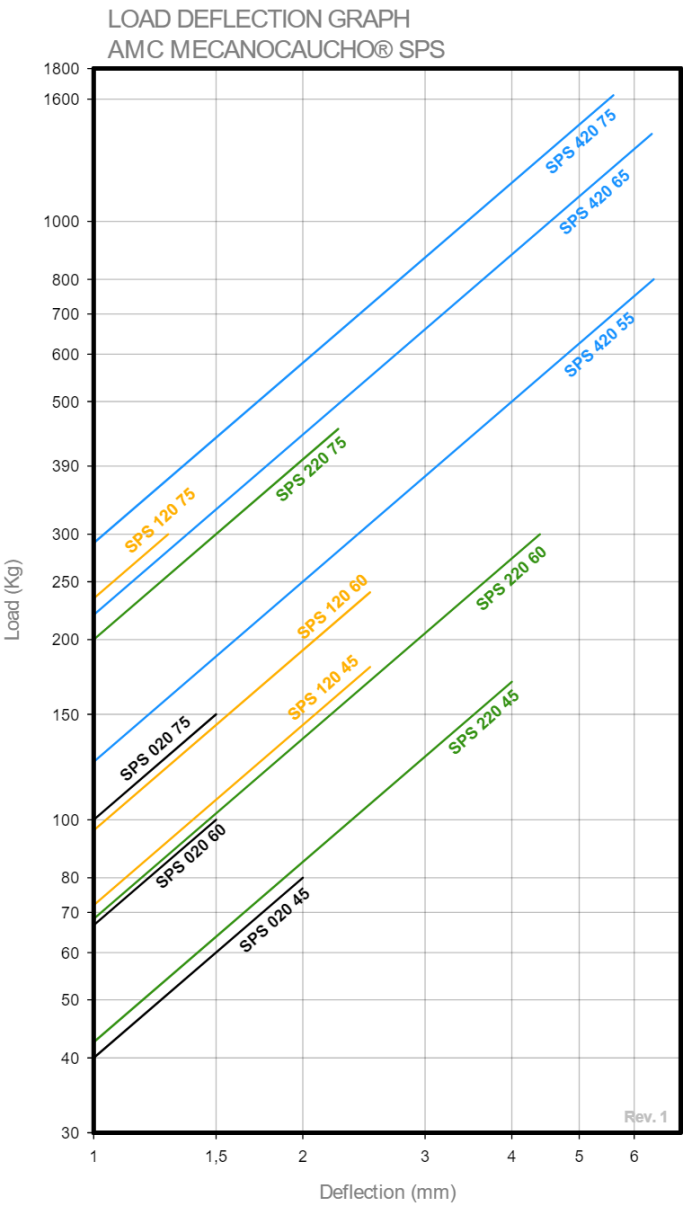
Type	A(in)	B(in)	C(in)	D(in)	E(in)	F(in)	G(in)	Weight(lbs)	Code	Max. Load(lbs)	Shore
SPS 020	1.97	1.1	M-8	1.97	0.24	2.36	0.06	0.38	140001	176	45 Sh
									140003	220	60 Sh
									140005	331	75 Sh
SPS 120	2.99	1.54	M-10	2.5	0.26	2.99	0.12	1	140002	397	45 Sh
									140004	529	60 Sh
									140006	661	75 Sh
SPS 220	3.54	2.01	M-12	3.54	0.43	4.49	0.12	2	140007	375	45 Sh
									140008	661	60 Sh
									140009	992	75 Sh
SPS 420	4.92	3.07	M-16	4.49	0.51	5.67	0.16	5	140031	-	45 Sh
									140034	1763	55 Sh
									140035	3086	65 Sh
									140033	3582	75 Sh

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Elastic properties





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Technical characteristics

Due to their design , SPS mounts can work with compression and tensile loads , isolating effectively by using the friction of the rubber sections with the inner surfaces of the assembled metal parts. It is most effective in applications where high frequency vibrations are predominant. Various rubber compounds are available for assembly depending upon the applications being considered, ie , high temperatures, oil and diesel resistance, ageing resistance against Ozone attack for example .

Advantages

Easy installation

This mount requires no major modifications to the structure for installation.

Mount offering high stability

Suspensions built with this mount barely move, thanks to a geometry designed to control the movement of the suspended element.

High protection against weathering and chemical contamination

The bell housing protects the rubber from ozone and UV radiation, while also preventing contact with diesel, oils, or other chemicals that could damage it.

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