

HYDRAULIC CONES

DESCRIPTION

The AMC-MECANOCAUCHO® hydrocone is a combination of a spring component and a hydraulic shock absorber in the shape of a cone. With this both components can be tuned to each other.

For good vibration insulation you need a low dampening coefficient but for movement control you need a high dampening coefficient.

The AMC MECANOCAUCHO hydrocone combines these two completely different requirements in one single bearing.

This gives you the opportunity to adapt the dynamic properties of the insulator to the individual requirements of the application.

Our vibration dampeners do this by the hydraulic fluid flowing from one chamber to the next as a result of the movement of the rubber component. An energetic dissipation results from this process.

TECHNICAL CHARACTERISTICS

- AMC-MECANO-CAUCHO® hydraulic shock absorbers have an advanced breakaway device inside the bearing that prevents tensile forces on the elastomer by limiting its upward vibration stroke. The newly-developed internal structure of the vibration dampener consists of a metal part system. The elastomer is vulcanised to the whole of this. This prevents a loss of hydraulic fluid should the vibration dampener be subject to great dynamic overloads.
- The thickness of the metal parts ensures that the dampener is strong enough for mobile applications. The metal parts are treated with a resistant corrosion protection for outdoor use.

APPLICATIONS

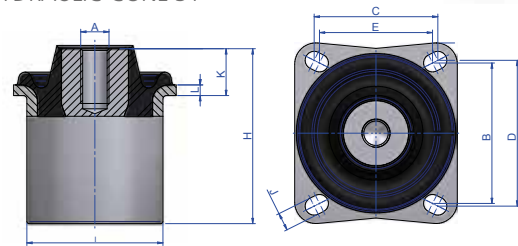
The AMC MECANOCAUCHO® hydrocone is predominantly designed to insulate the vibration in engines and cabs in off-road vehicles (construction, agricultural and local authority vehicles).

The hydrocone has the necessary resilience to achieve a high level of decoupling. However, it also has the necessary stability for these applications in the event of impacts which thus prevents the vehicles from rocking. This ensures a high level of comfort as well as an immediate working and driving experience.

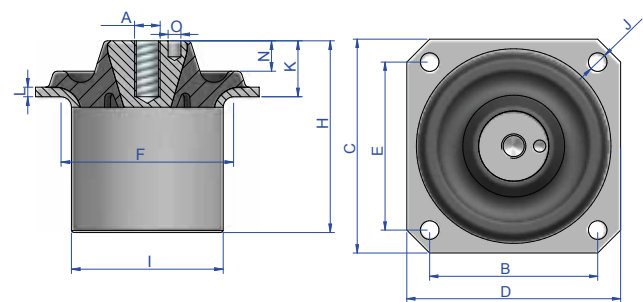
Another advantage becomes apparent with variable speed applications which are within the resonance frequency range in normal operation. This resonance is significantly reduced with the hydrocone.



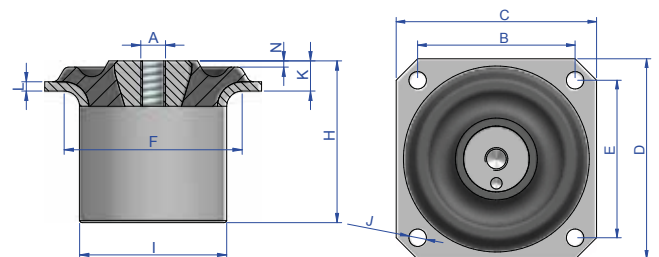
HYDRAULIC CONE 31



HYDRAULIC CONE 71



HYDRAULIC CONE 70



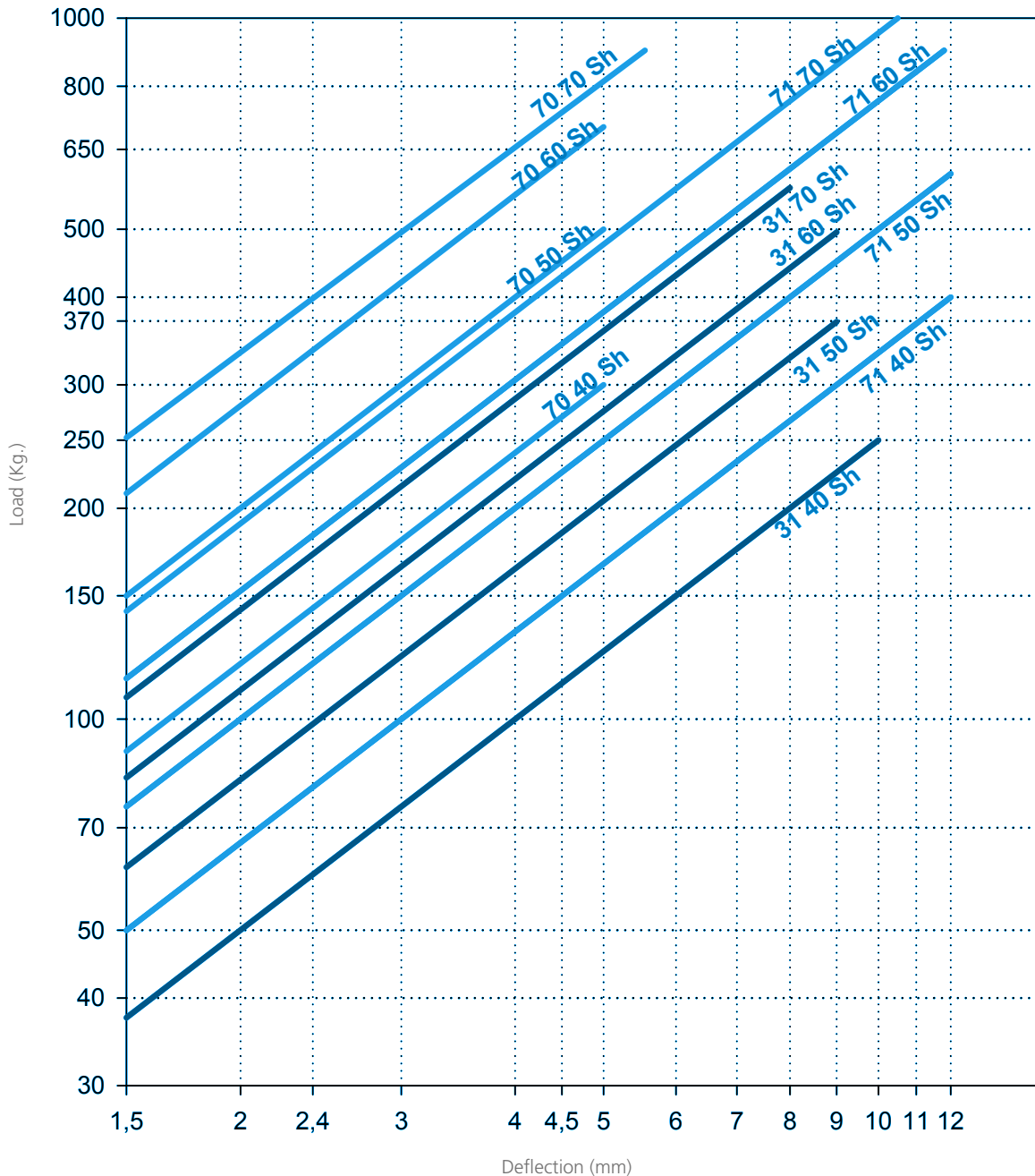
Washers should be used, if the rubber surface is not covered with the contact surface.
 Washers upon request by E-Catalog.

Type	A	B (mm.)	C (mm.)	D (mm.)	E (mm.)	F (mm.)	H (mm.)	I (mm.)	J (mm.)	K (mm.)	L (mm.)	N (mm.)	O (mm.)	Code	Load (Kg.)	Shore
HYDRAULIC CONE MOUNTS 31	M16	79,5	70	82,5	64	81	72,5	77	10,2	25	6	-	-	177081	250	40 Sh
														177085	310	45 Sh
														177082	370	50 Sh
														177083	500	60 Sh
														177084	550	70 Sh
HYDRAULIC CONE MOUNTS 70	M16	110	140	140	110	108	104,5	95	12,2	19,5	6	4	-	177051	300	40 Sh
														177052	500	50 Sh
														177053	700	60 Sh
														177054	900	70 Sh
														177055	400	40 Sh
HYDRAULIC CONE MOUNTS 71	M16	110	140	140	110	108	120	95	12,2	35	6	19	8	177056	600	50 Sh
														177057	900	60 Sh
														177058	1000	70 Sh

Type	Code	Øext (mm.)	Øint (mm.)	THICKNESS (mm.)
WASHER HYDRAULIC CONE MOUNTS 31	606488	80	16,5	5
WASHER HYDRAULIC CONE MOUNTS 70	611167	110	16,5	5
WASHER HYDRAULIC CONE MOUNTS 71	611167	110	16,5	5

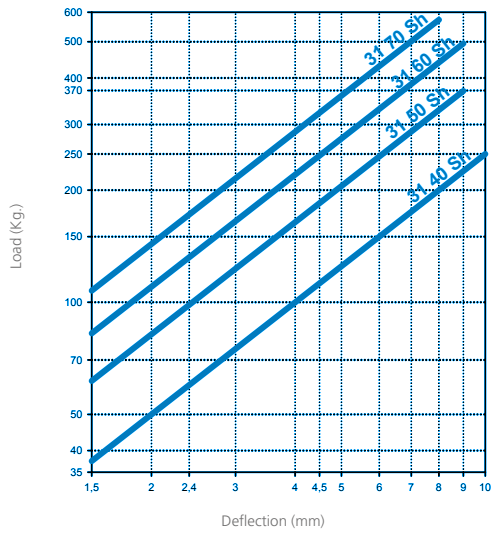


LOAD DEFLECTION GRAPH
 AMC MECANOCAUCHO® HYDRAULIC CONES



LOAD DEFLECTION

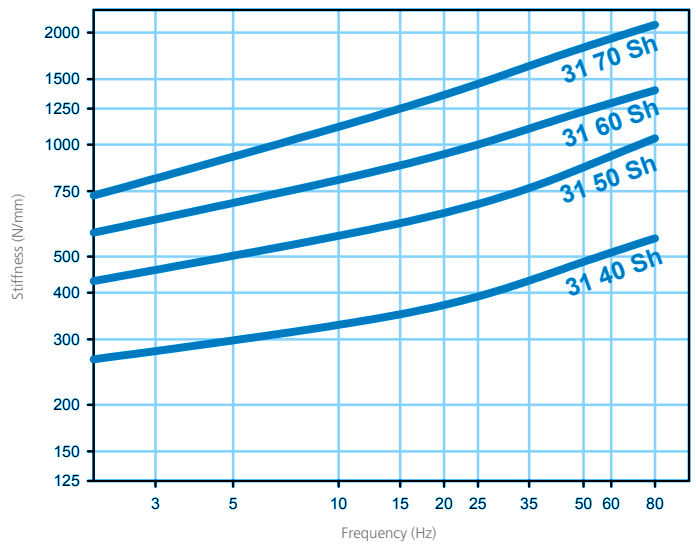
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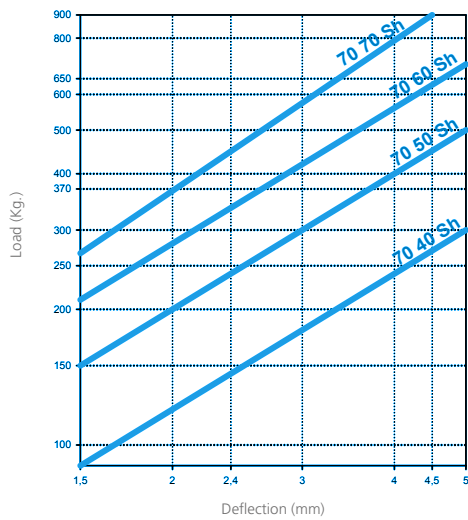
HYDRAULIC CONES 31

DYNAMIC STIFFNESS

DYNAMIC BEHAVIOUR
 AMC MECANOCAUCHO® HYDRAULIC CONE 31

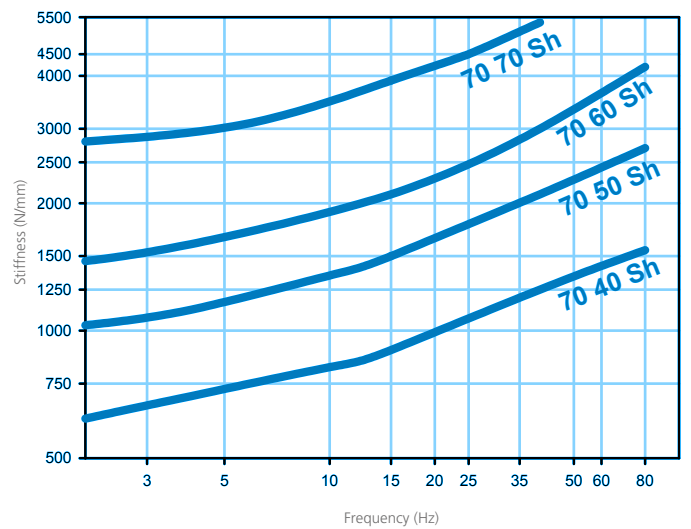


LOAD DEFLECTION
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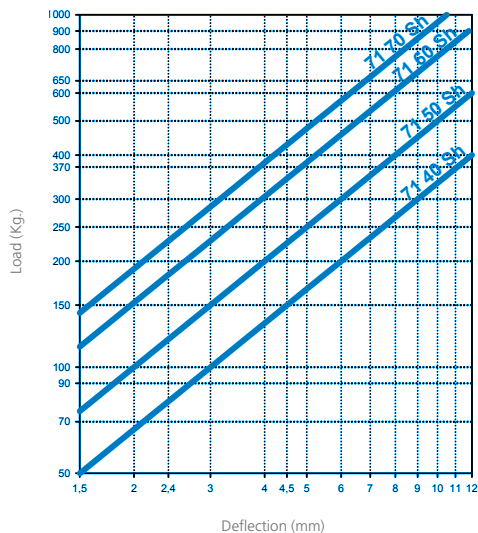


HYDRAULIC CONES 70

DYNAMIC BEHAVIOUR
 AMC MECANOCAUCHO® HYDRAULIC CONE 70

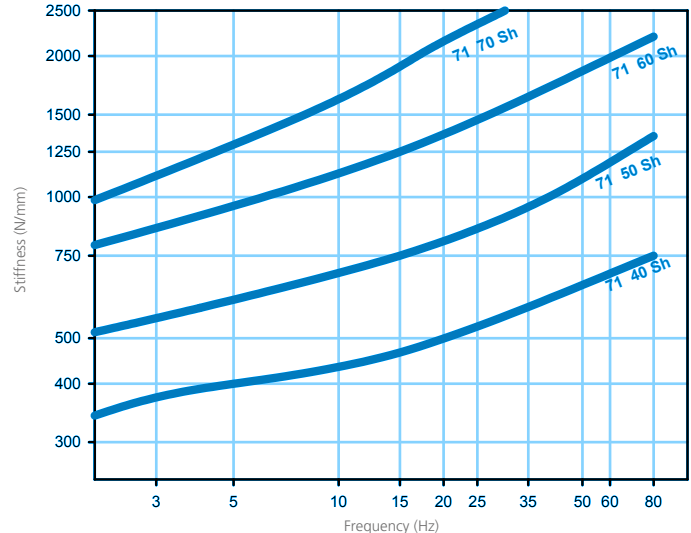


LOAD DEFLECTION
 AMC MECANOCAUCHO® HYDRAULIC CONE 71



HYDRAULIC CONES 71

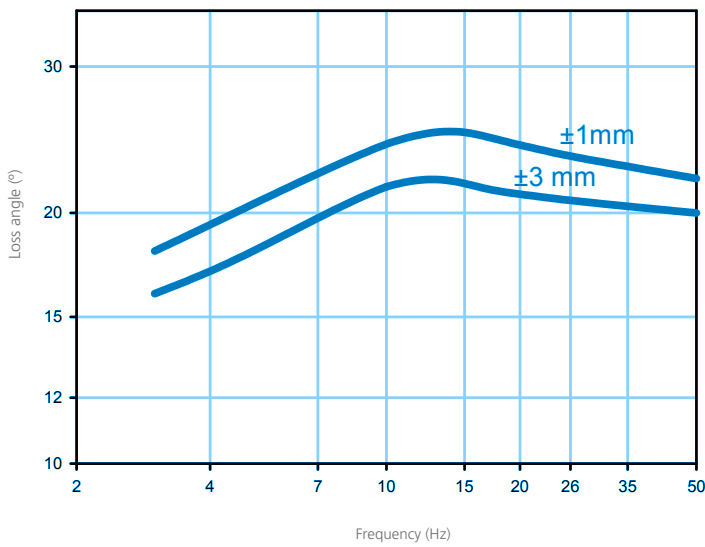
DYNAMIC BEHAVIOUR
 AMC MECANOCAUCHO® HYDRAULIC CONE 71



DAMPING COEFFICIENT

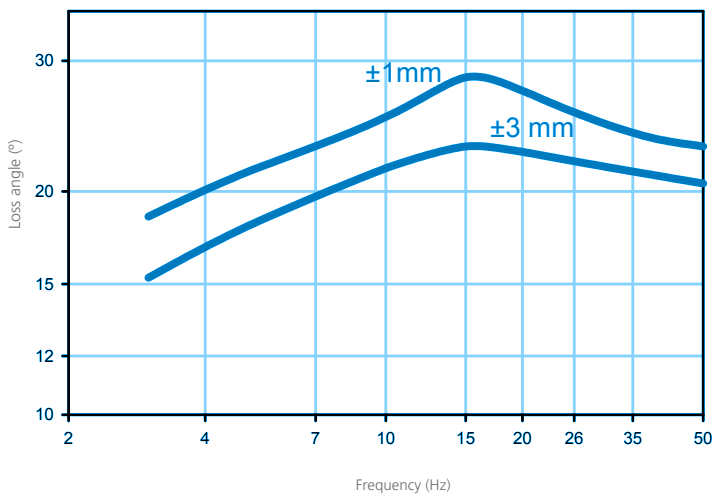
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