

gmt

GMT
BENELUX BV
VIBRATION CONTROL

product catalogue | vibration dampers



CONTENT

Categories

- General information
- Machine mounts
- Rail elements
- Cylindrical dampers
- Miscellaneous dampers

Product	Page	Product	Page
■ Test reports	6	■ Cylindrical dampers type A/B/C	62
■ Selecting the most suitable damper	8	■ Cylindrical dampers type D/E	68
■ Rubber quality table	10	■ Cylindrical dampers type SF	74
■ Standard machine mounts	12	■ Cylindrical dampers type A/F	76
■ Standard machine mounts fail safe	17	■ Conical dampers type K/D	77
■ Standard machine mounts DNV certified fail safe	21	■ Conical dampers type K/E	79
■ Machine mounts Triflex DNV certified fail safe	27	■ Parabolic dampers type KP/D	80
■ Combi mounts Triflex	31	■ Parabolic dampers type KP/E	81
■ Sandwich elements	32	■ Crane / stop buffers	82
■ Machine mounts IS fail safe	33	■ U-mounts	84
■ Machine mounts HD High Deflection fail safe	37	■ Dual Compression mountss type PH	85
■ P-Bearings	43	■ Conical dampers	86
■ Machine mounts EST high elastic	45	■ Hanging elements	93
■ Height adjustable machine mounts GMT	46	■ Isolators	94
■ Height adjustable machine mounts NM	48	■ Hat elements	95
■ Height adjustable machine mounts PM	50	■ Damping plates	96
■ Vibration damping rail elements	51	■ Bellows	97
■ Vibration damping rail elements type A	52	■ V- and W-elements	98
■ Vibration damping rail elements type All	56	■ Round feet	99
■ Vibration damping rail elements type F	58		

GMT Benelux BV offers solutions for vibration control. We enhance comfort in work and life for people exposed to vibrations. By applying our solutions, production processes become more stable and wear is reduced. We add directly to the competitive advantage and sustainability of our customers. GMT is known for its three foundations: customer specific solutions, industry and application specific solutions and high quality standard solutions.

Customer specific solutions

GMT Benelux BV offers solutions for vibration control. We enhance comfort in work and life for people exposed to vibrations. By applying our solutions, production processes become more stable and wear is reduced. We add directly to the competitive advantage and sustainability of our customers. GMT is known for its three foundations: customer specific solutions, industry and application specific solutions and high quality standard solutions.

Industry specific solutions

For many years GMT Benelux BV delivers industry specific and application specific solutions for vibration challenges. We offer a wide range of products for:

- Machine builders;
- Rail vehicles;
- High tech industry;
- Offshore & marine;
- Aircraft industry;
- Defence and vehicle industry.

Many products are developed in close cooperation with the OEM or are approved by the OEM partner. As an example we deliver solutions for Siemens rail vehicles, Airbus airplanes, and Leopard combat tanks. GMT Benelux BV can make use of the expertise, production and development of the German GMT Gummi-Metall-Technik GmbH.

Standard solutions

GMT Benelux BV delivers a wide range of high quality standard products. The standard products are used in many applications like machine building. We offer vibration dampers in the most common sizes and quality. For applications in a humid environment we can also deliver a wide range of stainless steel products. Our standard products are delivered through technical trade companies (resellers) and via our own sales department directly to end-users. For most of the products we are able to deliver from local stock. We also offer logistical services such as delivery on demand, specific packing and assembly.



Support with vibration issues

Vibration issues can be found almost anywhere. Vibration can have a negative influence on living and working conditions. Sometimes it is annoying if for example a compressor is vibrating. But vibrations can also lead to unworkable conditions. Sources of vibrations can be found in difficult accessible areas such as ships, oilrigs, and remote industrial areas of buildings. GMT Benelux BV is able to analyze the unwanted situation and work with you towards a practical solution. We will follow a 4 step approach.

Your vibration control issue

At GMT Benelux BV we will apply all our knowledge, skills, experience, and products to control vibrations.

Some recent examples are:

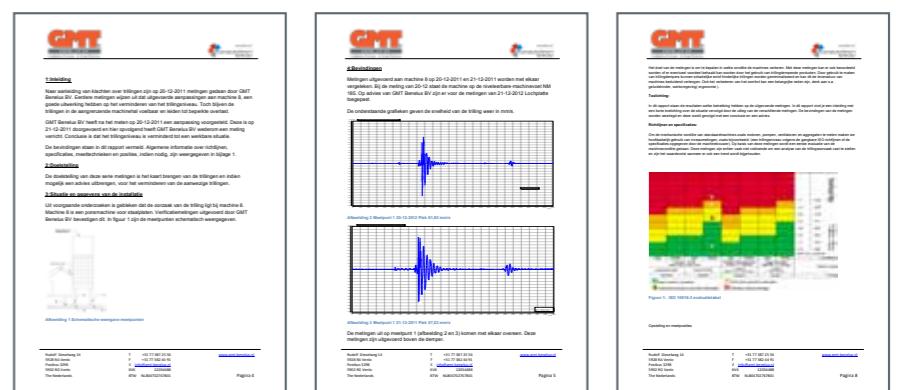
- Low frequency inconvenience produced by HVAC units in office building
- Unworkable situations due to reverberating hammer mills.
- High maintenance costs due to production stops and wear.

If you have a vibration issue please do not hesitate to contact one of the experts at GMT.

	What will we do?	What can you expect?
① Analyze vibration issue	We make an inventarisation of the application and environment. We will, amongst others, look at weight, frequencies and fulcrums.	Simple report with added calculations and if possible direct solution to the issue.
② Measurements on location	GMT Benelux will send a Certified Vibration Analyst to execute measurements on location.	Vibration measurements are executed by well trained experts using stat-of-the-art hardware and software.
③ Analysis, reporting and consultation	The measurement results are analysed, reported and conclusions and recommendation are added.	Extended report* with immediate insight if issues are caused by insufficient isolation. Recommendation about most suitable solution.
④ Working towards a new solution	If there is no standard solution to the issue we can work with you towards new possibilities.	In rare occasion we need to look for new rubber compounds or designs. In such case you will find a project proposal.*

* On request an example report can be forwarded.
* Please see our application leaflet about high-end mechatronics.

Example reports



Applications

Selecting the most suitable damper.

Selecting the most suitable damper is complex. Many factors from application and environment need to be taken into account.

At GMT Benelux BV we are experts in selecting the most suitable of the best (standard) damper. If there is no standard damper available we are able to design and manufacture a solution on project basis.

Below table is created to support the selection of the most suitable damper. Please contact the experts at GMT Benelux BV for final selection or support.

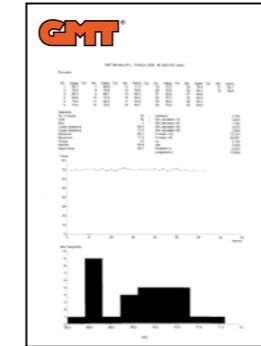
Application / machine type	1 st choice	2 nd choice
Combustion engines, compressors, aggregates	<ul style="list-style-type: none"> ■ Standard machine mounts ■ Fail safe machine mounts 	<ul style="list-style-type: none"> ■ P-layers ■ Cylindrical dampers ■ Conical dampers ■ U-mounts
Electric engines	<ul style="list-style-type: none"> ■ Standard machine mounts ■ Fail safe machine mounts 	<ul style="list-style-type: none"> ■ Conical dampers ■ Rail ■ U-mounts ■ Isolators
Equipment on moving objects (e.g. rolling, sailing)	<ul style="list-style-type: none"> ■ Fail safe machine mounts (offshore & marine DNV certified) 	<ul style="list-style-type: none"> ■ Conical dampers ■ Dual compression mounts
Punching machine, die cutters, presses	<ul style="list-style-type: none"> ■ Height adjustable machine mounts 	<ul style="list-style-type: none"> ■ Rail ■ Damping plates
Light punching machines, wood working equipment, offset equipment	<ul style="list-style-type: none"> ■ Height adjustable machine mounts 	<ul style="list-style-type: none"> ■ Rail ■ Damping plates
Turning and milling equipment	<ul style="list-style-type: none"> ■ Height adjustable machine mounts 	<ul style="list-style-type: none"> ■ Damping plates
Mixers, crunchers, rollers	<ul style="list-style-type: none"> ■ Rail 	<ul style="list-style-type: none"> ■ Machinefeet ■ U-mounts ■ Dual compression mounts
Fans, rotor pumps	<ul style="list-style-type: none"> ■ High elastic machine mounts ■ Isolator 	<ul style="list-style-type: none"> ■ Machinefeet ■ Cylindrical dampers ■ U-mounts
Pipelines, hanging hvac parts	<ul style="list-style-type: none"> ■ Hanging elements 	<ul style="list-style-type: none"> ■ Taille damper
Home, office equipment	<ul style="list-style-type: none"> ■ Damping plate 	<ul style="list-style-type: none"> ■ Cylindrical damper ■ Stop buffer
Sensitive equipment	<ul style="list-style-type: none"> ■ Ring damper 	<ul style="list-style-type: none"> ■ High elastic machine mounts ■ Isolators
Shock absorption	<ul style="list-style-type: none"> ■ Crane / stop buffers 	<ul style="list-style-type: none"> ■ Cylindrical dampers

Test reports

When selecting the most suitable damper it is important to determine product requirements like stiffness, degree of isolation, and degree of damping. GMT Benelux BV offers you services to determine the correct requirements.

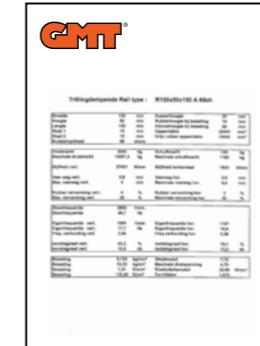
Measurement report rubber shore hardness

Using the Bareiss-HHP2001 the rubber shore hardness is determined.



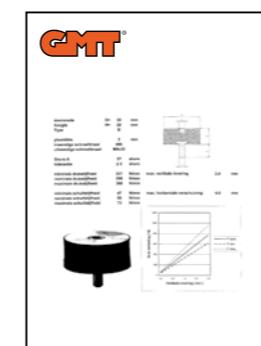
Specification sheet calculations

Calculations of tensile load, shear load, deflection, and degree of isolation.



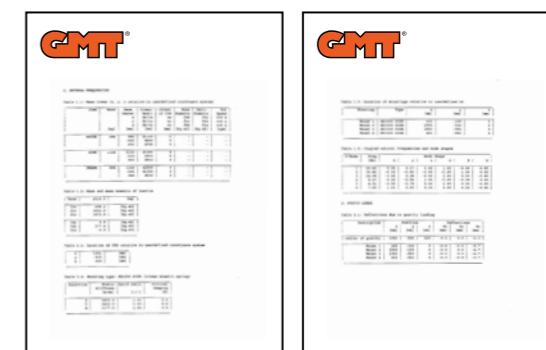
Specification sheet vibration damper

Full overview of technical properties.



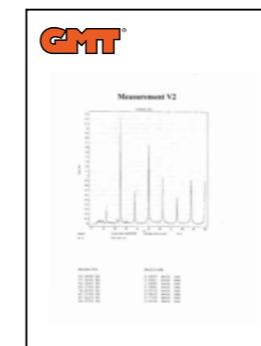
6DOF-/6 degree of freedom calculations

Calculation method to determine 6 degrees of isolation and damping, and maximum G-value.



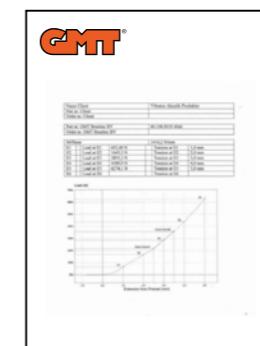
On location vibration measurements

Using the VibXpert Plus type 5.310 vibrations can be measured at almost all locations.



Load, deflection, stiffness curve

Using the Lloyd's LR30K testing bench we determine the actual values of products.



Determination of the most suitable damper

Please find below a calculation example to determine the requirements for the most suitable damper. Please let us know if we can support you?

Calculation example

Technical specifications:

Total weight : 1200 kg.
Number of fulcrums : 6.
Frequency : 1440 min-1 = 24Hz
Desired degree of isolation: 80%.

Calculation:

- $\frac{1200 \text{ kg}}{6} = 200 \text{ kg} (\times 9,81) = 1962 \text{ N}$ per fulcrum.
- Frequency ratio for desired degree of isolation of 80% = 2,5 (see table 1)
- Eigenfrequency vibration damper = $\frac{\text{frequency}}{\text{frequency ratio}}$
- Eigenfrequency = $\frac{1440 \text{ kg}}{2,5} = 576 \text{ min}^{-1} = 9,6 \text{ Hz}$
- Required deflection = 2,7 mm (see table 2).

Selecting the damper:

- Select a vibration damper with a deflection of 2,7mm at a load of 1962N using the graphs.
- Select a vibration damper with a static stiffness (C) of $\frac{1962\text{N}}{2,7\text{mm}} = 727 \text{ N/mm}$ using the table.

Never exceed the maximum deflection of the vibration damper!

Table 1

Degree of isolation (%)	Frequency ratio
0	1,41
20,0	1,5
35,9	1,6
47,1	1,7
55,4	1,8
61,7	1,9
66,7	2
74,0	2,2
79,0	2,4
82,6	2,6
85,4	2,8
87,5	3
89,2	3,2
90,5	3,4
91,6	3,6
92,6	3,8
93,3	4
94,0	4,2
94,6	4,4
95,0	4,6
95,5	4,8
95,8	5
96,2	5,2
96,4	5,4
96,7	5,6
96,9	5,8
97,1	6
97,3	6,2
97,5	6,4
97,7	6,6
97,8	6,8
97,9	7
98,0	7,2
98,1	7,4
98,2	7,6
98,3	7,8
98,4	8
98,5	8,2
98,6	8,4
98,6	8,6
98,7	8,8
98,8	9
98,8	9,2
98,9	9,4
98,9	9,6
98,9	9,8
99,0	10

Table 2

Eigenfrequency Hz	Deflection min-1	Deflection (mm)
		0,1
49,9	2991	0,1
35,3	2115	0,2
28,8	1727	0,3
24,9	1495	0,4
22,3	1338	0,5
20,4	1221	0,6
18,8	1130	0,7
17,6	1057	0,8
16,6	997	0,9
15,8	946	1
14,4	863	1,2
13,3	799	1,4
12,5	748	1,6
11,8	705	1,8
11,2	669	2
10,6	638	2,2
10,2	611	2,4
9,8	587	2,6
9,4	565	2,8
9,1	546	3
8,8	529	3,2
8,6	513	3,4
8,3	498	3,6
8,1	485	3,8
7,9	473	4
7,4	446	4,5
7,1	423	5
6,7	403	5,5
6,4	386	6
6,2	371	6,5
6,0	357	7
5,8	345	7,5
5,6	334	8
5,4	324	8,5
5,3	315	9
5,1	307	9,5
5,0	299	10
4,8	285	11
4,6	273	12
4,4	262	13
4,2	253	14
4,1	244	15
3,9	236	16
3,8	229	17
3,7	223	18
3,6	217	19
3,5	211	20
3,2	189	25
2,9	173	30
2,7	160	35
2,5	150	40
2,4	141	45
2,2	134	50

Rubber quality list

Commercial name	Acrylic rubber	Polyboron rubber	Epichlorohydrin rubber	Butyl rubber	Hydrogenated NBR	Natural rubber
	Good resistance to high temperatures and mineral oils, high resistance to oxygen and ozone, unfavourable low-temperature properties.	High mechanical strength, good resistance ozone, medium resistance to oil, flexibility/damping property can be varied as required, excellent resistance to water, slight permanent set.	Low gas permeability, very good low-temperature properties, good resistance to mineral oils, ozone and high temperatures.	Very slightly permeable to air, steam and other gases, good resistance to heat, oxygen, ozone and many chemicals and solvents, good electrical properties (isolating), good resistance to abrasion and tear propagation.	High resistance to heat, ozone and oil, good mechanical properties also at high temperatures, excellent resistance to wear and tear.	Characterized by flexibility, strength and low-temperature resistance as well as excellent physical properties ideal for bonded rubber/metal elements. Not suitable for petrol, grease, oils and ozone.
International designation	ACM	PNR	ECO	IIR	HNBR	NR
Hardness available	50-80 Shore A	10-80 Shore A	50-90 Shore A	40-80 Shore A	40-90 Shore A	25-95 Shore A
Resistance to temperatures	-35°C tot +175°C	-40°C tot +80°C	-40°C tot +130°C	-40°C tot +130°C	-40°C tot +175°C	-40°C tot +80°C
Short-time peak temperature	+220°C	+100°C	+150°C	+150°C	+200°C	+100°C
Tensile strength in kp/sq. cm (N/sq. mm)	160 (16)	170 (17)	170 (17)	170 (17)	300 (30)	250 (25)
Tensile elongation in %	350%	700%	500 %	800%	600%	800%

Properties						
Abrasion	moderate	good	moderate	good	very good	good
Resistance to flex cracking	moderate	moderate	good	moderate	very good	good
Elongation/tensile strength	good	good	good	good	very good	excellent
Flexibility	low	as required	moderate	low	good	excellent
Notch strength/strength of structure	-	moderate	good	good	good	good
Resistance to light	good	good	good	very good	good	bad
Resistance to oxidizing	very good	good	good	very good	good	good
Resistance to ozone	very good	good	very good	very good	good	moderate
Resistance to wear and tear	good	good	-	good	good	good
Weathering effect	very good	good	good	very good	good	good

Resistance to						
Lyes	not suitable	moderate	bad	very good	good	good
Petrol	not suitable	not suitable	good	not suitable	good	not suitable
Benzole	not suitable	not suitable	good	not suitable	moderate	not suitable
Foodstuffs*	not suitable	not suitable	not suitable	suitable	not suitable	suitable
Solvents, aliphatic	bad	not suitable	good	not suitable	very good	not suitable
Solvents, aromatic	bad	not suitable	good	not suitable	conditional	not suitable
Solvents, halogene	bad	not suitable	not suitable	not suitable	conditional	not suitable
Oils and greases	very good	conditional	very good	not suitable	very good	not suitable
Acids	not suitable	moderate	moderate	very good	moderate (conditional)	conditional
Water	good	excellent	moderate	good	very good	good

* with special formulations only

The properties referred to above are given for guidance only- The properties indicated here are affected by temperature, concentration etc. in specific applications and cannot be guaranteed.

Missing details upon request. No guarantee for correctness of technical dates. Accordingly we reserve the right to alter, amend or withdraw any product without notice.

Perbunan Acrylonitrile butadiene rubber	Neoprene Chloroprene rubber	SBR Styrene butadiene rubber	Polyurethane	Silicone rubber	APTK rubber EPDM Ethylene-propylene diene-rubber	Hypalon Chiorosul-phonated polyethylene	Viton Fluorinated rubber
Highly resistant to abrasion and tearing, particularly resistant to ageing. Particularly recommended for crude oil products, high temperatures, heating and lubricating oils, petrol and paraffin oil.	All-purpose synthetic rubber, flame resistant, resistant to abrasion, very robust, good dielectric strength, particularly recommended for exposure to ozone and weathering.	Similar to natural rubber, resistant to abrasion, rubbing in, good resistance to high temperatures and cracking, resistance to extreme low temperatures, not resistant to oil, not resistant to hydrolysis.	Excellent resistance to wear and tear, best flexibility with high shore hardness of all the elastomers, good resistance to oil, not resistant to sea water and corrosive salt solutions, not to be used in conjunction with steam, concentrated acids and lyes, swells strongly under the effect of aromatic solvents.	Resistant to high temperatures, odourless and tasteless, nontoxic, can be sterilized in accordance with foodstuffs regulations, resistant to petrolium, benzene, greases and oils.	Versatile in use, very good flexibility, resistant to abrasion, resistant to wear and tear, resistant to ozone and weather, resistant to low temperatures, can be used to protect against washing and spraying agents, excellent for profile cords, not usable in conjunction with petrol, solvents and mineral oils.	Fast to light, colour-fast, flame-resistant, good dielectric strength, particularly recommended for exposure to sunlight, ozone, weather and oxidizing chemicals, however, it has a very low tensile strength.	Hexafluoropropylene vinylidene, fluoride copolymer, Resistant to extreme temperatures even over 200 C. Very good mechanical properties and high resistance to tearing event at high temperatures. Excellent for exposure to sunlight, ozone and weather. Not recommended for use in conjunction with esters and ketones.
NBR	CR	SBR	PUR	MVQ/SI	EPDM/EPM	CSM	FPM
25-90 Shore A	30-90 Shore A	35-93 Shore A	55-98 Shore A	40-80 Shore A	30-90 Shore A	50-95 Shore A	65-90 Shore
-40°C tot +140°C	-30°C tot +90°C	-30°C tot +110°C	-30°C tot +80°C	-70°C tot +180°C	-40°C tot +150°C	-40°C tot +120°C	-30°C tot +225°C
+160°C	+150°C	+150°C	+100°C	+225°C	+180°C	+175°C	+350°C
250 (25)	250 (25)	250 (25)	300 (30)	80 (8)	200 (20)	180 (18)	200 (20)
500%	450%	450%	800%	250%	450%	300%	400%

very good	good	very good	excellent	moderate	good	moderate	good
moderate	very good	good	-	bad	very good	good	good
good	good	good	excellent	bad	good	good	good
good	good	good	good	good	good	good	moderate
excellent	good	good	excellent	moderate	moderate	good	almost good
bad	very good	moderate	good	excellent	excellent	excellent	excellent
moderate	good	moderate	good	very good	excellent	excellent	excellent
moderate	very good	moderate	good	excellent	excellent	excellent	excellent
very good	very good	very good	excellent	bad	good	good	almost good
moderate	very good	good	moderate	excellent	excellent	excellent	excellent

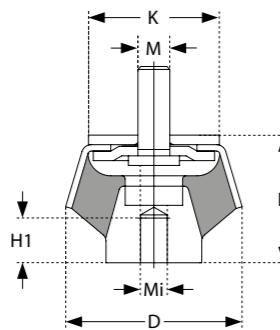
good	very good	good	not suitable	not suitable	excellent	very good	very good
excellent	moderate	not suitable	very good	not suitable	not suitable	moderate	excellent
bad	not suitable	not suitable	not suitable	not suitable	not suitable	not suitable	good
suitable	suitable	suitable	not suitable	excellent	suitable	suitable	not suitable
very good	moderate	not suitable	very good	not suitable	bad	moderate	very good
conditional	moderate	not suitable	moderate	not suitable	not suitable	moderate	good
bad	bad	not suitable	bad	not suitable	not suitable	moderate	good
excellent	good	not suitable	very good	good	bad	good	good
conditional	good	conditional	not suitable	not suitable	very good	very good	very good
good	very good	very good	not suitable	good	very good	good	good

Machine mounts

standard

Art.Code	D (mm)	K (mm)	H (mm)	H1 (mm)	M (mm)	Mi (mm)	Shore A
6001003043	55,3	41	41	14	10 x 21,5	M10i	40°
6001003057	55,3	41	41	14	10 x 21,5	M10i	55°
6001003068	55,3	41	41	14	10 x 21,5	M10i	70°

D = diameter
K = diameter lid
H = height
H1 = thread depth
M = screw thread
Mi = internal thread size
Shore A = hardness



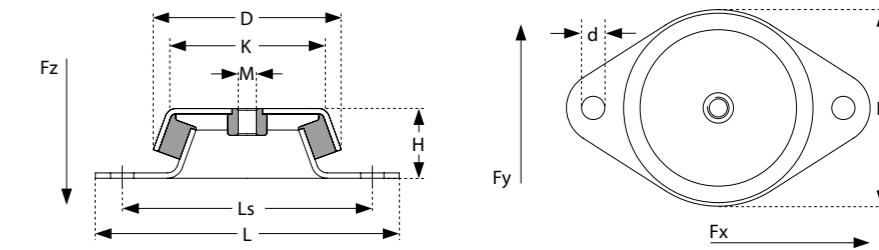
Machine mounts

standard

Art.Code	L (mm)	Ls (mm)	K (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
6001203143	170	140	90	106	39	110	M12i	13	40°
6001203157	170	140	90	106	39	110	M12i	13	55°
6001203168	170	140	90	106	39	110	M12i	13	70°

On request this machine mount is optional height adjustable

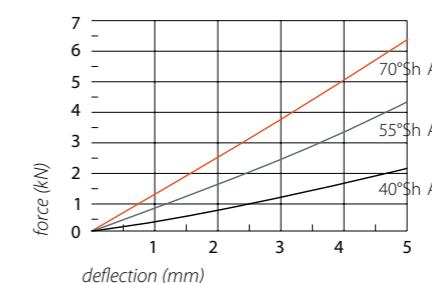
L = length
Ls = spacing mounting holes
K = diameter lid
D = diameter
H = height
B = width
M = screw thread
d = bore diameter
Shore A = hardness



Load Fz



Load Fz



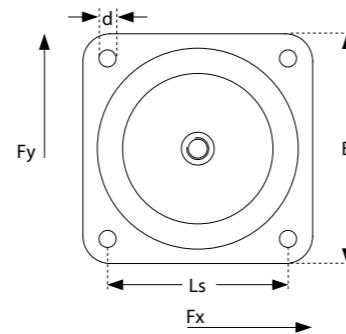
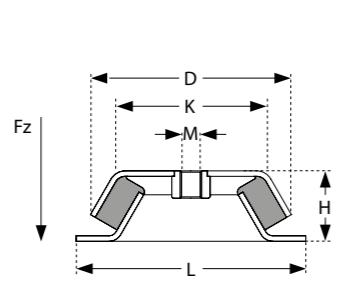
Machine mounts

standard

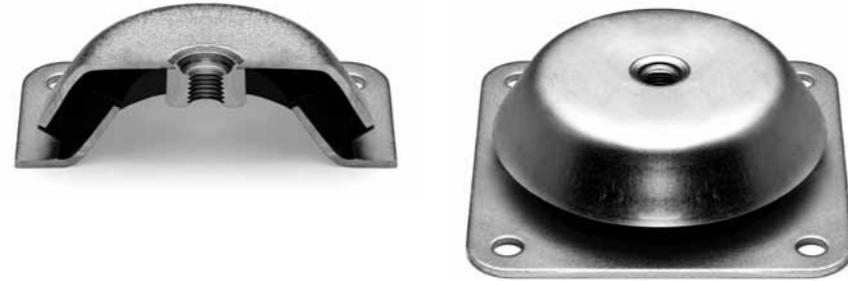
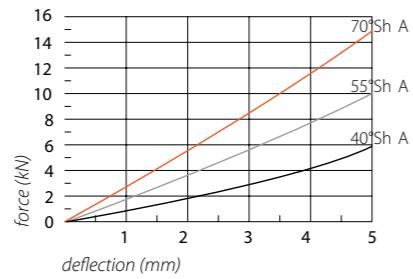
Art.Code	L (mm)	Ls (mm)	K (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
6001603243	168	132	113	150	51,5	168	M16i	12,5	40°
6001603257	168	132	113	150	51,5	168	M16i	12,5	55°
6001603268	168	132	113	150	51,5	168	M16i	12,5	70°

On request this machine mount is optional height adjustable

- L = length
- Ls = spacing mounting holes
- K = diameter lid
- D = diameter
- H = height
- B = width
- M = screw thread
- d = bore diameter
- Shore A = hardness



Load Fz



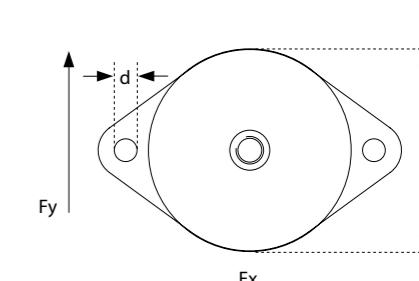
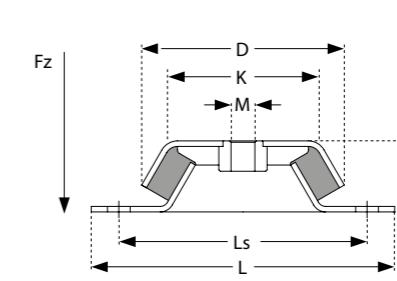
Machine mounts

standard

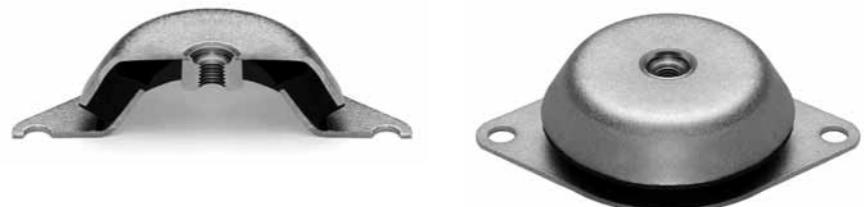
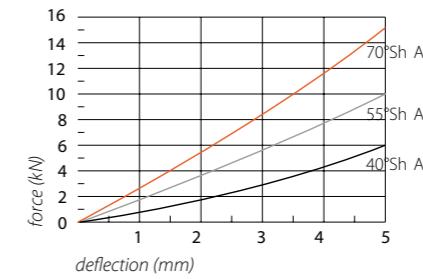
Art.Code	L (mm)	Ls (mm)	K (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
6001703343	220	180	110	150	51,5	150	M20i	16,5	40°
6001703357	220	180	110	150	51,5	150	M20i	16,5	55°
6001703368	220	180	110	150	51,5	150	M20i	16,5	70°

On request this machine mount is optional height adjustable

- L = length
- Ls = spacing mounting holes
- K = diameter lid
- D = diameter
- H = height
- B = width
- M = screw thread
- d = bore diameter
- Shore A = hardness



Load Fz



Machine mounts

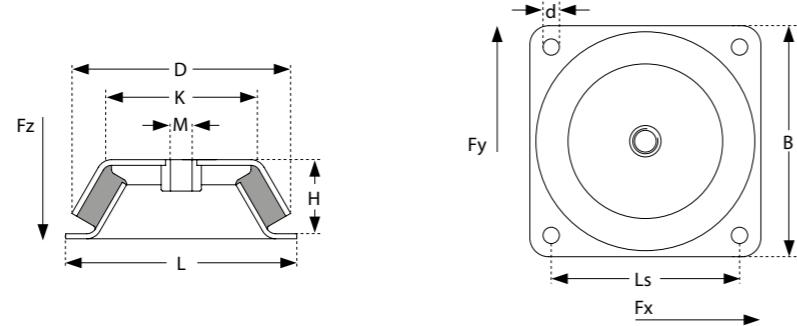
standard

Art.Code	L (mm)	Ls (mm)	K (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
6002003443	184	150	126	175	63	184	M20i	13	40°
6002003457	184	150	126	175	63	184	M20i	13	55°
6002003468	184	150	126	175	63	184	M20i	13	70°

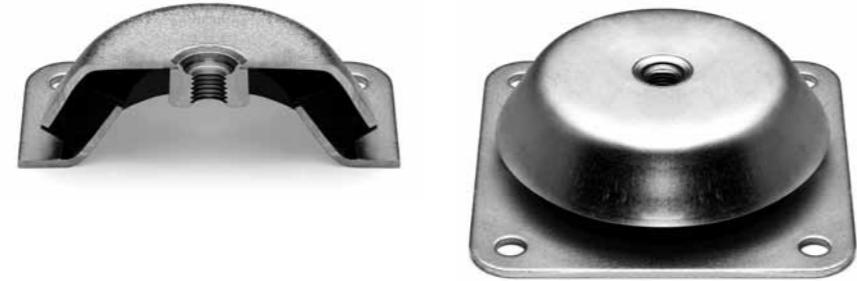
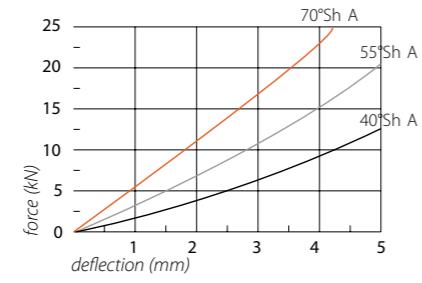
Machine mounts

On request this machine mount is optional height adjustable

- L = length
- Ls = spacing mounting holes
- K = diameter lid
- D = diameter
- H = height
- B = width
- M = screw thread
- d = bore diameter
- Shore A = hardness



Load Fz



Machine mounts fail safe

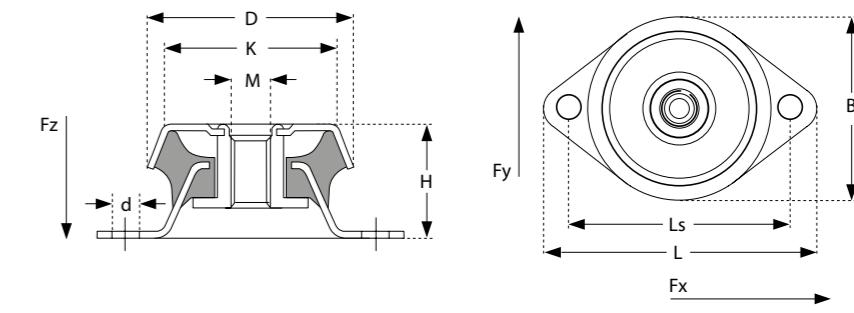
standard

Art.Code	L (mm)	Ls (mm)	K (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)
60060001/03	93	76	50	63	35	63	M12i	9
60060001/04	93	76	50	63	35	63	M12i	9
60060001/05	93	76	50	63	35	63	M12i	9
60060001/06	93	76	50	63	35	63	M12i	9

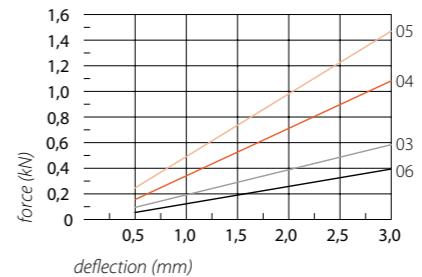
Machine mounts

On request this machine mount is optional height adjustable

- L = length
- Ls = spacing mounting holes
- K = diameter lid
- D = diameter
- H = height
- B = width
- M = screw thread
- d = bore diameter
- Shore A = hardness



Load Fz



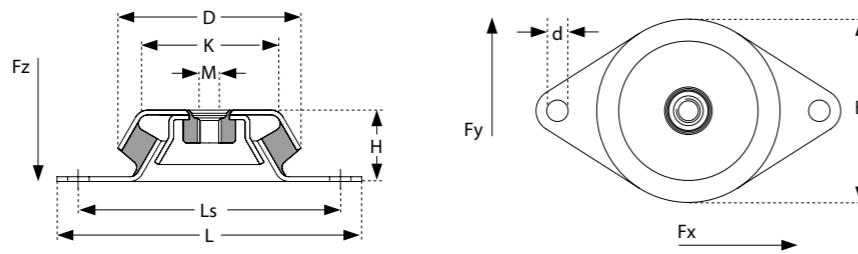
Machine mounts fail safe

standard

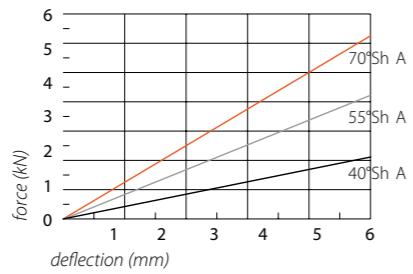
Art.Code	L (mm)	Ls (mm)	K (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
6001240S	170	140	90	106	39	110	M12i	13	40°
6001255S	170	140	90	106	39	110	M12i	13	55°
6001270S	170	140	90	106	39	110	M12i	13	70°

On request this machine mount is optional height adjustable

- L = length
- Ls = spacing mounting holes
- K = diameter lid
- D = diameter
- H = height
- B = width
- M = screw thread
- d = bore diameter
- Shore A = hardness



Load Fz



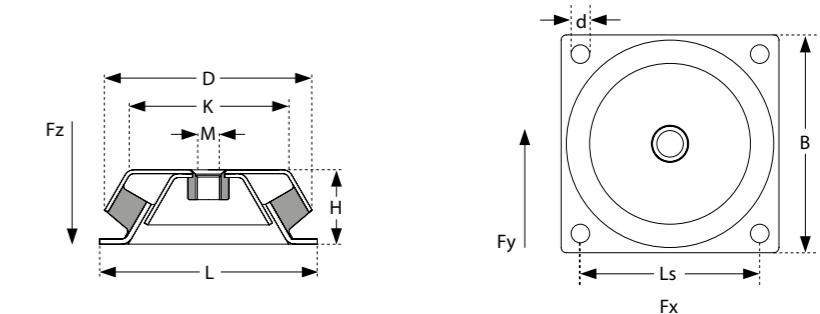
Machine mounts fail safe

standard

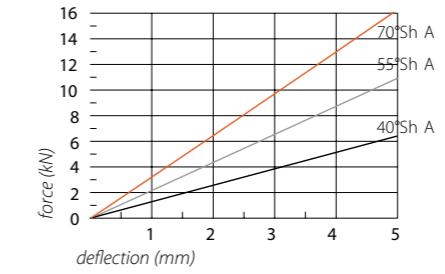
Art.Code	L (mm)	Ls (mm)	K (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
6001640S	168	132	113	150	51,5	168	M16i	13	40°
6001655S	168	132	113	150	51,5	168	M16i	13	55°
6001670S	168	132	113	150	51,5	168	M16i	13	70°

On request this machine mount is optional height adjustable

- L = length
- Ls = spacing mounting holes
- K = diameter lid
- D = diameter
- H = height
- B = width
- M = screw thread
- d = bore diameter
- Shore A = hardness



Load Fz



Machine mounts fail safe

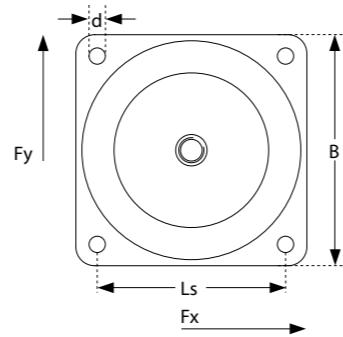
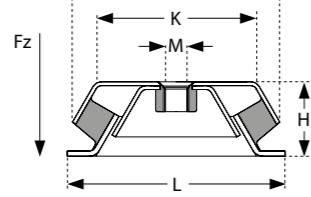
standard

Art.Code	L (mm)	Ls (mm)	K (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
6002043S	184	150	126	175	63	184	M20i	13	40°
6002057S	184	150	126	175	63	184	M20i	13	55°
6002068S	184	150	126	175	63	184	M20i	13	70°

Machine mounts

On request this machine mount is optional height adjustable

- L = length
- Ls = spacing mounting holes
- K = diameter lid
- D = diameter
- H = height
- B = width
- M = screw thread
- d = bore diameter
- Shore A = hardness



Machine mounts fail safe

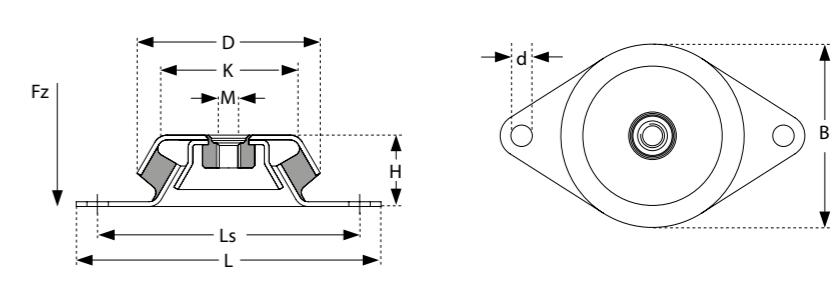
DNV certified

Art.Code	L (mm)	Ls (mm)	K (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
6007740S	128	110	59	77	30	77	M10i	9	40°
6007750S	128	110	59	77	30	77	M10i	9	50°
6007760S	128	110	59	77	30	77	M10i	9	60°
6007770S	128	110	59	75	30	77	M10i	9	70°

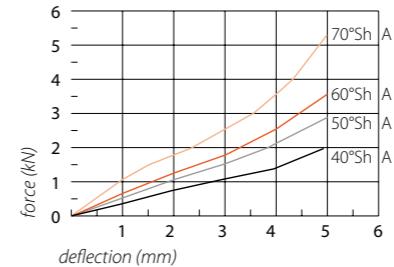
Machine mounts

On request this machine mount is optional height adjustable

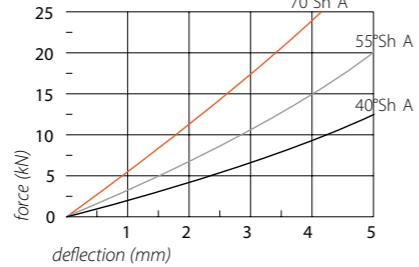
- L = length
- Ls = spacing mounting holes
- K = diameter lid
- D = diameter
- H = height
- B = width
- M = screw thread
- d = bore diameter
- Shore A = hardness



Load Fz



Load Fz



Machine mounts fail safe

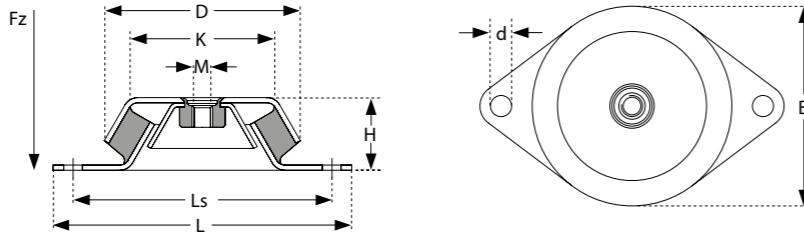
DNV certified

Art.Code	L (mm)	Ls (mm)	K (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
6009440S	144	124	70	94	35	94	M10i	10	40°
6009450S	144	124	70	94	35	94	M10i	10	50°
6009460S	144	124	70	94	35	94	M10i	10	60°
6009470S	144	124	70	94	35	94	M10i	10	70°

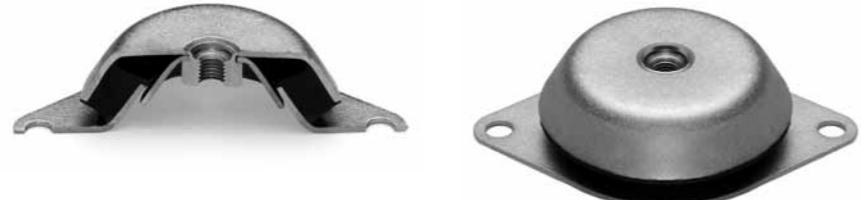
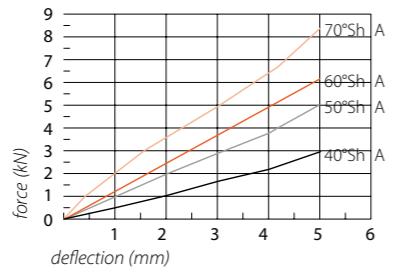
Machine mounts

On request this machine mount is optional height adjustable

- L = length
- Ls = spacing mounting holes
- K = diameter lid
- D = diameter
- H = height
- B = width
- M = screw thread
- d = bore diameter
- Shore A = hardness



Load Fz



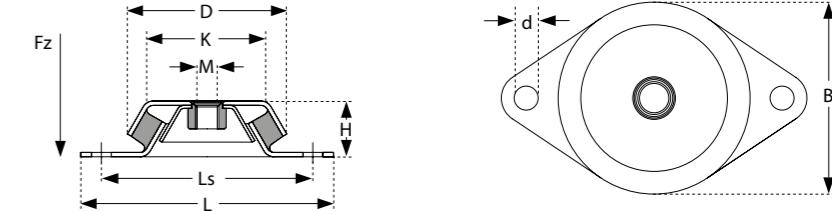
Machine mounts fail safe

DNV certified

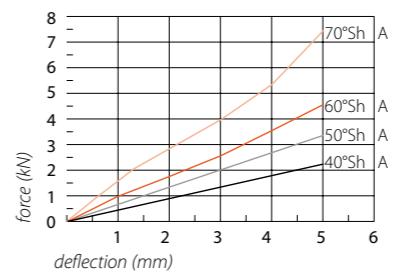
Art.Code	L (mm)	Ls (mm)	K (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
6010840S	172	144	82	108	38	108	M16i	13,5	40°
6010850S	172	144	82	108	38	108	M16i	13,5	50°
6010860S	172	144	82	108	38	108	M16i	13,5	60°
6010870S	172	144	82	108	38	108	M16i	13,5	70°

On request this machine mount is optional height adjustable

- L = length
- Ls = spacing mounting holes
- K = diameter lid
- D = diameter
- H = height
- B = width
- M = screw thread
- d = bore diameter
- Shore A = hardness



Load Fz



Machine mounts fail safe

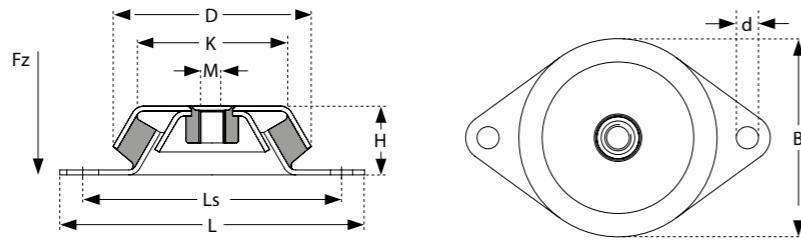
DNV certified

Art.Code	L (mm)	Ls (mm)	K (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
6012040S	186	158	92	120	42	120	M16i	13,5	40°
6012050S	186	158	92	120	42	120	M16i	13,5	50°
6012060S	186	158	92	120	42	120	M16i	13,5	60°
6012070S	186	158	92	120	42	120	M16i	13,5	70°

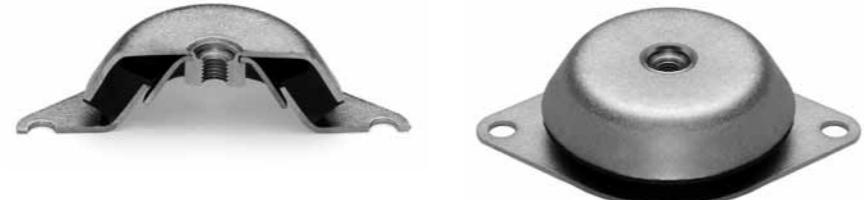
Machine mounts

On request this machine mount is optional height adjustable

- L = length
- Ls = spacing mounting holes
- K = diameter lid
- D = diameter
- H = height
- B = width
- M = screw thread
- d = bore diameter
- Shore A = hardness



Load Fz



Machine mounts fail safe

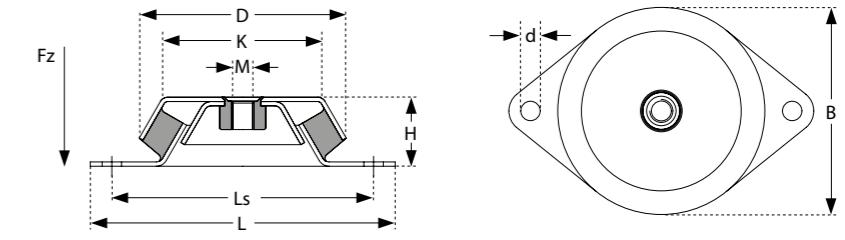
DNV certified

Art.Code	L (mm)	Ls (mm)	K (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
6014440S	212	182	111	144	48	144	M16i	13,5	40°
6014450S	212	182	111	144	48	144	M16i	13,5	50°
6014460S	212	182	111	144	48	144	M16i	13,5	60°
6014470S	212	182	111	144	48	144	M16i	13,5	70°

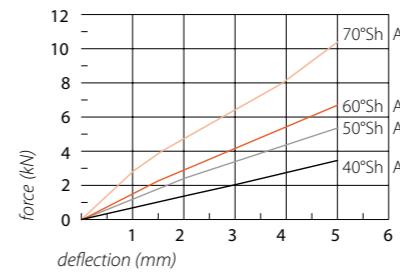
Machine mounts

On request this machine mount is optional height adjustable

- L = length
- Ls = spacing mounting holes
- K = diameter lid
- D = diameter
- H = height
- B = width
- M = screw thread
- d = bore diameter
- Shore A = hardness



Load Fz



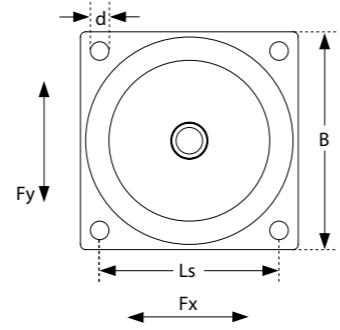
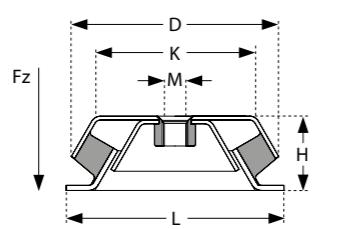
Machine mounts fail safe

DNV certified

Art.Code	L (mm)	Ls (mm)	K (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
6015840S	170	140	125,5	162	58	170	M20i	14,5	40°
6015850S	170	140	125,5	162	58	170	M20i	14,5	50°
6015860S	170	140	125,5	162	58	170	M20i	14,5	60°
6015870S	170	140	125,5	162	58	170	M20i	14,5	70°

On request this machine mount is optional height adjustable

- L = length
- Ls = spacing mounting holes
- K = diameter lid
- D = diameter
- H = height
- B = width
- M = screw thread
- d = bore diameter
- Shore A = hardness

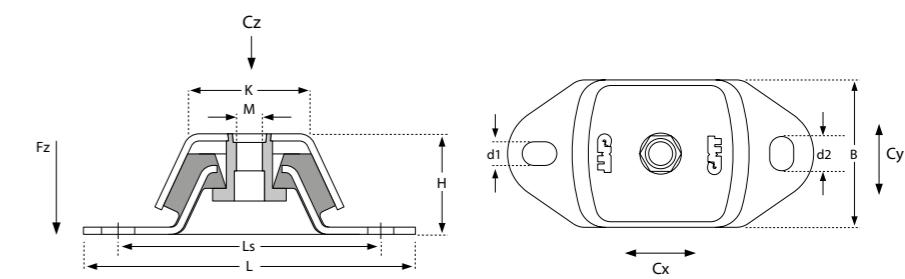


Machine mounts fail safe

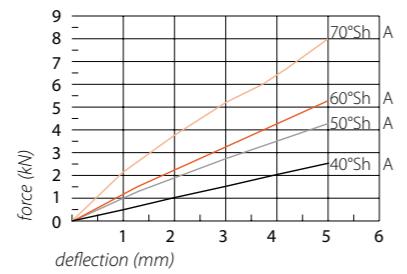
type Triflex

Art.Code	L (mm)	Ls (mm)	K (mm)	H (mm)	B (mm)	BS (mm)	M (mm)	d1 (mm)	d2 (mm)	Sh A
PC100045	120	100	60	40	60	-	M12i	11	14	45°
PC100055	120	100	60	40	60	-	M12i	11	14	55°
PC100065	120	100	60	40	60	-	M12i	11	14	65°
PC100075	120	100	60	40	60	-	M12i	11	14	75°
4.M12x100VERZ	Height adjustable spindle M12 x 100 complete									

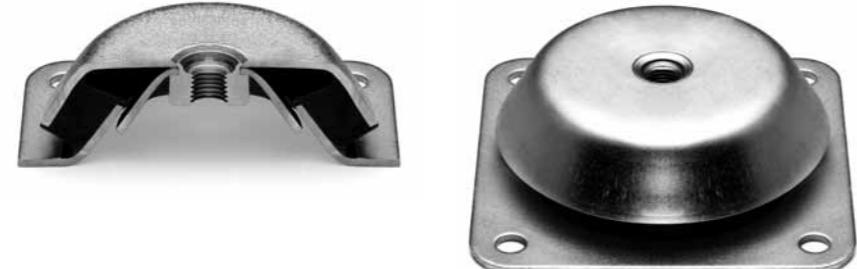
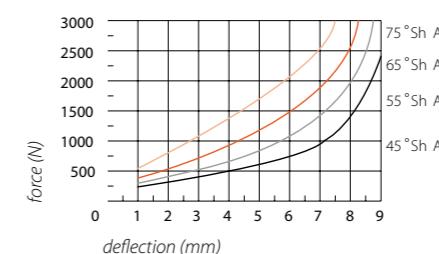
- L = length
- Ls = spacing mounting holes
- K = diameter lid
- D = diameter
- H = height
- B = width
- M = screw thread
- d1 = bore diameter width
- d2 = bore diameter length
- d3 = bore diameter length
- Shore A = hardness



Load Fz



Load Fz

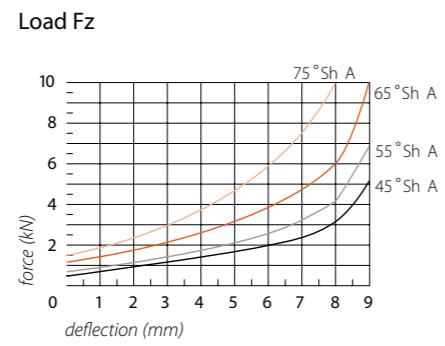
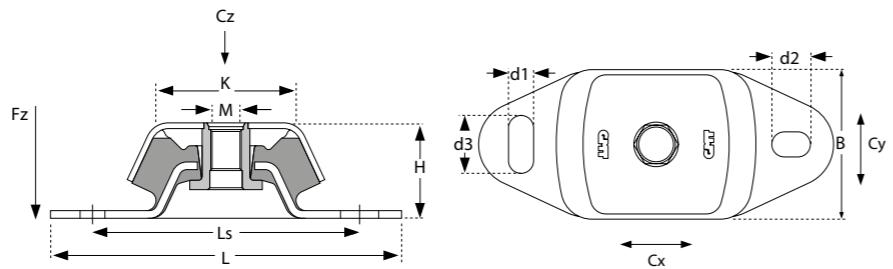


Machine mounts fail safe

type Triflex

Art.Code	L (mm)	Ls (mm)	K (mm)	H (mm)	B (mm)	BS (mm)	M (mm)	d1 (mm)	d2 (mm)	d3 (mm)	Sh A
PC140045	184	140	75	50	75	-	M16i	13	20	30	45°
PC140055	184	140	75	50	75	-	M16i	13	20	30	55°
PC140065	184	140	75	50	75	-	M16i	13	20	30	65°
PC140075	184	140	75	50	75	-	M16i	13	20	30	75°
4M16x110VERZ	Height adjustable spindle M16 x 110 complete										

L = length
 L_s = spacing mounting holes
 K = diameter lid
 D = diameter
 H = height
 B = width
 M = screw thread
 d_1 = bore diameter width
 d_2 = bore diameter length
 d_3 = bore diameter length
Shore A = hardness



Ratio horizontal stiffness
 C_x (longitudinal) and C_y
(transverse direction) compared
to C_z (load direction)
 $C_z : C_x : C_y$
1 : 2,7 : 0,7

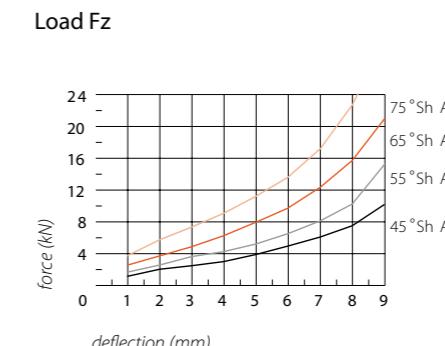
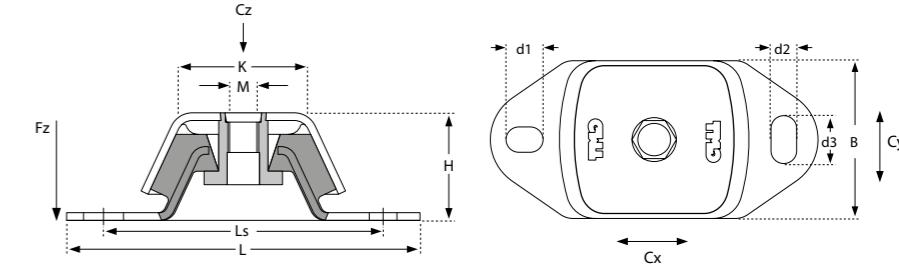


Machine mounts fail safe

type Triflex

Art.Code	L (mm)	Ls (mm)	K (mm)	H (mm)	B (mm)	BS (mm)	M (mm)	d1 (mm)	d2 (mm)	d3 (mm)	Sh A
PC182045	230	182	112	70	112	-	M20i	18	26	34	45°
PC182055	230	182	112	70	112	-	M20i	18	26	34	55°
PC182065	230	182	112	70	112	-	M20i	18	26	34	65°
PC182075	230	182	112	70	112	-	M20i	18	26	34	75°
4M20x150VERZ	Height adjustable spindle M20 x 150 complete										

L = length
 L_s = spacing mounting holes
 K = diameter lid
 D = diameter
 H = height
 B = width
 M = screw thread
 d_1 = bore diameter width
 d_2 = bore diameter length
 d_3 = bore diameter length
Shore A = hardness



Ratio horizontal stiffness
 C_x (longitudinal) and C_y
(transverse direction) compared
to C_z (load direction)
 $C_z : C_x : C_y$
1 : 2,6 : 0,85

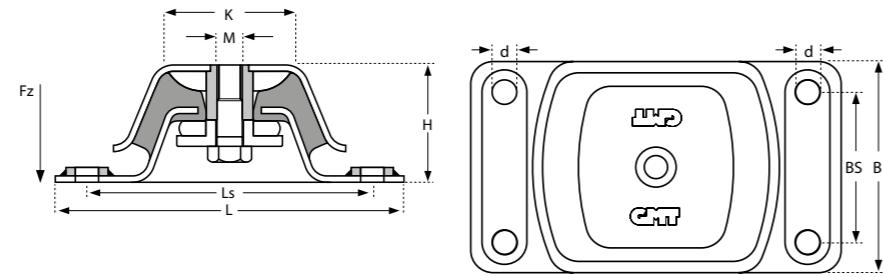


Machine mounts fail safe

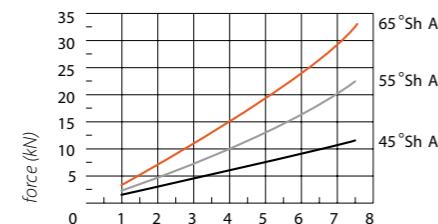
type Triflex

Art.Code	L (mm)	Ls (mm)	K (mm)	H (mm)	B (mm)	BS (mm)	M (mm)	d (mm)	Sh A
PC270045	330	270	221	111	190	135	M24i	22	45°
PC270055	330	270	221	111	190	135	M24i	22	55°
PC270065	330	270	221	111	190	135	M24i	22	65°

- L = length
 L_s = spacing mounting holes
 K = diameter lid
 D = diameter
 H = height
 B = width
 M = screw thread
 d_1 = bore diameter width
 d_2 = bore diameter length
 d_3 = bore diameter length
 Shore A = hardness



Load F_z



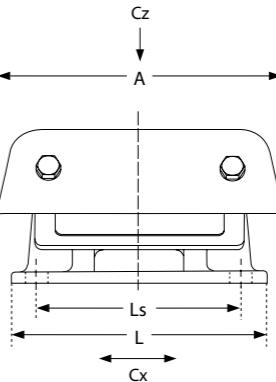
Ratio horizontal stiffness
 C_x (longitudinal) and C_y
 (transverse direction) compared
 to C_z (load direction)
 $C_z : C_x : C_y$
 $1 : 2,3 : 0,6$



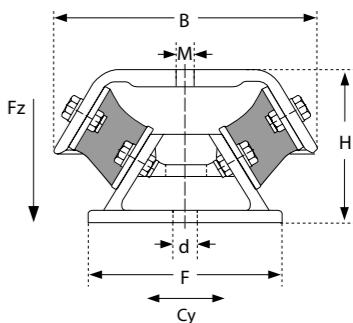
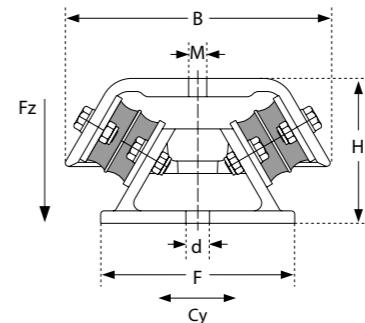
Combimounts

Triflex

Artikel-Nr	A (mm)	B (mm)	H (mm)	L (mm)	Ls (mm)	F (mm)	d (mm)	M (mm)
60213	230	204	110	205	165	148	18	M16i
60213HD	230	204	125	205	165	148	18	M16i



Type 60.213

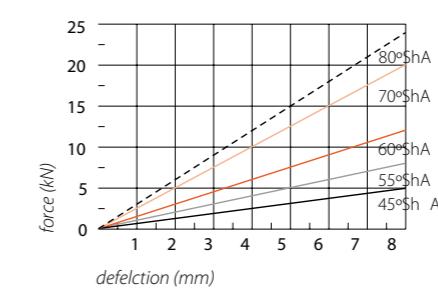


The graph represents the deflection of the
 damper when the load is applied vertically.
 The horizontal stiffness's as ratio of the
 vertical stiffness's are:

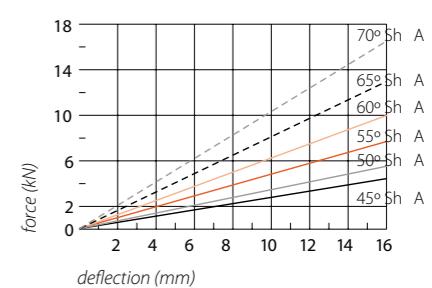
Type $C_z : C_x : C_y$
 60.213 1 : 0,25 : 2,5
 60.213HD 1 : 0,30 : 1,7

C_z = load direction
 C_x = longitudinal direction
 C_y = transverse direction

Load F_z type 60.213



Load F_z type 60.213HD



Sandwich elements

Machine mounts

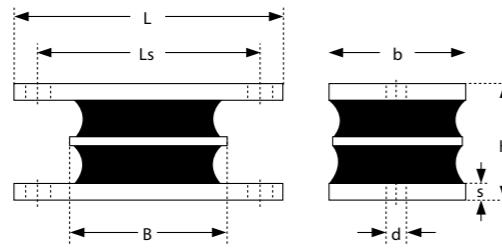
Standard stock keeping units

Art.Code	L (mm)	B (mm)	H (mm)	b (mm)	Ls (mm)	d (mm)	s (mm)	M (mm)
PS5140	170	127	43	60	146	10,3	5,0	m 8 x 15
PS5150	170	127	43	60	146	10,3	5,0	m 8 x 15
PS5160	170	127	43	60	146	10,3	5,0	m 8 x 15
PS5170	170	127	43	60	146	10,3	5,0	m 8 x 15

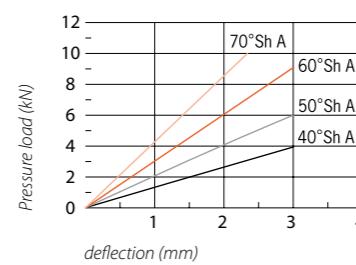
L = length
B = width
H = height
b = width
Ls = spacing mounting holes
d = diameter mounting holes
s = plate thickness
M = screw thread

Material: natural rubber

Type PS51



Type PS51



Machine mounts fail safe

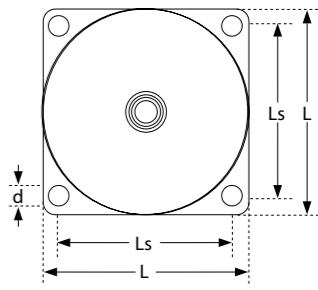
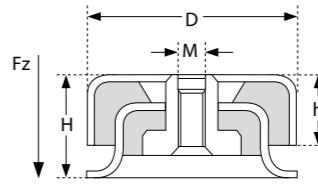
type IS

Art.Code	L (mm)	Ls (mm)	D (mm)	d (mm)	M (mm)	H (mm)	h (mm)
IS6010040	60	49,5	58	5,2	M6i	28	18
IS6010050	60	49,5	58	5,2	M6i	28	18
IS6010060	60	49,5	58	5,2	M6i	28	18
IS6010070	60	49,5	58	5,2	M6i	28	18
IS6010140	77	61	58	9	M8i	28	18
IS6010150	77	61	58	9	M8i	28	18
IS6010160	77	61	58	9	M8i	28	18
IS6010170	77	61	58	9	M8i	28	18

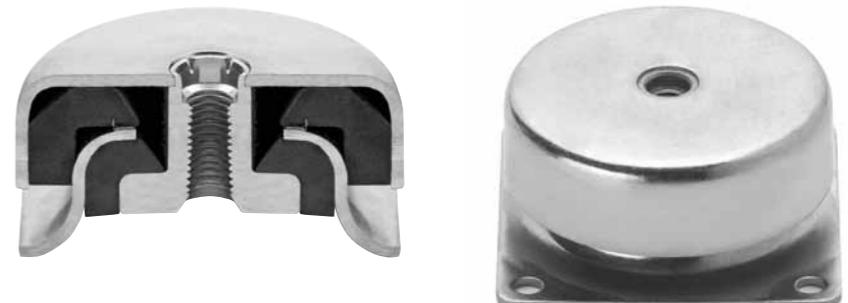
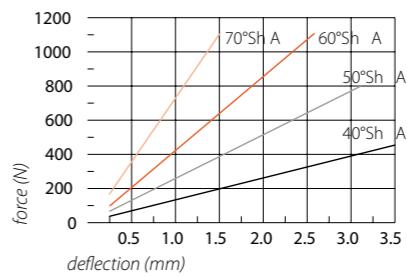
GMT fail safe machine mounts have a unique design and can take loads applied by pressure forces, pull forces, and shear forces.

Quality

All metal parts are zinc coated. The rubber parts are made of anti aging and oil resistant quality. The standard hardness's are 40°, 50°, 60°, and 70° Sh A. Other rubber qualities and hardness's available on request.



Load Fz



Machine mounts fail safe

type IS

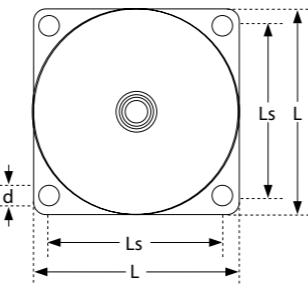
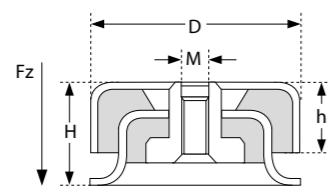
38

Art.Code	L (mm)	Ls (mm)	D (mm)	d (mm)	M (mm)	H (mm)	h (mm)
IS6020040	76	63,5	76	6,4	M10i	38	25
IS6020050	76	63,5	76	6,4	M10i	38	25
IS6020060	76	63,5	76	6,4	M10i	38	25
IS6020070	76	63,5	76	6,4	M10i	38	25
IS6020140	90	74	76	9	M12i	38	25
IS6020150	90	74	76	9	M12i	38	25
IS6020160	90	74	76	9	M12i	38	25
IS6020170	90	74	76	9	M12i	38	25

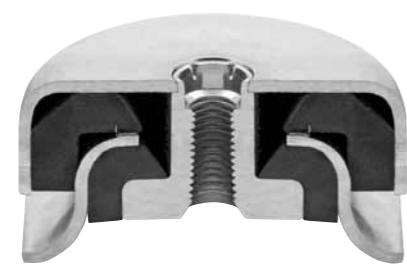
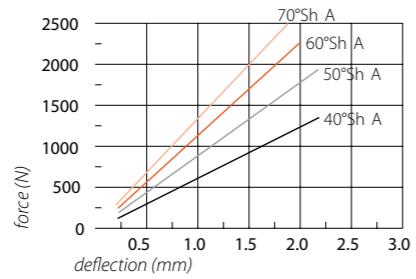
GMT fail safe machine mounts have a unique design and can take loads applied by pressure forces, pull forces, and shear forces.

Quality

All metal parts are zinc coated. The rubber parts are made of anti aging and oil resistant quality. The standard hardness's are 40°, 50°, 60°, and 70° Sh A. Other rubber qualities and hardness's available on request.



Load Fz



Machine mounts fail safe

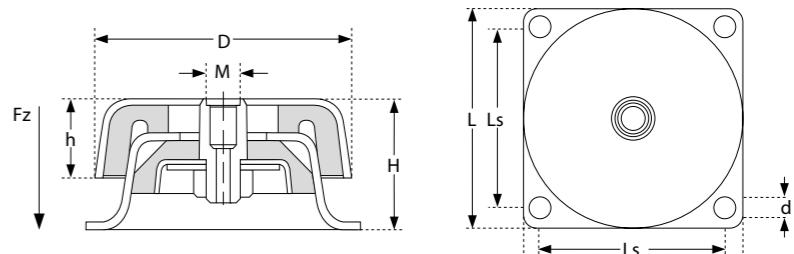
type IS

Art.Code	L (mm)	Ls (mm)	D (mm)	d (mm)	M (mm)	H (mm)	h (mm)
IS6040040	133	108	124	11,9	M16i	63	38
IS6040050	133	108	124	11,9	M16i	63	38
IS6040060	133	108	124	11,9	M16i	63	38
IS6040070	133	108	124	11,9	M16i	63	38

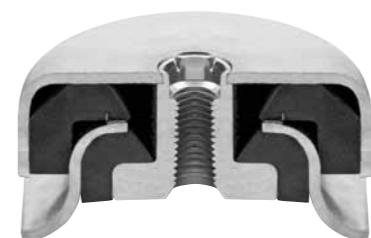
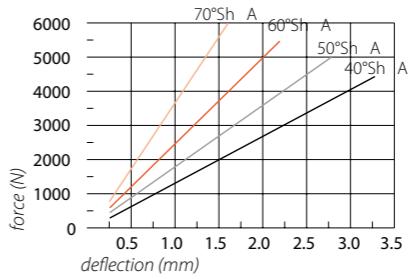
GMT fail safe machine mounts have a unique design and can take loads applied by pressure forces, pull forces, and shear forces.

Quality

All metal parts are zinc coated. The rubber parts are made of anti aging and oil resistant quality. The standard hardness's are 40°, 50°, 60°, and 70° Sh A. Other rubber qualities and hardness's available on request.



Load Fz



Machine mounts fail safe

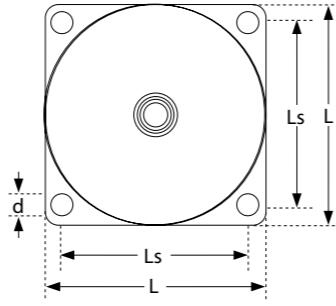
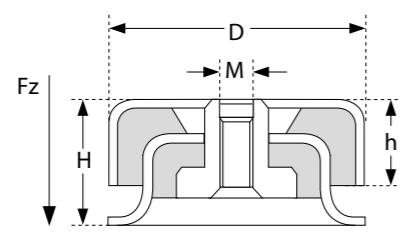
type IS

Art.Code	L (mm)	Ls (mm)	D (mm)	d (mm)	M (mm)	H (mm)	h (mm)
IS6030040	175	143	168	13,5	M16i	90	59
IS6030050	175	143	168	13,5	M16i	90	59
IS6030060	175	143	168	13,5	M16i	90	59
IS6030070	175	143	168	13,5	M16i	90	59

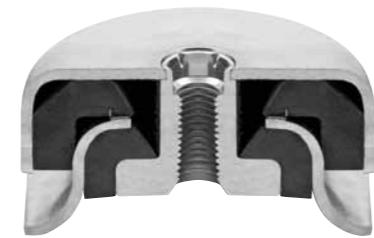
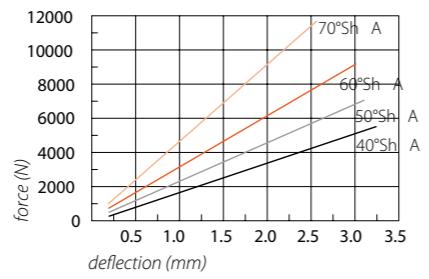
GMT fail safe machine mounts have a unique design and can take loads applied by pressure forces, pull forces, and shear forces.

Quality

All metal parts are zinc coated. The rubber parts are made of anti aging and oil resistant quality. The standard hardness's are 40°, 50°, 60°, and 70° Sh A. Other rubber qualities and hardness's available on request.



Load Fz

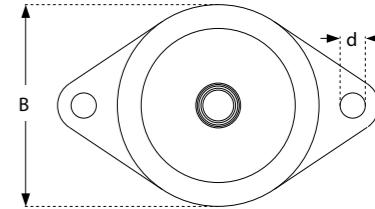
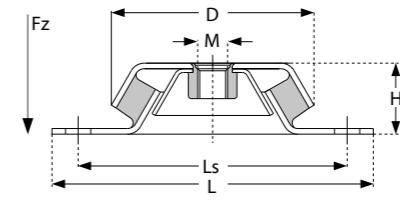


Machine mounts fail safe

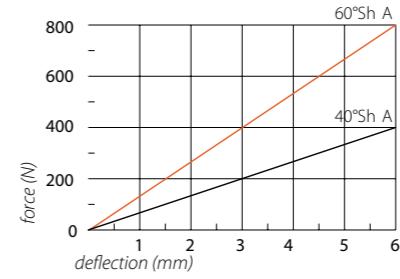
type HD High Deflection

Art.Code	L (mm)	Ls (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
HD4040M10	110	88	64	36	64	M10i	9	40°
HD4060M10	110	88	64	36	64	M10i	9	60°

L = length
 L_s = spacing mounting holes
 D = diameter
 H = height
 B = width
 M = screw thread
 d = bore diameter
 Shore A = hardness



Load Fz



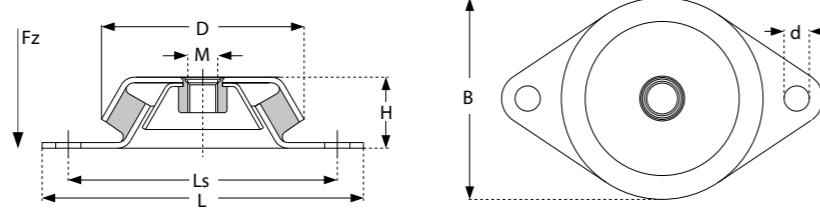
Machine mounts

Machine mounts fail safe

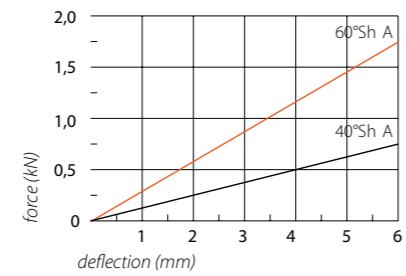
type HD High Deflection

Art.Code	L (mm)	Ls (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
HD6040M12	120	100	64	36	64	M12i	11	40°
HD6060M12	120	100	64	36	64	M12i	11	60°

L = length
 L_s = spacing mounting holes
 D = diameter
 H = height
 B = width
 M = screw thread
 d = bore diameter
 Shore A = hardness



Load Fz

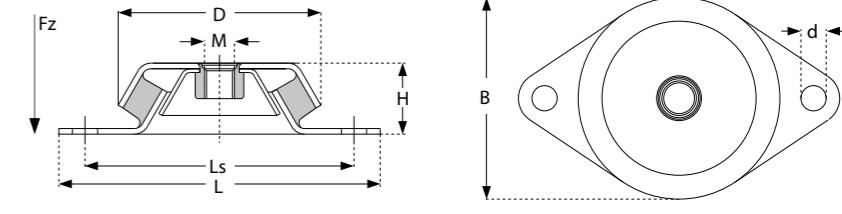


Machine mounts fail safe

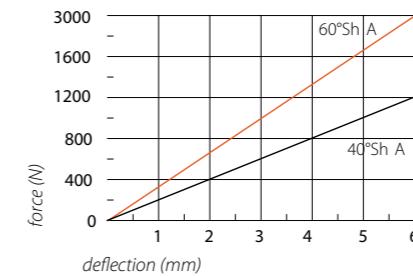
type HD High Deflection

Art.Code	L (mm)	Ls (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
HD12540M12	135	110	84	36	84	M12i	11	40°
HD12560M12	135	110	84	36	84	M12i	11	60°

L = length
 L_s = spacing mounting holes
 D = diameter
 H = height
 B = width
 M = screw thread
 d = bore diameter
 Shore A = hardness



Load Fz

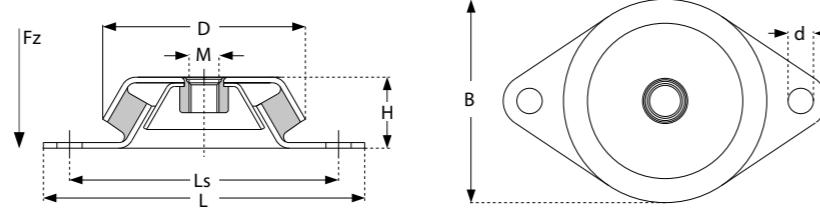


Machine mounts fail safe

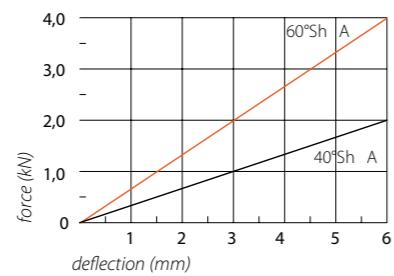
type HD High Deflection

Art.Code	L (mm)	Ls (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
HD35040M12	175	140	110	42	110	M12i	14	40°
HD35040M16	175	140	110	42	110	M16i	14	40°
HD35060M12	175	140	110	42	110	M12i	14	60°
HD35060M16	175	140	110	42	110	M16i	14	60°

L = length
 L_s = spacing mounting holes
 D = diameter
 H = height
 B = width
 M = screw thread
 d = bore diameter
 Shore A = hardness



Load Fz

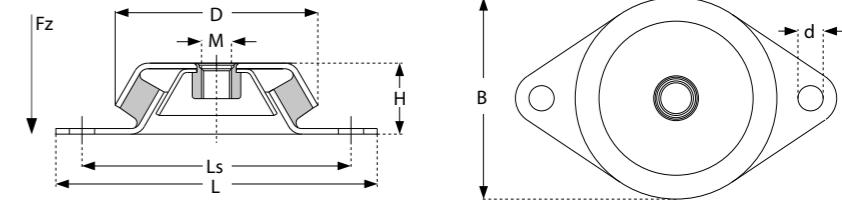


Machine mounts fail safe

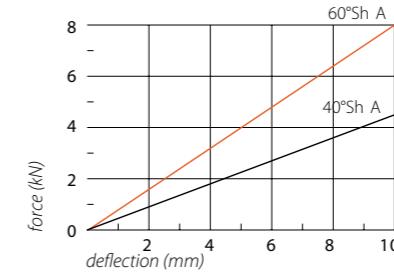
type HD High Deflection

Art.Code	L (mm)	Ls (mm)	D (mm)	H (mm)	B (mm)	M (mm)	d (mm)	Shore A
HD80040M16	216	182	155	55	155	M16i	14	40°
HD80060M16	216	182	155	55	155	M16i	14	60°

L = length
 L_s = spacing mounting holes
 D = diameter
 H = height
 B = width
 M = screw thread
 d = bore diameter
 Shore A = hardness



Load Fz



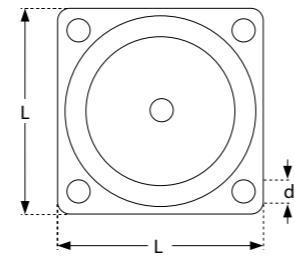
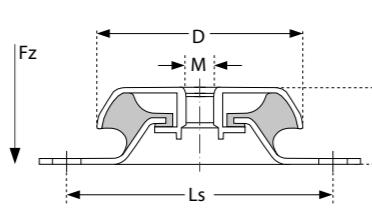
Machine mounts fail safe

type HD High Deflection

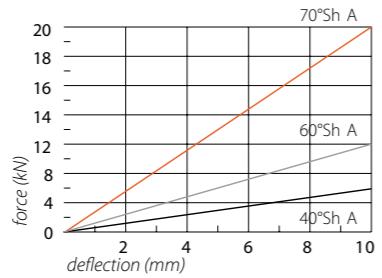
Art.Code	L (mm)	Ls (mm)	D (mm)	H (mm)	M (mm)	d (mm)	Shore A
HD150040M20	180	146	180	85	M20i	14	40°
HD150060M20	180	146	180	85	M20i	14	60°
HD150070M20	180	146	180	85	M20i	14	70°

Machine mounts

- L = length
 L_s = spacing mounting holes
 D = diameter
 H = height
 M = screw thread
 d = bore diameter
 Shore A = hardness



Load F_z

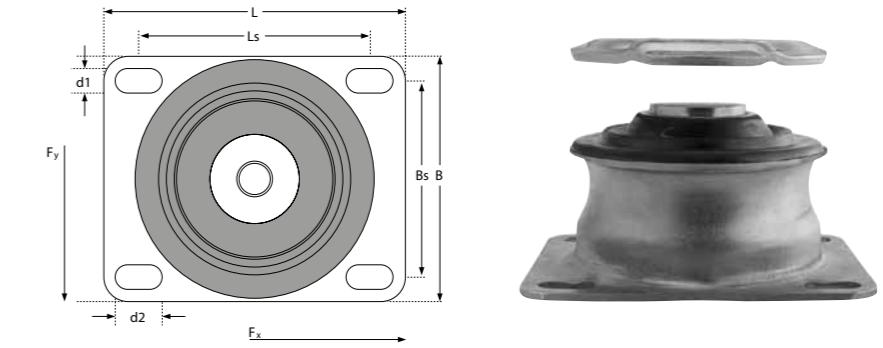


P-Bearings

Art.Code	L (mm)	B (mm)	H (mm)	H1 (mm)	M (mm)	C (mm)	D (mm)	d1 (mm)	d2 (mm)
742034S640	135	110	68	5,5	16x1,5	26	102	11	21
742034S650	135	110	68	5,5	16x1,5	26	102	11	21
742034S660	135	110	68	5,5	16x1,5	26	102	11	21
742034S970	135	110	68	5,5	16x1,5	26	102	11	21
36120313									

Machine mounts

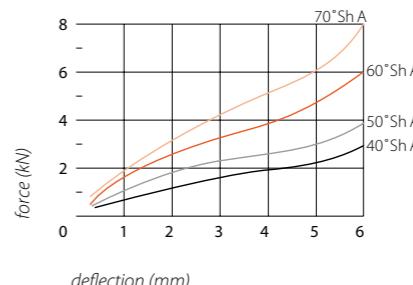
- L = length
 L_s = spacing mounting holes
 K = diameter lid
 D = diameter
 H = height
 B = width
 M = screw thread
 d_1 = bore diameter width
 d_2 = bore diameter length



Standard version with lid

Version with oil resistant cover

Load F_z



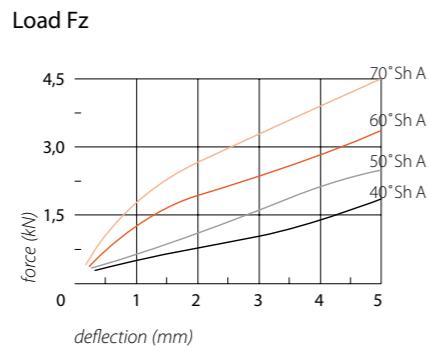
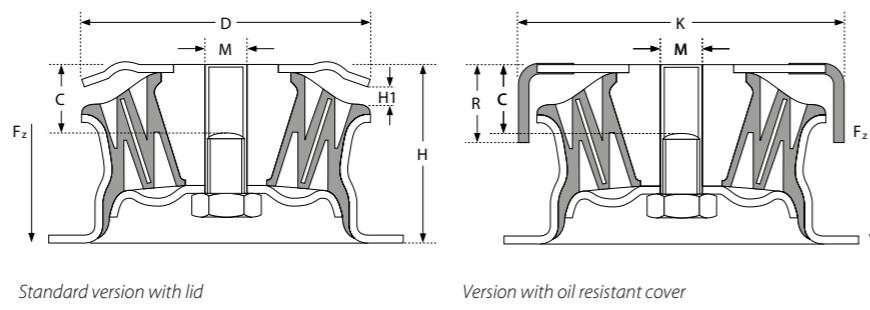
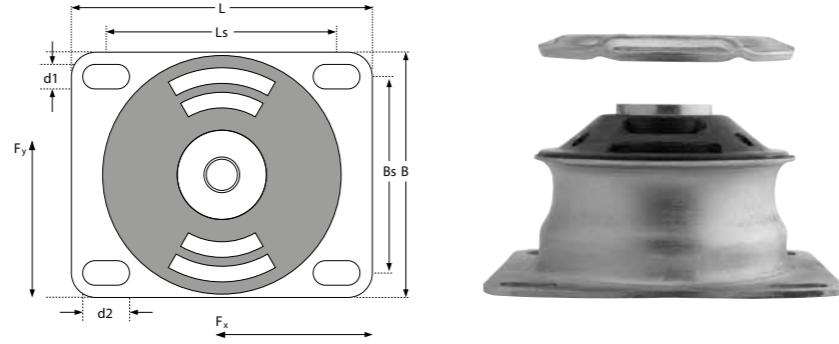
P-Bearings

Machine mounts high elastic

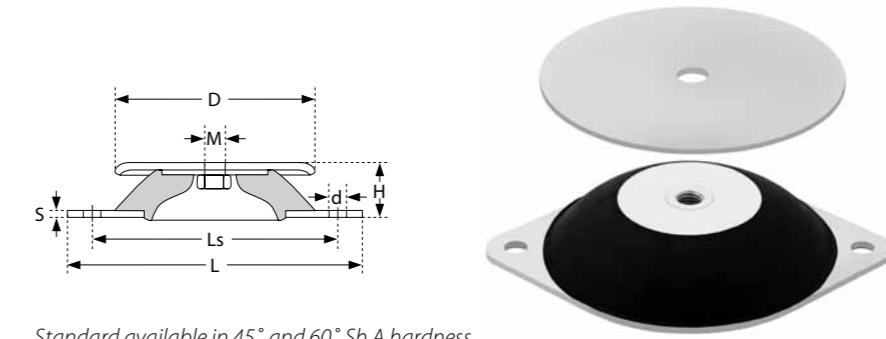
incl. cover

Art.Code	L (mm)	B (mm)	H (mm)	H1 (mm)	M (mm)	C (mm)	D (mm)	d1 (mm)	d2 (mm)
742034S740	135	110	68	5,5	16x1,5	26	102	11	21
742034S750	135	110	68	5,5	16x1,5	26	102	11	21
742034S760	135	110	68	5,5	16x1,5	26	102	11	21
742034S770	135	110	68	5,5	16x1,5	26	102	11	21
36120313	Oil resistant cover								

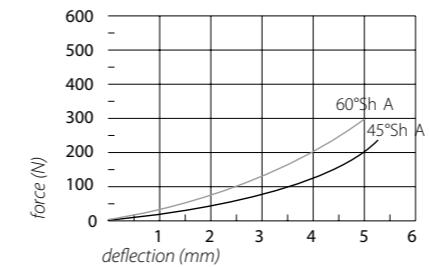
- L = length
- Ls = spacing mounting holes
- K = diameter lid
- D = diameter
- H = height
- B = width
- M = screw thread
- d1 = bore diameter width
- d2 = bore diameter length



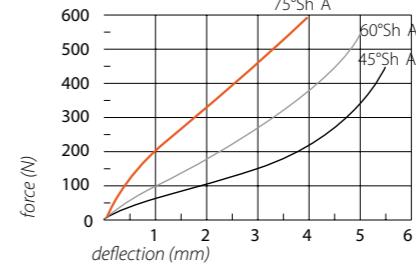
Art.Code	D (mm)	H (mm)	M (mm)	Ls (mm)	d (mm)	L (mm)	S (mm)
EST40	40	20	M6i	52	6,2	65	3
EST60	60	24	M6i	76	6,2	90	3
EST80	80	27	M8i	100	8,2	120	3
EST100	100	28	M10i	124	10,2	148	3
EST150	150	39	M14i	182	12,2	214	4
EST200	200	44	M18i	240	14,5	280	4



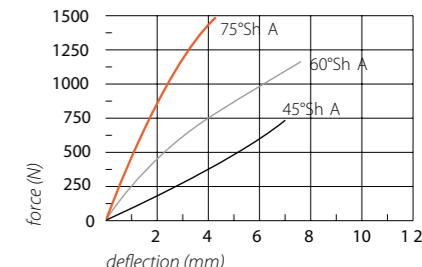
EST40



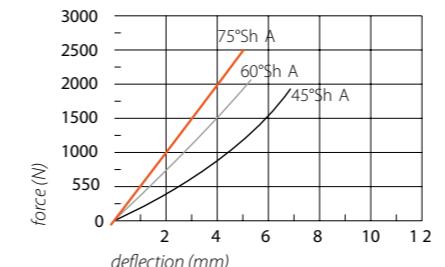
EST60



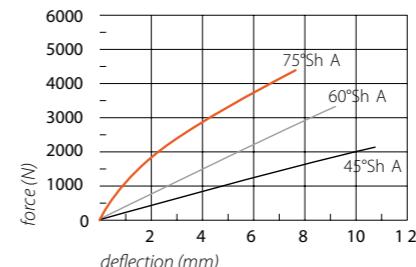
EST80



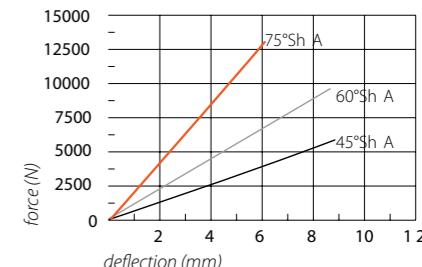
EST100



EST150



EST200



Machine mounts height adjustable

type GMT

Art.Code	D (mm)	H min-max (mm)	M (mm)	L (mm)
60050017	50	21 - 27	M10 x 1,0	60
60075016	75	25 - 31,5	M12 x 1,25	80
60100015	100	35 - 41,5	M16 x 1,5	100
60150014	150	45 - 52,5	M20 x 1,5	120
60200039	200	45 - 53	M20 x 1,5	120
60250040	250	50 - 58	M24 x 1,5	200

Version: height adjustable machine mounts

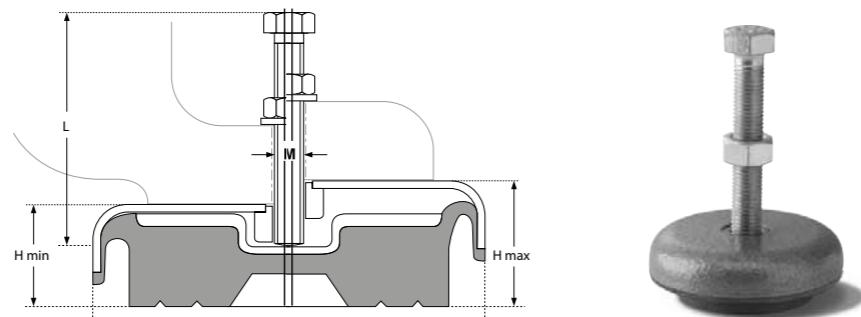
Screw thread: metric fine

H = height (minimal - maximal)

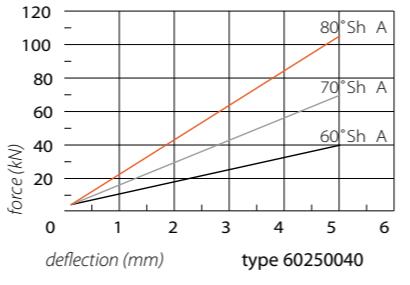
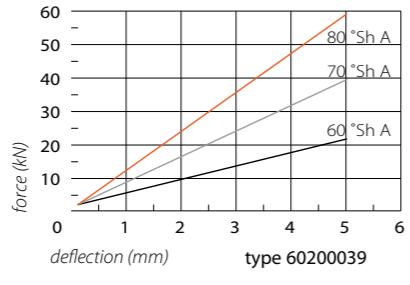
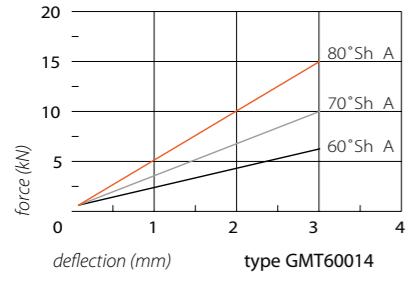
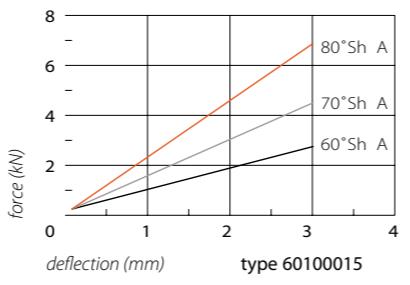
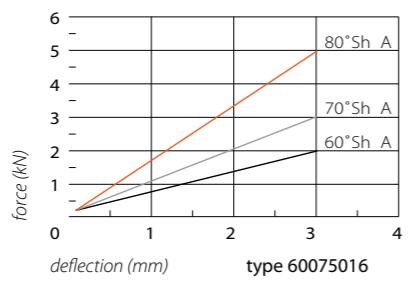
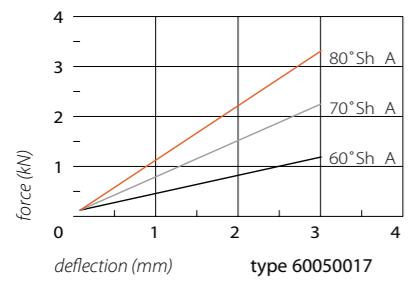
D = diameter

M = screw thread

L = screw length



Technical details height adjustable machine mounts type GMT (metric fine)



Technical details

type GMT

Art.Code	Hardness (Shore A)	Maximum load (N) statically and dynamical	Percussive load (N)		
			200 hits/min.	150 hits/min.	< 100 hits/min.
60050017	60°	1400	...	...	...
	70°	2500	...	...	...
	80°	4000	...	...	...
60075016	60°	2450	440	650	1150
	70°	3300	580	850	1500
	80°	6600	1170	1700	3000
60100015	60°	3550	630	900	1600
	70°	5200	930	1330	2400
	80°	8800	1750	2500	4500
60150014	60°	7050	1300	1800	3250
	70°	8650	1550	2200	4000
	80°	15500	2800	4000	7200
60200039	60°	21500	3200	5300	10000
	70°	34500	5900	8600	15000
	80°	59000	11000	17000	28000
60250040	60°	36500	5250	9000	16000
	70°	47000	8800	12500	23000
	80°	70500	16000	23000	39000

Art.Code.	Hardness (Shore A)	Grinder/ Turning lathe (N)	Milling bench (N)	Rotating grinder (N)	General machine building (N)
60050017	60°	450	650	900	1000
	70°	700	1050	1350	1750
	80°	1100	1650	2350	2900
60075016	60°	630	950	1260	1850
	70°	830	1250	1600	2450
	80°	1570	2500	3350	5000
60100015	60°	900	1350	1800	2650
	70°	1300	2000	2600	3900
	80°	2500	3750	5000	6850
60150014	60°	1800	2700	3600	5300
	70°	2200	3300	4400	6500
	80°	4000	6000	8000	12000
60200039	60°	5000	8000	10000	15500
	70°	8000	12000	17000	24500
	80°	17000	24000	30000	46000
60250040	60°	9000	13000	9000	26500
	70°	12000	18000	12500	37000
	80°	23000	32000	23000	64000

Machine mounts height adjustable

type NM

Art.Code	D (mm)	H min-max (mm)	M (mm)	L (mm)
NM80	80	27 - 35	M10	80
NM100	100	37 - 47	M12	100
NM120	120	37 - 47	M12	120
NM160	160	37 - 47	M16	120
NM185	185	45 - 57	M20	140

Version: height adjustable machine mounts

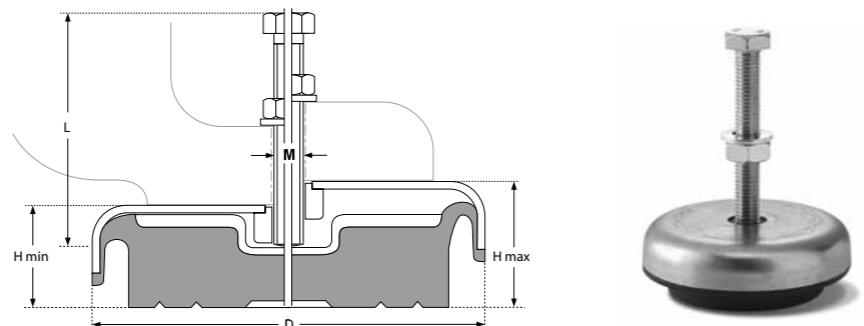
Screw thread: metric fine

H = height (minimal - maximal)

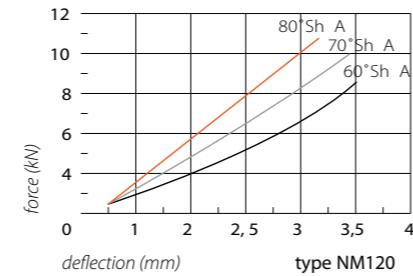
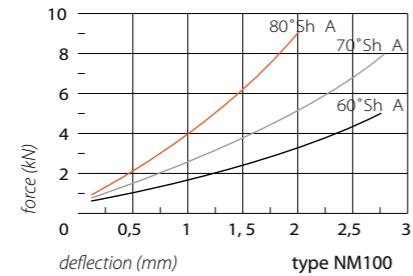
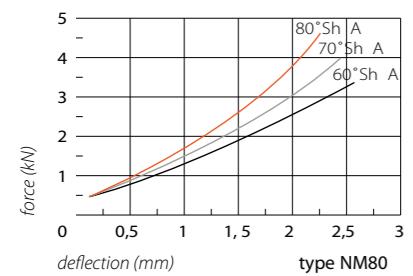
D = diameter

M = screw thread

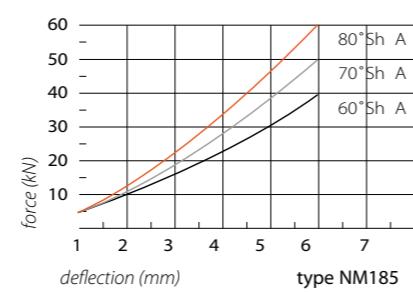
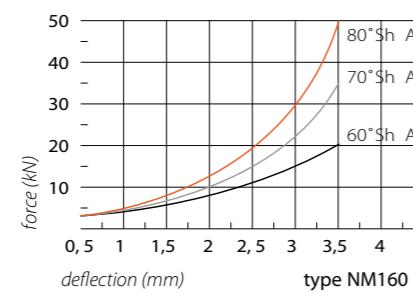
L = screw length



Technical details height adjustable machine mounts type NM



Standard version is zinc coated.
On request available in stainless steel.
70° Shore A: stock keeping unit
60° Shore A: available on request
80° Shore A: available on request



Technical details

type NM

Art.Code	Hardness (Shore A)	Maximum load (N) statically and dynamical	Percussive load (N)		
			200 hits/min.	150 hits/min.	< 100 hits/min.
NM80	60°	3500	450	600	1100
	70°	4000	600	800	1500
	80°	4500	1150	1700	3000
NM100	60°	5000	600	900	1400
	70°	8000	1100	1600	3000
	80°	9000	1500	2200	3500
NM120	60°	9000	1100	1600	2500
	70°	10000	1400	2000	3700
	80°	11000	1800	2600	4200
NM160	60°	30000	1400	1800	3000
	70°	40000	1800	2700	4500
	80°	50000	2000	4000	8000
NM185	60°	50000	2500	6500	15000
	70°	55000	4500	10000	22000
	80°	60000	10000	18000	26000

Art.Code.	Hardness (Shore A)	Grinder/ Turning lath (N)	Milling bench (N)	Rotating grinder (N)	General machine building (N)
NM80	60°	600	900	1300	1500
	70°	800	1200	2000	2000
	80°	1600	2500	3000	3000
NM100	60°	900	1200	1700	2200
	70°	1600	2400	3100	4000
	80°	2200	3000	4000	5000
NM120	60°	1600	2100	3000	4000
	70°	2000	3000	3900	5000
	80°	2700	3700	5000	6000
NM160	60°	2000	2500	4000	7000
	70°	2500	3500	6000	10000
	80°	3800	5000	9000	15000
NM185	60°	5500	10000	17000	20000
	70°	9000	18000	32000	35000
	80°	16000	20000	40000	40000

Machine mounts height adjustable

type PM

Machine mounts

Art.Code	D (mm)	H min-max (mm)	M (mm)	L (mm)	Lh (mm)	SW (mm)
PM1-80	80	38 - 50	M12 x 1,25	100	70 - 58	8
PM2-120	120	46 - 59	M16 x 1,5	120	85 - 72	9
PM3-160	160	53 - 68	M20 x 1,5	170	130 - 115	12

Version: large range height adjustable machine mounts

Screw thread: metric fine

H = height (minimal – maximal)

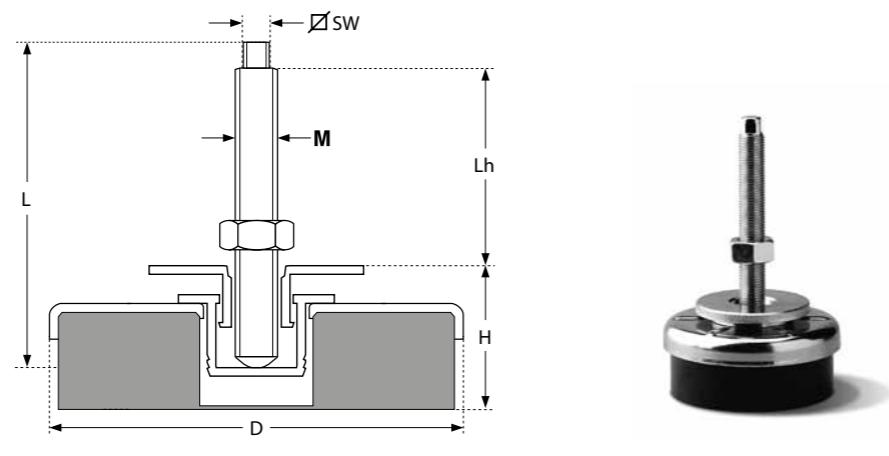
D = diameter

M = screw thread

L = screw length

Lh = effective screw length

SW = wrench width (adjust square)



Technical details height adjustable machine mounts type PM
(extra large height adjustable range)

Art.Code.	Statical load (N)	Percussive load (N)		
		200 hits/min.	160 hits/min.	< 125 hits/min.
PM1-80	6000	1200	1400	2000
PM2-120	15000	2500	3500	4000
PM3-160	30000	7000	10000	25000

Product information

The PM height adjustable machine mounts reduce vibrations, absorb shocks and percussive loads if applied on punching machines, presses, and comparable applications. Horizontal forces are also reduced. The friction between the rubber and floor prevents equipment from movements.

Material

Rubber used is made of CR rubber (Neoprene Cloropreen rubber) with a hardness of 70° Shore A. It is resistant against leach, oil, grease, acids, and water. All metal parts are zinc coated, chrome plated. The screw has an height adjustable square.

Product attributes

PM machine mounts absorb vibrations, percussions, and hits. Installation and height levelling are very easy. Additional anchor bolts are not necessary.

GMT anti vibration rail elements

Available versions

Type A

Upper and lower plates are equal to rubber width



Type F/S

Like type F, but with bevelled rubber side



Type A II

Like type A, but with profiled steel



Type B

Like type A, but steel plates wider than rubber part



Type F

Like type, but with only single sided steel



Type F II

Like type All, but with only single sided profiled steel



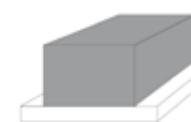
Type F III

Like type FII, but with profiled rubber side



Type D

Like type F, but steel plate wider than rubber part



Type U

According to drawing



Vibration damping rails

GMT rail elements are produced in 2.000 mm lengths. The length needed depends on load and degree of isolation. Installation is easy by applying screw holes in upper and lower plate. GMT rails are used for bedding of heavy duty and extra heavy duty applications such as heavy combustion engines, laths, aggregates,

Material

NR rubber with pre-vulcanized plates (ST37-2) are applied standard. The metal parts are black coated. Rail elements are available in 3 hardness's: 40°, 55°, 70° (+-5°) Shore A. Other rubber qualities like NBR, CR, etc. are available on request.

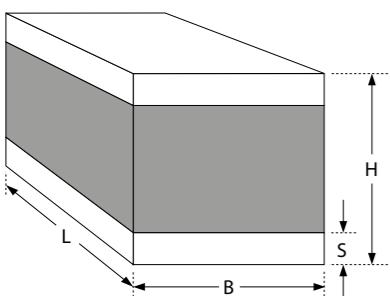
Product attributes

All values mentioned are based on independent products with a length of 100mm.

Vibration damping rail elements

type A

Art.Code	B (mm)	H (mm)	L (mm)	S (mm)
R2030A	20	30		
R2525A		25		
R2530A	25	30		
R3025A	30	25		
R3030A	30	30		
R4020A		20		
R4035A	40	35		
R4040A		40		
R4045A		45		
R5035A	50	35		
R5040A		40		
R5045A		45		
R5050A		50		
R5055A		55		
R5060A		60		
R5070A		70		
R6030A	60	30		
R6035A		35		
R6040A		40		
R6050A		50		
R6060A		60		
R6080A		80		
R7030A	70	30		
R7040A		40		
R7045A		45		
R7050A		50		
R7055A		55		
R7060A		60		
R7070A		70		
R7080A		80		
R8045A	80	45		
R8060A		60		
R8080A		80		
R9045A	90	44		



Material:
NR (Natural Rubber)

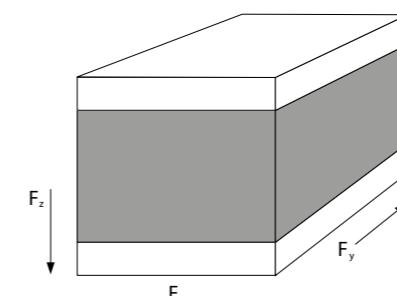
Metal parts:
ST 37-2 coated black

B = Width
H = Height
L = Length
S = Steel plate thickness

Technical details

type A

Art.Code	Pressure load					
	40°Sh	55°Sh	70°Sh	40°Sh	55°Sh	70°Sh
R2030A	270	500	820	0,8	1,5	2,5
R2525A	600	1120	1810	1,4	2,5	4,1
R2530A	370	690	1130	1,1	2,1	3,4
R3025A	810	1500	2430	1,8	3,3	5,5
R3030A	490	910	1470	1,5	2,7	4,4
R4020A	3060	5670	9200	4,6	8,5	13,8
R4035A	1310	2420	3920	2,9	5,4	8,8
R4040A	760	1410	2290	2,3	4,2	6,9
R4045A	520	960	1560	1,9	3,6	5,9
R5035A	1910	3540	5740	4,3	7,9	12,9
R5040A	1080	2000	3550	3,2	6,0	9,7
R5045A	720	1340	2170	2,7	5,0	8,1
R5050A	530	980	1600	2,4	4,4	7,2
R5055A	420	770	1250	2,2	4,1	6,6
R5060A	340	630	1020	2,0	3,8	6,1
R5070A	250	460	740	1,9	3,4	5,6
R6030A	6570	12160	19730	9,8	18,2	29,6
R6035A	2610	4840	7850	5,9	10,9	17,7
R6040A	1450	2680	4350	4,3	8,0	13,0
R6050A	690	1280	2070	3,1	5,8	9,3
R6060A	430	800	1300	2,6	4,8	7,8
R6080A	240	450	730	2,2	4,0	6,5
R7030A	8750	16200	26290	13,1	24,3	39,4
R7040A	1850	3430	5560	5,6	10,3	16,7
R7045A	1200	2220	3600	4,5	8,3	13,5
R7050A	860	1600	2590	3,9	7,2	11,7
R7055A	660	1230	1990	3,5	6,4	10,5
R7060A	530	990	1600	3,2	5,9	9,6
R7070A	380	700	1140	2,8	5,3	8,5
R7080A	290	540	880	2,6	4,8	7,9
R8045A	1470	2720	4410	5,5	10,2	16,5
R8060A	640	1180	1920	3,8	7,1	11,5
R8080A	340	640	1030	3,1	5,7	9,3
R9045A	1900	3520	5710	6,8	12,7	20,6



Cz (N/mm) = stiffness pressure load in N/mm
Fz max. (kN) = maximum pressure load in kN

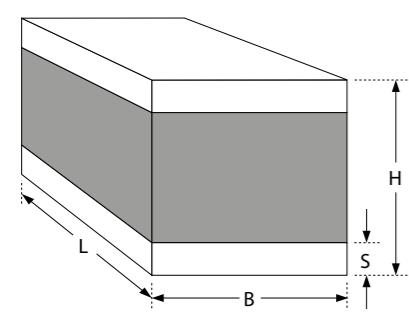
°Sh = Shore A

Remark: Mentioned values are based on
rail length (L) = 100mm

Vibration damping rail elements

type A

Art.Code	B (mm)	H (mm)	L (mm)	S (mm)
R10020A	100	20	2000	5
R10030A		30		10
R10040A		40		
R10045A		45		
R10050A		50		
R10055A		55		
R10060A		60		
R10065A		65		
R10070A		70		
R10080A		80		
R12045A	120	45	2000	
R12050A		50		
R12060A		60		
R12070A		70		
R12080A		80		
R15050A	150	50	2000	
R15060A		60		
R15065A		65		
R15070A		70		
R15080A		80		
R150100A	200	100	2000	
R20080A		80		
R200100A		100		
R250100A	250	100	15	
R300100A	300	100		
R400100A	400	100		



Material:
NR (Natural Rubber)

Metal parts:
ST37-2 coated black

B = Width
H = Height
L = Length
S = Steel plate thickness

Technical details

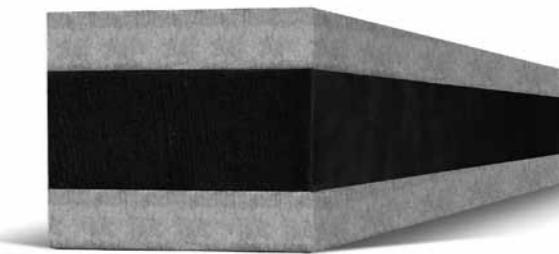
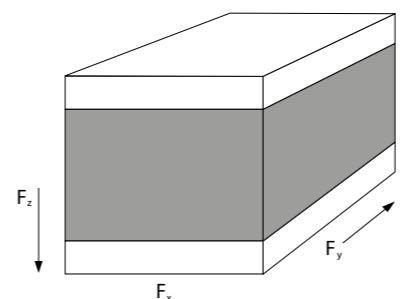
type A

Art.Code	Pressure load					
	40°Sh	55°Sh	70°Sh	40°Sh	55°Sh	70°Sh
R10020A	16700	30920	50180	25,0	46,4	75,3
R10030A	16700	30920	50180	25,0	46,4	75,3
R10040A	3260	6040	9810	9,8	18,1	29,4
R10045A	6220	11510	18680	14,0	25,9	42,0
R10050A	3260	6040	9810	9,8	18,1	29,4
R10055A	2050	3810	6180	7,7	14,3	23,2
R10060A	1440	2670	4340	6,5	12,0	19,5
R10065A	1090	2120	3270	5,7	10,6	17,2
R10070A	860	1600	2590	5,2	9,6	15,6
R10080A	600	1110	1800	4,5	8,3	13,5
R12045A	8390	15540	25210	18,9	35,0	56,7
R12050A	4340	8040	13040	13,0	24,1	39,1
R12060A	1870	3470	5630	8,4	15,6	25,3
R12070A	1100	2040	3310	6,6	12,3	19,9
R12080A	760	1400	2280	5,6	10,5	17,1
R15050A	6100	11300	18330	18,3	33,9	55,0
R15060A	2570	4760	7720	11,6	21,4	34,7
R15065A	1900	3520	5710	10,0	18,5	30,0
R15070A	1480	2750	4460	8,9	16,5	26,8
R15080A	1010	1860	3030	7,6	14,0	22,7
R150100A	590	1100	1780	6,2	11,5	18,7
R20080A	1450	2680	4350	10,8	20,1	32,6
R200100A	830	1540	2500	8,7	16,2	26,3
R250100A	1080	2000	3250	11,4	21,1	34,2
R300100A	1340	2480	4020	14,0	26,0	42,2
R400100A	1860	3440	5580	19,5	36,1	58,6

Cz (N/mm) = stiffness pressure load in N/mm
Fz max. (kN) = maximum pressure load in kN

°Sh = Shore A

Remark: Mentioned values are based on rail length (L) = 100mm

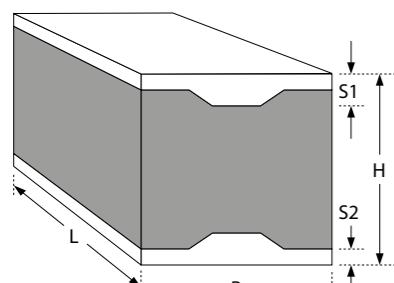


Vibration damping rail elements

type A II

Rail elements

Art.Code	B (mm)	H (mm)	L (mm)	S1 (mm)	S2 (mm)	
R5035A2	50	35	2000	10	5	
R5040A2		40				
R5045A2		45				
R5050A2h		50				
R5055A2		55				
R5060A2		60				
R5070A2		70				
R6035A2	60	35	2000	11	5	
R6060A2		60				
R7030A2	70	30		12		
R7045A2		45				
R7055A2		55				
R7060A2		60				
R7070A2		70				
R7080A2		80				
R10040A2	100	40	2000	15	5	
R10045A2		45				
R10050A2		50				
R10055A2		55				
R10060A2		60				
R10070A2		70				
R10080A2		80				



Material:
NR (Natural Rubber)

Metal parts:
ST 37-2 coated black

$^{\circ}Sh$ = Shore A

B = Width

H = Height

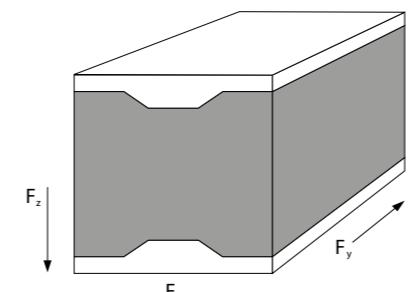
L = Length

S = Steel plate thickness

Technical details

type A II

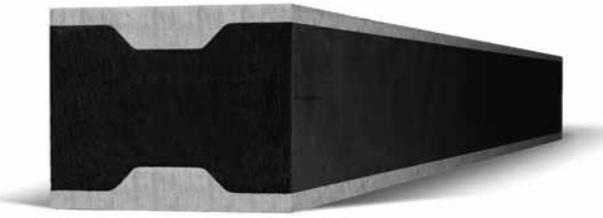
Art.Code	Pressure load					
	40°Sh	55°Sh	70°Sh	40°Sh	55°Sh	70°Sh
R5035A2	840	1550	2520	2,9	5,3	8,7
R5040A2	600	1100	1790	2,5	4,6	7,5
R5045A2	460	850	1370	2,3	4,2	6,8
R5050A2	370	680	1100	2,1	3,9	6,2
R5055A2	310	570	920	2,0	3,7	5,9
R5060A2	260	480	790	1,9	3,5	5,7
R5070A2	200	370	610	1,8	3,3	5,3
R6035A2	1200	2230	3620	4,0	7,4	11,9
R6060A2	340	630	1020	2,4	4,4	7,2
R7030A2	2950	5470	8880	7,1	13,1	21,3
R7045A2	810	1510	2450	3,7	7,0	11,4
R7055A2	510	950	1540	3,2	5,8	9,5
R7060A2	430	790	1290	3,0	5,5	8,9
R7070A2	320	600	970	2,7	5,0	8,1
R7080A2	260	470	770	2,5	4,7	7,6
R10040A2	2670	4940	8020	8,8	16,3	26,5
R10045A2	1760	3270	5300	7,1	13,2	21,5
R10050A2	1280	2370	3850	6,1	11,4	18,5
R10055A2	990	1830	2970	5,5	10,1	16,5
R10060A2	790	1470	2390	5,0	9,3	15,1
R10070A2	560	1040	1690	4,4	8,1	13,2
R10080A2	430	800	1300	4,0	7,4	12,1



Cz (N/mm) = stiffness pressure load in N/mm
 Fz max. (kN) = maximum pressure load in kN

$^{\circ}Sh$ = Shore A

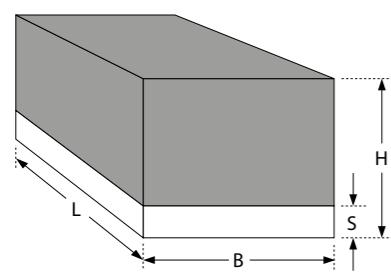
Remark: Mentioned values are based on rail length (L) = 100mm



Vibration damping rail elements

type F

Art.Code	B (mm)	H (mm)	L (mm)	S (mm)	
R2030F	20	30	2000	5	
R2525F	25	25			
R2530F		30			
R3025F	30	25		10	
R3030F		30			
R4020F	40	20		5	
R4035F		35			
R4040F		40			
R4045F		45			
R5035F	50	35	2000		
R5040F		40			
R5045F		45			
R5050F		50			
R5055F		55			
R5060F		60			
R5070F		70			
R6030F	60	30			
R6035F		35			
R6040F		40			
R6050F		50			
R6060F		60			
R6080F		80			
R7030F	70	30	2000	10	
R7040F		40			
R7045F		45			
R7050F		50			
R7055F		55			
R7060F		60			
R7070F		70			
R7080F		80			
R8045F	80	45			
R8060F		60			
R8080F		80			
R9045F	90	45			



Material:
NR (Natural Rubber)

Metal parts:
ST 37-2 coated black

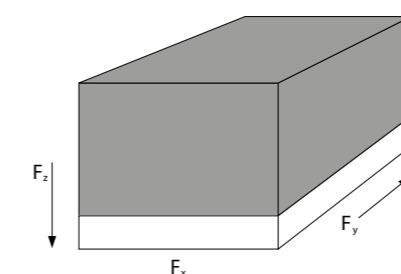
$^{\circ}Sh$ = Shore A

B = Width
H = Height
L = Length
S = Steel plate thickness

Technical details

type F

Art.Code	Pressure load					
	40°Sh	Cz (N/mm) 55°Sh	70°Sh	40°Sh	Fz max. (kN) 55°Sh	70°Sh
R2030F	200	370	590	0,7	1,4	2,2
R2525F	370	690	1130	1,1	2,1	3,4
R2530F	270	490	800	1,0	1,9	3,0
R3025F	810	1500	2430	1,8	3,4	5,5
R3030F	490	910	1470	1,5	2,7	4,4
R4020F	1310	2420	3920	2,9	5,4	8,8
R4035F	520	960	1560	2,0	3,6	5,9
R4040F	390	720	1170	1,8	3,2	5,3
R4045F	310	570	930	1,6	3,0	4,8
R5035F	720	1340	2170	2,7	5,0	8,1
R5040F	530	980	1600	2,4	4,4	7,2
R5045F	420	770	1250	2,2	4,0	6,6
R5050F	340	630	1020	2,0	3,8	6,1
R5055F	270	530	860	1,9	3,6	5,8
R5060F	250	460	740	1,9	3,4	5,6
R5070F	190	360	580	1,7	3,2	5,2
R6030F	1450	2680	4350	4,3	8,0	13,0
R6035F	950	1760	2860	3,6	6,6	10,7
R6040F	690	1280	2070	3,1	5,8	9,3
R6050F	430	800	1300	2,6	4,9	7,8
R6060F	310	580	940	2,3	4,3	7,0
R6080F	200	360	590	2,0	3,8	6,2
R7030F	1850	3430	5560	5,6	10,3	16,7
R7040F	860	1600	2590	3,9	7,2	11,7
R7045F	660	1230	1990	3,4	6,4	10,5
R7050F	530	990	1600	3,2	5,9	9,6
R7055F	440	820	1330	3,0	5,6	9,0
R7060F	380	700	1140	2,8	5,3	8,5
R7070F	290	540	880	2,6	4,9	7,9
R7080F	240	440	710	2,5	4,6	10,5
R8045F	800	1480	2400	4,2	7,8	12,6
R8060F	450	830	1350	3,4	6,2	10,1
R8080F	280	510	830	2,9	5,4	8,8
R9045F	940	1740	2820	4,9	9,1	14,8



Cz (N/mm) = stiffness pressure load in N/mm
Fz max. (kN) = maximum pressure load in kN

$^{\circ}Sh$ = Shore A

Remark: Mentioned values are based on rail length (L) = 100mm

Vibration damping rail elements

type F

type F

Art.Code	B (mm)	H (mm)	L (mm)	S (mm)
R10020F	100	20	2000	5
R10030F		30		10
R10040F		40		
R10045F		45		
R10050F		50		
R10055F		55		
R10060F		60		
R10065F		65		
R10070F		70		
R10080F		80		
R12045F	120	45	2000	
R12050F		50		
R12060F		60		
R12070F		70		
R12080F		80		
R15050F	150	50	2000	
R15060F		60		
R15065F		65		
R15070F		70		
R15080F		80		
R150100F	200	100	2000	
R20080F		80		
R200100F		100		
R250100F	250	100	15	
R300100F	300	100		
R400100F	400	100		

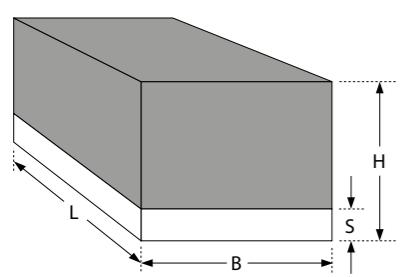
Rail elements

Technical details

type F

Art.Code	Pressure load					
	40°Sh	55°Sh	70°Sh	40°Sh	55°Sh	70°Sh
R10020F	6220	11510	18680	14,0	25,9	42,0
R10030F	6220	11510	18680	14,0	25,9	42,0
R10040F	2050	3810	6180	7,7	14,3	23,2
R10045F	1440	2670	4340	6,5	12,0	19,5
R10050F	1090	2020	3270	5,7	10,6	17,2
R10055F	860	1600	2590	5,2	9,6	15,6
R10060F	710	1310	2130	4,8	8,9	14,4
R10065F	600	1110	1800	4,5	8,3	13,5
R10070F	520	960	1550	4,3	7,9	12,8
R10080F	400	750	1210	3,9	7,3	11,8
R12045F	1870	3470	5630	8,4	15,6	25,3
R12050F	1400	2590	4210	7,4	13,6	22,1
R12060F	900	1670	2710	6,1	11,3	18,3
R12070F	650	1200	1960	5,4	9,9	16,1
R12080F	500	930	1520	4,9	9,1	14,8
R15050F	1900	3520	5720	10,0	18,5	30,0
R15060F	1200	2230	3620	8,1	15,1	24,4
R15065F	1010	1860	3030	7,6	14,0	22,7
R15070F	860	1590	2590	7,1	13,2	21,3
R15080F	660	1230	1990	6,5	12,0	19,4
R150100F	450	830	1340	5,7	10,5	17,1
R20080F	940	1730	2810	9,1	16,9	27,4
R200100F	620	1150	1870	7,9	14,7	23,9
R250100F	800	1490	2420	10,3	19,0	30,8
R300100F	990	1830	2970	12,6	23,3	37,9
R400100F	1360	2520	4100	17,4	32,2	52,3

Rail elements



Material:
NR (Natural Rubber)

Metal parts:
ST37-2 coated black

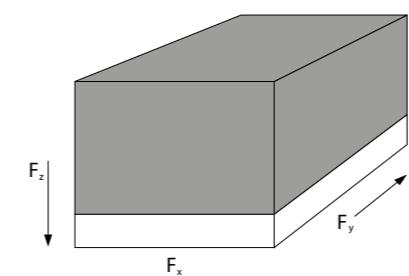
°Sh = Shore A

B = Width

H = Height

L = Length

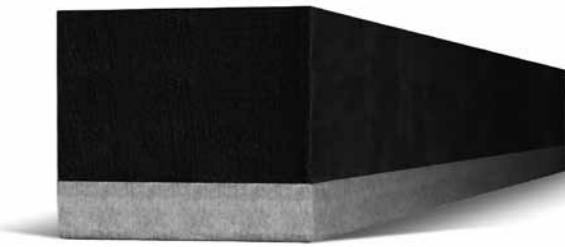
S = Steel plate thickness



Cz (N/mm) = stiffness pressure load in N/mm
Fz max. (kN) = maximum pressure load in kN

°Sh = Shore A

Remark: Mentioned values are based on rail length (L) = 100mm

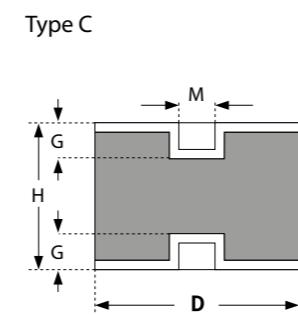
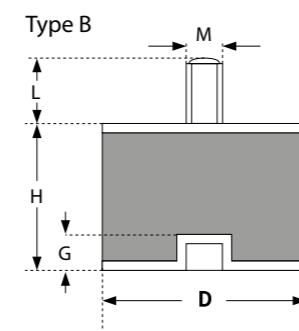
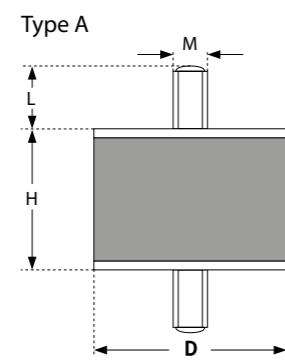


Cylindrical dampers

type A, B en C

Art.Code	D (mm)	H (mm)	M (mm)	L Screw length	G (mm)
6 6 A/B	6	6	M3	6	3
6 7 A/B	6	7			
8 6 A/B	8	6			
8 8 A/B/C	8	8			
9 12 A/B/C	9	12			
10 8 A	10	8			
10 10 A/B/C	10	10			
10 15 A/B/C	10	15			
12 24 A/B/C	12	24			
13 26 A/B/C	13	26			
15 6 A/B/C	15	6	M4	10	4
15 8 A	15	8			
15 10 A/B	15	10			
15 15 A/B/C	15	15			
15 20 A/B/C	15	20			
15 28 A/B/C	15	28			
15 30 A/B/C	15	30			
18 8,5 A	18	8,5			
20 10 A	20	10			
20 15 A/B	20	15			
20 20 A/B/C	20	20	M6	8	6
20 25 A/B/C	20	25			
20 30 A/B/C	20	30			
25 10 A	25	10			
25 15 A/B	25	15			
25 20 A/B/C	25	20			
25 25 A/B/C	25	25			
25 30 A/B/C	25	30			
25 20 A	25	20			
30 15 A/B	30	15			
30 20 A/B/C	30	20	M8	23	8
30 25 A/B/C	30	25			
30 30 A/B/C	30	30			

Column L: standard stock keeping items are printed bold, all other sizes are available on request.
Cylindrical dampers (type A/B/C/D/E) are also available in stainless steel (DIN 1.4401 / AISI 316/A4)



D = diameter
H = height
M = screw thread
G = screw depth
L = screw length

Technical details

type A, B en C

			Pressure load						
			s max (mm)	C (N/mm)			F max (N)		
D	H	type	0,9	40°Sh	55°Sh	70°Sh	40°Sh	55°Sh	70°Sh
8	8	A	0,9	21	38	62	19	35	56
		B		24	44	72	21	40	64
	10	A	1,1	25	47	76	29	54	87
		B		27	49	80	30	56	91
10	10	C	1,1	30	56	92	35	64	104
		A/B/C		13	24	40	25	46	75
	15	A	1,9	6	0,5	262	486	788	142
		B		8	0,8	114	212	344	96
15	10	A	1,1	10	69	128	208	79	146
		B		15	80	147	239	91	168
	15	A	1,9	15	33	62	100	63	116
		B		20	35	65	105	66	122
20	15	C	1,9	25	37	68	110	69	128
		A/B	2,6	20	22	40	65	57	106
	20	C		25	24	44	72	63	116
		A/B/C		30	16	30	48	54	100
25	10	A	3,4	10	17	31	50	57	105
		B		15	22	40	65	57	106
	20	A/B/C	4,1	25	24	44	72	63	116
		A		30	13	23	38	52	97
30	15	A	0,9	18	8,5	163	302	490	149
		B		20	10	227	420	681	204
	20	A	1,7	25	15	81	150	244	134
		B		25	17	93	173	281	154
35	20	A/B/C	2,4	20	47	88	143	114	211
		A		25	33	61	100	104	194
	25	C	3,2	25	35	65	105	110	203
		A/B		30	25	47	76	99	184
40	10	A	0,9	30	10	438	812	1317	394
		B		35	144	268	434	238	442
	15	A	1,7	35	173	321	521	286	530
		B		40	81	150	244	195	360
45	20	A	2,4	40	85	158	256	204	378
		B		45	89	165	268	214	396
	25	C	3,2	45	55	103	167	175	324
		A/B		50	58	108	175	183	340
50	30	A/B/C	3,9	50	42	78	126	164	303
		A		55	44	82	132	172	318
	35	C	3,9	55	236	437	710	390	722
		B		60	295	547	887	487	902
55	20	A	2,4	60	128	237	384	306	568
		B		65	147	272	442	352	653
	25	C	3,2	65	160	296	480	383	710
		A/B		70	86	158	257	270	499
60	30	A/B/C	3,9	70	94	174	283	296	549
		A		75	107	198	322	337	624
	35	C	3,9	75	64	118	192	249	461
		B		80	70	130	211	274	507
65	40	A/B/C	3,9	80</					

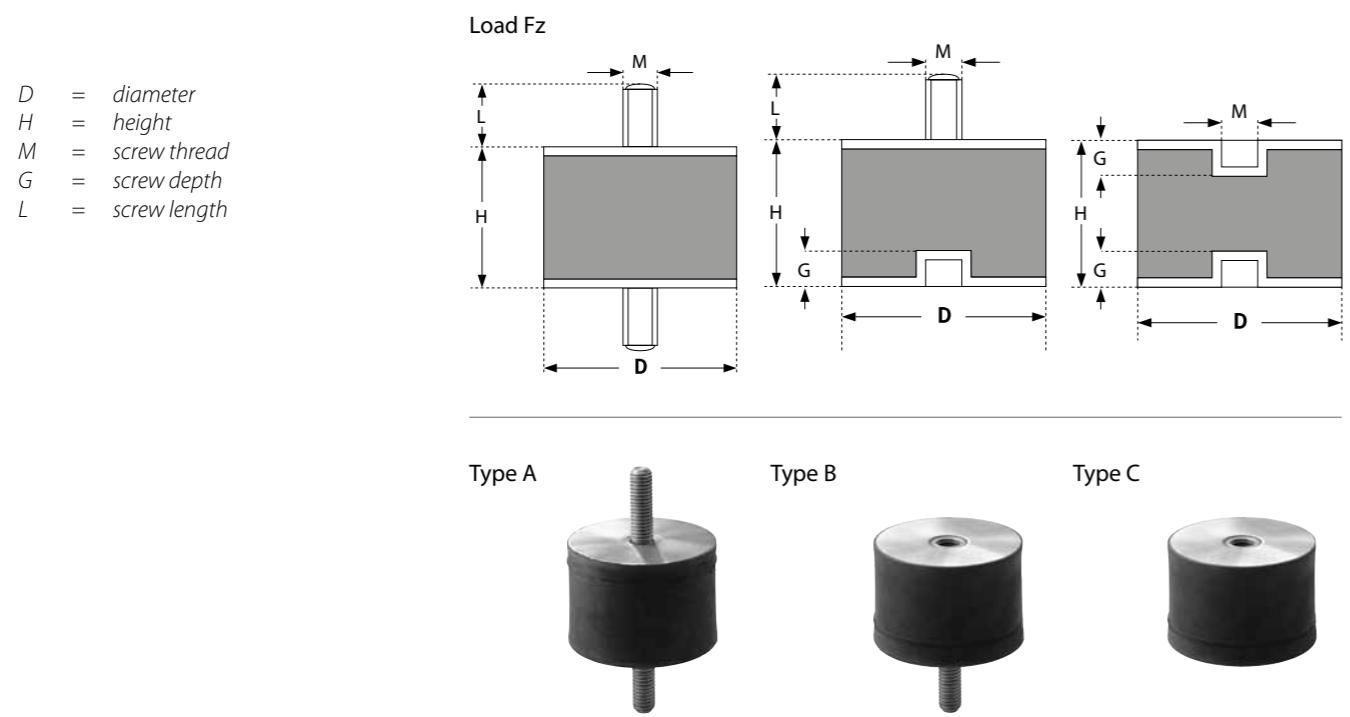
Cylindrical dampers

type A, B en C

Art.Code	D (mm)	H (mm)	M (mm)	L Screw length	G (mm)
30 40 A/B/C	30	40	M8	8 10 13 16 18 20 23 27	8
30 50 A/B/C	30	50		8 10 13 16 18 20 23 27	
40 20 A/B	40	20		13 16 23 28	
40 30 A/B/C	40	30		28	
40 40 A/B/C	40	40		15 20 28 33	
40 66 A/B/C	40	66		15 20 28 33	
40 30 A	40	30		15 20 28 33	
50 20 A/B	50	20		15 20 28 33	
50 25 A/B	50	25		15 20 28 33	
50 30 A/B/C	50	30		15 20 28 33	
50 35 A/B/C	50	35	M10	15 20 28 33	10
50 40 A/B/C	50	40		15 20 28 33	
50 45 A/B/C	50	45		15 20 28 33	
50 50 A/B/C	50	50		15 20 28 33	
50 55 A/B/C	50	55		15 20 28 33	
50 25 A	50	25		15 20 28 33	
50 30 A	50	30		15 20 28 33	
60 35 A/B/C	60	35		15 20 28 33	
60 40 A/B/C	60	40		15 20 28 33	
60 45 A/B/C	60	45		15 20 28 33	
70 35 A/B/C	70	35	M12	25 30	12
70 45 A/B/C	70	45		30	
75 25 A/B	75	25		27 37	
75 40 A/B/C	75	40		27 37	
75 45 A/B/C	75	45		27 37	

Column L: standard stock keeping items are printed bold, all other sizes are available on request.

Cylindrical dampers (type A/B/C/D/E) are also available in stainless steel (DIN 1.4401 / AISI 316/A4)



Technical details

type A, B en C

			Pressure load						
			s max (mm)	C (N/mm)			F max (N)		
D	H	type		40°Sh	55°Sh	70°Sh	40°Sh	55°Sh	70°Sh
30	40	A/B/C	5,4	42	78	127	227	421	683
		A/B/C	6,9	31	58	94	216	400	649
	20	A	2,4	271	502	815	650	1204	1955
		B		312	577	937	748	1385	2248
	30	A	3,9	127	235	381	495	916	1487
		B		133	247	400	519	962	1561
	40	A	5,4	139	258	419	544	1008	1635
		B		81	150	243	437	810	1314
	66	A/B/C	9,3	89	165	268	481	891	1446
		C		85	157	256	459	850	1380
40	20	A/B/C	2,1	41	76	124	383	710	1152
		B		646	1196	1942	1356	2512	4078
	25	A	2,9	807	1495	2427	1695	3140	5097
		B		370	685	1112	1054	1952	3169
	30	A	3,6	444	822	1334	1265	2343	3803
		B		251	465	755	904	1674	2716
	40	A/B	5,1	289	535	868	1039	1925	3124
		C		301	558	905	1084	2008	3260
	45	A/B	5,9	149	275	447	758	1403	2278
		C		156	289	469	796	1474	2392
50	25	A/B/C	6,6	123	227	369	718	1329	2157
		B		129	239	387	753	1396	2265
	40	A/B/C	7,4	104	193	313	688	1275	2069
		C		91	168	272	666	1233	2001
	55	A/B/C	4,4	298	552	896	1296	2400	3896
		B		343	635	1030	1490	2760	4480
	60	C		257	662	1075	1555	2880	4675
		A	5,1	233	431	700	1188	2200	3570
	40	B		256	474	770	1306	2420	3928
		C		268	496	805	1366	2530	4106
70	45	A/B	5,9	190	352	572	1113	2061	3345
		C		200	370	600	1168	2164	3512
	35	A	4,4	447	828	1344	1944	3602	5846
		B		469	869	1411	2042	3782	6138
	45	C	5,9	492	911	1478	2139	3962	6431
75	45	A/B	5,9	279	516	838	1631	3020	4902
		C		293	542	880	1712	3171	5147
	25	A	2,9	1178	2183	3543	3358	6221	10097
		B		1414	2619	4251	4030	7465	12117
	40	A	5,1	413	765	1241	2105	3899	6329
		B		433	803	1303	2210	4094	6645
	45	C	5,9	454	841	1365	2316	4289	6962
		A		332	615	998	1942	3597	5839
	35	B		349	646	1048	2039	3777	6131
		C		365	676	1098	1236	3957	6423

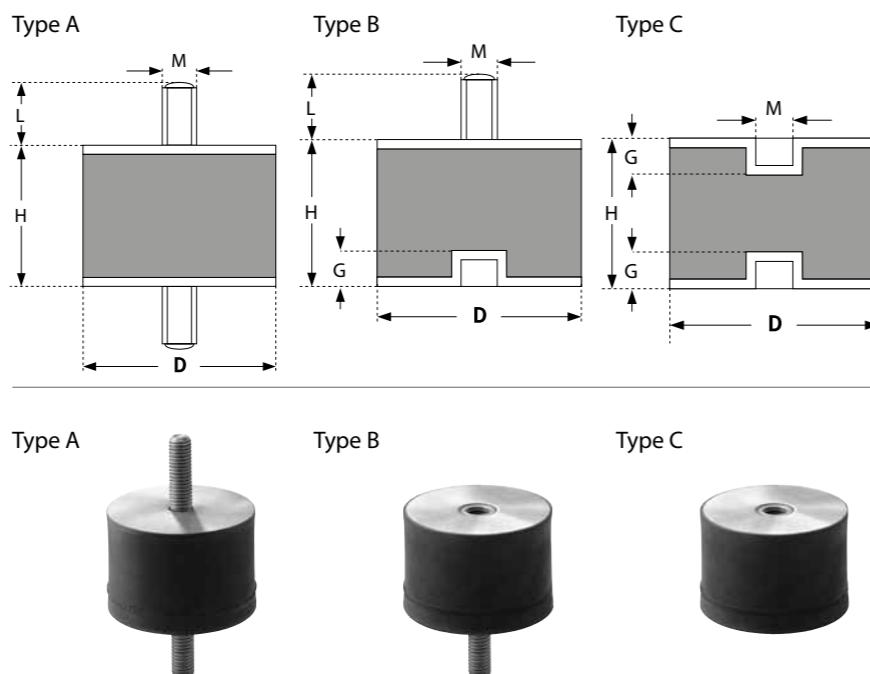
Cylindrical dampers

type A, B en C

Art.Code	D (mm)	H (mm)	M (mm)	L Screw length	G (mm)
75 50 A/B/C	75	50	M12	27 37	12
75 55 A/B/C	75	55		27 37	
75 60 A/B/C	75	60		37	
80 66 A/B/C	80	66		33	14
90 500 A/B/C	90	50		45	
90 55 A/B/C	90	55		45	
100 30 A/B/C	100	30		45	
100 40 A/B/C	100	40		45	
100 50 A/B/C	100	50		45	
100 55 A/B/C	100	55		45	
100 60 A/B/C	100	60	M16	45	16
100 75 A/B/C	100	75		45	
100 100 A/B/C	100	100		45	
125 55 A/B/C	125	55		45	
125 60 A/B/C	125	60		45	
150 55 A/B/C	150	55		45	
150 60 A/B/C	150	60		45	
150 75 A/B/C	150	75		45	
150 100 A/B/C	150	100		45	
160 75 A/B/C	160	75	M16	45	
200 100 A/B/C	200	100	M 16/20	20	

Column L: standard stock keeping items are printed bold, all other sizes are available on request.

Cylindrical dampers (type A/B/C/D/E) are also available in stainless steel (DIN 1.4401 / AISI 316 / A4)



D = diameter
H = height
M = screw thread
G = screw depth
L = screw length

Technical details

type A, B en C

			Pressure load						
			s max (mm)	C (N/mm)			F max (N)		
D	H	type		40°Sh	55°Sh	70°Sh	40°Sh	55°Sh	70°Sh
75	50	A/B	6,6	276	512	831	1824	3378	5483
		C		290	537	872	1915	3547	5758
	55	A/B	7,4	236	437	710	1735	3213	5215
		C		248	459	745	1821	3374	5476
80	60	A/B/C	8,1	206	381	618	1665	3084	5006
	66	A/B/C	9,0	207	384	623	1864	3453	5605
	50	A	6,6	439	813	1319	2896	5364	8707
		B		461	853	1385	3041	5632	9142
	50	C		483	894	1451	3186	5901	9577
90	55	A/B	7,4	371	688	1116	2728	5053	8202
		C		390	722	1172	2864	5306	8612
	30	A	3,3	2095	3880	6297	6912	12803	20781
		B		2723	5044	8187	8986	16644	27016
		C		2828	5238	8501	9331	17285	28055
100	40	A	4,8	1005	1861	3021	4823	8934	14501
		B		1256	2327	3776	6029	11168	18126
		C		1306	2420	3927	6270	11614	18851
	50	A	6,3	624	1156	1876	3932	7284	11820
		B		686	1272	2064	4325	8011	13002
		C		780	1445	2345	4914	9103	14775
125	55	A	7,1	519	962	1561	3660	6780	11004
		B		545	1010	1639	3843	7119	11554
		C		623	1154	1873	4392	8136	13205
	60	A/B	7,8	443	820	1331	3452	6395	10380
		C		487	902	1464	3798	7035	11418
150	75	A/B/C	10,1	303	562	912	3050	5650	9170
	100	A/B/C	13,8	197	364	591	2714	5026	8159
	55	A	6,8	1016	1882	3055	6859	12705	20622
		B		1118	2070	3361	7545	13976	22684
		C		1270	2353	3819	8574	15881	25777
160	60	A	7,5	847	1569	2546	6351	11765	19095
		B		889	1647	2673	6669	12353	20050
		C		1016	1882	3055	7622	14118	22915
	55	A/B	6,8	1699	3148	5109	11470	21246	34484
		C		1784	3305	5364	12043	22308	36209
200	60	A/B	7,5	1399	2593	4206	10493	19437	31548
		C		1469	2721	4417	11018	20408	33125
	75	A/B/C	9,8	889	1646	2672	8666	16051	26053
	100	A/B/C	13,5	535	990	1607	7216	13366	21695
	75	A/B/C	13,5	1056	1956	3175	10295	19069	30952

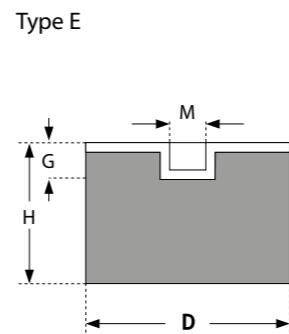
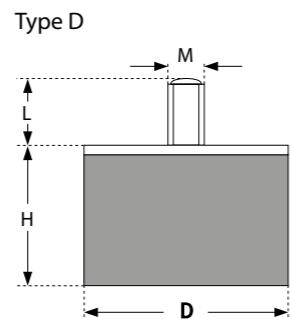
Cylindrical dampers

type D en E

Art.Code	D (mm)	H (mm)	M (mm)	L Screw length	G (mm)
6 6 D/E	6	6			
6 7 D/E	6	7			
7 6 D/E	7	6			
8 8 D/E	8	8			
10 10 D/E	10	10			
10 15 D/E	10	15			
12 8 D	12	8			
12 13 D/E	12	13			
12 13,5 D/E	12	13,5			
13 26 D/E	13	26			
15 6 D	15	6			
15 8 D	15	8			
15 13 D/E	15	13			
15 15 D/E	15	15			
15 18 D/E	15	18			
15 28 D/E	15	28			
18 7,5 D	18	7,5			
20 5 D	20	5			
20 12 D/E	20	12			
20 13,5 D/E	20	13,5			
20 15 D/E	20	15			
20 20 D/E	20	20			
20 23 D/E	20	23			
20 25 D/E	20	25			
25 5 D	25	5			
25 6 D	25	6			
25 8 D	25	8			
25 13 D/E	25	13			
25 15 D/E	25	15			
25 17 D/E	25	17			
25 20 D/E	25	20			
25 25 D/E	25	25			
25 28 D/E	25	28			

Column L: standard stock keeping items are printed bold, all other sizes are available on request.
Cylindrical dampers (type A/B/C/D/E) are also available in stainless steel (DIN 1.4401 / AISI 316/A4)

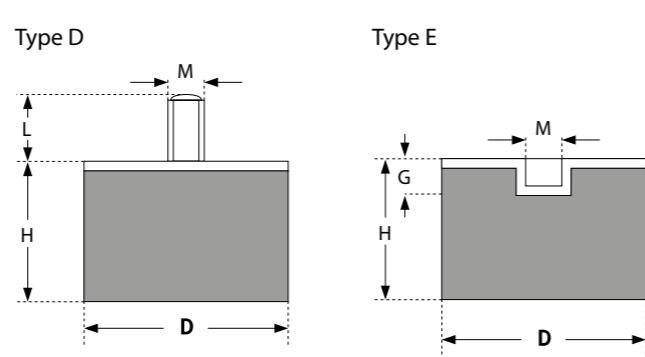
D = diameter
H = height
M = screw thread
G = screw depth
L = screw length



Technical details

type D en E

			Pressure load						
			s max (mm)	C (N/mm)			F max (N)		
D	H	type		40°Sh	55°Sh	70°Sh	40°Sh	55°Sh	70°Sh
6	6	D/E	0,8	13	25	41	10	19	30
	7		0,9	11	20	32	10	18	29
	7		0,8	19	36	58	15	27	44
	8		1,1	17	31	51	18	33	53
	10		1,3	21	39	63	28	51	83
	15		2,1	12	22	36	24	45	74
12	8	D	1,0	47	86	140	48	88	143
	13		1,8	22	40	65	38	71	115
	13,5	D/E	1,8	21	38	62	38	70	114
	26		3,7	11	19	32	39	72	118
15	6	D	0,7	151	279	453	109	201	326
	8		1,0	83	153	248	84	156	253
	13	D/E	1,8	36	67	109	64	119	194
	15		2,1	29	55	89	61	113	184
	18	D/E	2,5	23	42	69	58	107	174
	28		4,0	13	24	39	53	97	158
18	7,5	D	0,9	185	342	555	158	292	474
	5		0,5	980	1818	2945	441	817	1325
	12	D/E	1,5	94	174	283	141	262	425
	13,5		1,7	76	141	228	131	243	394
	15	D/E	2,0	63	117	191	124	229	372
	20		2,7	40	75	122	109	202	329
20	23	D	3,2	33	61	100	104	194	314
	25		3,5	30	55	89	102	189	307
	5	D/E	0,5	2075	3843	6238	934	1729	2807
	12		0,5	1052	1949	3163	631	1169	1898
	13,5	D/E	0,6	438	812	1317	394	730	1186
	15		0,9	144	268	434	238	442	717
25	17	D	2,0	111	205	333	216	400	649
	20		2,3	89	165	268	200	371	603
	25	D/E	2,7	69	127	206	185	343	556
	28		3,5	49	91	148	170	314	510
	5	D/E	3,9	42	78	126	164	303	492
	8		3,9	42	78	126	164	303	492



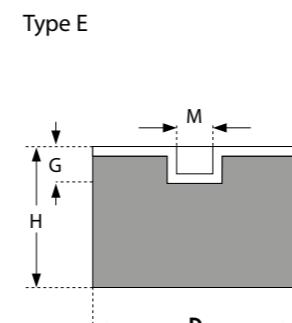
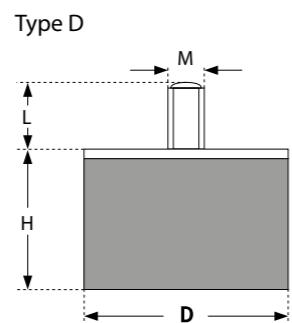
Cylindrical dampers

Art.Code	D (mm)	H (mm)	M (mm)	L Screw length	G (mm)
25,5 19 D	25,5	19	M8	20	8
30 5,5 D	30	5,5		8 10 13 16 18 20 23 27	
30 10 D	30	10		8 10 13 16 18 20 23 27	
30 15 D/E	30	15		8 10 13 16 18 20 23 27	
30 17 D/E	30	17		8 10 13 16 18 20 23 27	
30 20 D/E	30	20		8 10 13 16 18 20 23 27	
30 25 D/E	30	25		8 10 13 16 18 20 23 27	
30 28 D/E	30	28		8 10 13 16 18 20 23 27	
30 30 D/E	30	30		8 10 13 16 18 20 23 27	
30 40 D/E	30	40		8 10 13 16 18 20 23 27	
30 55 D/E	30	55	M10	13 16 23 28	10
40 5 D	40	5		13 16 23 28	
40 6 D	40	6		13 16 23 28	
40 10 D	40	10		25	
40 15 D/E	40	15		15 20 28 33	
40 18 D/E	40	18		15 20 28 33	
40 20 D/E	40	20		15 20 28 33	
40 28 D/E	40	28		15 20 28 33	
40 38 D/E	40	38		15 20 28 33	
40 40 D/E	40	40		15 20 28 33	
40 50 D/E	40	50		15 20 28 33	
40 25 D	40	25	M10	13 16 23 28	10
50 17 D/E	50	17		25	
50 21 D/E	50	21		15 20 28 33	
50 27 E	50	27		15 20 28 33	
50 28 D	50	28		15 20 28 33	
50 36 D/E	50	36		15 20 28 33	
50 42 D/E	50	42		15 20 28 33	
50 45 D/E	50	45		15 20 28 33	

Column L: standard stock keeping items are printed bold, all other sizes are available on request.

Cylindrical dampers (type A/B/C/D/E) are also available in stainless steel (DIN 1.4401 / AISI 316/A4)

D = diameter
H = height
M = screw thread
G = screw depth
L = screw length

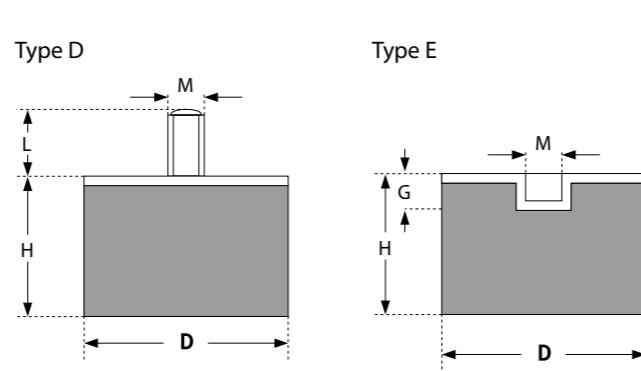


type D en E

Technical details

type D en E

			Pressure load						
			s max (mm)	C (N/mm)			F max (N)		
D	H	type		40°Sh	55°Sh	70°Sh	40°Sh	55°Sh	70°Sh
30	19	D	2,6	78	144	234	199	368	598
	5,5		0,5	2673	4951	8036	1403	2599	4219
	10		1,2	426	789	1281	511	947	1537
	15	D/E	2,0	178	329	535	347	642	1042
	17		2,3	141	261	424	318	588	955
	20		2,7	107	198	321	289	535	868
	25		3,5	75	140	227	260	482	782
	28		3,9	64	118	192	249	461	749
	30		4,2	58	107	174	243	450	731
	40	D	5,7	39	73	118	224	416	675
	55		8,0	27	49	80	211	391	634
	5		0,5	11073	20511	33291	4983	9230	14981
40	6	D	0,6	5237	9701	15747	3142	5821	9448
	10		1,2	1025	1899	3083	1231	2279	3700
	15		2,0	391	723	1174	762	1411	2290
	18	D/E	2,4	271	502	815	650	1204	1955
	20		2,7	223	413	670	601	1114	1808
	28		3,9	127	235	381	495	916	1487
	38		5,4	81	150	243	437	810	1314
	40		5,7	75	140	227	430	796	1293
	50		7,2	56	104	169	404	748	1214
	17	E	2,1	646	1196	1942	1356	2512	4078
	21		2,7	407	753	1222	1098	2033	3300
50	27	D	3,6	251	465	755	904	1674	2716
	28	D	3,8	235	436	707	882	1634	2653
	36	D/E	5,0	155	287	466	767	1422	2307
	42		5,9	123	227	369	718	1329	2157
	45		6,3	111	205	334	699	1295	2101



Cylindrical dampers

Art.Code	D (mm)	H (mm)	M (mm)	L Screw length	G (mm)
70 42 D/E	70	42	M10	25 30	10
70 45 D/E	70	45			
75 15 D	75	15	M12	27 37	12
75 25 D/E	75	25		27 37	
75 36 D/E	75	36		27 37	
75 51 D/E	75	51		27 37	
80 40 D/E	80	40		27 37	
100 35 D/E	100	35	M16	45	16
100 40 D/E	100	40		45	
100 50 D/E	100	50			
100 100 D/E	100	100			
125 38 D/E	125	38	M16/20		45
125 60 D/E	125	60			
150 40 D/E	150	40			
150 45 D/E	150	45			
150 75 D/E	150	75			
160 30 D/E	160	30	M20		20
160 47 D/E	160	47			
200 100 D/E	200	100			
250 48 D/E	250	48			

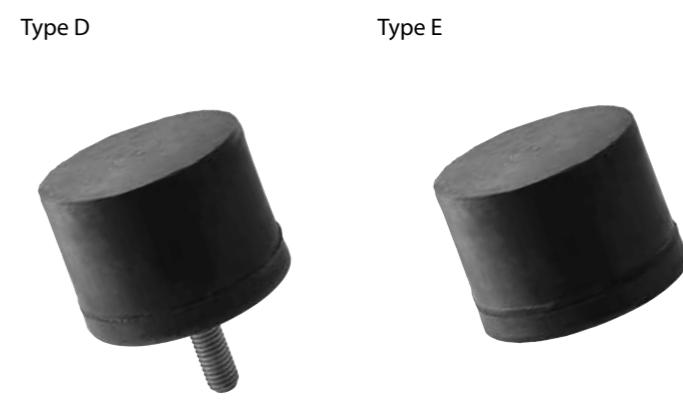
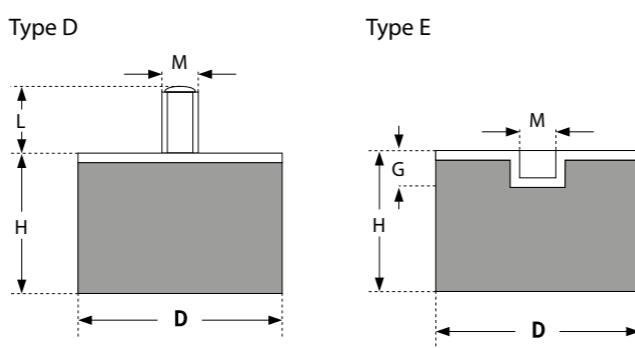
Column L: standard stock keeping items are printed bold, all other sizes are available on request.
Cylindrical dampers (type A/B/C/D/E) are also available in stainless steel (DIN 1.4401 / AISI 316 / A4)

type D en E

Technical details

type D en E

			Pressure load						
			s max (mm)	C (N/mm)			F max (N)		
D	H	type		40°Sh	55°Sh	70°Sh	40°Sh	55°Sh	70°Sh
70	42	D/E	5,9	279	516	838	1631	3020	4902
	45		6,3	249	462	750	1572	2911	4725
75	15	D	1,8	3154	5843	9483	5678	10517	17070
	25		3,3	886	1642	3665	2925	5418	8794
	36		5,0	433	803	1303	2145	3974	6450
	51		7,2	243	450	731	1751	3243	5263
	80		5,6	426	789	1281	2365	4382	7112
100	35	D/E	4,7	1066	1974	3203	4955	9178	14896
	40		5,4	813	1506	2444	4390	8131	13198
	50		6,9	537	996	1616	3708	6869	11150
	100		14,4	186	345	559	2679	4962	8053
	125		5,0	1810	3353	5443	8961	16598	26941
125	38	D/E	8,3	722	1338	2172	5959	11038	17915
	60		5,3	2783	5154	8366	14609	27060	43921
	40		6,0	2130	3945	6404	12779	23671	38421
	45		10,5	788	1459	2368	8271	15320	24866
	75		3,8	7104	13160	21360	26642	49349	80099
150	30	D/E	6,3	2343	4340	7045	14762	27345	44384
	47		200	100	14,3	1021	1891	3069	14547
	100		6,5	8922	16526	26823	57545	106592	173011
	125								
	150								
160	30	D/E							
	47								
	100								
	125								
	150								
200	100	D/E							
	125								
	150								
	175								
	200								
250	48	D/E							
	175								
	200								
	225								
	250								



D = diameter
H = height
M = screw thread
G = screw depth
L = screw length

Cylindrical dampers

type SF

Art.Code	D (mm)	H (mm)	M (mm)	L screw length (mm)
1514SF	15	14	M4	13
2023SF	20	23,5	M6	15
2518SF	25	18,5	M6	18
3028SF	30	28,5	M8	20
4028SF	40	28,5	M8	23
5028SF	50	28	M10	28
7043SF	70	43	M10	30
7537SF	75	37	M12	37
10050SF	100	50	M16	45

Technical details

type SF

			Pressure load						
			s max [mm]	C (N/mm)			F max (N)		
D	H	type		40°Sh	55°Sh	70°Sh	40°Sh	55°Sh	70°Sh
15	14	S/F	3,5	25	51	77	90	180	270
20	23,5		5,0	30	60	90	150	300	450
25	18,5		4,5	66	133	200	300	600	900
30	28,5		8,0	50	100	150	400	800	1200
40	28,5		8,0	87	175	263	700	1400	2100
50	28		8,0	125	250	375	1000	2000	3000
70	43		11,0	181	363	545	2000	4000	6000
75	37		10,0	250	500	750	2500	5000	7500
100	50		12,0	333	666	1000	4000	8000	12000

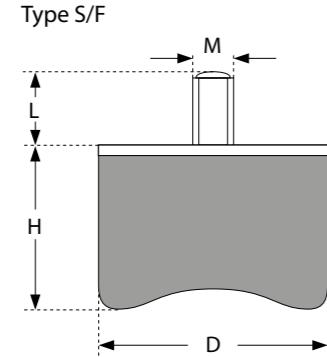
Stock keeping units:

Material: NR (Natural Rubber)

Colour/hardness:

Green = 40° ± 5° Shore A
Red = 55° ± 5° Shore A
Beige = 70° ± 5° Shore A

D = diameter
H = height
M = screw thread
L = screw length



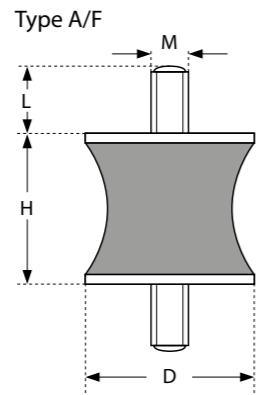
Cylindrical dampers

type A/F

Art.Code	D (mm)	H (mm)	M (mm)	L Screw length (mm)
2015AF	20	15	M6	8 10 12 15 18 20
2019AF	20	19		8 10 12 15 18 20
2040AF	20	40		8 10 12 15 18 20
3020AF	30	20	M8	8 10 13 16 18 20 23 27
4028AF	40	28		13 16 23 25 28
5030AF	50	30	M10	15 20 28 33
5744AF	57	44		15 20 28 33
6060AF	60	60	M10	15 20 25 28 33

Column L: standard stock keeping items are printed bold, all other sizes are available on request.

D = diameter
H = height
M = screw thread
L = screw length

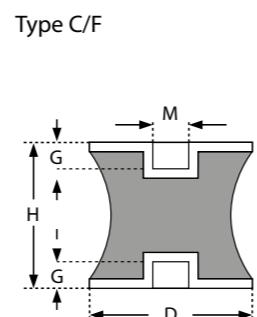
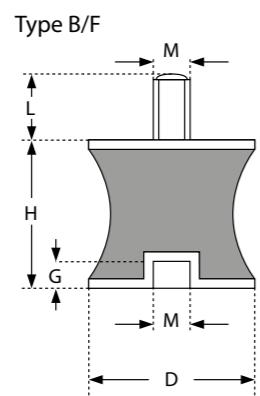


D (mm)	H (mm)	M (mm)	L (mm)	maximal load		
				Vb (N)	Hb (N)	Tb (N)
20	15	6	15	250	6	110
20	19	6		200	45	110
20	40	6	12	-	-	500
30	20	8		360	80	200
50	30	10	28	1100	250	630

Vb (N/mm) = Vertical load in N
Hb (N/mm) = Horizontal load in N
Tb (N/mm) = Tensile load in N
Rubber shore hardness 55° Shore A

Version B/F + C/F available on request

D = diameter
H = height
M = screw thread
G = screw depth
L = screw length



Conical dampers

type K/D

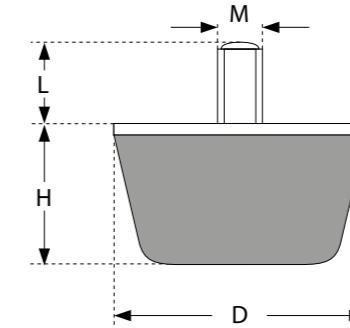
Art.Code	D (mm)	H (mm)	M (mm)	L Screw length (mm)
K2517D	25	17	M6	8 10 12 15 18 20
K4028D	40	28	M8	13 16 23 28
K4053D	40	53	M8	13 16 23 28
K5018D	50	18	M10	15 20 28 33
K5021D	50	21	M10	15 20 28 33
K5022,5D	50	22,5	M10	15 20 28 33
K5030D	50	30	M10	15 20 28 33
K5035D	50	35	M10	15 20 28 33
K5039D	50	39	M10	15 20 28 33
K6022D	60	22	M10	15 20 28 33
K7525D	75	25	M12	27 37
K7528D	75	28	M12	27 37
K8025D	square 80	30	M12	32 37
K8060D	80	60	M12	37
K12545D	125	45	M16	45
K12580D	125	80	M16	45
K12590D	125	90	M16	45

Column L: standard stock keeping items are printed bold, all other sizes are available on request.

Materiaal: NR (Natural Rubber)
Standard available in:

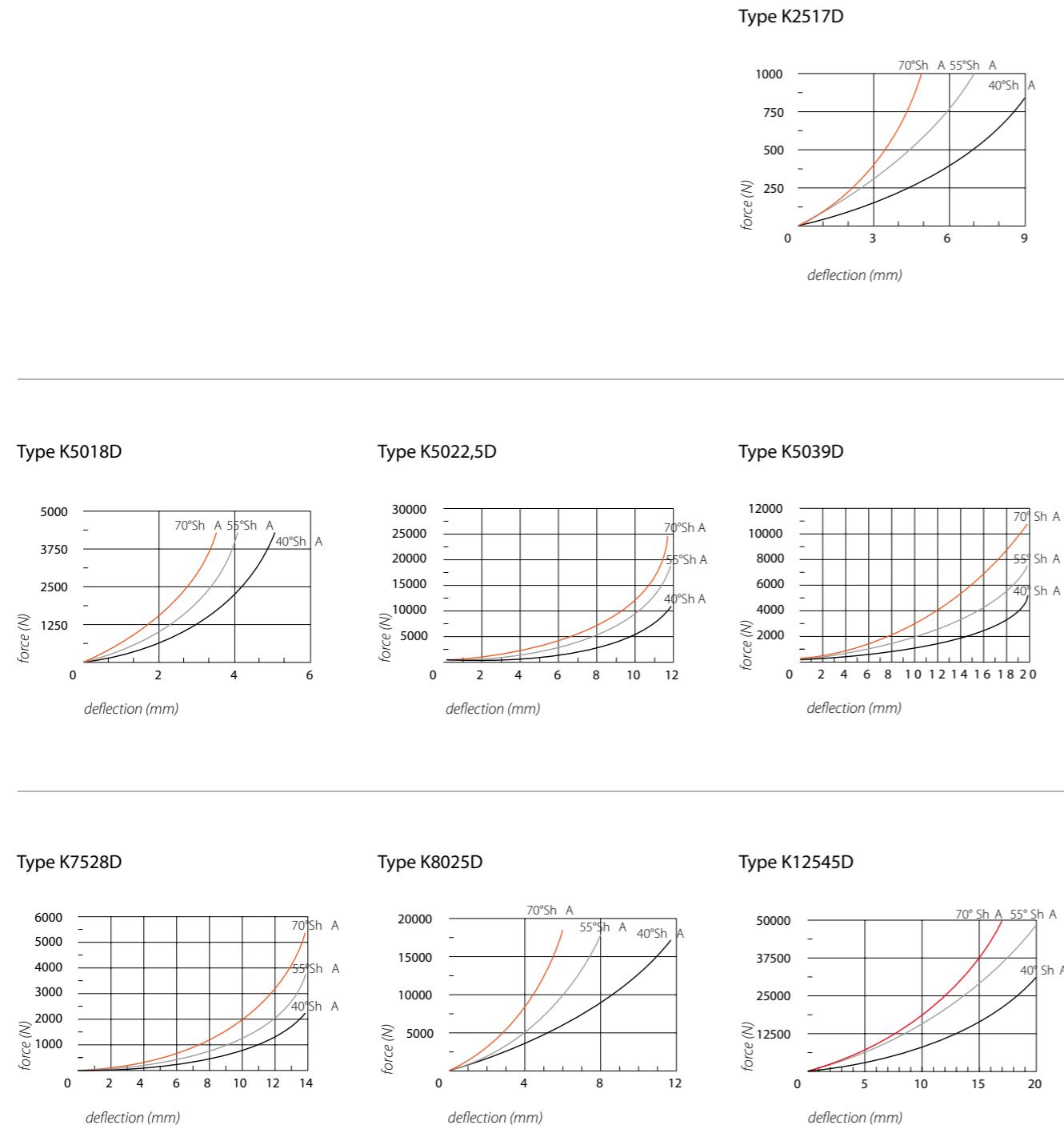
40°±5° Shore A
55°±5° Shore A
70°±5° Shore A

Type K/D



Technical details

Cylindrical dampers



type K/D

Conical dampers

type K/E

Art.Code	D (mm)	H (mm)	M (mm)	G (mm)
K2517E	25	17	M6i	6
K4028E	40	28	M8i	8
K4053E	40	53		8
K5018E	50	18		10
K5021E	50	21		10
K5022,5E	50	22,5		10
K5030E	50	30		10
K5035E	50	35		10
K5039E	50	39		10
K6022E	60	22		10
K7525E	75	25	M10i	12
K7528E	75	28		12
K8025E	square 80	30		12
K8060E	80	60		12
K12545E	125	45	M16i	16
K12580E	125	80		16
K12590E	125	90		16
				16

Column L: standard stock keeping items are printed bold, all other sizes are available on request.

Material: NR (Natural Rubber)

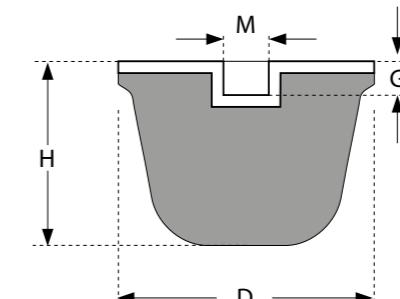
Standard available in:

40°±5° Shore A

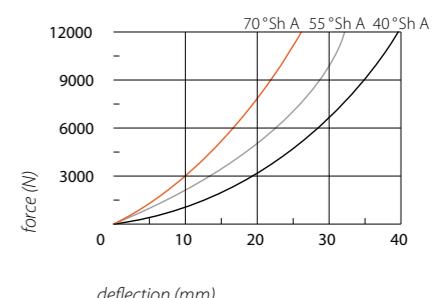
55°±5° Shore A

70°±5° Shore A

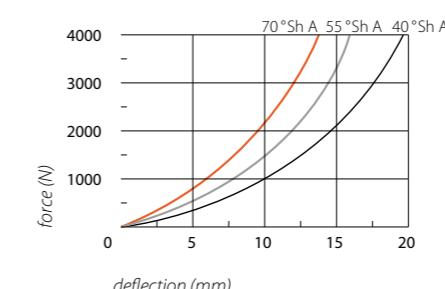
Type K/E



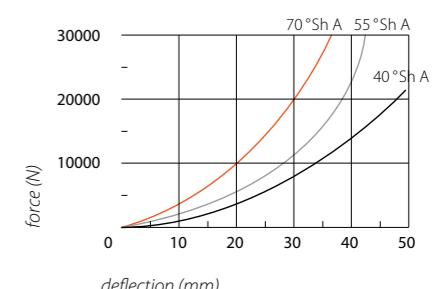
Type K8060E



Type K5035E



Type K12590E



Parabolic dampers

type KP/D

Art.Code	D (mm)	H (mm)	M (mm)	L Screw length (mm)
KP3030D	30	30	M6	12
KP3036D	30	36	M8	8 10 13 16 18 20 23 27
KP5058D	50	58	M10	15 20 28 33
KP5068D	50	68	M8	15 20 28 33 36
KP7589D	75	89	M12	27 37
KP9580D	95	80	M16	45
KP115133D	115	133		45

Column L: standard stock keeping items are printed bold, all other sizes are available on request.

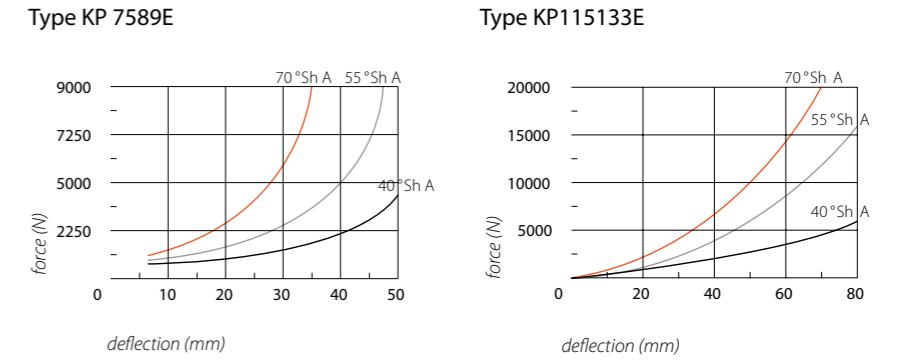
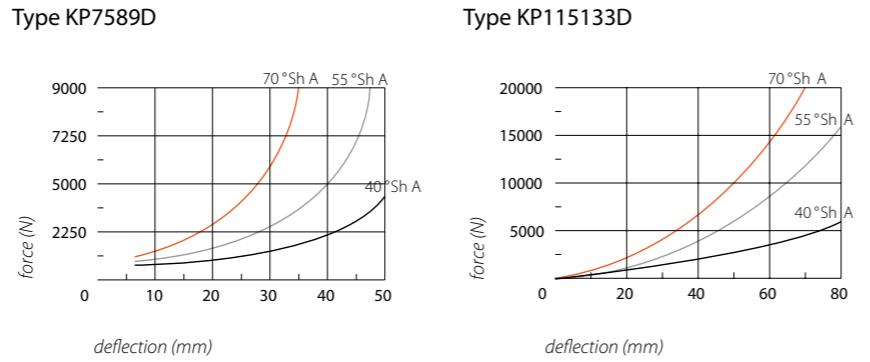
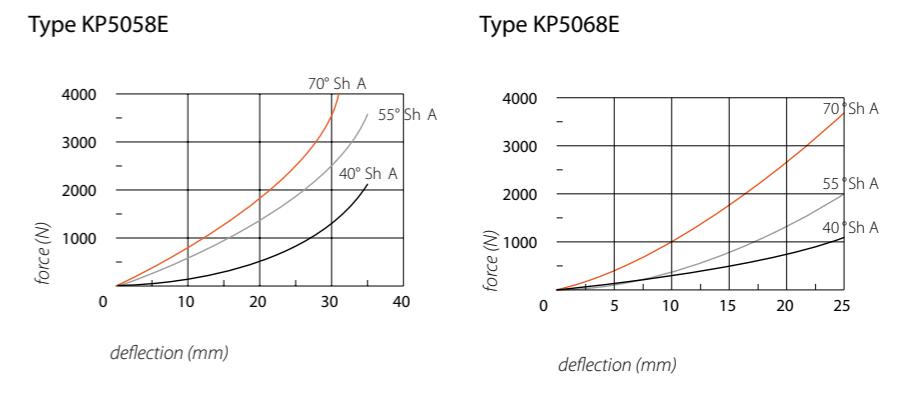
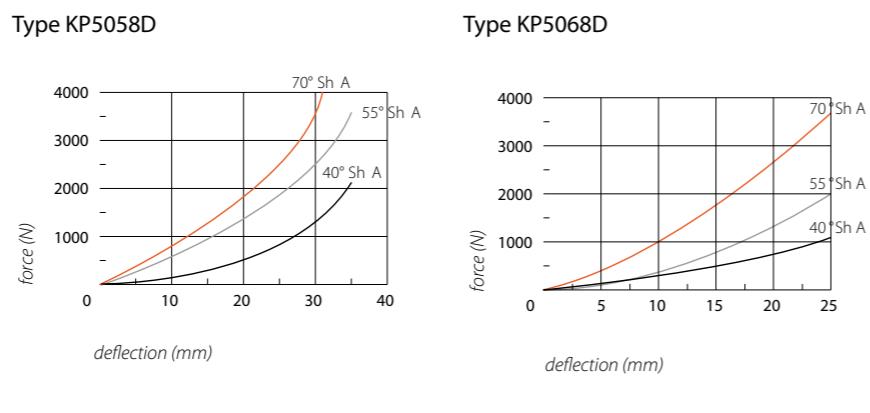
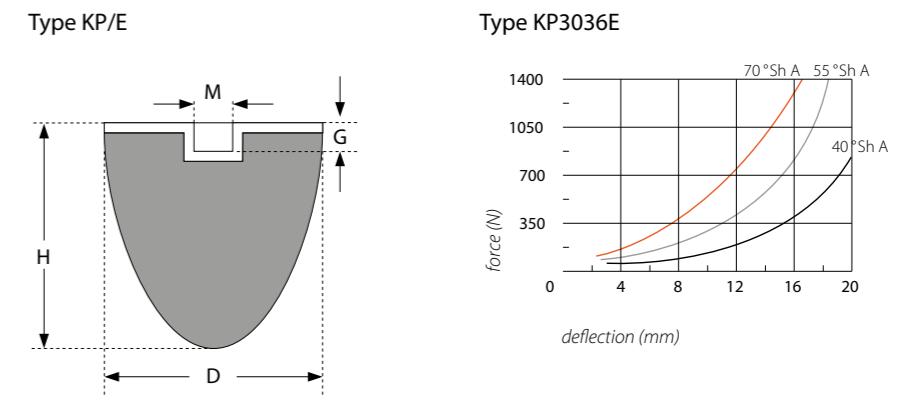
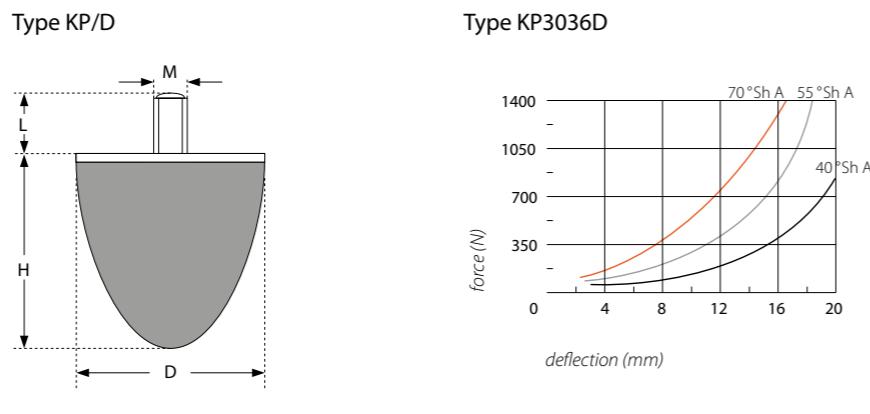
Material: NR (Natural rubber). Standard available in: 40° ± 5° Shore A, 55° ± 5° Shore A, 70° ± 5° Shore A.

Parabolic dampers

type KP/E

Art.Code	D (mm)	H (mm)	M (mm)	G (mm)
KP3036E	30	36	M8i	8
KP5058E	50	58	M10i	10
KP5068E	50	68		10
KP7589E	75	89	M12i	12
KP115133E	115	133	M16i	16

Material: NR (Natural rubber). Standard available in: 40° ± 5° Shore A, 55° ± 5° Shore A, 70° ± 5° Shore A.



Crane/Stop buffers

Technical details crane/stop buffers

Crane buffer with base plate

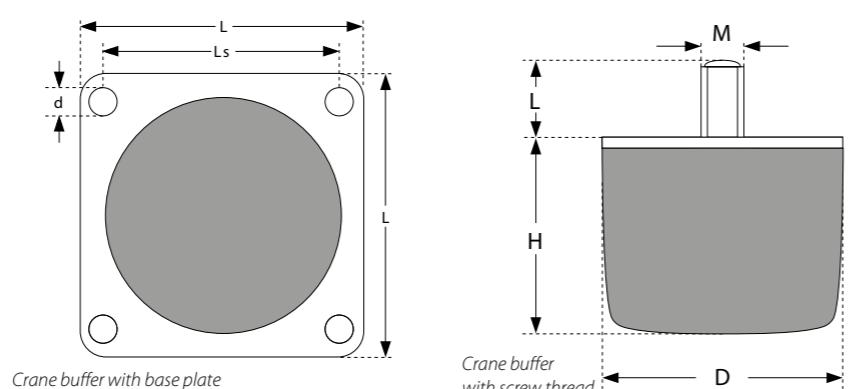
Art.Code	D (mm)	H (mm)	Base plate size L (mm)	S (mm)	d (mm)	Ls (mm)	R (mm)
55490170	40	34	50	2	5,5	40	8
55490270	50	42	63	2		50	10
55490370	63	53	80	3	6,5	63	12,5
55490470	80	66	100	3		80	16
55490570	100	84	125	4	9,0	100	20
55490670	125	104	160	4		125	25
55490770	160	131	200	6	11	160	32
55490870	200	166	250	6		200	40
55490970	250	208	315	8	13	250	50

Crane buffer with screw thread

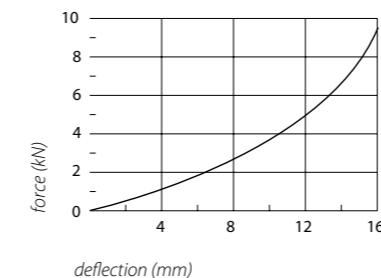
Art.Code	D (mm)	H (mm)	M	L (mm)	R (mm)
55190070	40	34	M8	28	8
55190170	50	42		33	10
55190270	63	53	M10	32	12,5
55190370	80	66		37	16
55190470	100	84	M12	36	20
55190570	125	104		46	25
55190670	160	131	M16	44	32
55190770	200	166		49	40
55190870	250	208	M20	47	50

Material: NR (Natural Rubber)
Standard available in $70^\circ \pm 5^\circ$ Shore A

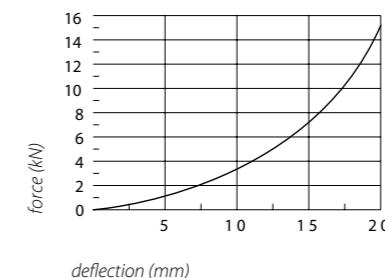
H = height
M = screw thread
D = diameter
L = width base plate
Ls = spacing mounting holes
d = diameter bore diameter
S = plate thickness
R = radius



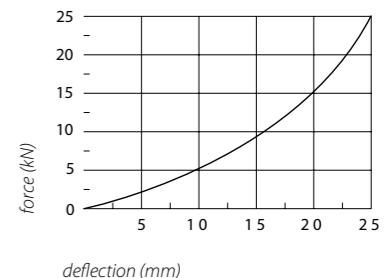
Diameter 40



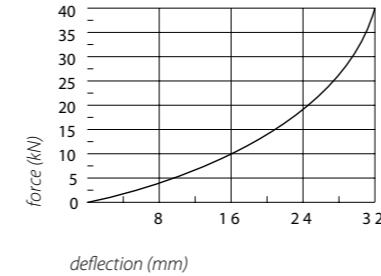
Diameter 50



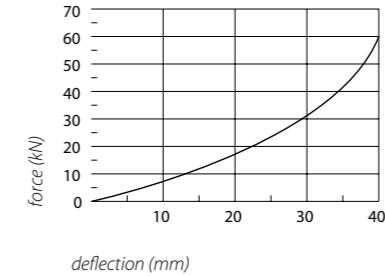
Diameter 63



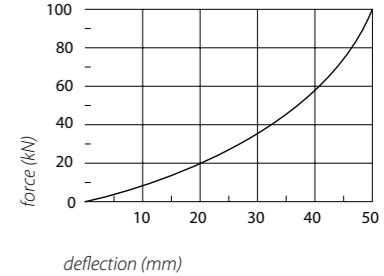
Diameter 80



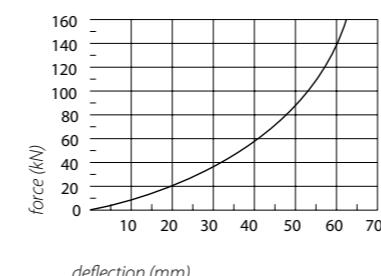
Diameter 100



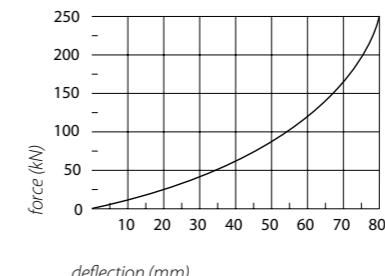
Diameter 125



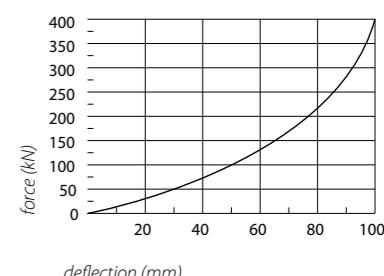
Diameter 160



Diameter 200



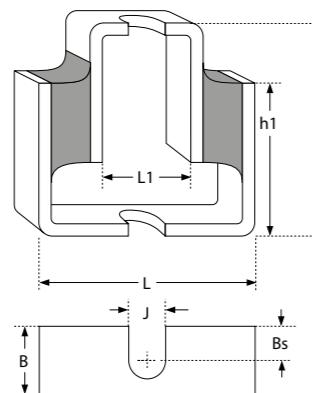
Diameter 250



U-mounts

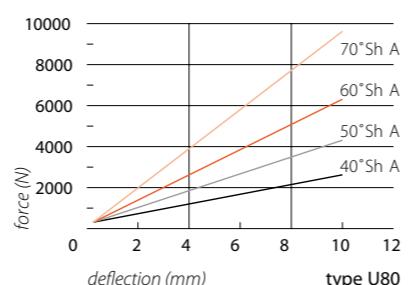
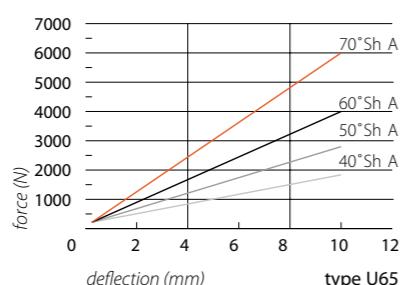
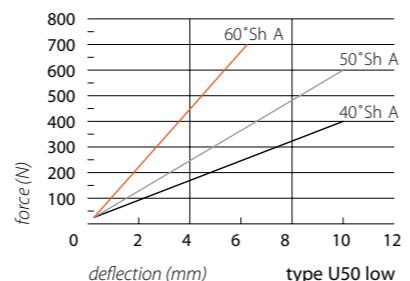
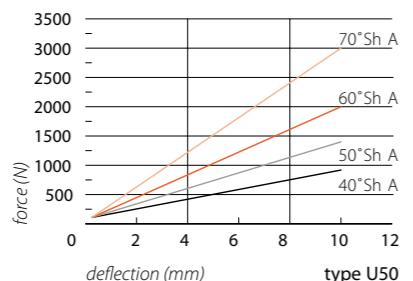
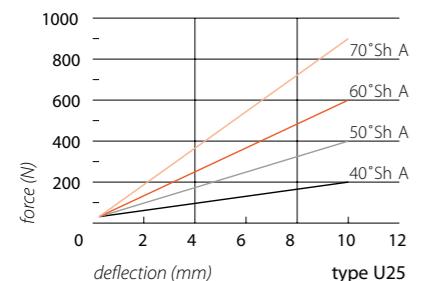
Art.Code	B (mm)	L (mm)	L1 (mm)	H (mm)	h1 (mm)	Bs (mm)	J (mm)
U25	25	71	26,4	62	43	12,5	11
U50	50	79	32,4	78	56	25	13,5
U50L	50	60	20	41	30	25	Ø 11
U65	65	87	38,4	108	83	32,5	17,5
U80	80	100	48	130	100	40	17,5

B = width
 L = length
 L1 = inner spacing
 H = height (total)
 h1 = height (metal part)
 Bs = slit depth (center)
 J = slit width



Material: NR (Natural Rubber)
 The L version is available in 40°, 50°, and 60° (+/- 5°) Shore A. All other versions are also standard available in 70° Shore A.

Technical details U-mounts

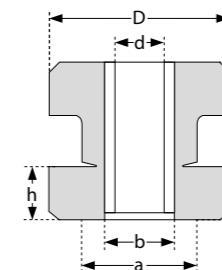


Dual compression mounts

type PH

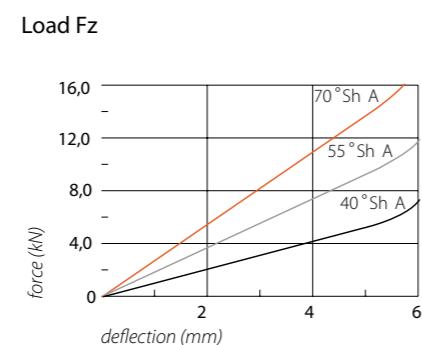
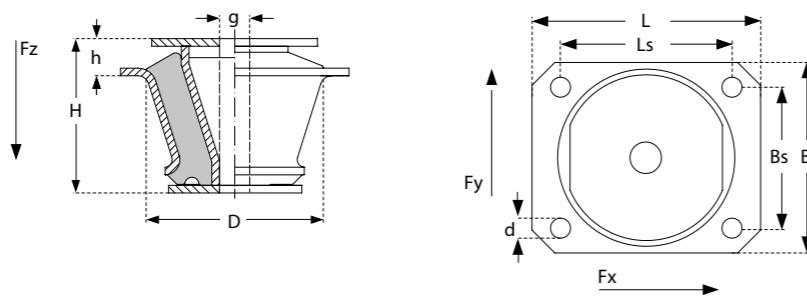
Art.Code	Axial Load (N)	Deflection (mm)	Measurements (mm)				
			D	d	b	H	a
PH-1A	180	1,3					
PH-1B	410	1,3					
PH-1C	640	1,3	33,3	10,3	15	31,8	20,1
PH-4/125-4	1952	4					
PH-4/225-4	5136	4					
PH-4/325-4	5600	4					
PH-4/425-4	8496	4					
PH-4E	9540	2,5					

Type PH



Conical dampers

Art.Code	L (mm)	Ls (mm)	B (mm)	Bs (mm)	d (mm)	H (mm)	h (mm)	D (mm)	g (mm)
13100140	120	90	100	74	11	81	20	93	16
13100155	120	90	100	74	11	81	20	93	16
13100170	120	90	100	74	11	81	20	93	16

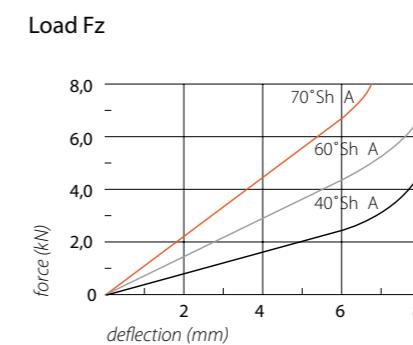
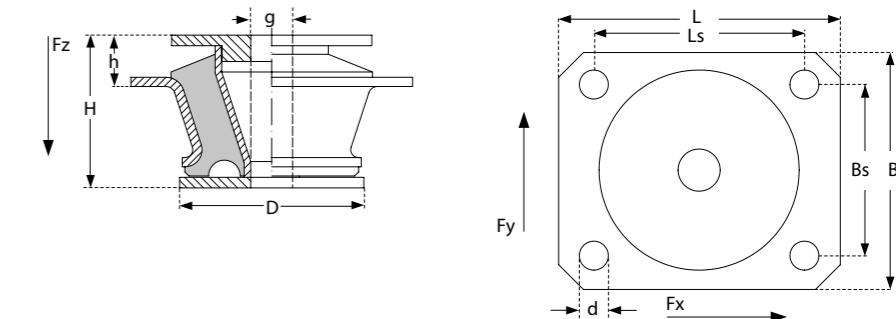


Conical dampers are supplied with 2 stop discs.

Material:
NR (Natural Rubber)
Rubber shore hardness:
40° Shore A
55° Shore A
70° Shore A

Conical dampers

Art.Code	L (mm)	Ls (mm)	B (mm)	Bs (mm)	d (mm)	H (mm)	h (mm)	D (mm)	g (mm)
13100540	107	80	90	65	11	58	21,5	78	16
13100560	107	80	90	65	11	58	21,5	78	16
13100570	107	80	90	65	11	58	21,5	78	16



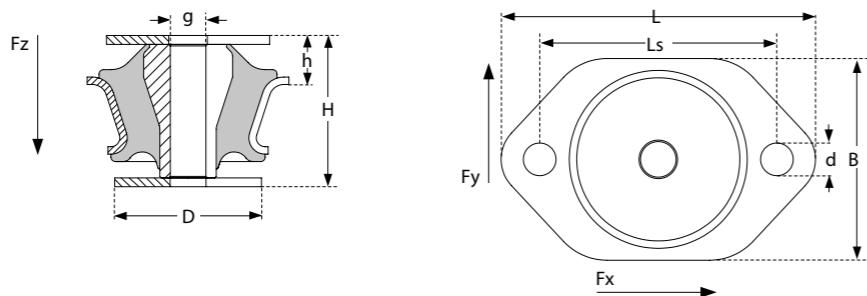
Conical dampers are supplied with 2 stop discs.

Material:
NR (Natural Rubber)
Rubber shore hardness:
40° Shore A
55° Shore A
70° Shore A

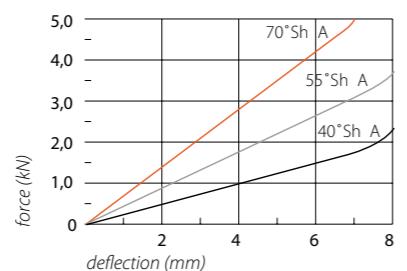


Conical dampers

Art.Code	L (mm)	Ls (mm)	B (mm)	g (mm)	d (mm)	H (mm)	h (mm)	D (mm)
13300240	106	80	68	12,1	11	51	16,5	60
13300255	106	80	68	12,1	11	51	16,5	60
13300270	106	80	68	12,1	11	51	16,5	60



Load Fz



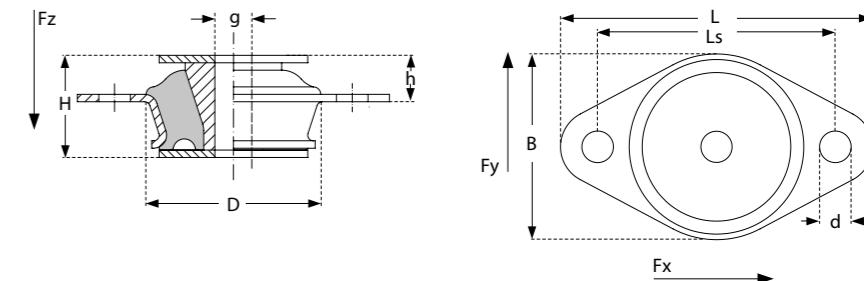
Conical dampers are supplied with 2 stop discs.

Material:
Rubber shore hardness:

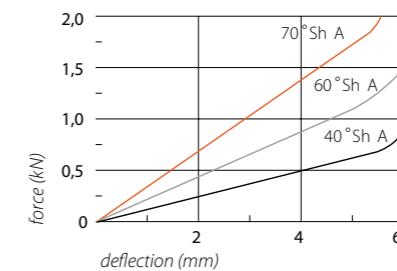
NR (Natural Rubber)
40° Shore A
55° Shore A
70° Shore A

Conical dampers

Art.Code	L (mm)	Ls (mm)	B (mm)	g (mm)	d (mm)	H (mm)	h (mm)	D (mm)
13500140	84	64	50	8	6,5	27,5	12	46
13500160	84	64	50	8	6,5	27,5	12	46
13500170	84	64	50	8	6,5	27,5	12	46



Load Fz



Conical dampers are supplied with 2 stop discs.

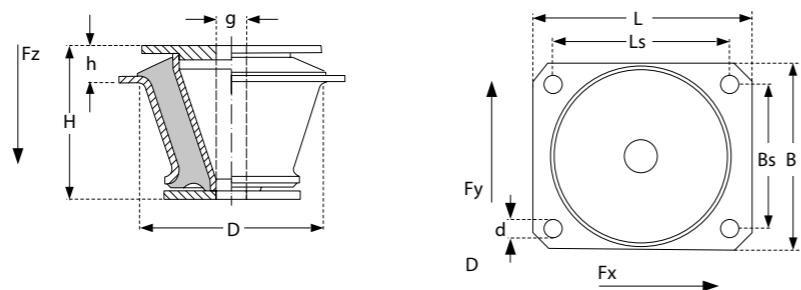
Material:
Rubber shore hardness:

NR (Natural Rubber)
40° Shore A
55° Shore A
70° Shore A

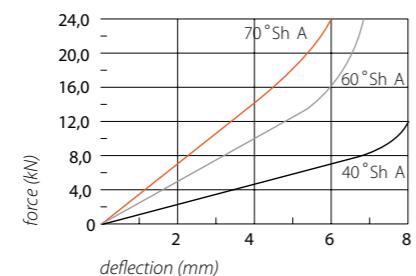


Conical dampers

Art.Code	L (mm)	Ls (mm)	B (mm)	Bs (mm)	d (mm)	H (mm)	h (mm)	D (mm)	g (mm)
13600140	140	112	120	92	11	95	23	109	20
13600160	140	112	120	92	11	95	23	109	20
13600170	140	112	120	92	11	95	23	109	20



Load Fz



Conical dampers are supplied with 2 stop discs.

Material:
Rubber shore hardness:

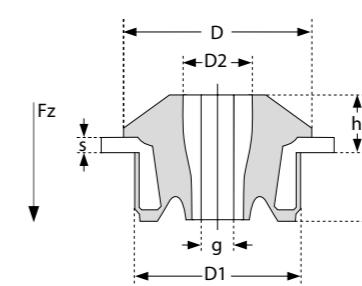
NR (Natural Rubber)
40° Shore A
55° Shore A
70° Shore A

Conical dampers

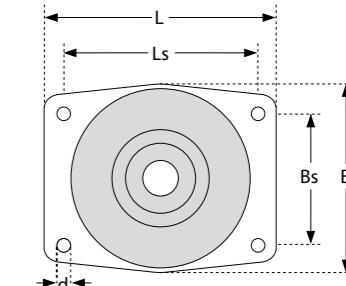
Heavy Duty

Art.Code	D (mm)	D1 (mm)	D2 (mm)	g (mm)	H (mm)	h (mm)	S (mm)	L (mm)	Ls (mm)	Bs (mm)	B (mm)	d (mm)
P1550A45	139	124	40	25	100	46	12,5	172	144	100	150	11

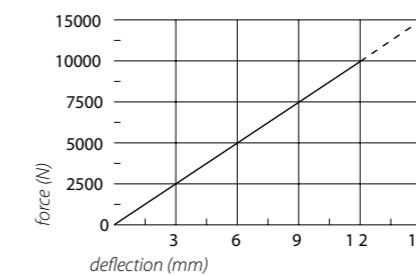
P1550A45



P1550A45



Load Fz



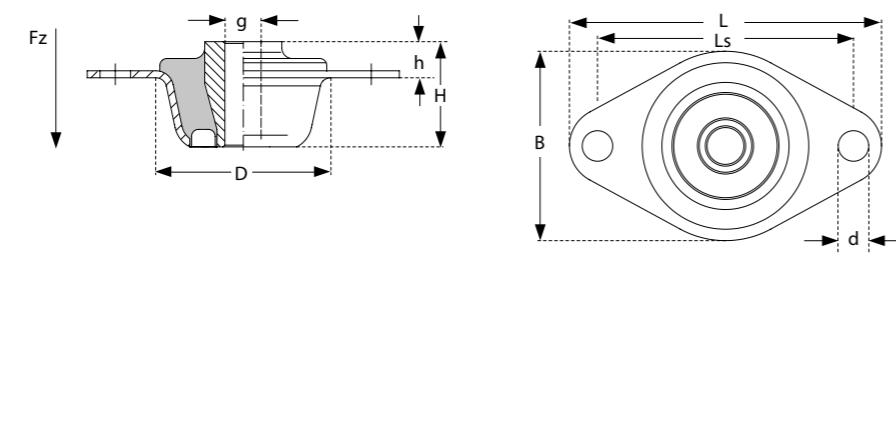
- Robust construction
- Fail safe if mounted with stop discs
- Suitable for absorbing heavy loads and vibrations



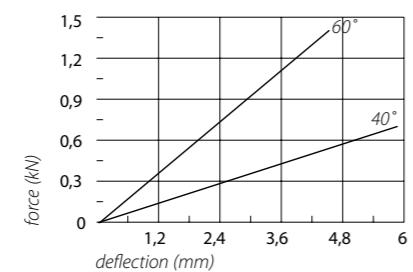
Conical dampers

Art.Code	L (mm)	Ls (mm)	B (mm)	g (mm)	d (mm)	H (mm)	h (mm)	D (mm)
13201236	89	73	54	10,5	8,7	30	10,3	50
13201260	89	73	54	10,5	8,7	30	10,3	50

Material:
NR (Natural Rubber)
Rubber shore hardness:
40° en 60° Shore A

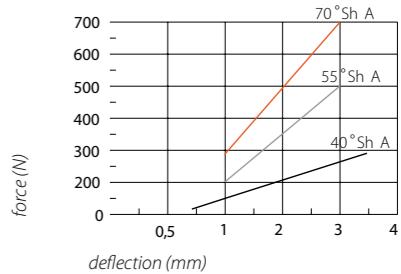
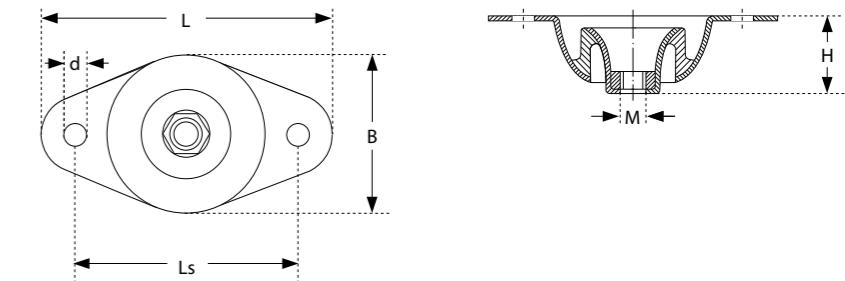


Load Fz

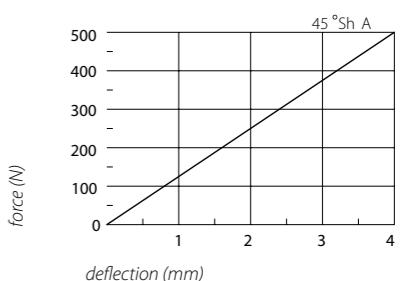
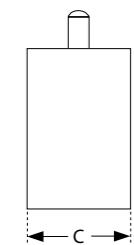
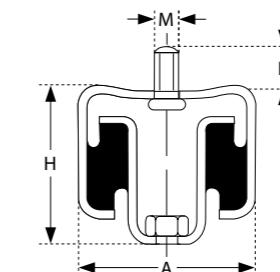


Hanging elements

Art.Code.	B (mm)	H (mm)	L (mm)	M (mm)	Ls (mm)	d (mm)
6411500240	64	30	115	M10i	85	10,5
6411500257	64	30	115	M10i	85	10,5
6411500270	64	30	115	M10i	85	10,5



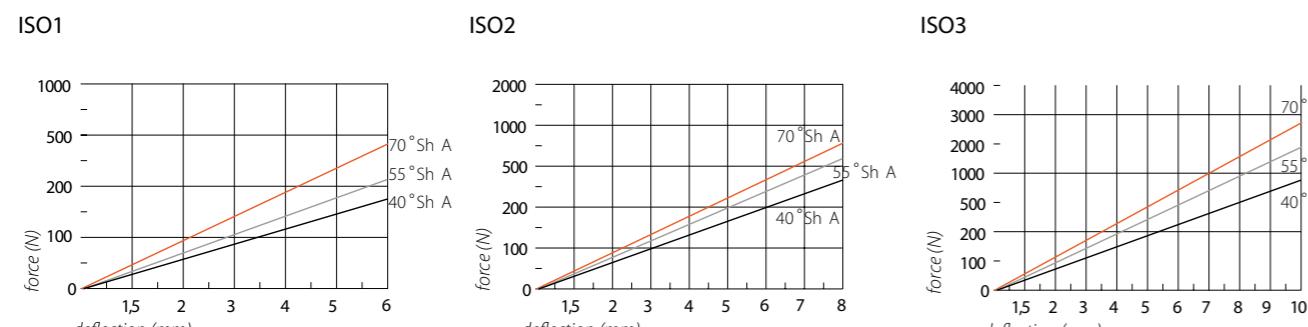
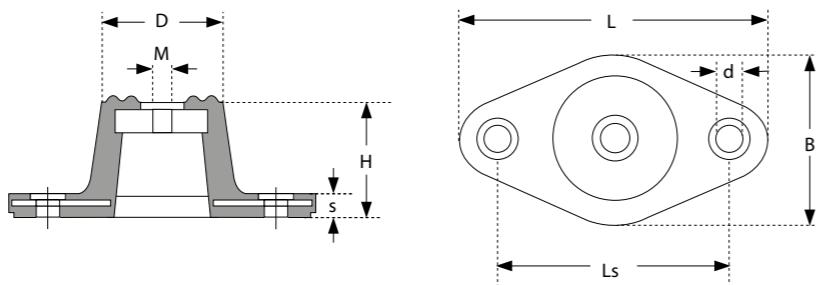
Art.Code.	H (mm)	C (mm)	A (mm)	M (mm)	L (mm)
535611	47	30	55	M8	13



Isolators

Art.Code	D (mm)	M (mm)	H (mm)	L (mm)	B (mm)	Ls (mm)	d (mm)	s (mm)
ISO1	32	M8i	32	80	45	60	9,0	6,0
ISO2	45	M10i	45	98	60	76	9,0	6,0
ISO3	63	M12i	73	140	86	105	14,0	6,5

D = diameter
 G = screw thread
 H = height
 L = length
 B = width
 Ls = spacing mounting holes
 d = diameter mounting hole
 S = plate thickness



GMT isolators are designed for large isolation with small loads. They are mainly applied at low interfering frequencies. The isolators are available in 3 hardness's (40°, 55°, 70° Shore A) and suitable for loads up to 4000N.

For easy recognition the isolators are supplied in different colours.

40° Shore A = Rubber colour is green

55° Shore A = Rubber colour is red

70° Shore A = Rubber colour is beige



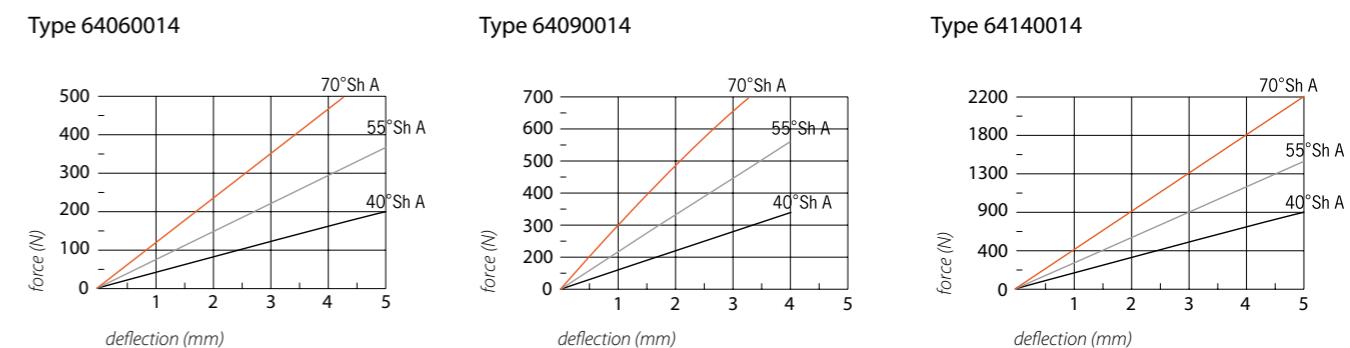
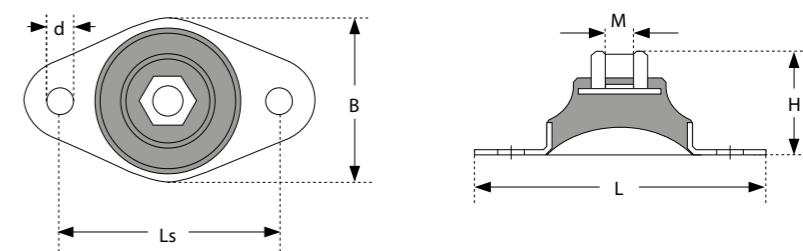
Hat elements

Art.Code.	B (mm)	H (mm)	L (mm)	M (mm)	Ls (mm)	d (mm)
64060014	35	20	60	M6	45	6
64090014	50	32	90	M10	70	9
64140014	80	50	140	M16	105	13

Material: NR (Natural Rubber)
Standard available in:

40° ± 5° Shore A
 55° ± 5° Shore A
 70° ± 5° Shore A

B = width
 H = height
 L = length
 M = screw thread size
 Ls = spacing mounting holes
 d = diameter mounting hole



Miscellaneous dampers

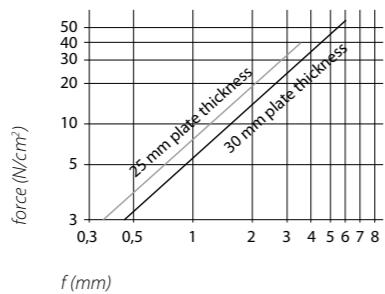
Damping plates

with longitudinal bore diameter

Art.Code	B (mm)	H (mm)	L (mm)
LP12525125	125	25	125
LP20025200	200	25	200
LP25025250	250	25	250
LP25025500	250	25	500
LP30025300	300	25	300
LP30030300	300	30	300
LP40023600	400	23	600

Material: NR (Natural Rubber)
available in hardness
 $45^\circ \pm 5^\circ$ shore A

B = width
H = height
L = length



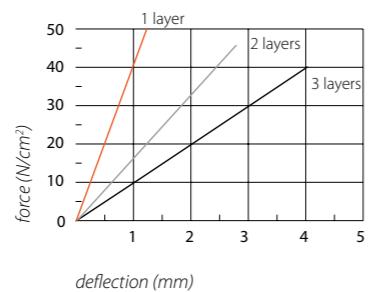
Damping plates

ribbed or studded

Art.Code	B (mm)	H (mm)	L (mm)	Profiel
MAT5005001	500	10	500	Ribbed longitudinal and transverse
MATLD	250	10	500	Ribbed longitudinal and transverse
MATLDS	250	10	500	Ribbed longitudinal and transverse with metal inserts
MATNOP	250	10	500	Single sided studded, other side plain

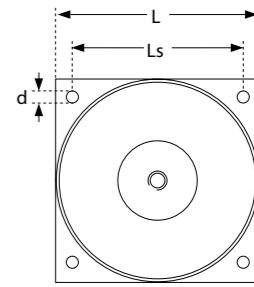
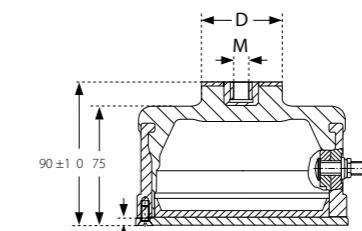
Material: NR (Natural Rubber)
available in hardness
 $45^\circ \pm 5^\circ$ shore A
oilresistant

B = width
H = height
L = length

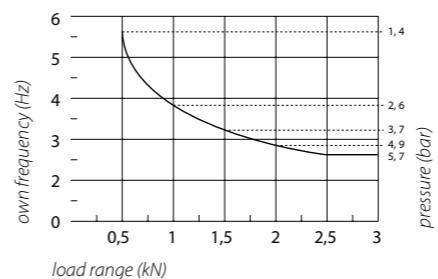


Bellows

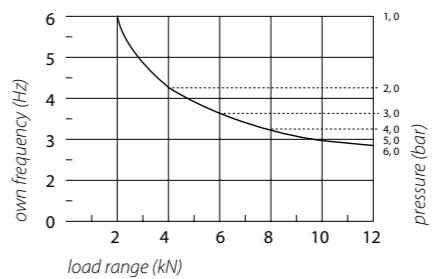
Art.Code	L (mm)	Ls (mm)	M (mm)	d (mm)	s (mm)	D
76130001	130	108	M12	7	5	50
76255001	255	215	M16	14	6	125
76470001	470	406	M24x1,5	20	8	300



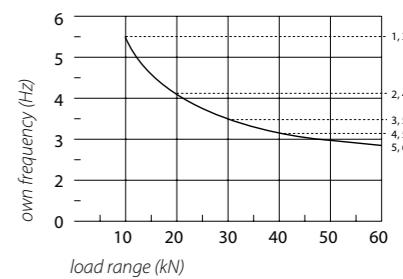
Type 76130001



Type 76255001



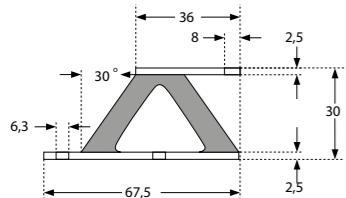
Type 76470001



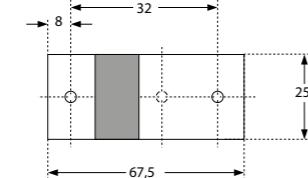
V- en W-elements

V- en W-elements

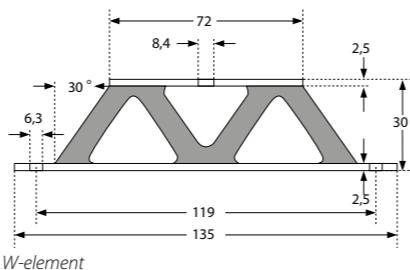
Art.Code	type	L x B (mm)
VEL	V-element	67,5 x 25
WEL	W-element	135 x 25



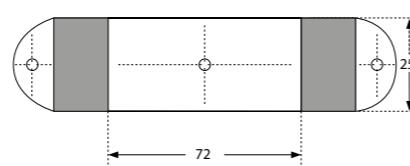
V-element



V-element



W-element

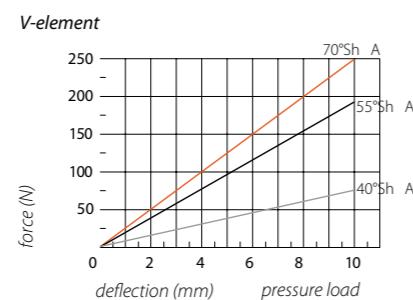
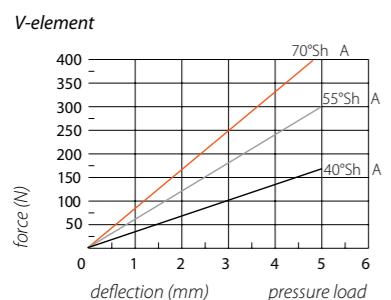
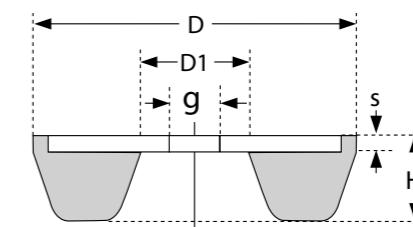


W-element

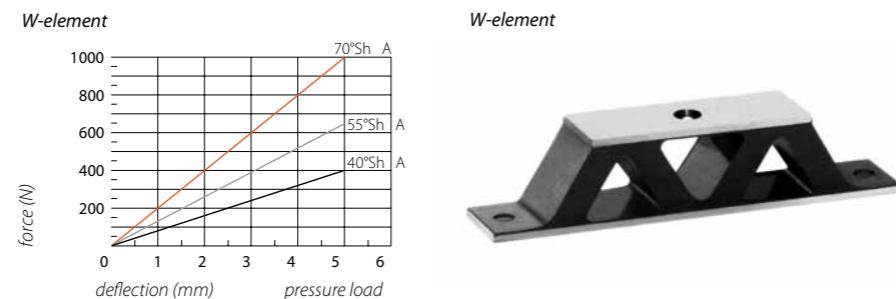
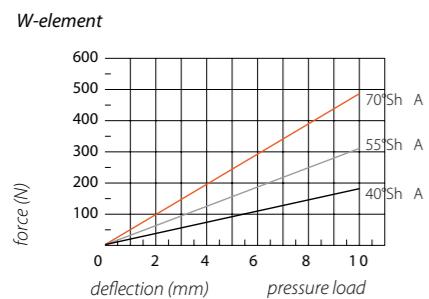
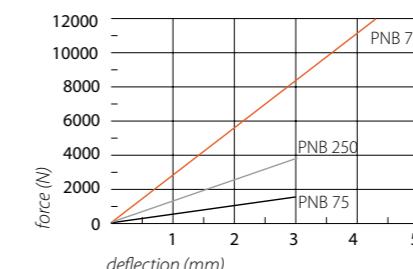
Round machine mounts

Art.Code	D (mm)	D1 (mm)	g (mm)	H (mm)	s (mm)
PNB75	55	18	8	15	3
PNB250	75	25	10	17	4
PNB750	115	40	14	24	4

L = length
H = height
B = width
d = bore diameter
s = plate thickness
D = diameter
D1 = diameter recess
G = diameter bore diameter



Pressur e load



Notes

Notes

Notes