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CATALOGUE OF PRODUCTS

RUBBER-METAL & SYNTHETIC PARTS



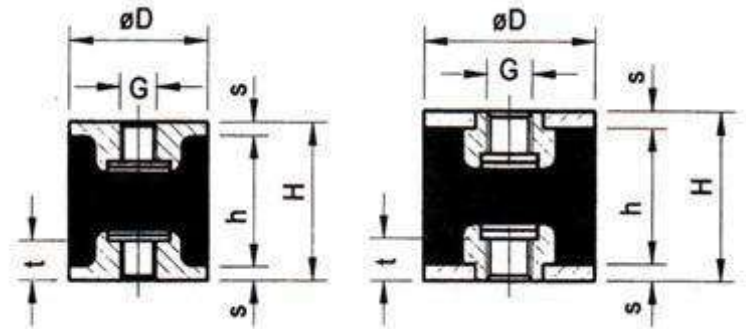


1. STALASTIC RUBBER-METAL BUFFERS Type C

with internal thread on both sides

Rubber hardnesses:

hard approx. 70 Shore A
medium approx. 60 Shore A
soft approx. 45 Shore A



Dimensions in mm						Specification												Standard	
						Compression stress						Shear stress							
D	H	h	s	G	I	Spring rate c_z in N/mm			Perm. Load $F_{zul.*}$ in N			Spring rate c_{xy} in N/mm			Perm. Load $F_{zul.*}$ in N			Article No.	x
						hard	medium	soft	hard	medium	soft	hard	medium	soft	hard	medium	soft		
8	8	6	1	M 3	3	110	60	30	38	27	11	19	12	6	22	10	5	MM 8	x
10	10	7,6	1,2	M 4	4	115	68	32	65	40	18	22	14	7	25	18	11	MM 10	x
10	15	12,6	1,2	M 4	4	60	35	15	68	43	21	15	9	5	27	19	12	MM 10/15	
13	26	23,6	1,2	M 4	4	25	15	6	50	25	10	8	4	3	38	24	8		
15	15	12,6	1,2	M 4	4	140	85	35	155	100	45	50	30	16	58	45	25	MM 15	
15	20	17,6	1,2	M 4	4	100	60	25	140	95	40	35	20	12	55	40	20	MM 15 S	
15	25	22,6	1,2	M 4	4	105	63	29	140	102	45	35	20	12	60	45	25		
15	30	27,6	1,2	M 4	4	60	35	15	130	85	40	8	4	3	45	30	22		
20	20	16	2	M 6	6	185	115	50	390	1380	95	27	17	12	150	85	55		x
20	25	21	2	M 6	6	190	120	70	270	170	100	40	25	15	130	80	50	MM 20	x
25	15	11	2	M 6	6	550	330	160	605	400	180	90	55	30	120	90	55		
25	20	16	2	M 6	6	300	145	115	450	260	165	60	40	23	210	135	70		
25	25	21	2	M 6	6	220	140	110	500	300	145	60	38	20	220	140	75		
25	30	26	2	M 6	6	185	110	50	480	295	140	30	20	10	145	120	55		
25	35	31	2	M 6	6	150	95	40	460	290	135	22	15	8	140	95	50		
30	20	16	2	M 8	8	650	410	240	885	550	310	110	70	40	360	220	130	MM 30 S	
30	25	21	2	M 8	8	575	370	220	1100	740	410	70	40	20	205	155	95		
30	30	26	2	M 8	8	570	360	210	690	430	250	80	50	30	240	150	90	MM 30	x
30	40	24	3	M 8	9,5	220	140	80	610	380	220	60	35	20	380	240	140	MM 34	
40	30	26	2	M 8	8	880	550	320	1060	660	390	140	80	50	370	230	130	MM 40	x
40	40	36	2	M 8	8	370	230	140	990	620	360	80	50	30	530	330	190	MM 44	x
50	30	24	3	M 10	10	1680	1050	620	1520	950	560	220	140	80	480	300	180	MM 53	x
50	35	29	3	M 10	10	880	400	210	2000	1240	705	125	70	40	880	550	310		
50	40	34	3	M 10	10	660	410	240	1570	980	580	140	80	50	750	470	280	MM 50	x
50	45	39	3	M 10	10	540	340	200	2700	1700	1000	85	50	30	780	480	300	MM 50/45	
50	50	44	3	M 10	10	360	220	130	1380	860	510	70	40	25	600	380	220	MM 55	x



1. STALASTIC RUBBER-METAL BUFFERS Type C

with internal thread on both sides

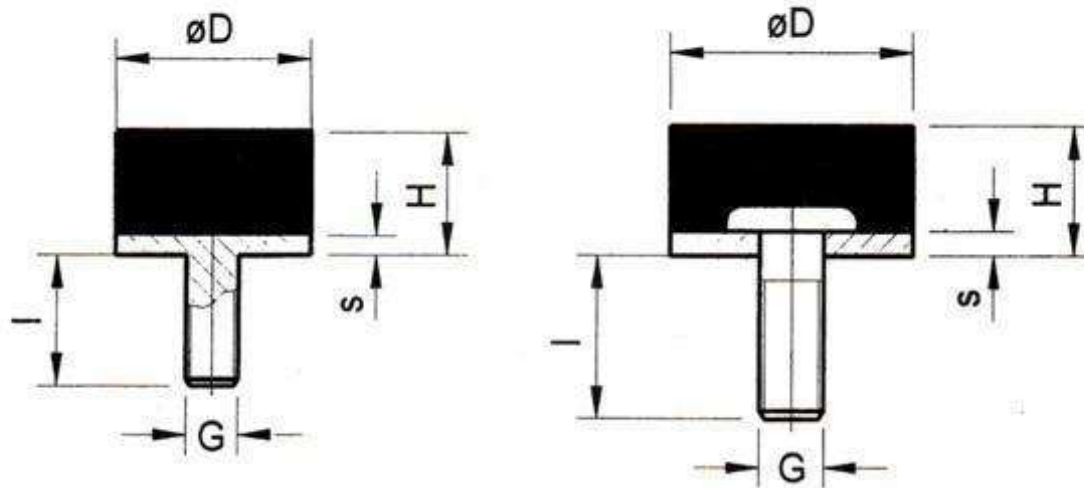
Dimensions in mm						Specification												Standard	
						Compression stress						Shear stress							
D	H	h	s	G	I	Spring rate c_z in N/mm			Perm. Load $F_{zul.}^*$ in N			Spring rate c_{xy} in N/mm			Perm. Load $F_{zul.}^*$ in N			Article No.	x
						hard	medium	soft	hard	medium	soft	hard	medium	soft	hard	medium	soft		
60	30	24	3	M 10	10	1700	1100	540	4000	2600	1280	200	130	70	1090	670	340		
60	35	29	3	M 10	10	1500	950	450	3600	2350	1105	190	115	60	1850	1180	690		
60	40	34	3	M 10	10	1120	700	310	2850	2010	1640	150	95	50	1580	1010	510		
60	45	39	3	M 10	10	775	485	290	4600	2915	1700	110	70	45	1600	1005	595		
70	45	39	3	M 10	10	1200	700	310	4720	2995	1200	165	95	55	2150	1045	600	MM 70/45	
75	40	34	3	M 12	12	4500	2900	1700	12400	7800	4500	430	270	160	2780	1735	1009	MM 75 MM 75 S	
75	45	39	3	M 12	12	1700	1000	480	5500	3500	1600	340	215	105	2680	1040	670		
75	50	44	3	M 12	12	980	610	360	3620	2010	1180	190	120	70	1540	960	560		
75	55	49	3	M 12	12	950	590	350	6150	3840	2290	170	100	60	2550	1680	960		
75	60	54	3	M 12	12	645	405	240	4700	2900	1700	120	70	40	2100	1280	775		
75	70	64	3	M 12	12	630	410	215	4400	2760	1200	110	70	35	1600	1010	515		
100	40	32	4	M 16	16	3100	1600	1000	10100	7400	3500	400	220	120	2550	2000	1010	MM 100 S MM 100 MM 100/75	
100	55	47	4	M 16	16	2950	1850	1080	14900	9400	5500	400	245	140	3300	2000	1200		
100	60	52	4	M 16	16	1360	850	500	4900	3060	1800	250	150	90	2100	1310	770		
100	75	67	4	M 16	16	1350	900	550	9800	7800	2000	230	140	80	2150	1320	800		
125	55	45	5	M 16	16	4010	2500	1300	20150	13500	8150	505	300	170	4000	3000	1600		
125	60	50	5	M 16	16	3850	2450	1220	26000	15000	8400	500	300	165	7500	4500	2475		
125	75	65	5	M 16	16	3200	1950	910	28000	17550	8190	400	245	140	5600	3450	1990		
150	55	45	5	M 16	16	6600	4000	2100	33000	20000	10500	660	420	220	9900	6300	3300	MM 157	
150	60	50	5	M 16	16	6500	3950	2010	39000	23700	12000	650	410	220	9750	6150	3200		
150	75	65	5	M 16	16	2610	1630	960	14480	9050	5320	415	250	150	5390	3370	1980		
200	100	90	5	M 16	16	3250	2030	1190	30200	18880	11100	460	290	170	10460	6540	3850	MM 200	

* $F_{zul.}$ is the **permissible continuous static load** upon which a fluctuating dynamic load can be superimposed.
The permissible loadings given represent only approximate maximum values of static loading for guidance.



1. STALASTIC RUBBER-METAL STOP BUMPERS Type D

with threaded pin

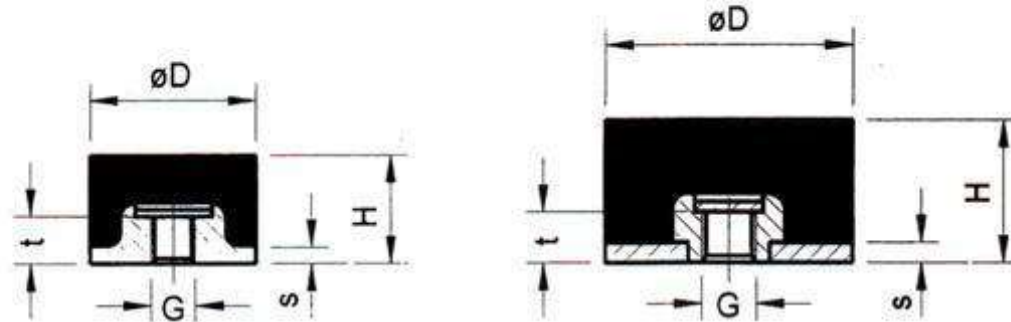


Dimensions in mm				Compression stress		Standard	
D	H	G	I	Spring rate c_z in N/mm medium	Perm. Load $F_{zul.}^*$ in N medium	Article No.	x
10	10	M 4	10	50	75	APG 10	
12	13,5	M 4	12	115	170	APG 12	
15	8	M 4	13	115	200	APG 15	
15	15	M 4	17	350	150	APG 15 S	
18	7,5	M 4	16	350	240	APG 18	x
20	13,5	M 6	15	150	260	APG 20	x
20	15	M 6	15	145	250	APG 20 S	
20	20	M 6	15	100	240	APG 2020	
20	25	M 6	15	70	200	APG 2025	
25	13	M 6	18	310	500	APG 2513	
25	15	M 6	18	280	480	APG 2515	
25	17	M 6	18	180	380	APG 25	x
25	20	M 6	18	110	290	APG 2520	
25	28	M 6	18	80	250	APG 2828	
30	15	M 8	20	360	470	APG 3015	
30	17	M 8	20	360	760	APG 30	x
30	20	M 8	20	250	660	APG 3020	
30	30	M 8	20	200	500	APG 33	
40	28	M 8	23	270	970	APG 40	x
50	21	M 10	28	650	1760	APG 50	x
50	28	M 10	28	350	1300	APG 5028	
60	30	M 12	37	830	2400	APG 60	
75	25	M 12	37	1400	4620	APG 75	x
100	40	M 16	45	1400	7770	APG 100	x
100	50	M 16	45	1300	7800	APG 105	



1. STALASTIC RUBBER-METAL STOP BUMPERS Type E

with internal thread



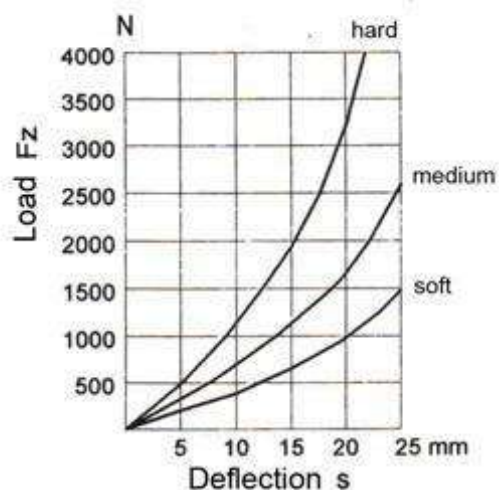
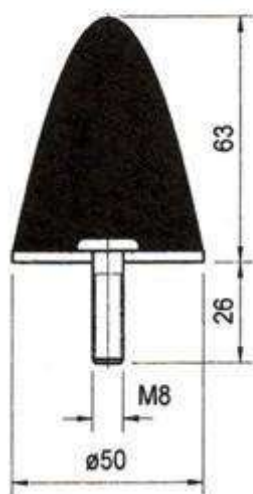
Dimensions in mm				Compression stress		Standard	
D	H	G	t	Spring rate c_z in N/mm medium	Perm. Load $F_{zul.}^*$ in N medium	Article No.	x
10	10	M 4	4	50	60	APM 10	x
15	15	M 4	4	320	140	APM 1515	
20	13,5	M 6	6	220	230	APM 20	
20	15	M 6	6	210	220	APM 2015	
20	20	M 6	6	100	240	APM 2020	
20	25	M 6	6	70	180	APM 2025	
25	13	M 6	6	310	420	APM 2513	x
25	15	M 6	6	280	410	APM 2515	
25	17	M 6	6	180	350	APM 25	
25	20	M 6	6	110	270	APM 2520	
25	28	M 6	6	80	230	APM 2528	
30	15	M 8	8	360	450	APM 3015	
30	17	M 8	8	360	620	APM 30	x
30	20	M 8	8	250	620	APM 3020	
30	30	M 8	8	200	500	APM 33	
40	28	M 8	8	350	920	APM 40	x
50	21	M 10	10	700	1100	APM 50	x
50	28	M 10	10	350	1250	APM 5028	
75	25	M 12	12	1700	3200	APM 75	x
100	40	M 16	16	1400	4950	APM 100	x
100	50	M 16	16	1300	7500	APM 105	
150	75	M 20	17,5	1350	11650	APM 150	
200	100	M 20	17,5	1700	21000	APM 200	



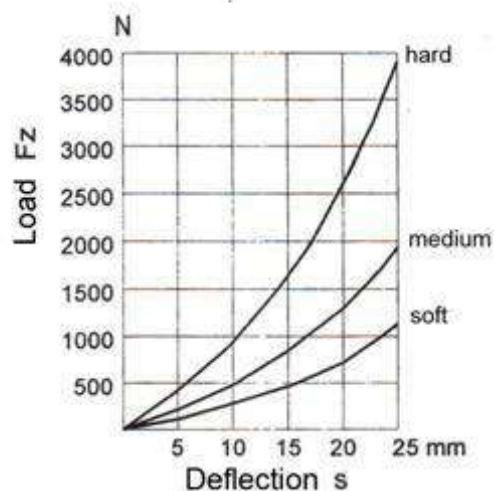
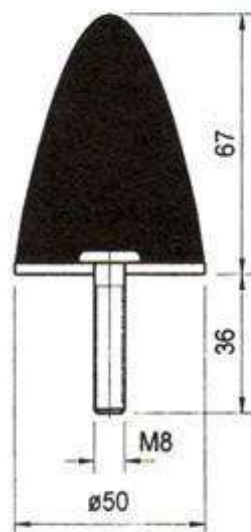
1. STALASTIC RUBBER-METAL STOP BUMPERS with parabolic cross-section

The special design of STALASTIC rubber metal stop bumpers with their parabolic cross-section allows them to yield readily to initial impact, although the spring characteristic is strongly progressive. They are used as shock absorbers to limit the amplitude of vibration and of spring deflection.

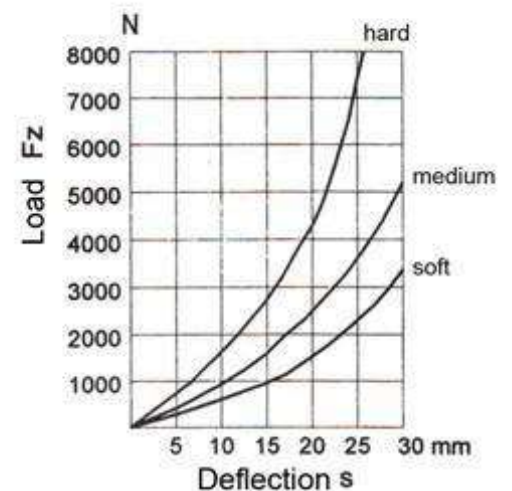
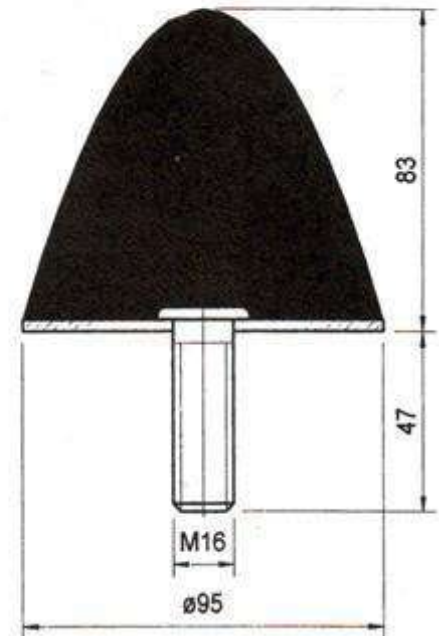
Article No. 279



Article No. 280



Article No. 278



Stock articles. Available in "medium" quality, approx. 60° Shore, in packs of 10 pieces.

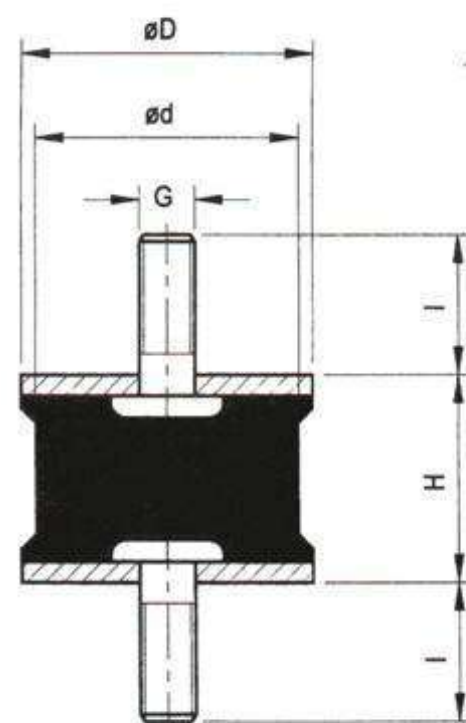


1. STALASTIC RUBBER-METAL BUFFERS with enlarged bonding surface

STALASTIC rubber-metal buffers with a "waisted" rubber section have good durability, even at high peak dynamic loads. Since the very dangerous peak stresses can be avoided at the edges of the bonding surfaces, these buffers are less affected by tensile stress than the normal cylindrical type of metal-rubber buffer.

Rubber hardnesses:

hard	approx. 70 Shore A
medium	approx. 60 Shore A
soft	approx. 45 Shore A



Dimensions in mm					Specification												standard packs	
					Compression stress						Shear stress							
D	d	H	G	I	Spring rate c_v in N/mm			Perm. Load F_{z1} * in N			Spring rate c_v in N/mm			Perm. Load F_{z1} * in N			Article No.	
					hard	medium	soft	hard	medium	soft	hard	medium	soft	hard	medium	soft		
25,5	22	22	M 8	21	320	200	120	770	480	280	60	35	20	320	200	120	146	60
40	35	28	M 10	16,5/21,5	530	330	190	1740	1090	640	80	50	30	640	400	240	152	20
40	35	28	M 10	26,5	530	330	190	1740	1090	640	80	50	30	640	400	240	147	20
55	45	36	M 10	22	600	370	250	2700	1670	1120	110	65	40	1100	650	400	145	8
60	50	60	M 10	26,5	340	200	110	2590	1620	950	60	35	20	1100	690	400	150S1	8
80	70	70	M 14	37	540	340	200	5220	3260	1920	100	60	35	2240	1400	820	149	8

* F_{zul} is the **permissible continuous static load** upon which a fluctuating dynamic load can be superimposed.
The permissible loadings given represent only approximate maximum values of static loading for guidance.

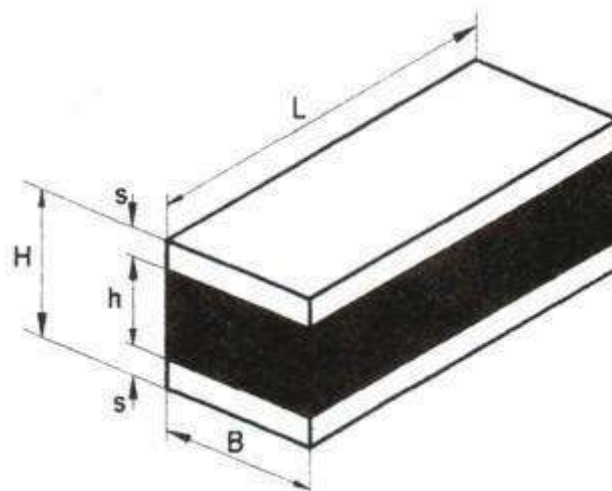
Supplied only in standard packs.



2. STALASTIC BARS

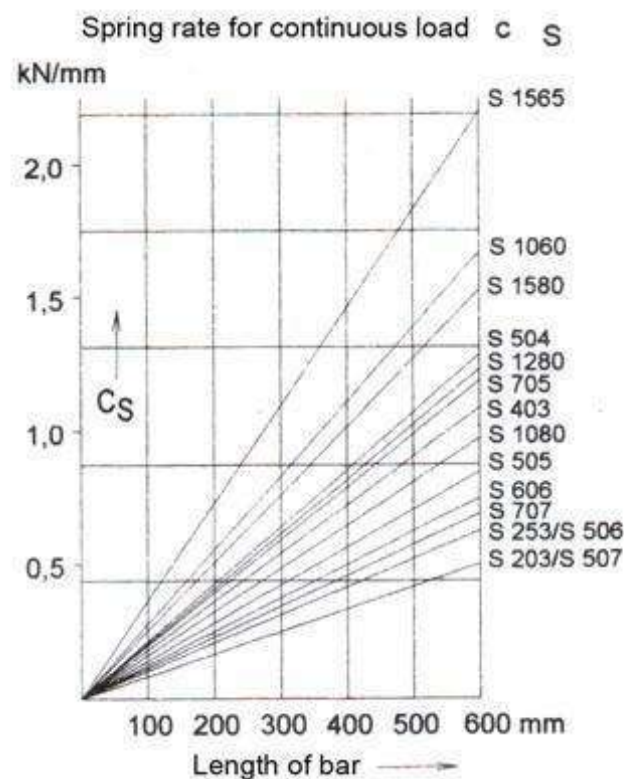
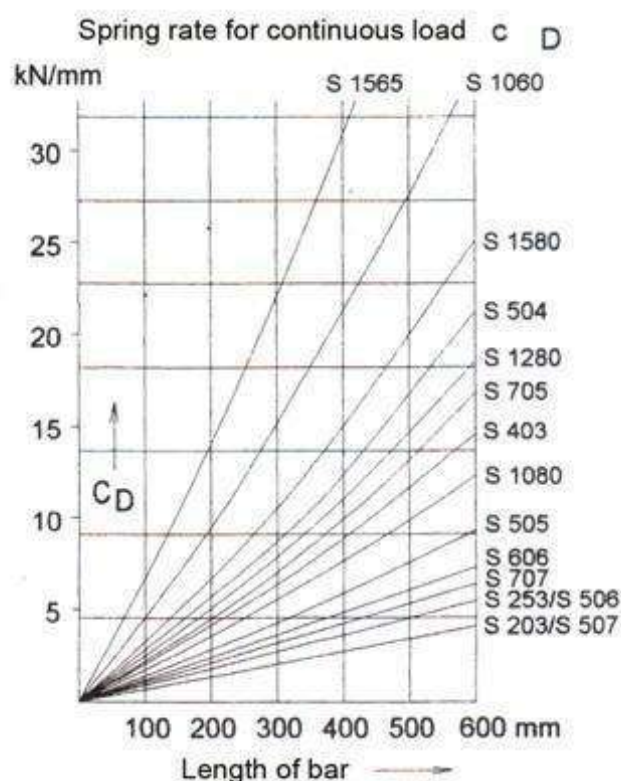
For large orders, metal-rubber bars can be supplied with metal plates of a different thickness "s" and with a thinner rubber layer. Metal-rubber bars can also be supplied as impact plates, that is, with a metal plate on one side only, to meet special production orders. DIN 1017 applies to the metal parts.

The appropriate thickness tolerances for STALASTIC bars will be found in DIN 7715.



B	H	h	s	Available in lengths of	Article No.
20	30	20	5	2000 mm	S 203
25	30	20	5	2000 mm	S 253
40	35	19	8	2000 mm	S 403
50	40	20	10	2000 mm	S 504
50	50	30	10	2000 mm	S 505
50	60	40	10	2000 mm	S 506
50	70	50	10	2000 mm	S 507

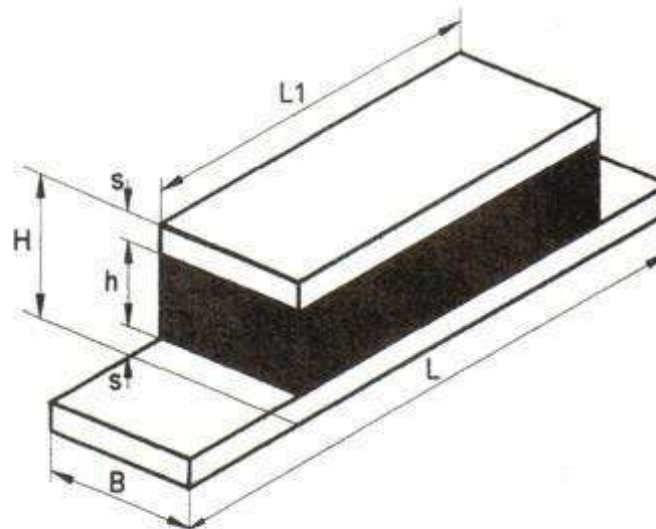
B	H	h	s	Available in lengths of	Article No.
60	60	40	10	2000 mm	S 606
70	50	30	10	2000 mm	S 705
70	70	50	10	2000 mm	S 707
100	60	30	15	2000 mm	S 1060
100	80	50	15	2000 mm	S 1080
120	80	50	15	2000 mm	S 1280
150	65	35	15	2000 mm	S 1565
150	80	50	15	2000 mm	S 1580



Available in "medium" quality, approx. 60° Shore, other qualities on request.



2. STALASTIC RUBBER-METAL BARS with projecting base plate



Dimensions in mm							Specification												Article No.
							Compression stress						Shear stress						
							Spring rate c_0 in N/mm			Perm. Load $F_{zul.}$ * in kN			Spring rate c_0 in N/mm			Perm. Load $F_{zul.}$ * in kN			
B	H	h	S_2	L	L_1	hard	medium	soft	hard	medium	soft	hard	medium	soft	hard	medium	soft		
50	40	20	8	200	150	6500	4000	120	13	8	5	500	300	200	2.5	1.5	1	23	
50	40	20	8	270	220	11400	7100	190	24	15	9	750	500	300	3.5	2	1.5	25	
100	60	30	15	470	230	16300	10200	190	50	31	18	1050	650	400	7	4.5	2.5	17	
100	60	30	15	480	360	29000	18200	250	94	59	35	1700	1000	600	11.5	7	4	19	
100	60	30	15	550	430	39700	22500	110	110	69	41	2000	1200	700	13.5	8.5	5	18	
100	71	50	6	140	90	1900	1200	200	10	6	4	250	150	100	3	2	1	62	

* $F_{zul.}$ is the permissible continuous static load upon which a fluctuating load can be superimposed. If STALASTIC bars are subjected to shearing stress, it is essential to avoid tensile stress on the rubber during the fitting of the bars. In order to obtain an adequate service life, the bars should be pretensioned. The permissible loading given represent only approximate maximum values of static loading for guidance.

Applications

STALASTIC bars are especially suitable for flexible bearing arrangements for heavy machines, such as, for example, ships' engines, large stationary engines, lathes, hoisting engines, jogging and vibrating machines. STALASTIC bars are used where space considerations and high loads do not permit the fitting of buffers.

Specification

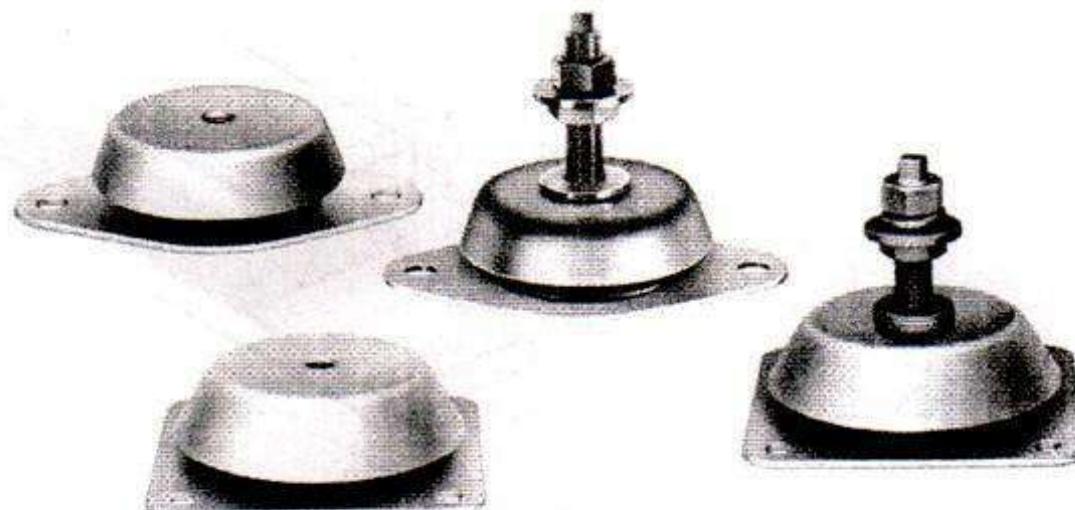
STALASTIC bars cover a range of loading from 300 N to 775 kN, according to the bar section and the length used. Further details will be found in the tables.

Description

STALASTIC bars are manufactured in lengths of 2000 mm and can be cut to any desired length. Care must be taken to ensure, however, that the shortest length is not less than the sectional width. The thickness of the metal plates is such that threaded holes can be tapped in them for fastening purposes. STALASTIC bars with projecting base plate can only be supplied in the fixed lengths shown in the table. Under static load the rubber thickness "h" can be compressed by approx. 10 to 15%. The higher rate of compression quoted is permissible in high, narrow bars. STALASTIC bars are mostly installed to absorb compressive stress, or are set at an angle to each other to absorb compressive and shearing stress.



3. STALASTIC RUBBER-METAL MACHINE MOUNTINGS



Applications

STALASTIC machine mountings are proven components which are of universal application in flexible bearing arrangements for machines of all types. STALASTIC machine mountings are preferred wherever it is necessary to avoid any considerable horizontal movement (e.g. "floating" of machine tools). Their horizontal stiffness is greater in all directions than the vertical stiffness. Used correctly, STALASTIC machine mountings are outstanding for preventing the transmission of vibration and noise to the environment. STALASTIC machine mountings can also be supplied with height adjustment, which facilitates the levelling of the machine.

Specification

STALASTIC machine mountings cover a range of loading from 100 N to 21 kN, according to size and the quality of rubber used. Further details will be found in the tables.

Description

Depending on the size, STALASTIC machine mountings are supplied with rectangular or oval flanges. Those which are provided with a height adjustment facility enable the flexibly mounted machine to be levelled. STALASTIC machine mountings are notable for their low height.

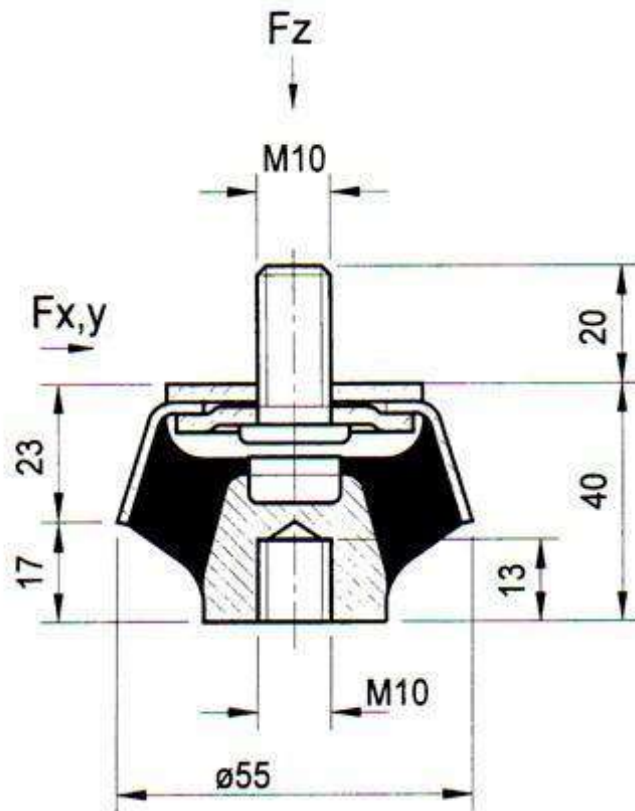
Used for flexible bearing arrangements on:

- all types of motors
- machine tools
- eccentric presses
- textile machines
- woodworking machines
- printing machines
- screening plants
- rolling mills
- pumps
- ventilation systems etc.
- washing machines



3. STALASTIC RUBBER-METAL MACHINE MOUNTINGS

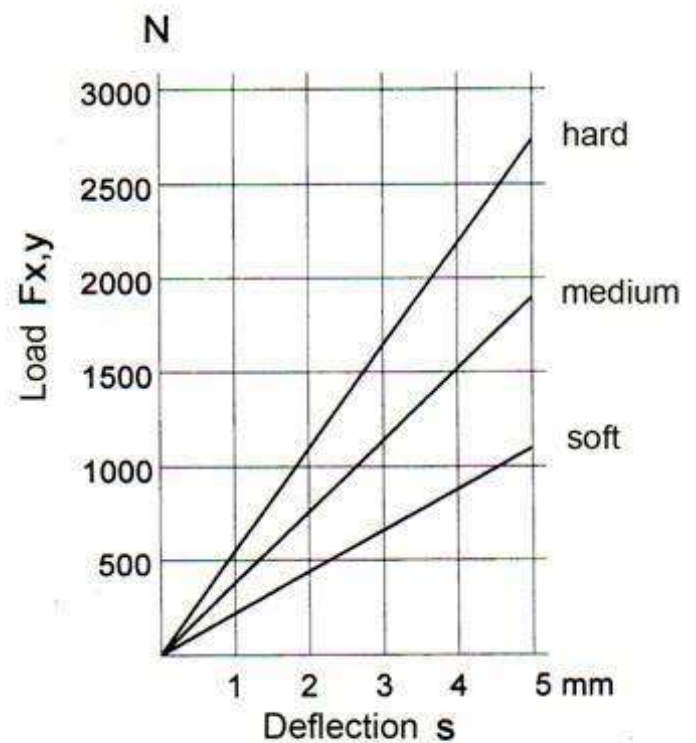
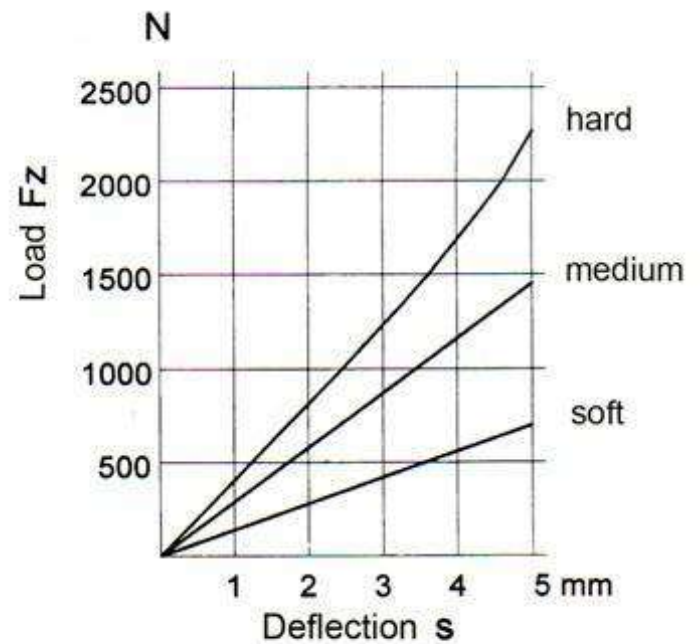
Article No. **MF 55**



This rubber-metal bearing has been developed for light loads. It is soft axially and has sufficient stiffness radially. Because of its one-hole mounting and the ease of fitting which this feature provides, it is especially suitable for sheet-metal structures.

Rubber hardnesses:

hard	approx. 70 Shore A
medium	approx. 60 Shore A
soft	approx. 45 Shore A

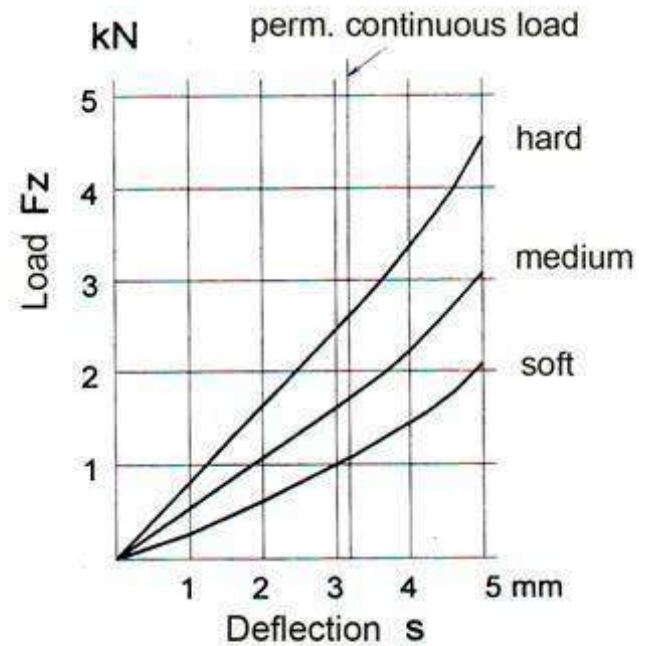
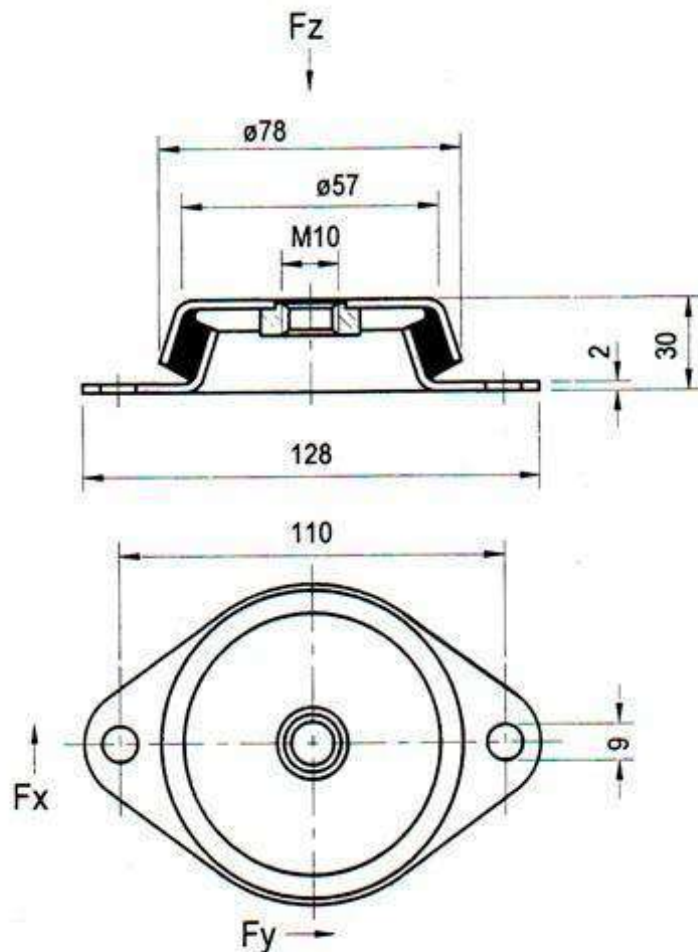


Maximum permissible continuous load F_z zul.
hard 1300 N • medium 800 N • soft 500 N

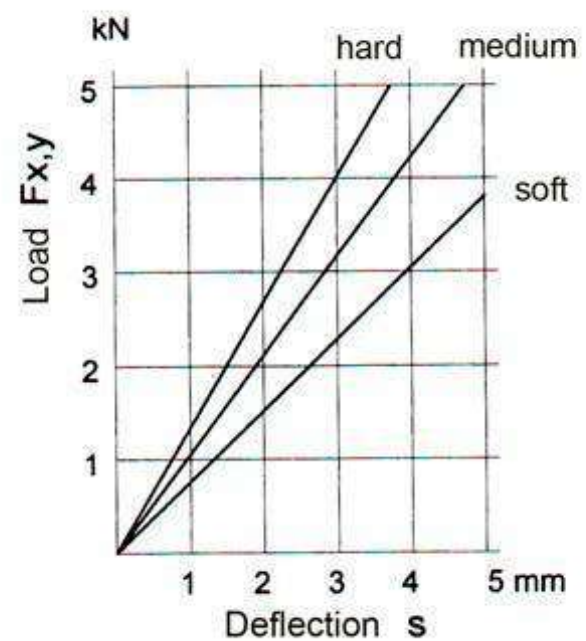
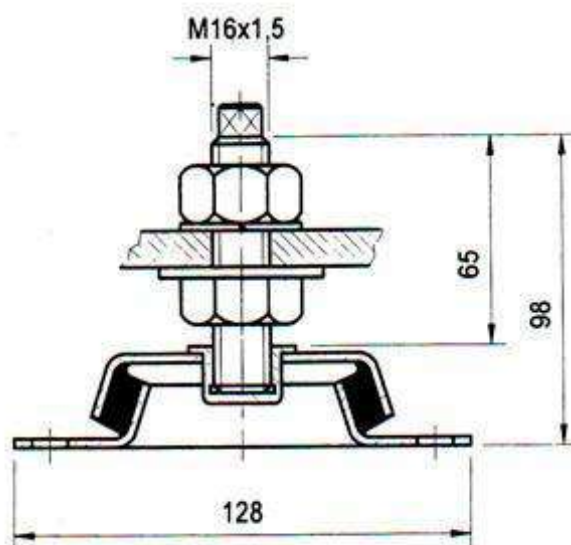


3. STALASTIC RUBBER-METAL MACHINE MOUNTINGS

Article No. **MF 80**



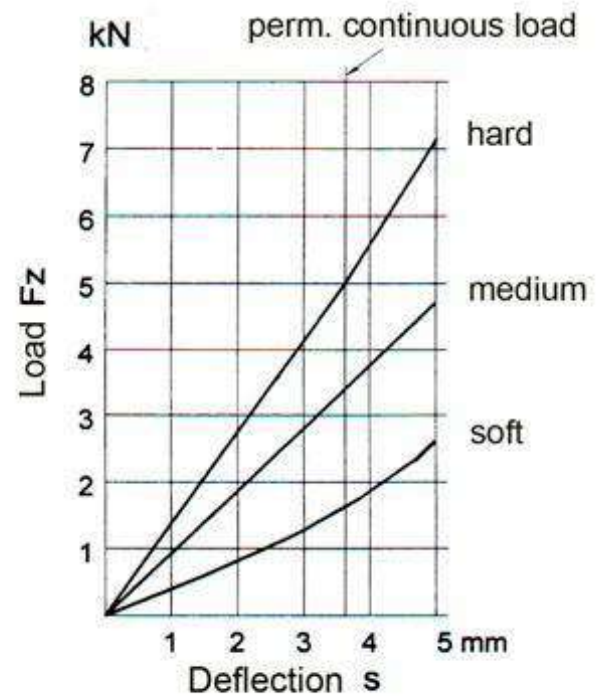
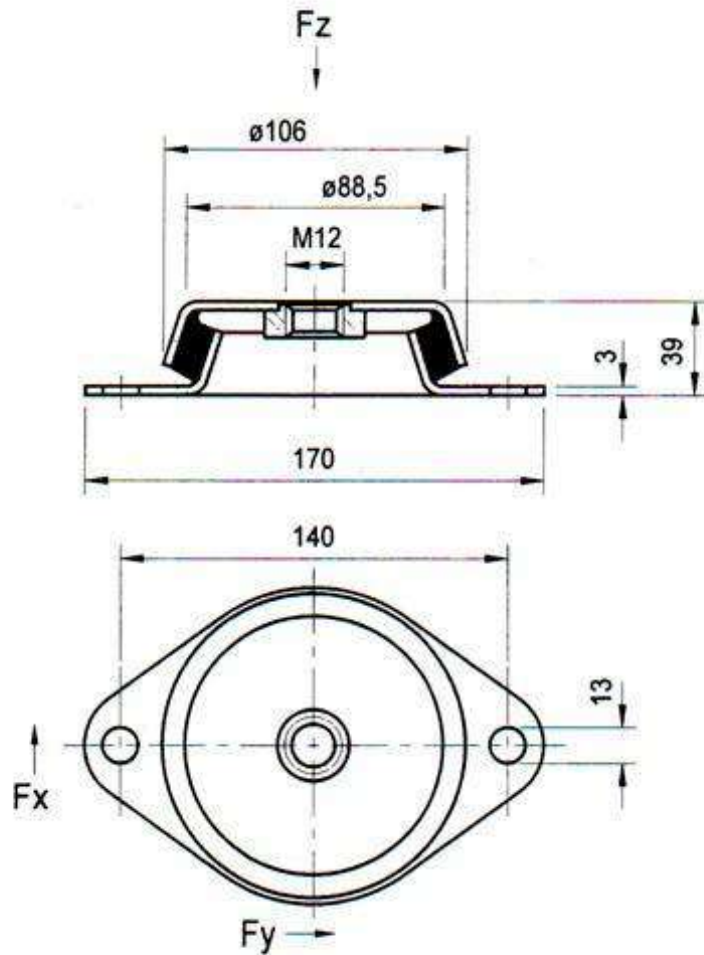
Article No. **MF 80 V** (no stock articles)



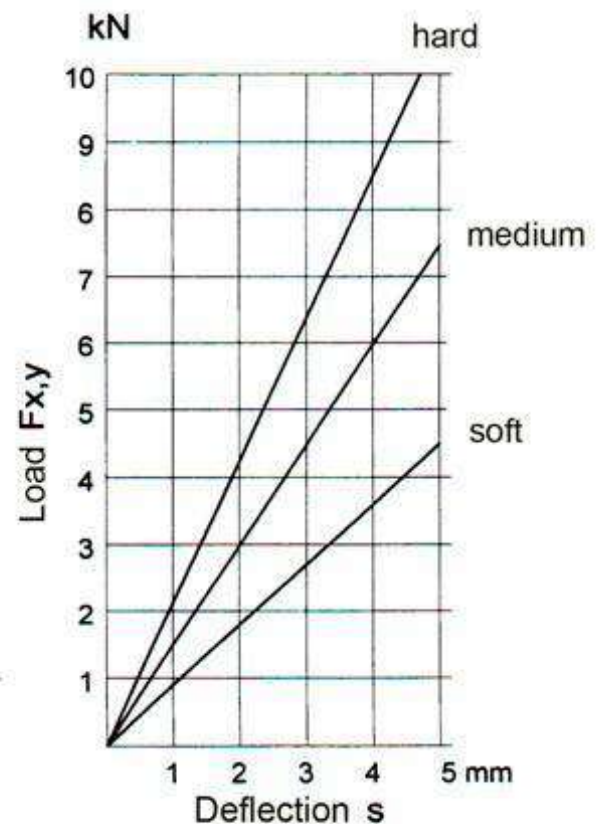
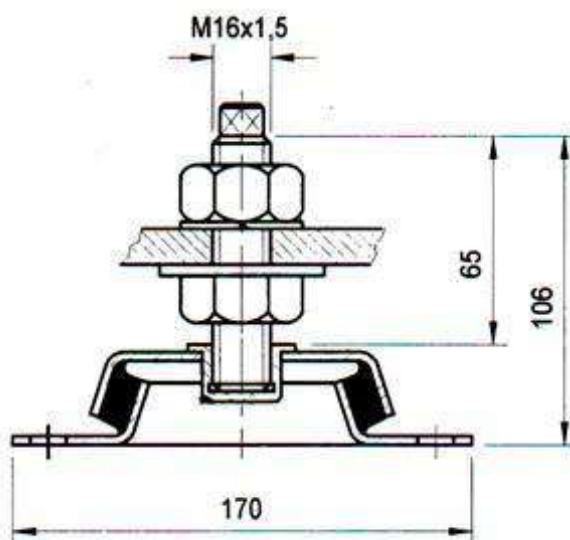


3. STALASTIC RUBBER-METAL MACHINE MOUNTINGS

Article No. **MF 106**



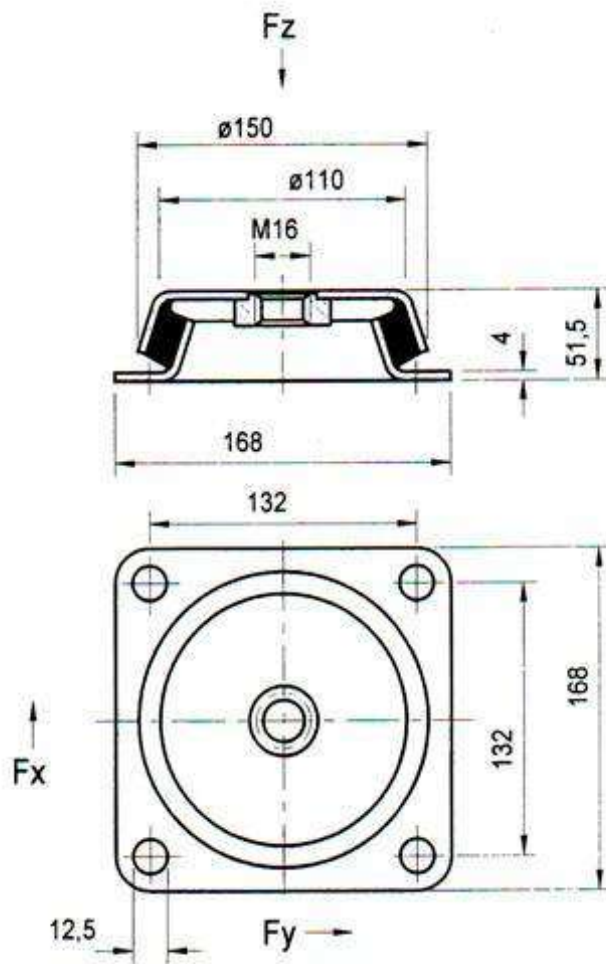
Article No. **MF 106 V**



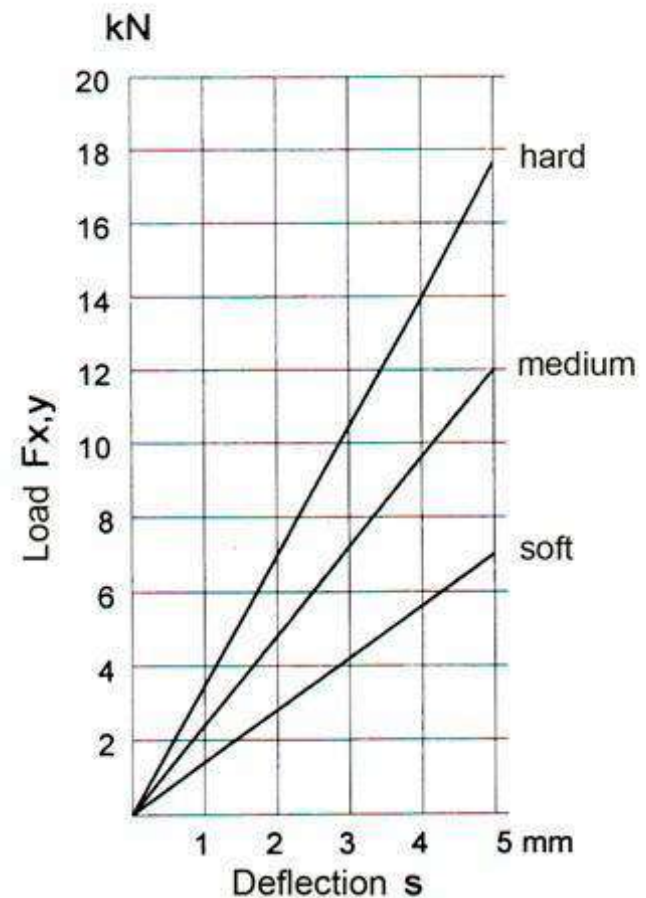
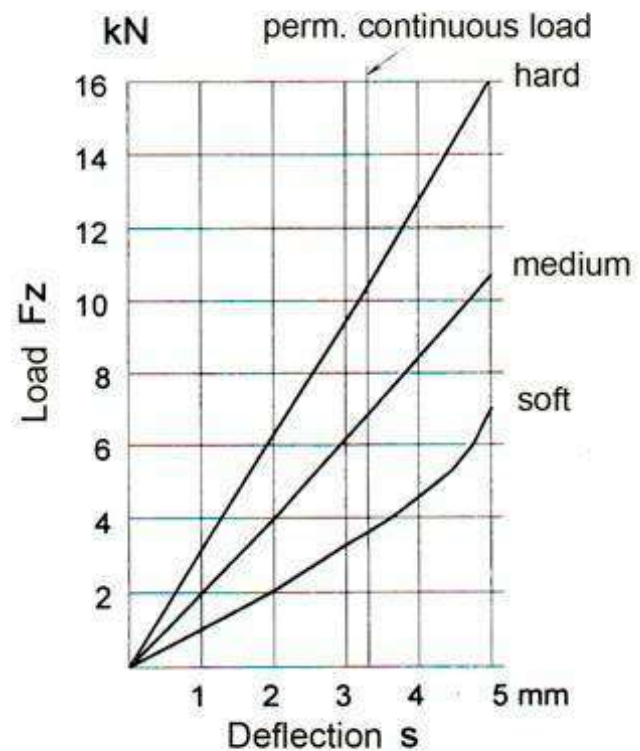
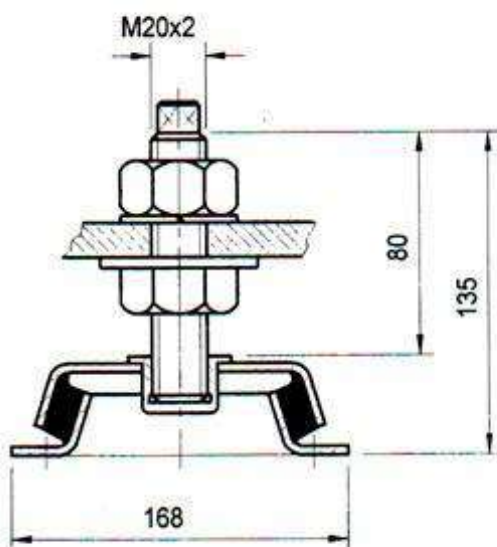


3. STALASTIC RUBBER-METAL MACHINE MOUNTINGS

Article No. **MF 150**



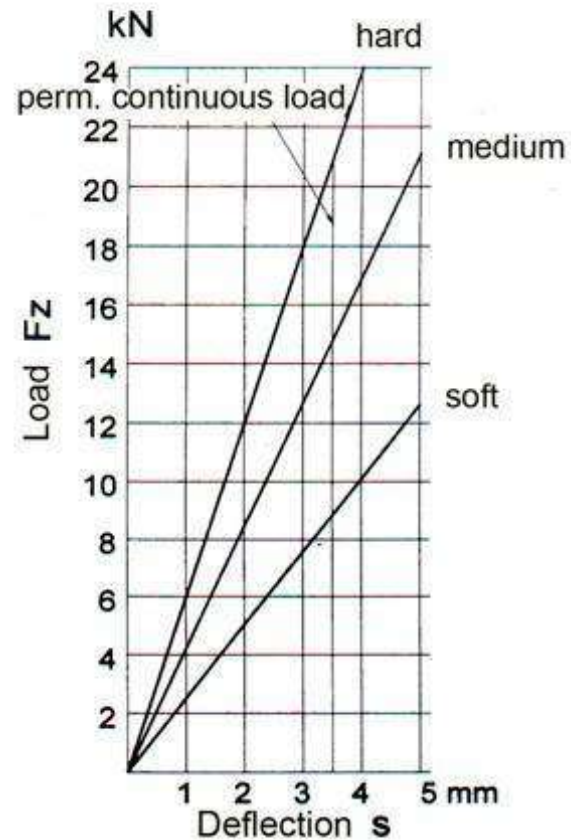
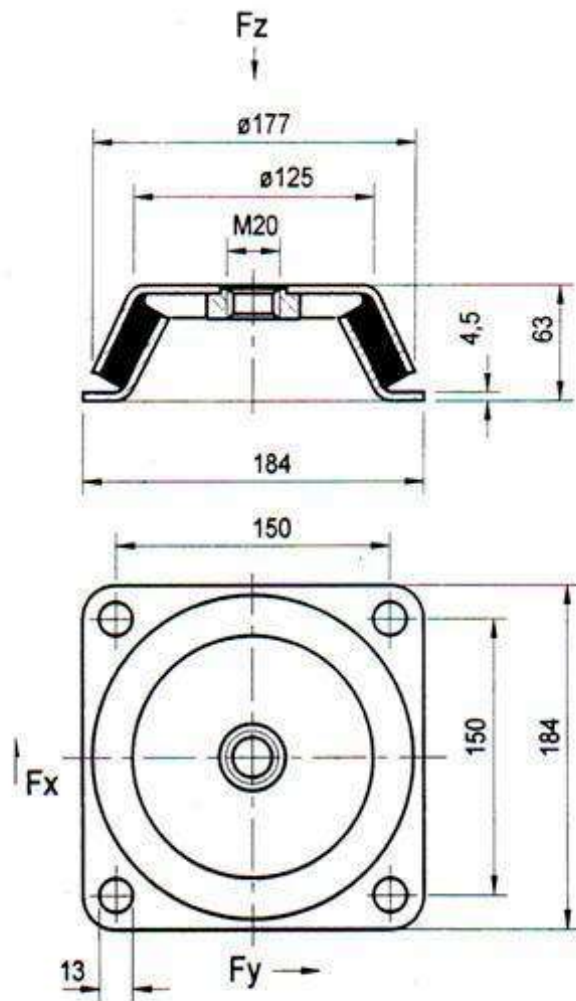
Article No. **MF 150 V**



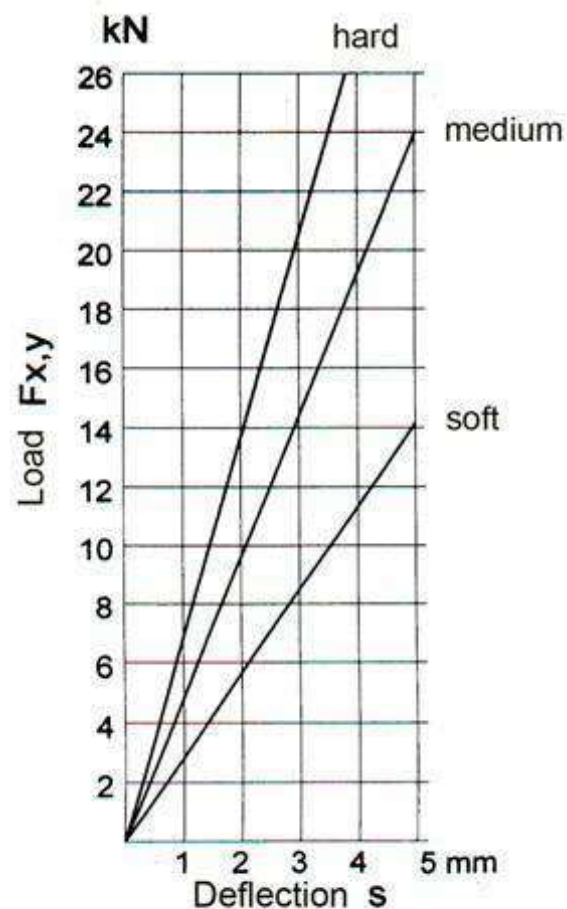
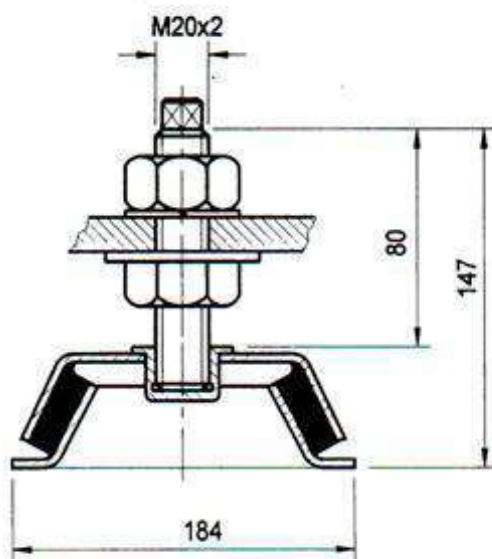


3. STALASTIC RUBBER-METAL MACHINE MOUNTINGS

Article No. **MF 184**

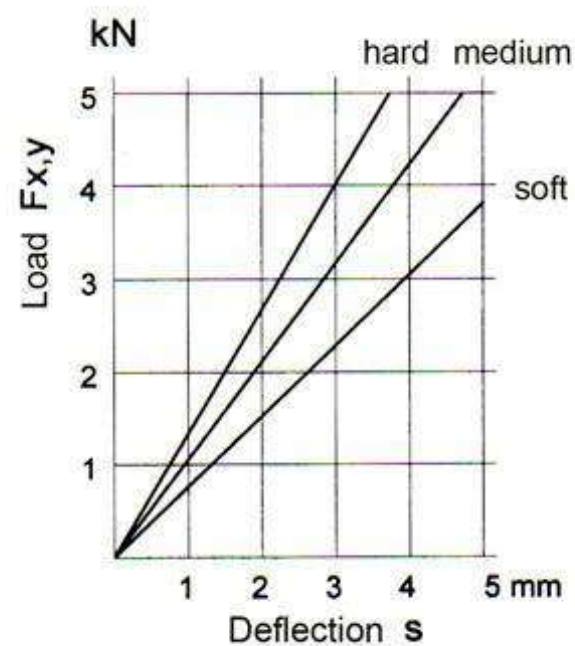
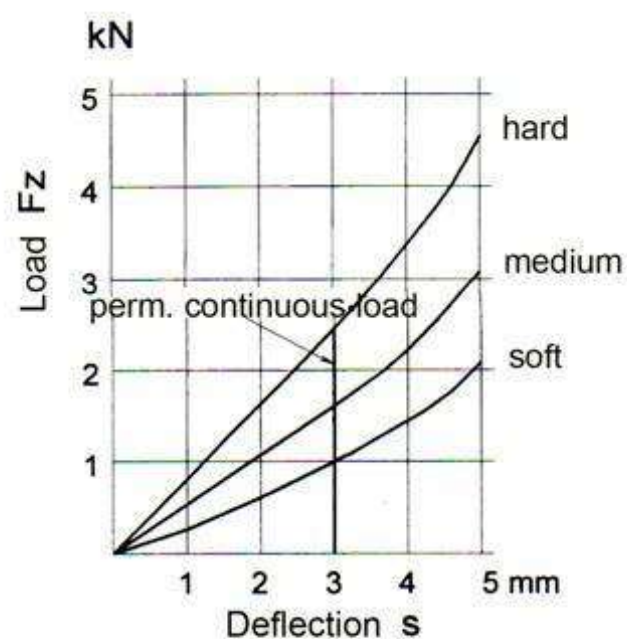
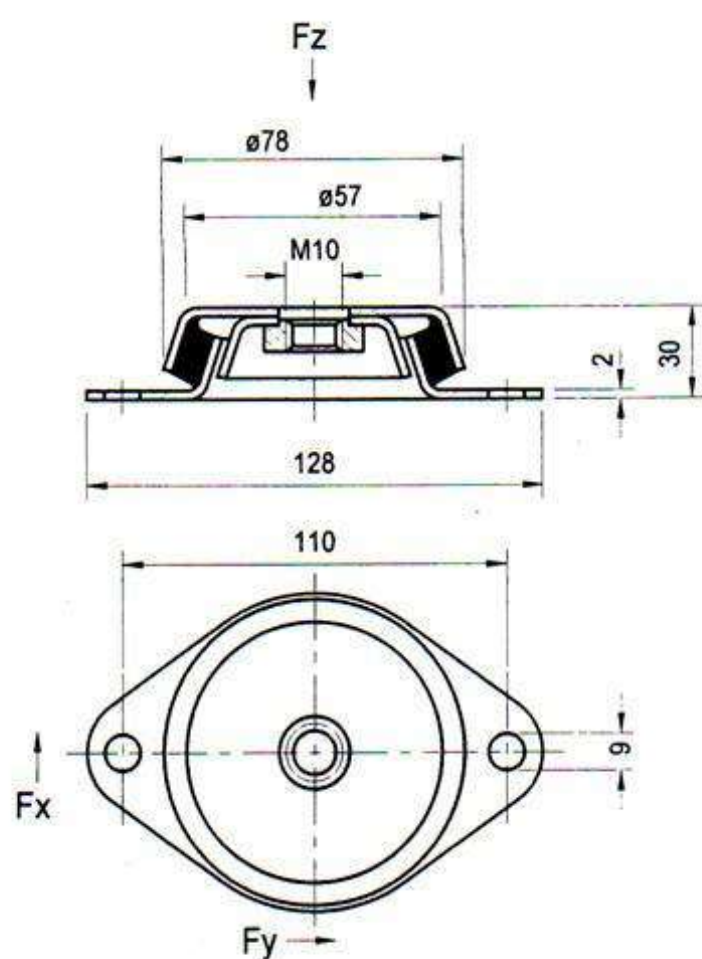


Article No. **MF 184 V**



3. STALASTIC RUBBER-METAL MACHINE MOUNTING with stop plate

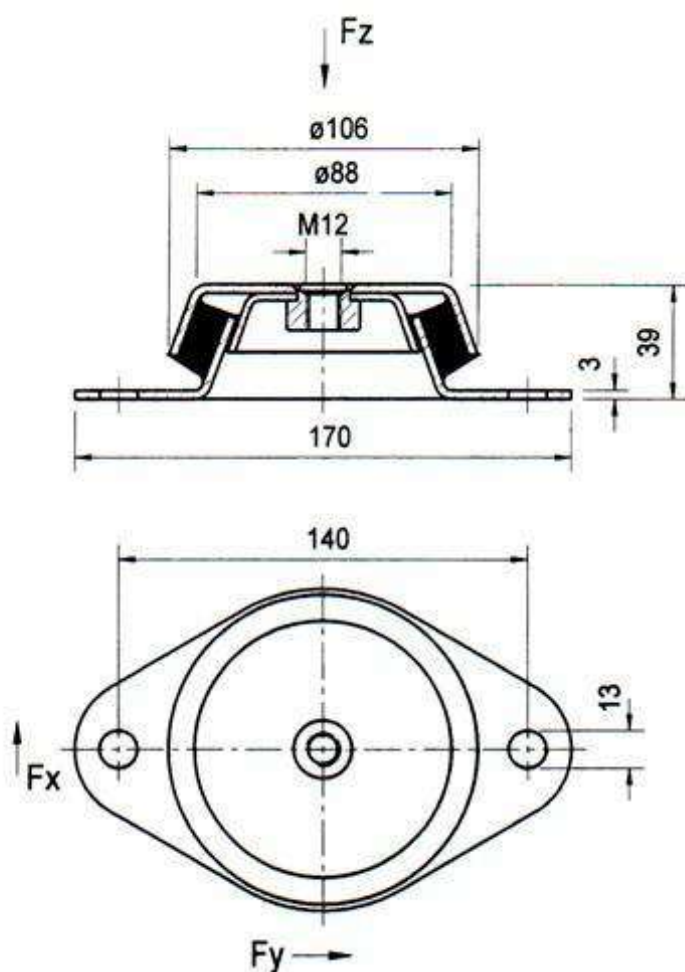
Article No. **MF 80 A**



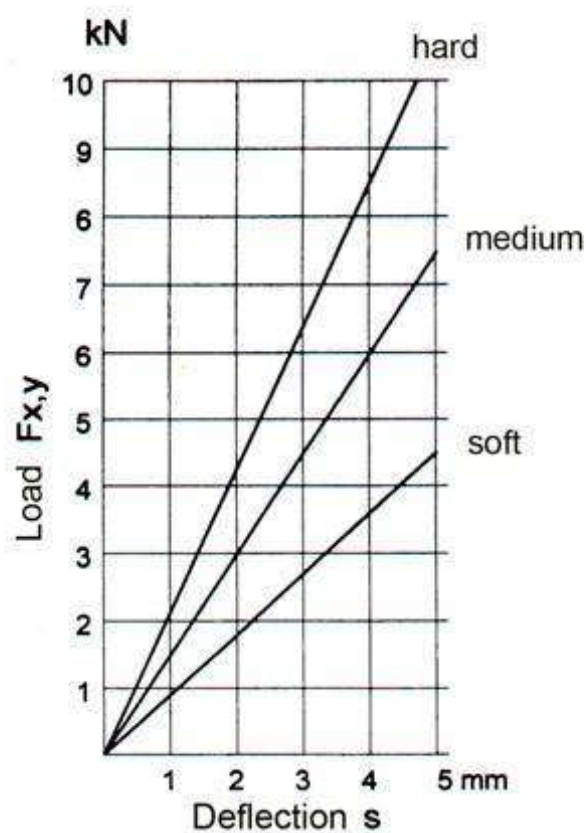
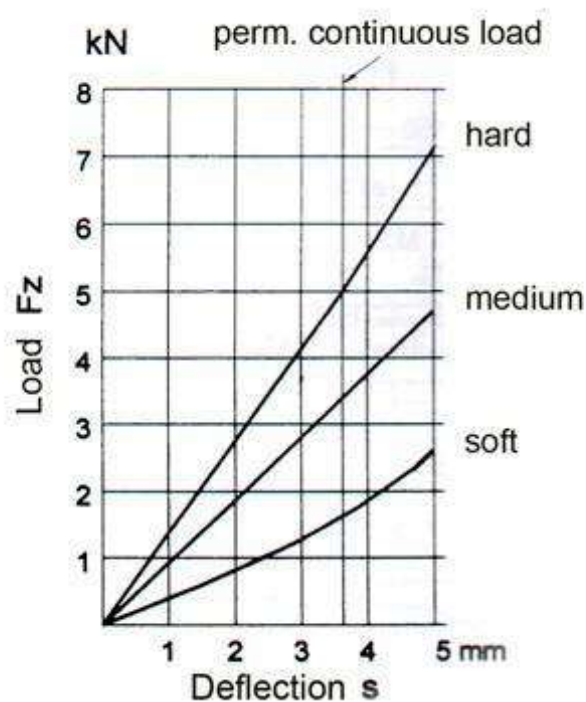
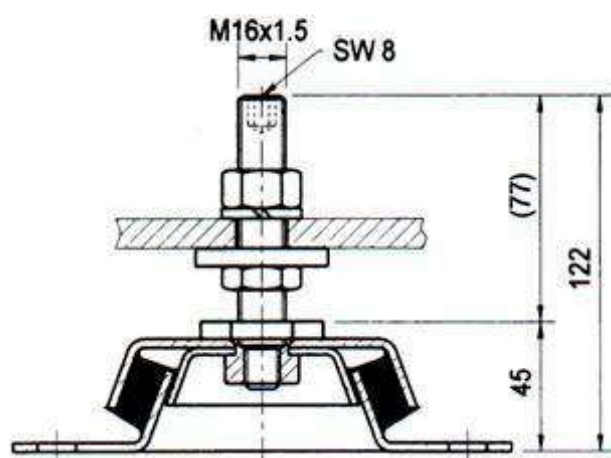


3. STALASTIC RUBBER-METAL MACHINE MOUNTING with stop plate

Article No. **MF 106 A**



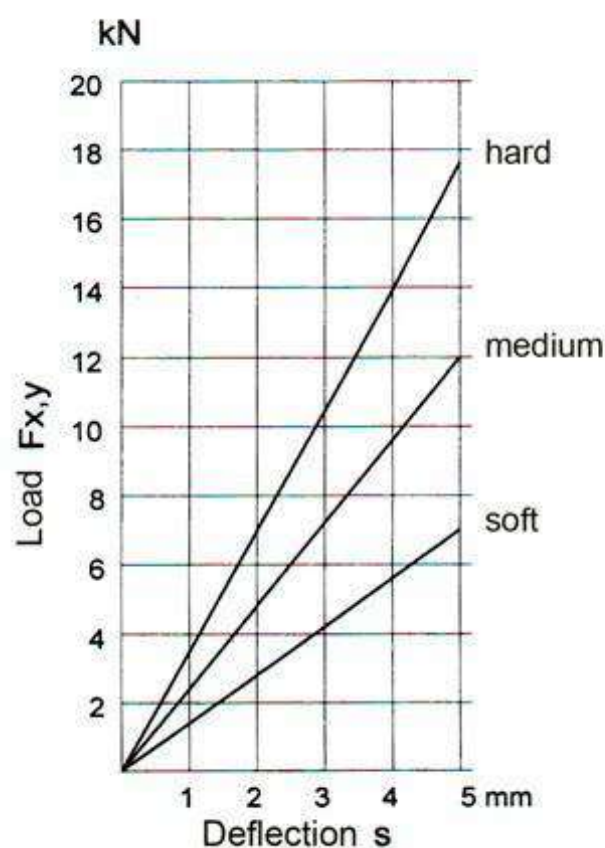
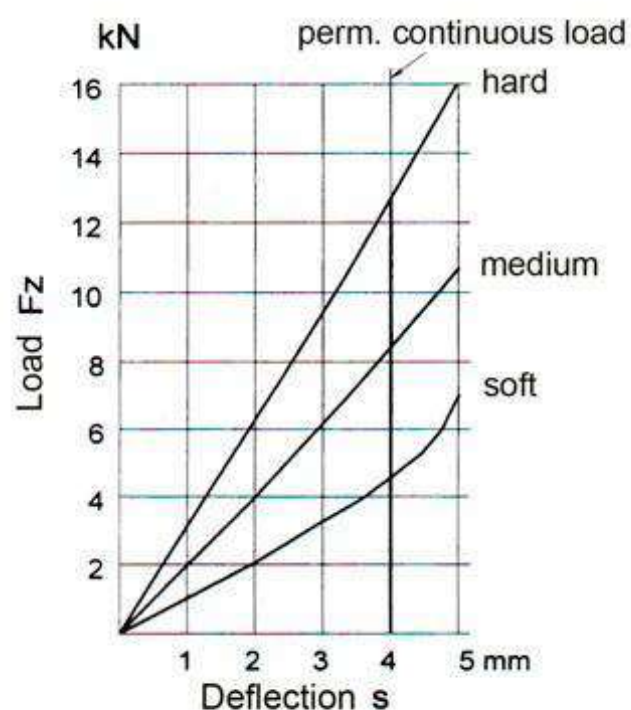
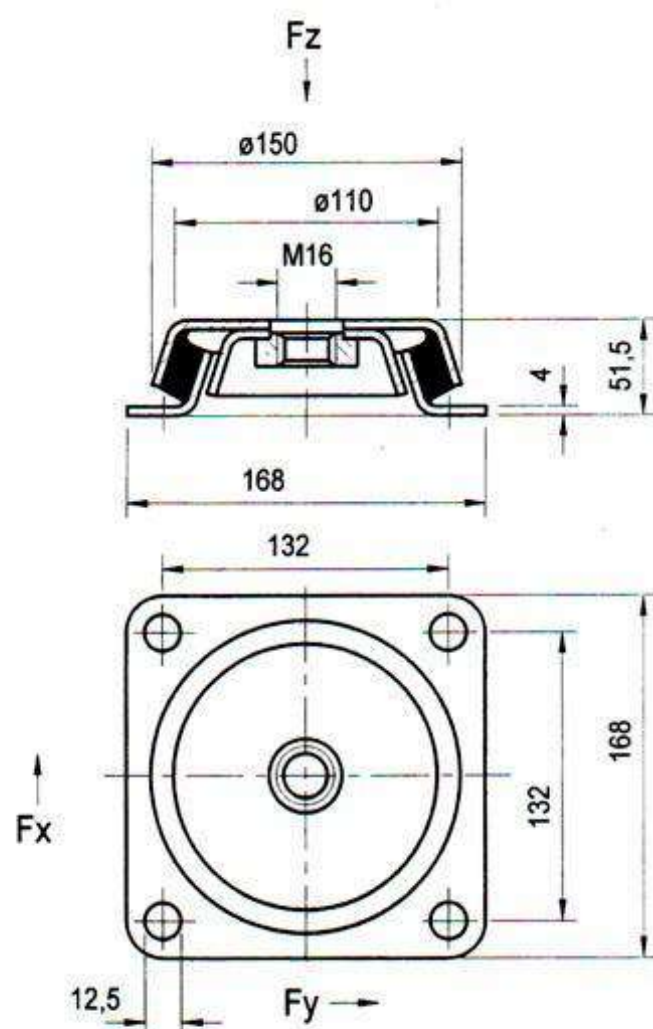
Article No. **MF 106 AV**





3. STALASTIC RUBBER-METAL MACHINE MOUNTING with stop plate

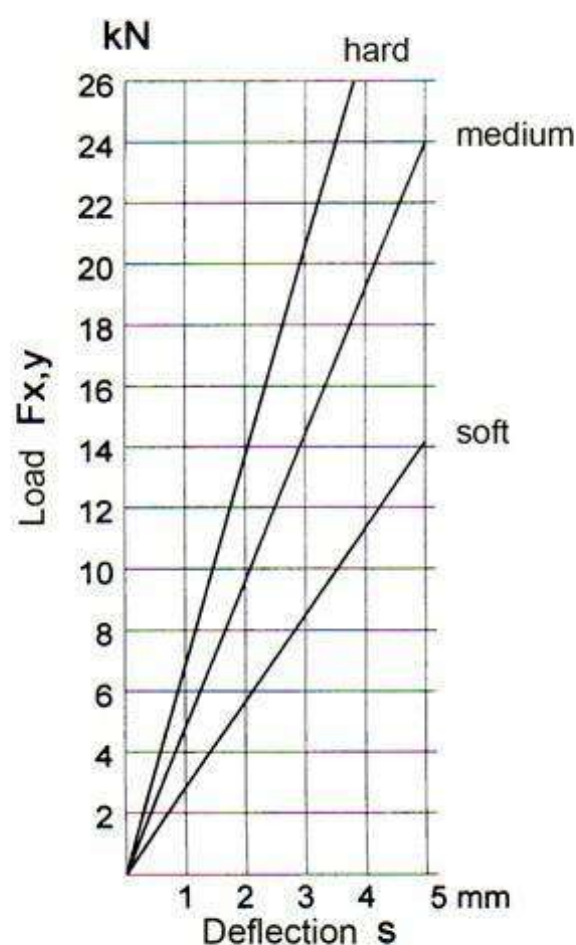
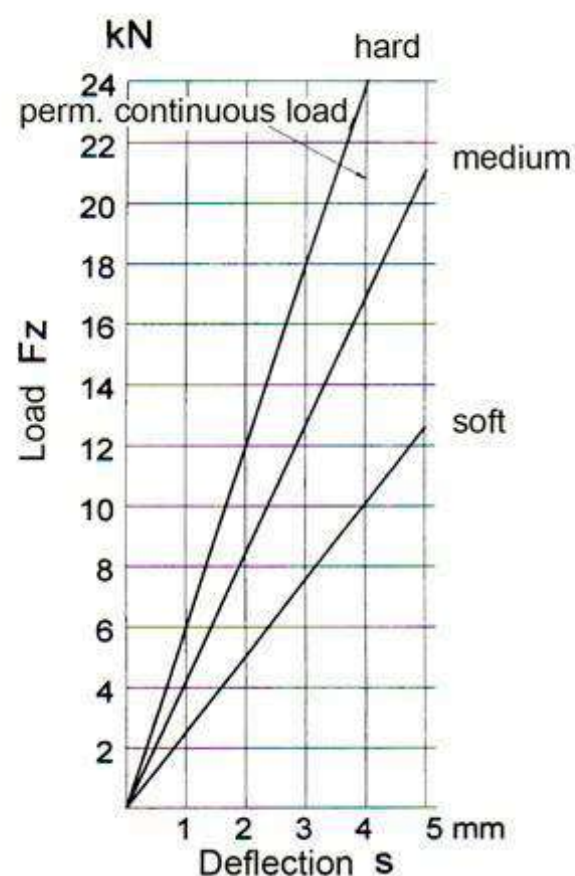
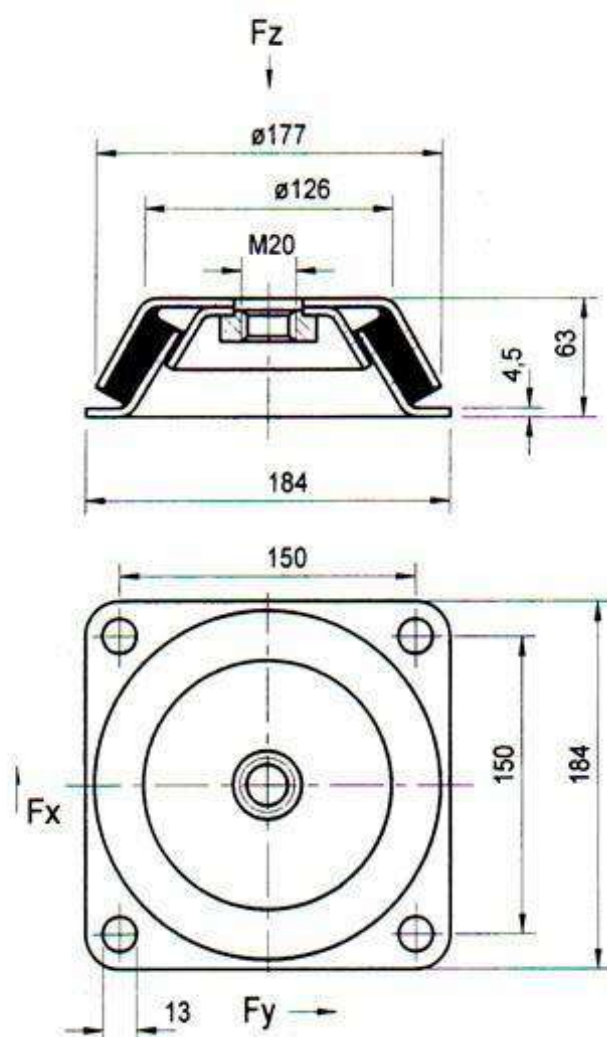
Article No. MF 150 A





3. STALASTIC RUBBER-METAL MACHINE MOUNTING with stop plate

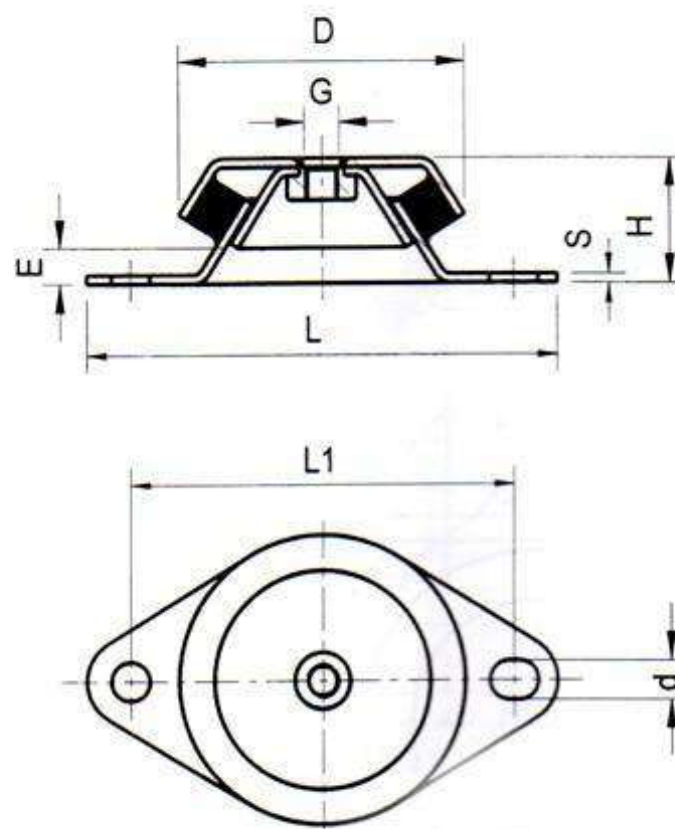
Article No. **MF 184 A**





3. STALASTIC RUBBER-METAL MACHINE MOUNTING with increased protection against splitting apart

The anti-split STALASTIC machine mountings are a further development of the machine mountings in our standard range. We guarantee the protection against splitting apart for tensile forces up to 3g.



Dimensions in mm								Specification				Article No.
								Compression stress		Shear stress		
D	L1	L	H	d	S	G	E	Cz in N/mm	max.load in N	Cs in N/mm	max.load in N	
79	110	130	30	9	3,0	M10	8,5	252 bis 378	950	~ 410	~ 1020	183 230
79	110	130	30	9	3,0	M10	8,5	560 bis 840	1900	~ 680	~ 1560	183 230 S1
82	110	135	35,5	11	2,5	M10	10,0	186 bis 282	1500	~ 350	~ 900	183 231
94	124	150	35	10	3,5	M10	8,5	360 bis 540	1800	~ 440	~ 1250	183 232
94	124	150	35	10	3,5	M10	8,5	800 bis 1200	2700	~ 700	~ 2000	183 232 S1
101	144	175	38	14	3,5	M16	12,5	444 bis 660	2500	~ 670	~ 1670	183 233
101	144	175	38	14	3,5	M16	12,5	972 bis 1458	4500	~ 1140	~ 2850	183 233 S1
123	158	192	42	14	4,0	M16	11,5	640 bis 960	4000	~ 900	~ 2700	183 234
123	158	192	42	14	4,0	M16	11,5	1020 bis 1530	6000	~ 1400	~ 4200	183 234 S1

* For a vertical deflection of approx. 2mm



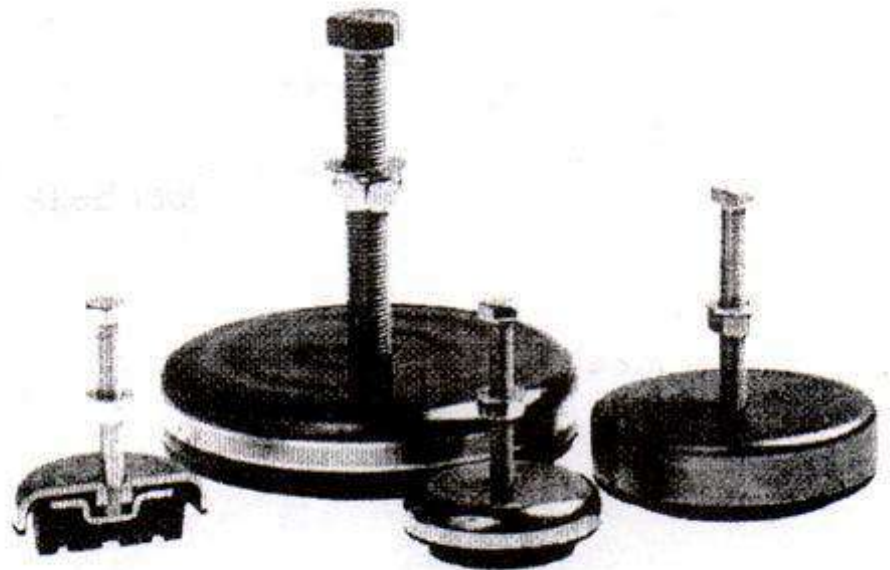
3. STALASTIC MACHINE MOUNTINGS with height adjustment (also available in stainless steel)

Application

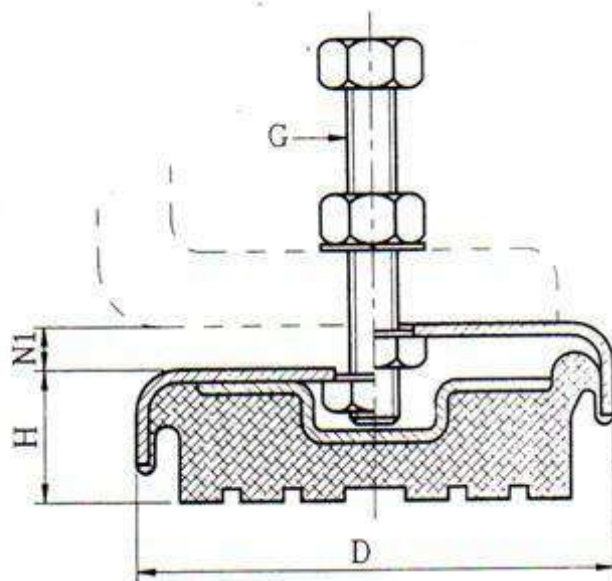
Anchoring-free, height-adjustable bearing blocks for:

- vibration-insulating
- shock-absorbing
- and solid-borne sound insulating mounting

of heavy units, e.g. machine tools and production equipment, break-presses and automatic punching machines.



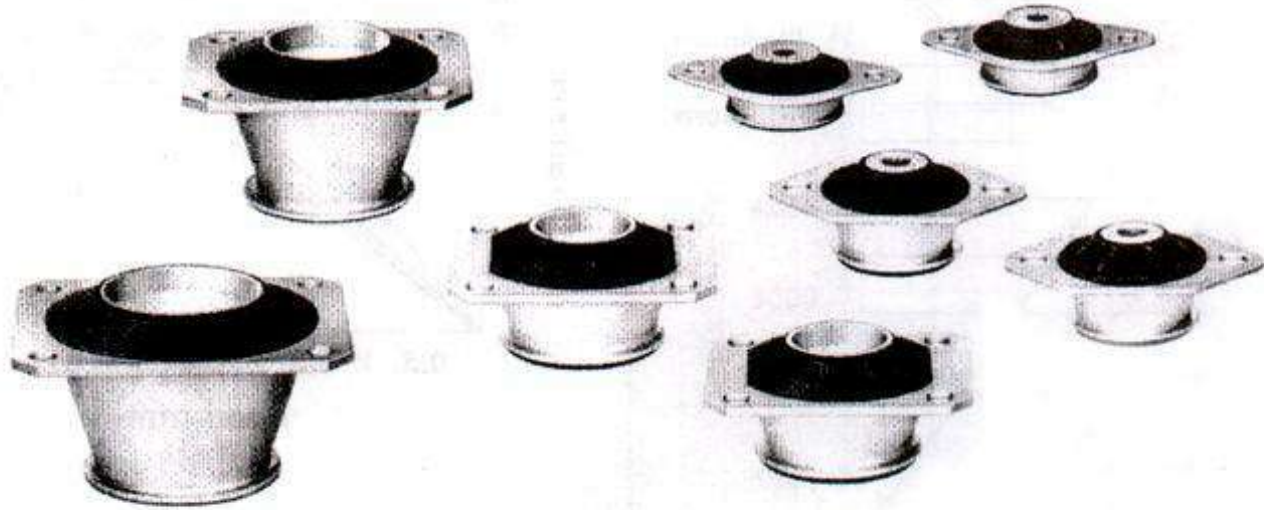
Article No.	Article designation			Dimensions				Perm. stat. max. load per element
				D	H	N1	G	
NM 80	Size of machine foot	80 NBR	70 SH.	80	27	8	M 10 x 80	4 kN
NM 120	Size of machine foot	120 NBR	70 SH.	120	37	10	M 12 x 100	10 kN
NM 160	Size of machine foot	160 NBR	70 SH.	160	37	10	M 16 x 120	40 kN
NM 185	Size of machine foot	185 NBR	70 SH.	185	45	12	M 20 x 160	60 kN



For a hardness other than 70 Shore, please state the required Shore hardness when ordering this article number.



4. STALASTIC RUBBER-METAL CONES



Applications

STALASTIC cones are ideal for oscillation-damped, i.e. low-vibration bearing arrangements for motors, bodywork mounted on chassis frames, compressor units on rail cars etc. There are transverse recesses in the STALASTIC cones used for piston engines, so that the elasticity constant in the longitudinal direction is different from that in the transverse direction.

Specification

STALASTIC cones cover a range of loading from 400 N to 17 kN, depending on the cone and the quality of rubber used. The spring characteristic values will be found in the diagrams.

Description

STALASTIC cones consist of inner and outer metal cones. The outer cone has an oval or rectangular flange for mounting purposes. Stop plates are fitted in order to limit deformation under compression and tension. Where extremely high stressing takes place, these stop plates prevent separation of the cone components. Axial impact can be progressively absorbed by the upper stop plate which, if compression force is excessive, rests on the upper rubber shoulder. If tensile forces are excessive, the inner cone can be deflected only until the bottom stop plate comes up against the lower collar of the outer cone. STALASTIC cones are so designed that the springing is soft axially and very stiff radially.



4. STALASTIC RUBBER-METAL CONE

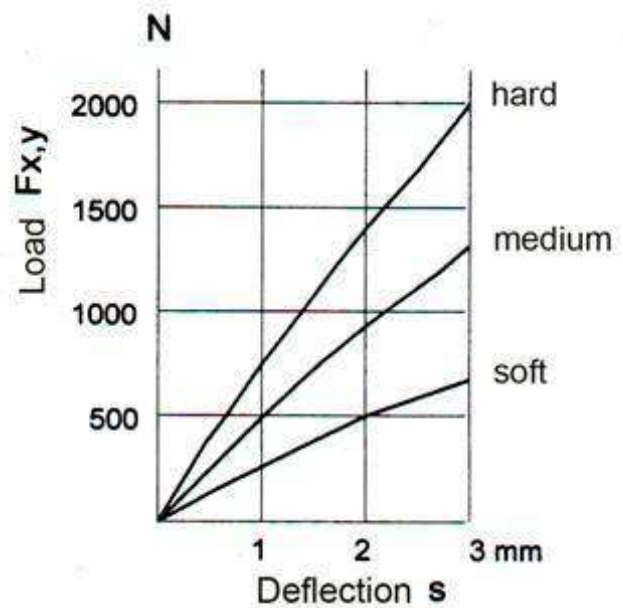
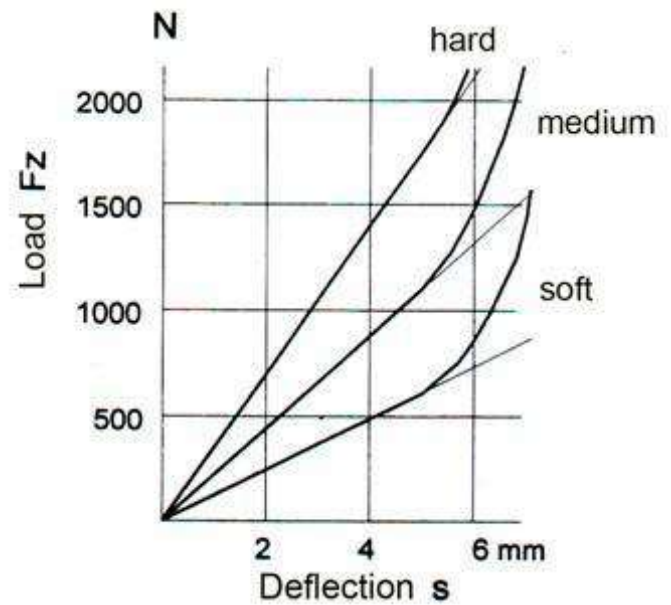
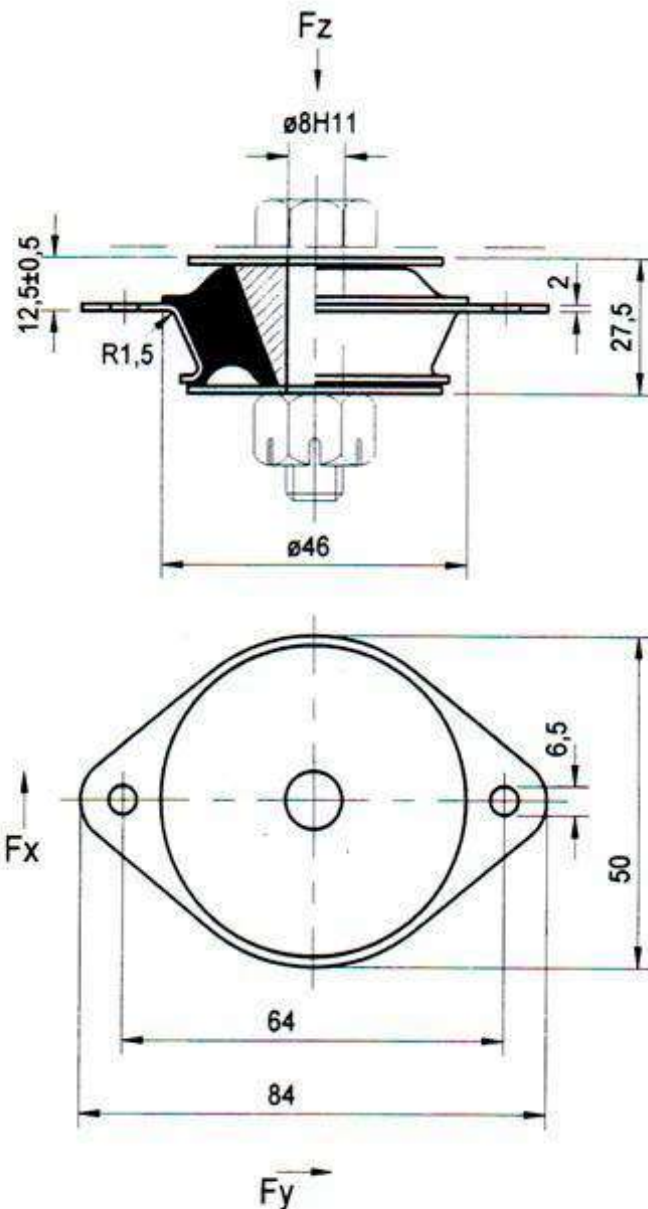
Article No. **K 45**

The permissible maximum static loads F_z for the various rubber hardnesses are

hard: approx. 70 Shore A = 1100 N

medium: approx. 60 Shore A = 700 N

soft: approx. 45 Shore A = 400 N





4. STALASTIC RUBBER-METAL CONE

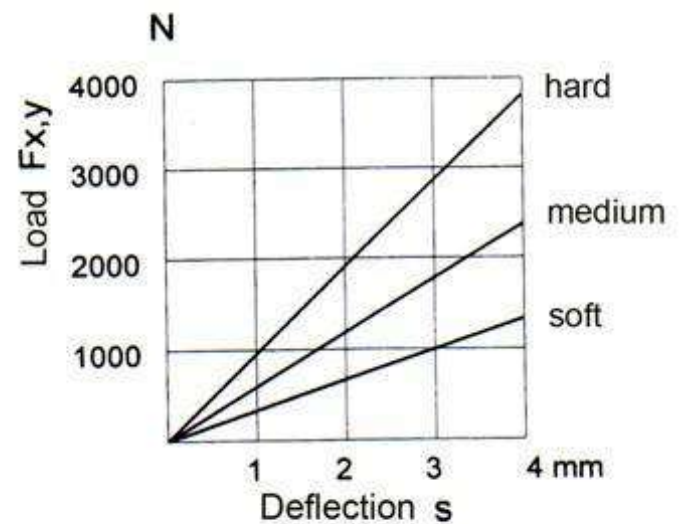
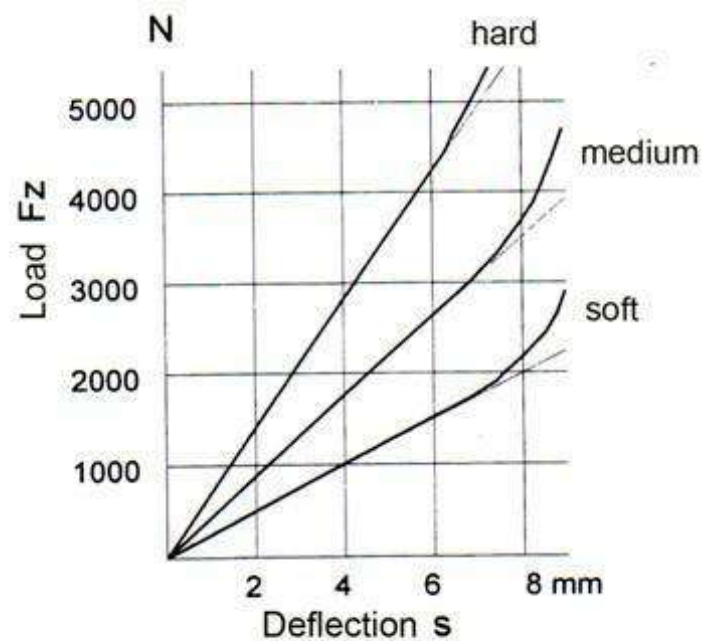
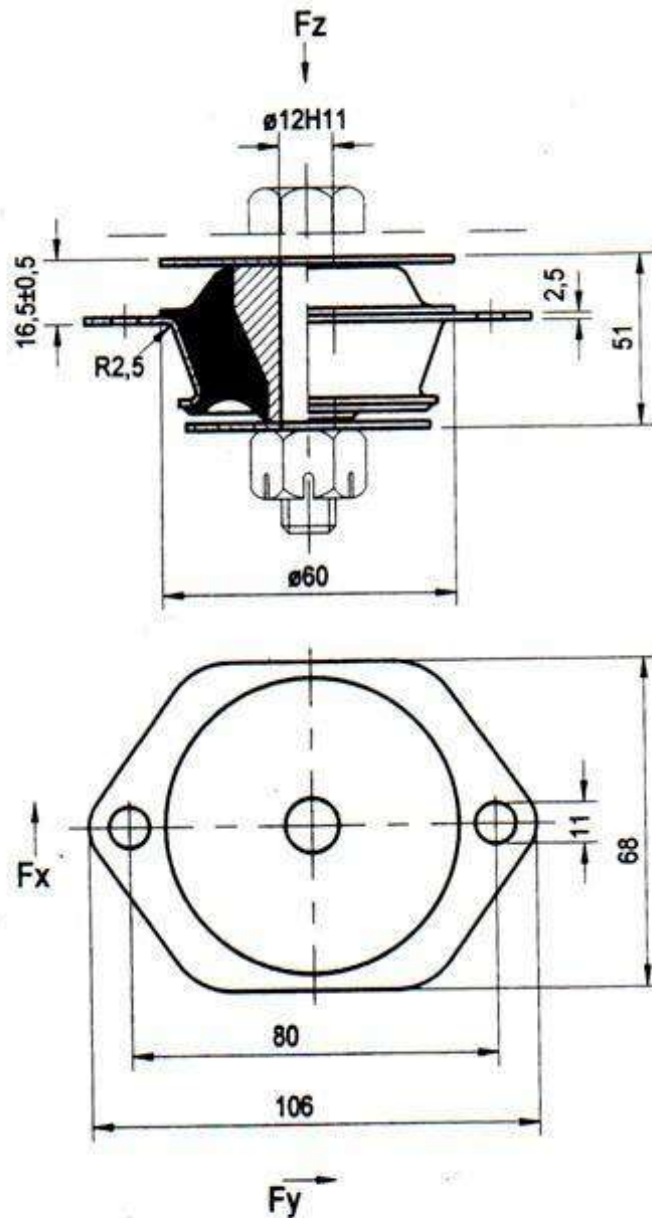
Article No. **K 56**

The permissible maximum static loads F_z for the various rubber hardnesses are

hard: approx. 70 Shore A = 2200 N

medium: approx. 60 Shore A = 1400 N

soft: approx. 45 Shore A = 800 N





4. STALASTIC RUBBER-METAL CONE

Article No. **K 74 E**

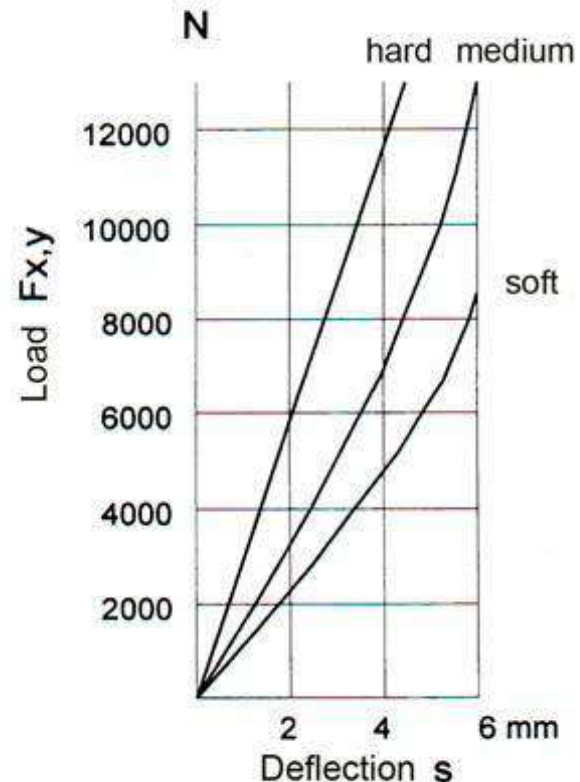
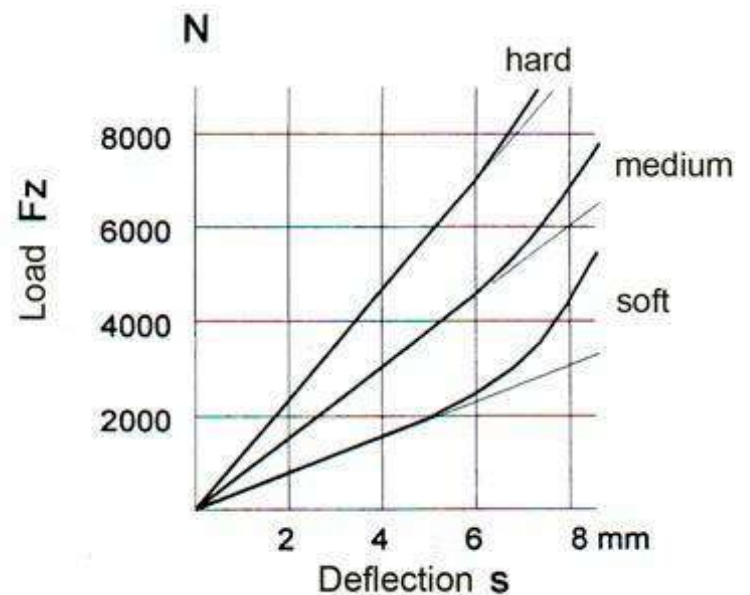
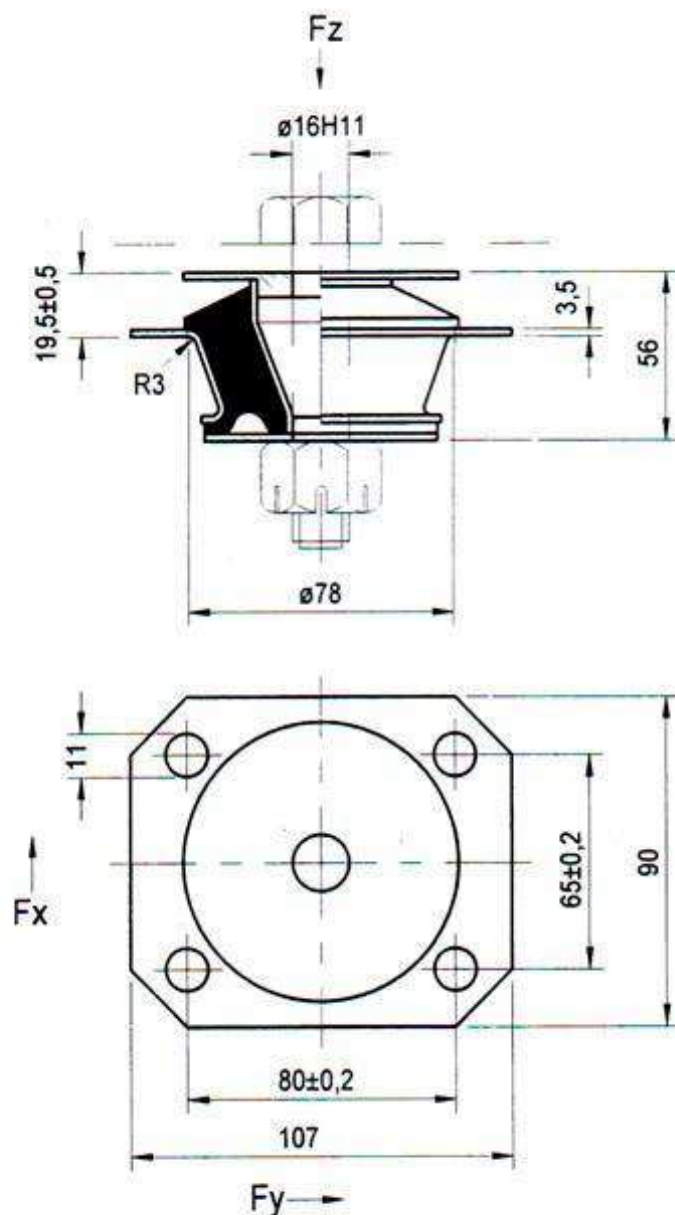
Special types used for piston engine bearings. They have transverse radial recesses, so that they are much softer transversely than longitudinally.

The permissible maximum static loads F_z for the various rubber hardnesses are

hard: approx. 70 Shore A = 4100 N

medium: approx. 60 Shore A = 2800 N

soft: approx. 45 Shore A = 1500 N





4. STALASTIC RUBBER-METAL CONE

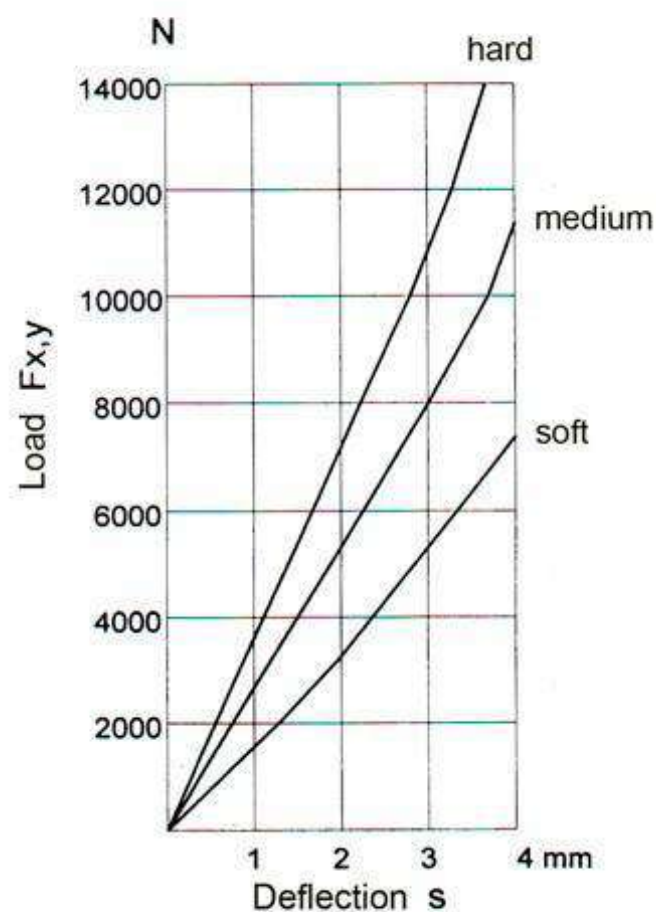
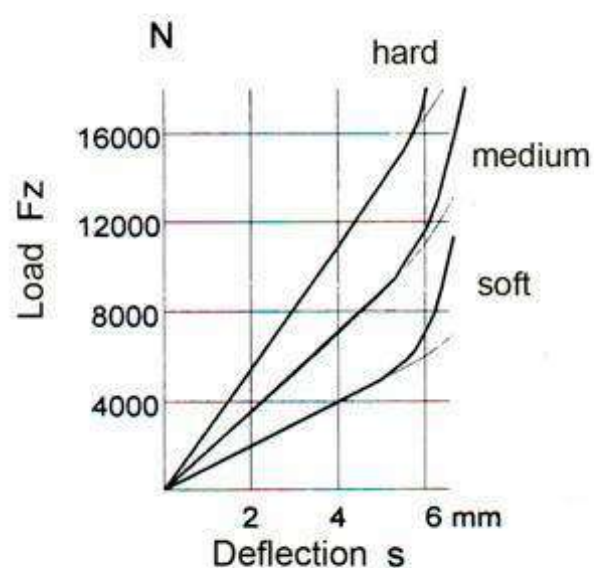
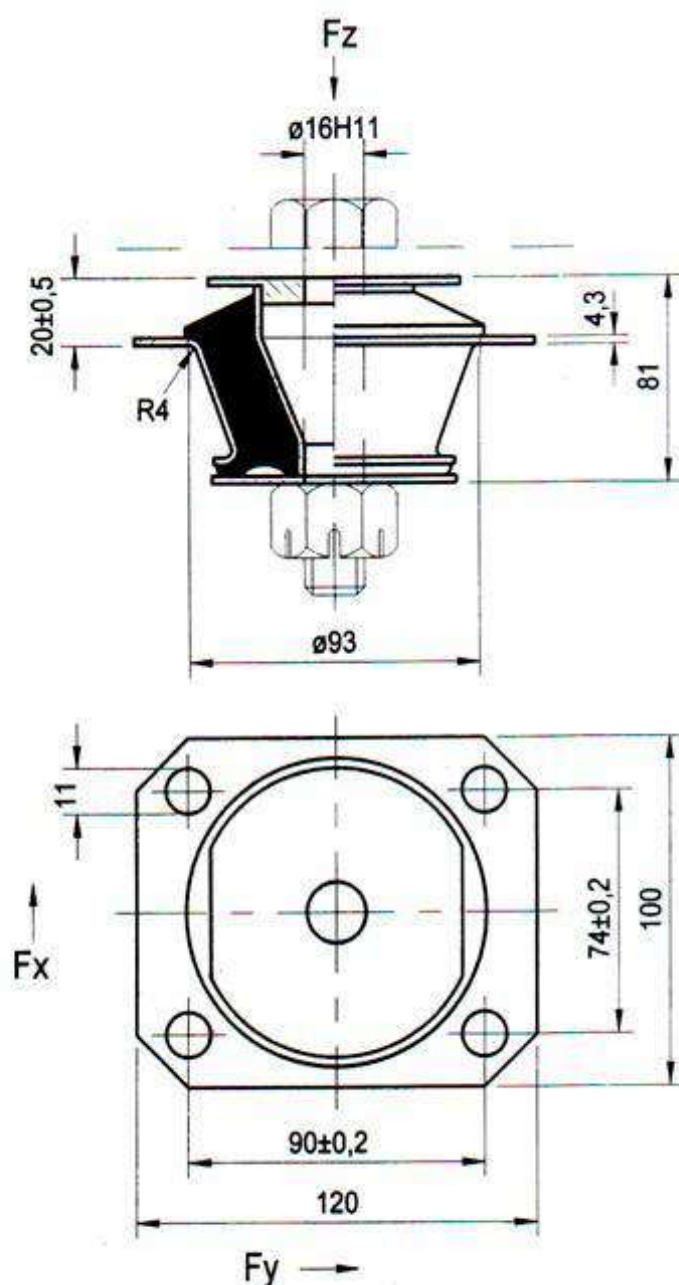
Article No. **K 87**

The permissible maximum static loads F_z for the various rubber hardnesses are

hard: approx. 70 Shore A = 9300 N

medium: approx. 60 Shore A = 6000 N

soft: approx. 45 Shore A = 3000 N





4. STALASTIC RUBBER-METAL CONE

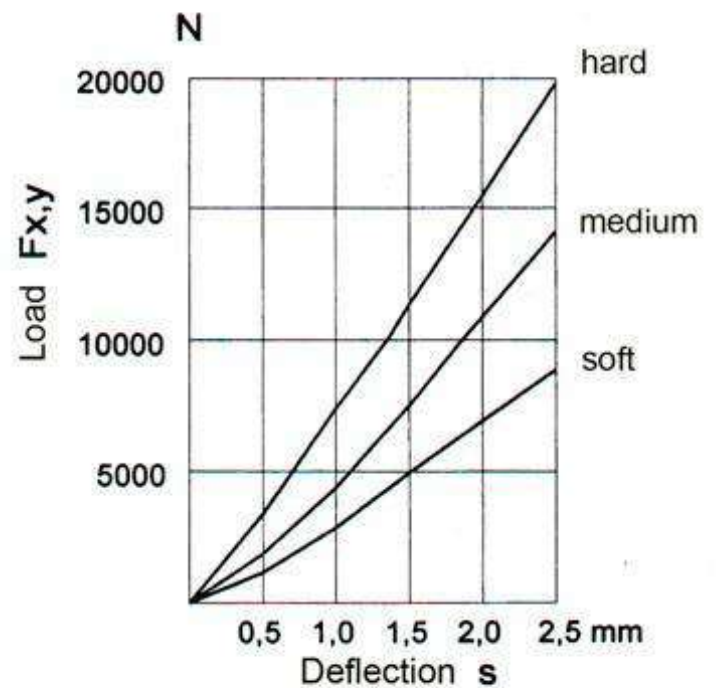
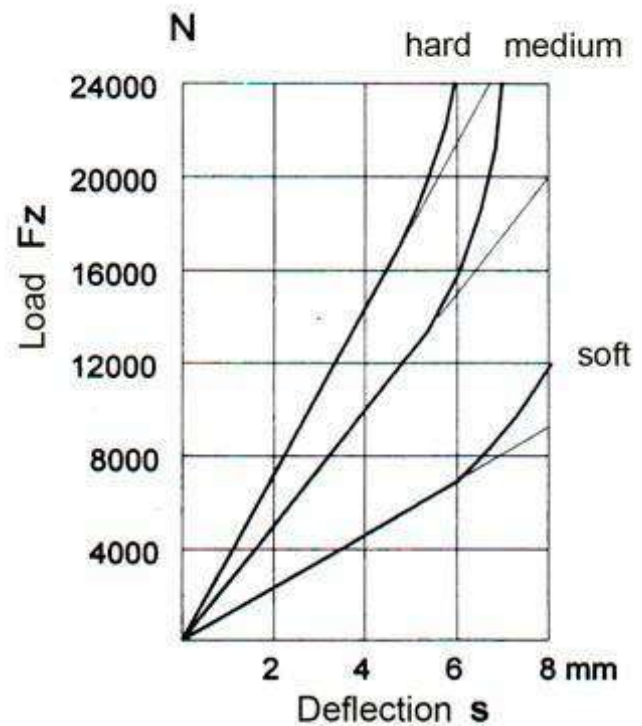
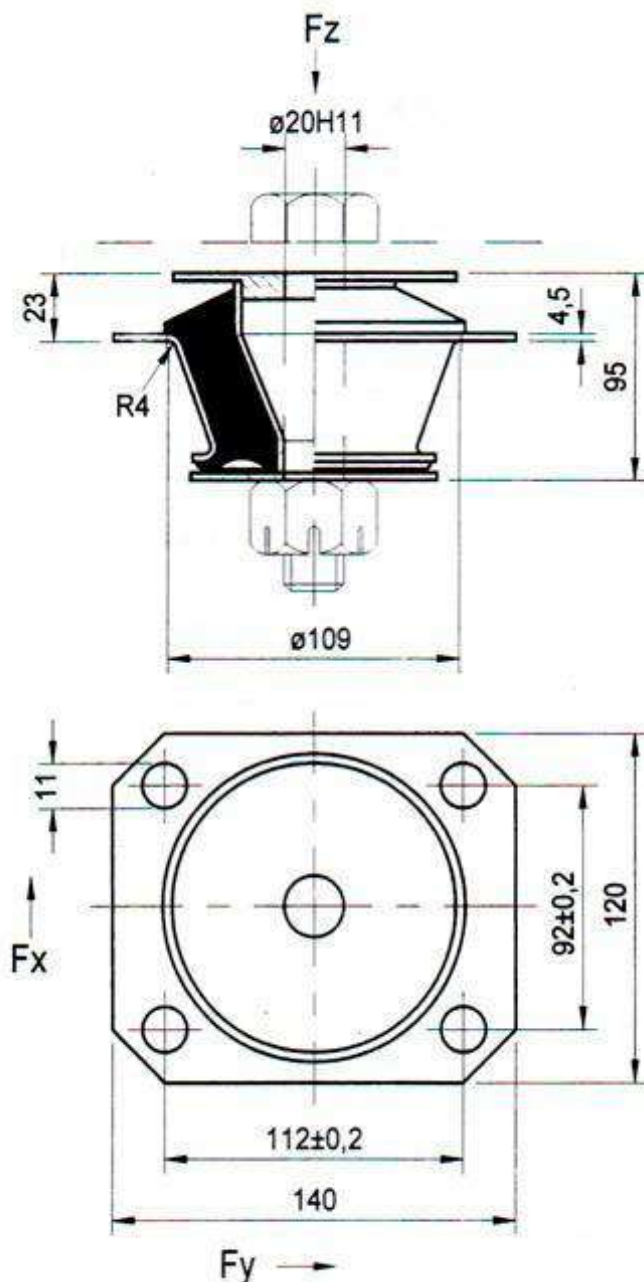
Article No. **K 110**

The permissible maximum static loads F_z for the various rubber hardnesses are

hard: approx. 70 Shore A = 16700 N

medium: approx. 60 Shore A = 12000 N

soft: approx. 45 Shore A = 6500 N



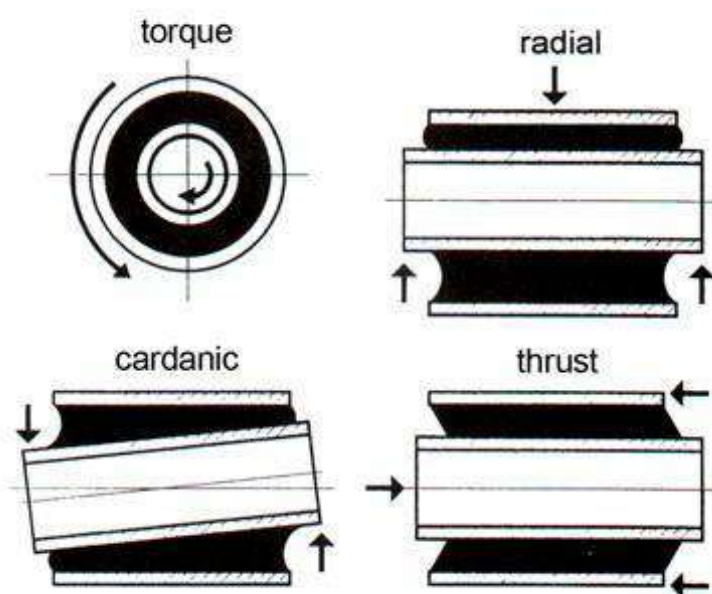


5. STALASTIC RUBBER-METAL BUSHES

STALASTIC bushes can be subjected to radial, axial and torsional loads without the rubber being displaced in relation to the metal parts. A small cardanic angular displacement of the axis of the inner tube, or vice versa, is possible. The bearings are, however, relatively resistant to such angular displacements, the resistance depending on the thickness, hardness and length of the rubber part.

The maximum continuous and peak radial, thrust and torsional loads can be seen in the table. They apply to a highly elastic and especially durable rubber with a Shore A hardness of approximately 50°.

Types of deformation



STALASTIC RUBBER-METAL HL BUSHES

Dimensions				Specification									Article No.	No. in pack
				Radial load		Axial load		Torsion						
Outside diameter	Inside diameter	Length of inner tube	Length of outer tube	max. stat. radial load	radial spring constant	max. stat. axial load	axial spring constant	max. stat. torsional angle	max. stat. torque	Torsional spring constant	max. peak torsional angle	max. peak torque		
				D mm	d mm	l mm	L mm	Fr N	cr N/mm	Fa N	ca N/mm	φ Grad		
22±0,08	8H11	16±0,2	10+0,2	100	196	140	69	13	0,7	0,054	26	1,4	B 061	100
24+0,08	10H9	17±0,1	14+0,5	200	491	160	103	15	1,3	0,09	30	2,6	B 009 S 2	100
26+0,08	12H9	24±0,2	17,5+0,2	690	1962	680	226	13	4,4	0,338	26	9	B 035	60
26+0,08	12H9	36±0,2	32+0,2	1370	3924	840	422	13	8	0,61	26	15	B 091	—
30±0,08	13H9	40-0,4	40-0,4	1670	3335	---	392	15	9	0,6	30	18	B 059	—
30±0,08	14±0,15	76±0,1	67±0,1	3920	8829	2310	765	15	19	1,24	30	37	B 067	15
34±0,15	18H11	36+0,2	32+0,5	1570	3237	830	417	14	12	0,9	28	25	B 043	30
40±0,2	26±0,2	45±0,2	40-0,2	4910	14715	2550	1020	7	28	3,9	14	55	B 081	—
45±0,08	20H9	47,5±0,5	40-0,2	1670	1864	1370	363	15	20	1,3	30	40	B 080	—
45+0,08	20H9	62,5±0,2	55-0,2	3430	3924	1860	540	15	22	1,5	30	44	B 022 S1	10
45+0,08	20H9	62,5±0,2	59,5-0,2	3920	4905	910	608	15	30	2	30	60	B 022	10
48-0,1	27,8H9	67±0,2	60±0,2	8830	14715	3340	961	11	60	5,3	22	120	B 074	—
48-0,1	27,8H9	73±0,2	60±0,2	8830	14715	6300	961	11	60	5,3	22	120	B 075	6
50±0,2	25H9	67,5±0,2	65,5+0,2	6380	6082	760	755	15	60	3,9	30	120	B 040	6
52±0,25	25H9	82,5±0,5	77-0,2	8830	8829	2310	824	15	70	4,6	30	140	B 079	—
55+0,08	25H9	93,5±0,2	89,5-0,2	9610	8829	1650	824	15	70	4,6	30	140	B 023	—
55+0,08	30H11	94±0,2	89,5-0,2	13730	16677	2600	1177	13	100	7,6	26	200	B 078	4
68h11	25H9	75±0,2	48±0,1	1960	981	4120	314	15	38	2,5	30	75	B 019	—
70 ^{+0,7} _{+0,5}	50+0,1	60±0,2	60±0,2	11770	19620	---	1511	6,5	140	21,1	13	270	B 039	4
75-0,5	40+0,2	70±0,5	57-0,5	5890	4611	4510	697	14	130	9,1	28	260	B 038	4
80 ^{+0,3} _{+0,1}	35H9	60-0,2	50-0,2	3430	2453	2500	500	15	93	6,2	30	190	B 087	—
80±0,35	50H11	37±0,2	32-0,2	1960	1962	1230	491	11	120	10,7	22	240	B 084	—
80±0,35	50H11	100±0,2	95-0,2	14720	14715	3430	1373	11	260	23,2	22	510	B 083	2
85+0,5	36H9	102±0,5	85±0,1	6870	2943	4910	598	15	120	7,8	30	240	B 077	—



5. STALASTIC RUBBER-METAL HL BUSHES – tolerance fields

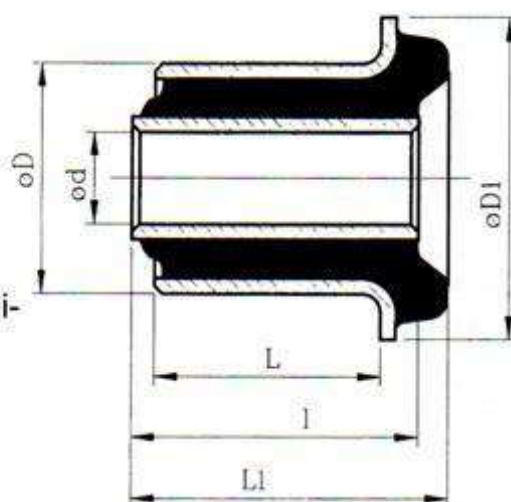
Article No.	For outside diameter D mm	Tolerance fields for inside bore diameter Proposed press fit			For insided diameter d mm	Tolerance fields for diameter of outside axis Proposed press fit	
		1	2	3		1	2
B 061	22±0,08	22 ZA8	---	---	8H11	8 zc9	---
B 009 S 2	24±0,08	24 P8	24 N7	24 N8	10H9	10 z8	---
B 035	26±0,08	26 P8	26 N7	26 N8	12H9	12 z8	---
B 091	26±0,08	26 P8	26 N7	26 N8	12H9	12 z8	---
B 059	30±0,08	30 Z8	30 ZA8	---	13H9	13 z8	---
B 067	30±0,08	30 Z8	30 ZA8	---	14±0,15	14 zc9	---
B 043	34±0,15	34 ZA8	34 ZA9	---	18H11	18 zb9	---
B 081	40±0,2	40 ZC9	---	---	26±0,2	---	---
B 080	45±0,08	45 Z8	---	---	20H9	20 x8	20 y7
B 022 S1	45±0,08	45 P8	45 N7	45 N8	20H9	20 x8	20 y7
B 022	45±0,08	45 P8	45 N7	45 N8	20H9	20 x8	20 y7
B 074	48-0,1	48 Y7	48 Z8	---	27,8H9	27,8 v7	27,8 x8
B 075	48-0,1	48 Y7	48 Z8	---	27,8H9	27,8 v7	27,8 x8
B 040	50±0,2	(50 N7)	(50 N8)	50 Z8	25H9	25 x8	---
B 079	52±0,25	52 ZB8	---	---	25H9	25 x8	---
B 023	55±0,08	55 P8	55 N7	55 N8	25H9	25 x8	---
B 078	55±0,08	55 P8	55 N7	55 N8	30H11	30 zb8	---
B 019	68h11	68 Z8	---	---	25H9	25 x8	---
B 039	70 ^{+0,7} _{+0,5}	70 A9	---	---	50±0,1	50 y7	50 z8
B 038	75-0,5	For clamping device / terminals			40±0,2	40 zb9	40 zc9
B 087	80 ^{+0,3} _{+0,1}	80 H8	---	---	35H9	35 zb8	---
B 084	80±0,35	80 ZB9	---	---	50H11	50 za8	---
B 083	80±0,35	80 ZB9	---	---	50H11	50 za8	---
B 077	85±0,5	85 P8	terminals	---	36H9	36 v7	---

5. STALASTIC RUBBER-METAL AS BUSHES

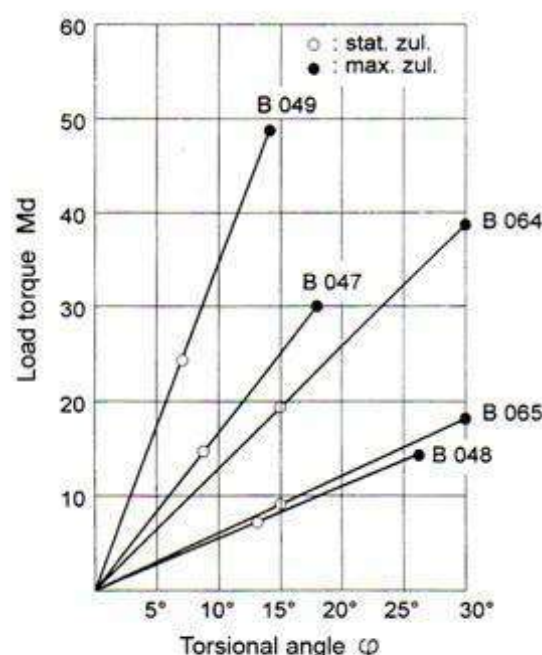
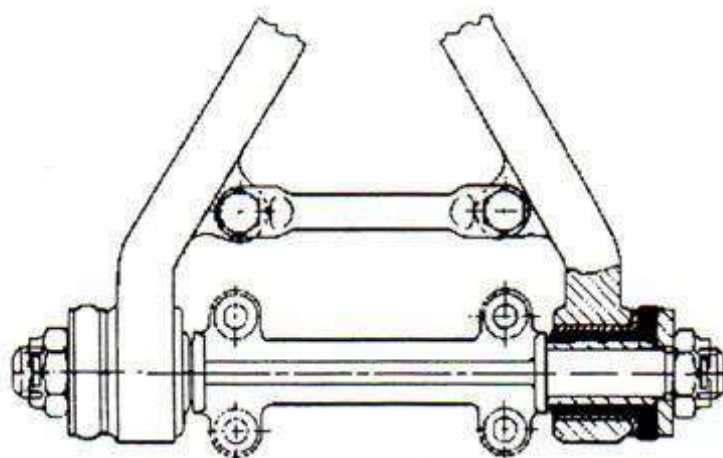
(No stock articles, available only on request)

STALASTIC AS bushes are produced by the same manufacturing methods as STALASTIC HL bushes and therefore have the same superior qualities of long life and load capacity. In addition, because of the special design of the outer metal collar, they are able to absorb higher thrust forces without overstressing the rubber. Because of this property they are especially suitable for use where high axial forces occur in joints, e.g. in triangular steering linkages (see illustration). No generally valid statements can be made about the spring constants for axial loads, as these depend on assembly conditions, especially the amount of axial prestressing.

The maximum continuous and peak loads can be seen in the table. They apply to a highly elastic and especially durable rubber with a Shore A hardness of approximately 50°.



Dimensions						Specification								Article No.	No. in pack
						Radial load		Torsion							
						max. stat. radial load	radial spring constant	max. stat. torsional angle	max. stat. torque	Torsional spring constant	max. peak torsional angle	max. peak torque			
Outside diameter	Inside diameter	Flange diameter	Length of inner tube	Length of flanged outer tube	Total length of bush										
D	d	D ₁	l	L	L ₁	Fr	cr	φ	Md	Cφ	φ max	Md max			
mm	mm	mm	mm	mm	mm	N	N/mm	Grad	Nm	Nm/Grad	Grad	mm			
30+0,2	14+0,1	41	34±0,25	20+0,2	36	690	1373	13	7,5	0,6	26	15	B 048	30	
34+0,2	19,5+0,1	46	40±0,25	28+0,2	48	2060	5886	9	15,0	1,62	18	30	B 047	---	
38+0,08	14+0,1	51	39±0,25	25+0,2	43	980	981	15	9,0	0,6	30	18	B 065	---	
40+0,1	24+0,1	58	42±0,1	30-0,5	45,5	3430	9810	7	24,0	3,4	14	48	B 049	10	
42+0,08	19,5+0,1	55	45±0,25	33+0,2	49,5	1470	1570	15	19,0	1,3	30	39	B 064	10	



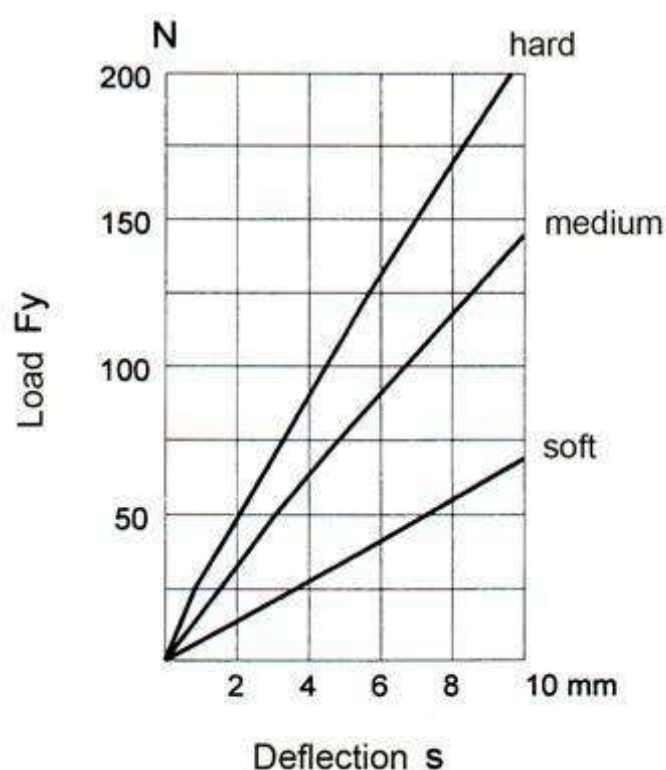
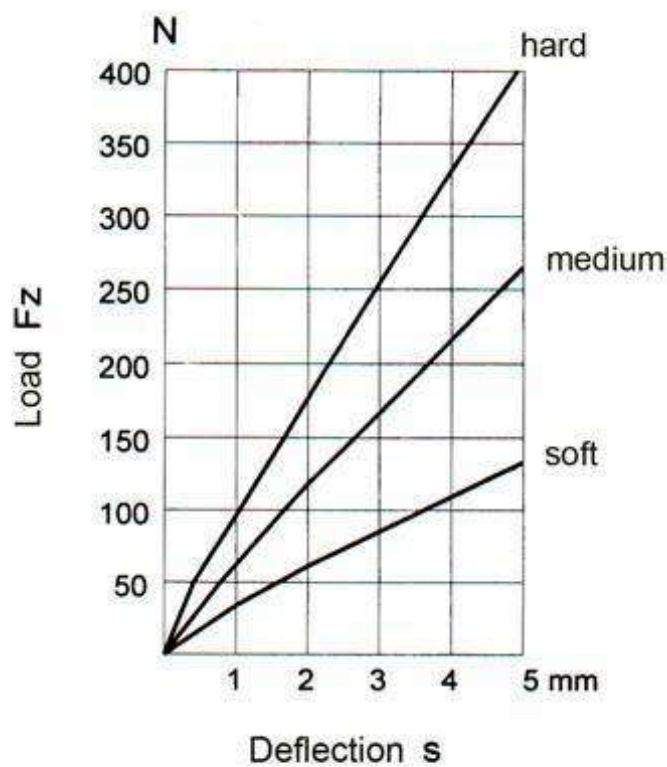
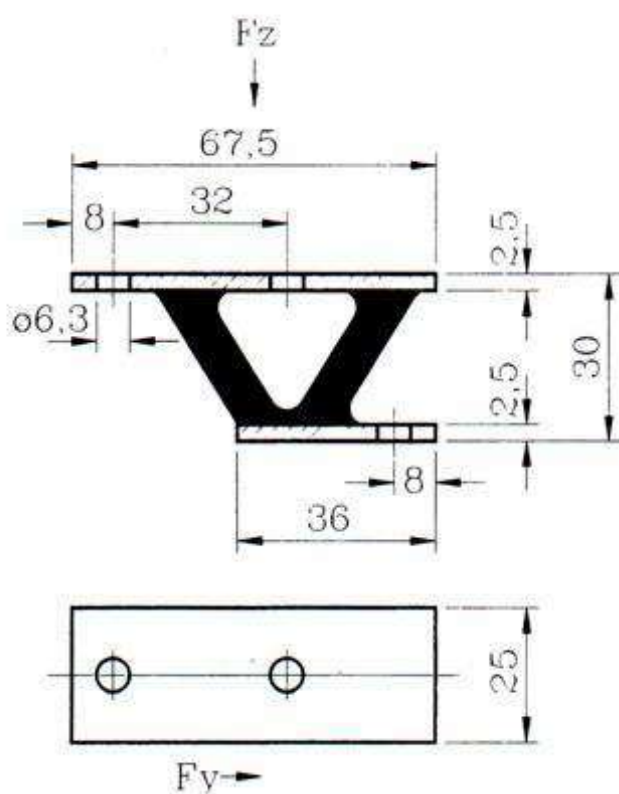
6. STALASTIC RUBBER-METAL Suspension Mounts

Article No. **A 36** (V-shaped element)

STALASTIC V-shaped suspension mounts have a variety of uses in the mounting of sensitive instruments etc., which are to be protected against shock. They can be loaded in compression (at right angles to the metal plates) or in shear (parallel to the metal plates).

Maximum permissible loads:

In continuous static loading the spring deflection should generally be not more than 3.5 mm in compression and not more than 5 mm in shear. The loads corresponding to these deflections can be taken from the spring characteristic curves.





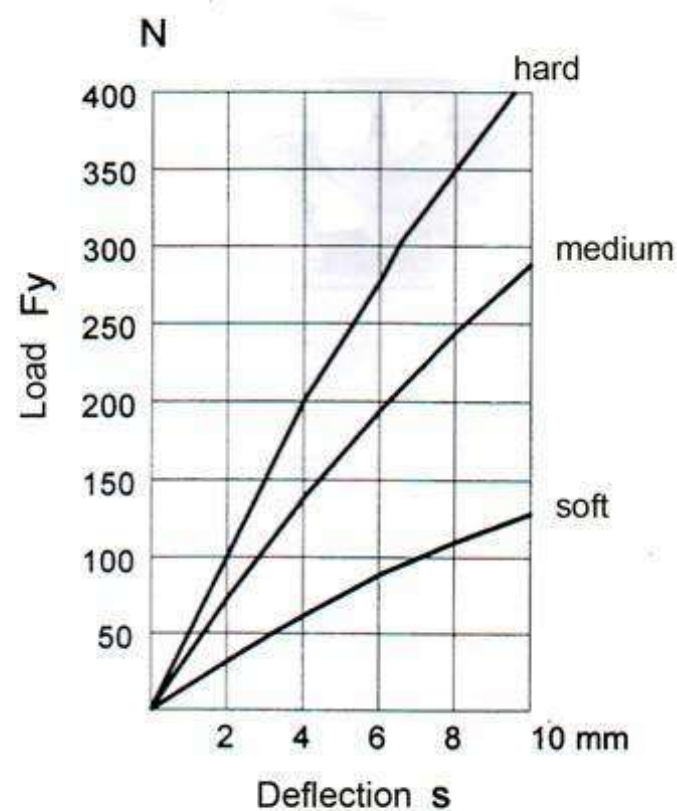
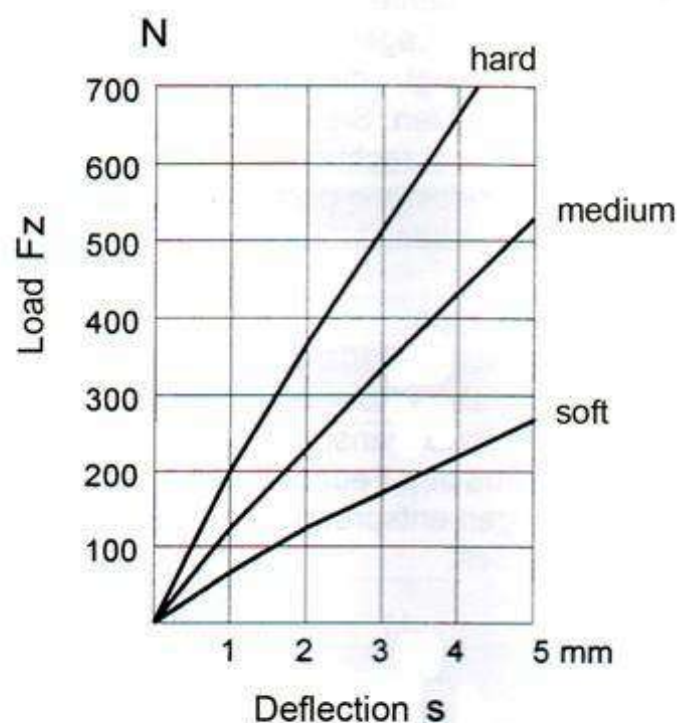
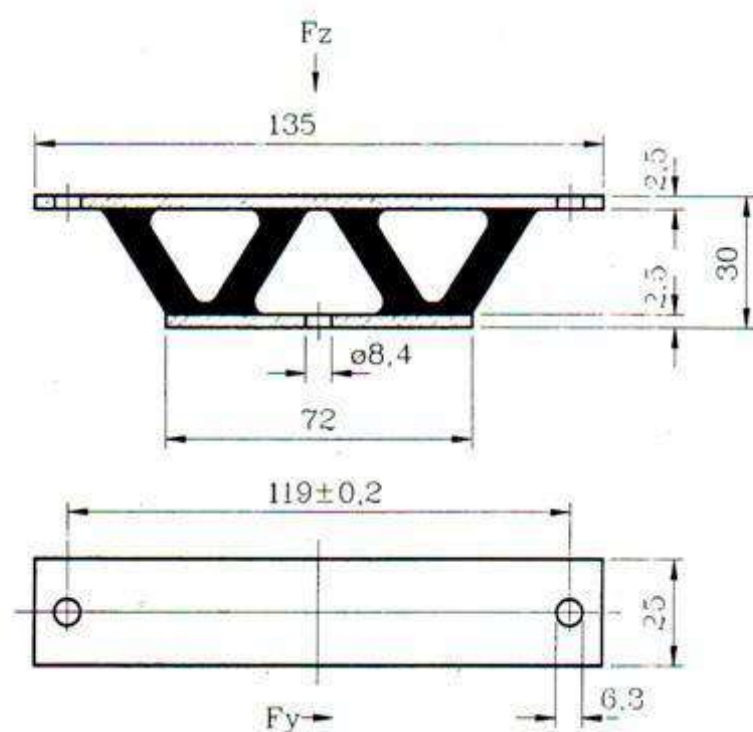
6. STALASTIC RUBBER-METAL Suspension Mounts

Article No. **A 72** (W-shaped element)

STALASTIC W-shaped suspension mounts have a variety of uses in the mounting of sensitive instruments etc., which are to be protected against shock. They can be loaded in compression (at right angles to the metal plates) or in shear (parallel to the metal plates).

Maximum permissible loads:

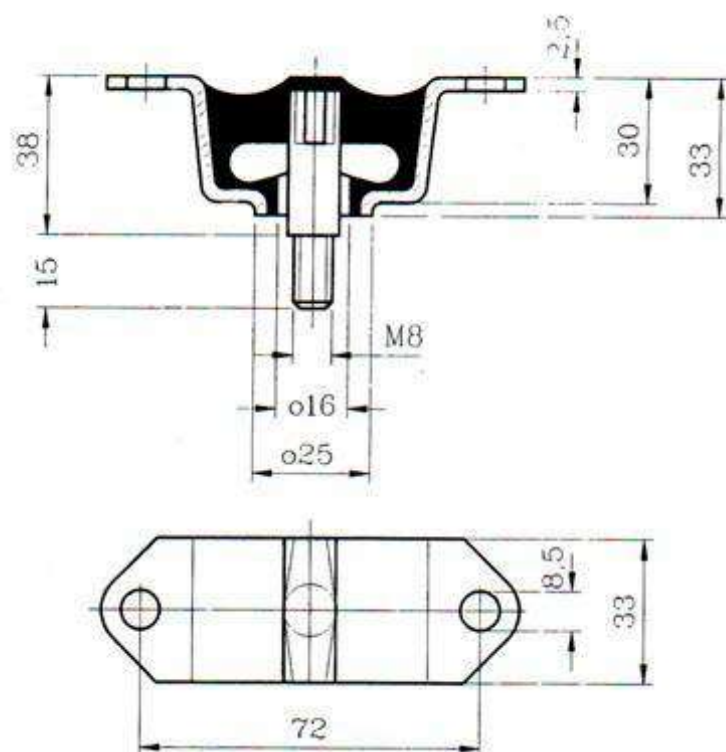
In continuous static loading the spring deflection should generally be not more than 3.5 mm in compression and not more than 5 mm in shear. The loads corresponding to these deflections can be taken from the spring characteristic curves.



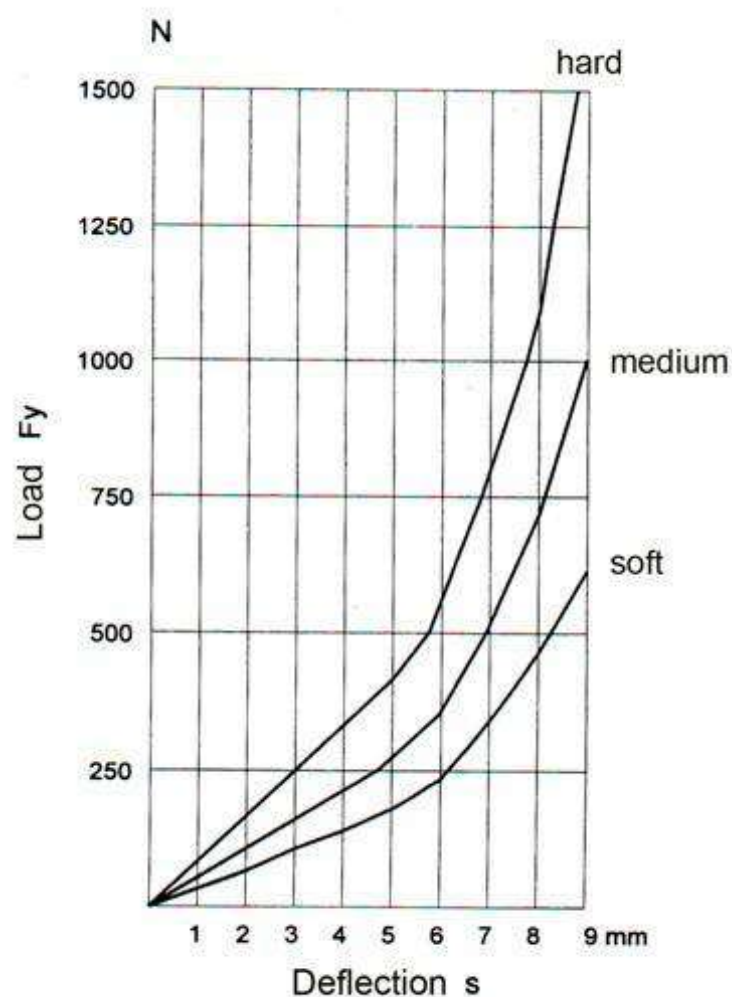
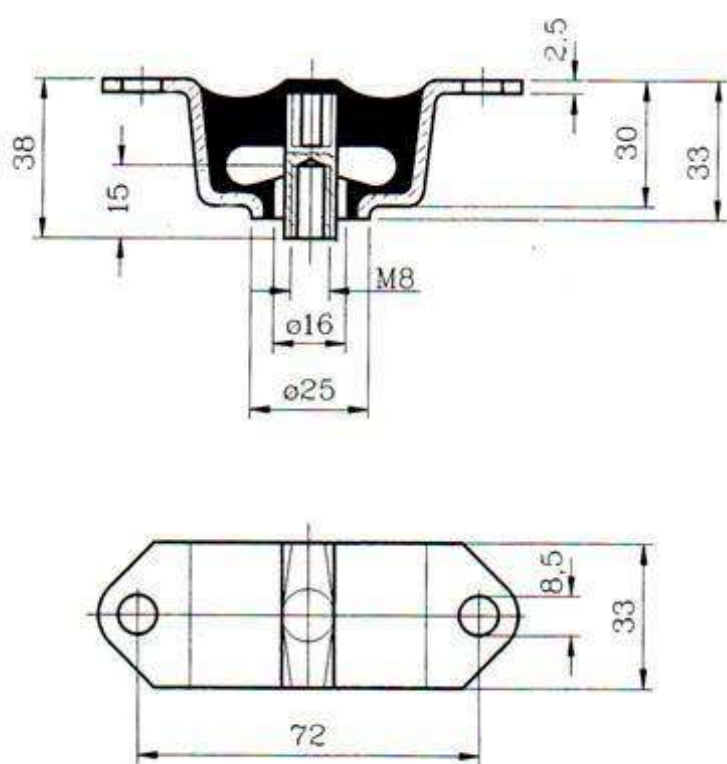


6. STALASTIC RUBBER-METAL CEILING ELEMENT

Article No. **D 72**



Article No. **D 72 S 1**



The permissible maximum static loads for the various rubber hardnesses are:

soft	200 N
middel	350 N
hard	550 N

Available only in packs of 8 pieces.



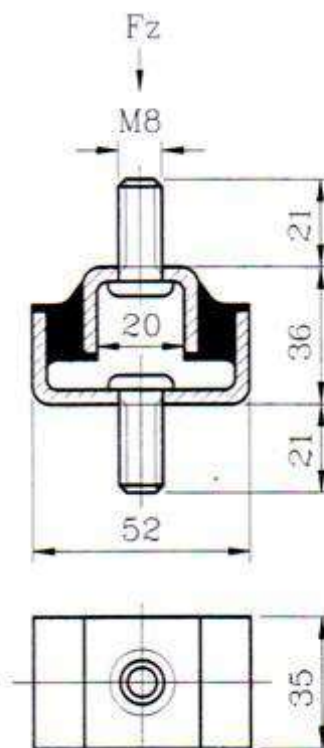
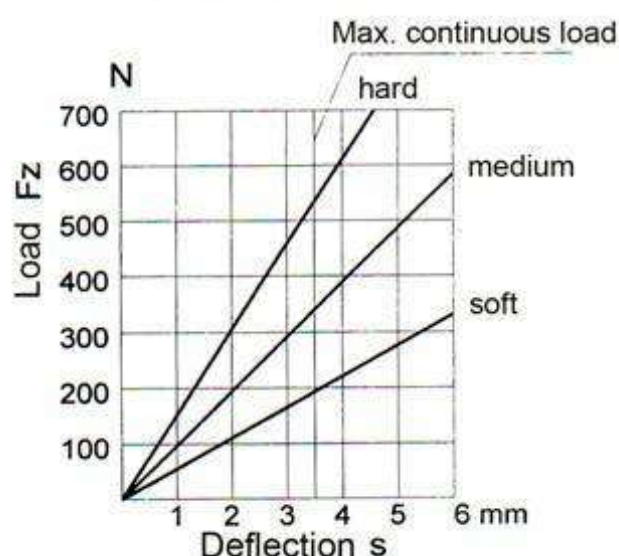
6. STALASTIC RUBBER-METAL U-Bearing

The U-bearing is a suitable mounting for reducing shock or isolating vibration in apparatus and equipment. The impact and exciting forces must remain small. The permissible maximum static loads may be only slightly exceeded.

STALASTIC RUBBER-METAL U-Bearing

Article No. L 2000

The permissible maximum static loads for the various rubber hardnesses are:

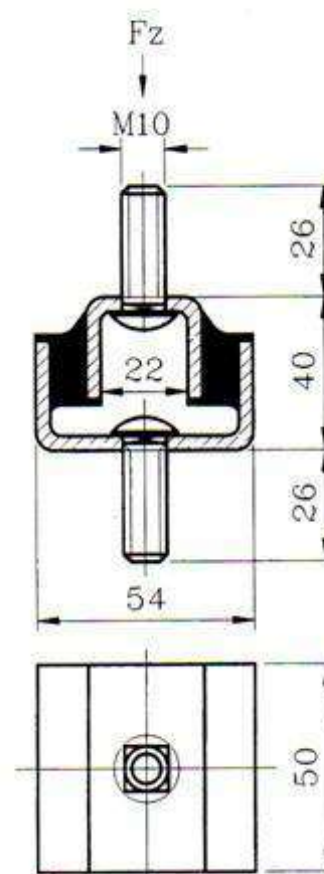
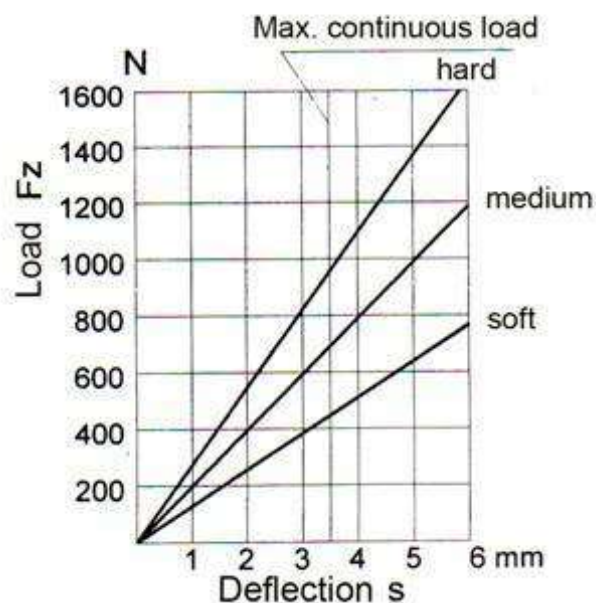


Available only in packs of 12 pieces.

STALASTIC RUBBER-METAL U-Bearing

Article No. L 2001

The permissible maximum static loads for the various rubber hardnesses are:



Available only in packs of 8 pieces.

7. STALASTIC RUBBER-METAL RING ELEMENTS

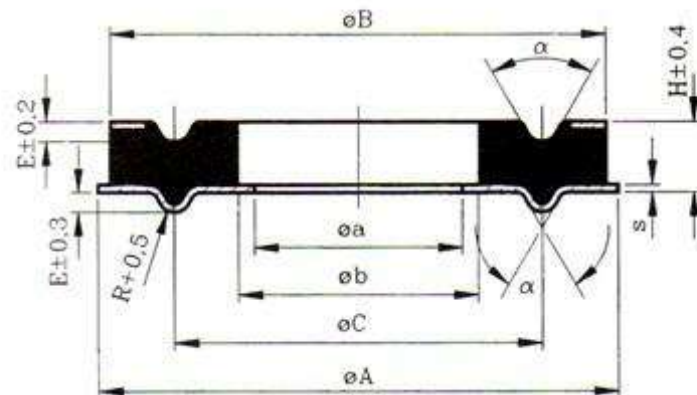
Applications

STALASTIC ring elements and annular buffers are standard elements of simple geometrical form which are used as flexible mountings in light and heavy engineering and in motor vehicle manufacture. The discs, which can be combined to form spring packs, are frequently used as buffer elements in rail vehicles. They can also be made up into tension and thrust units (couplings). Various spring constants, and thus spring deflections, can be obtained by assembling the discs in series this way.

Descriptions

STALASTIC ring elements are prestressed (compressed) by about 10% of their height when fitted and absorb both tensile and compressive forces. In spring packs made up of a large number of individual elements, supports must be inserted to prevent buckling and the whole stack of spring elements must be supported. The number of spring elements assembled in series must be calculated to ensure that loading in excess of the initial stress does not take place. Transverse forces cannot be absorbed, or only to a small extent. The end plates are supplied by the customer.

STALASTIC ring elements are supplied in a highly elastic natural-rubber quality with a Shore hardness of approx. 60°. The rubber used is not oil-resistant, but if oil is present the surface can be treated to give some protection against oil. The operating temperature may be as high as 80°. Higher temperatures affect the service life.



Dimensions											Specification				Standard	
A ϕ	a ϕ	B ϕ	b ϕ	C ϕ	H	s	E	α°	R	r	Max. continuous static load		Rare peak load		Article No.	x
											N	s(mm)	N	s(mm)		
65	26	62	30	46	11,0	1	2,5	60	2	0,5	6850	1,8	17650	3,8	473	x
95	45	90	50	70	10,5	1,5	2,5	60	2,5	1	7850	1,4	20600	2,8	481	—
100	35	90	40	64	27,5	1,5	3,5	60	3	1	9800	6,4	58850	13	444	x
110	30	102	38	76	20,8	1,75	3,5	60	3	1	13750	3,7	62800	7,4	401	x
110	30	102	38	76	25,8	1,75	3,5	60	3	1	12750	5,1	73600	10,2	409	—
110	40	102	44	76	15,8	1,75	3,5	60	3	1	14200	2,4	49050	5	493	x
130	55	123	60	90	16,0	2	5	60	4	2	17150	2,1	57900	4,2	488	x
153	55	145	60	102	16,0	2	5	60	4	2	27950	1,9	86300	3,9	433	—
153	55	145	60	102	30,0	2	5	60	4	2	29450	6,2	107900	12,2	472	x
155	75	150	80	115	12,0	2	5	60	4	2	23550	1,2	73600	2,5	485	—
160	90	155	95	125	12,0	2	5	60	4	2	22550	1,3	66700	2,7	486	—
164	60	156	64	110	16,0	2	4	60	4	2	30400	1,8	88300	3,6	424	—
164	60	156	64	110	23,0	2	4	60	4	2	33350	3,6	122650	7,2	432	x
210	55	200	60	154	20,0	2	6	60	6	1,2	45150	2	153050	4	482	—
210	95	200	100	154	20,0	2	6	60	6	1,2	45150	2,6	173650	5,3	436	x
220	66	200	100	154	62,0	2	6	60	6	1,2	32400	13	103000	26	407	—
240	70	230	76	154	25,0	2	6	60	5	2	60800	2,9	217800	5,9	434	x
265	78	250	90	166	27,8	2,75	7	60	6	2	82400	3,2	276650	6,4	427	—
320	154	310	160	235	18,0	3	7	100	6	2	56900	1,4	196200	2,8	483	—



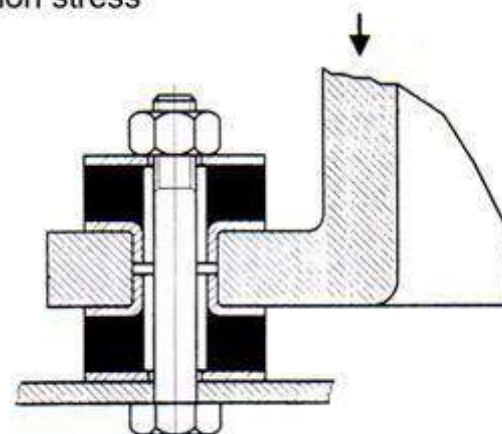
7. STALASTIC RUBBER-METAL ANNULAR BUFFERS

STALASTIC annular buffers are ring-shaped rubber-metal parts in which centering is effected by a collar on one of the two metal plates

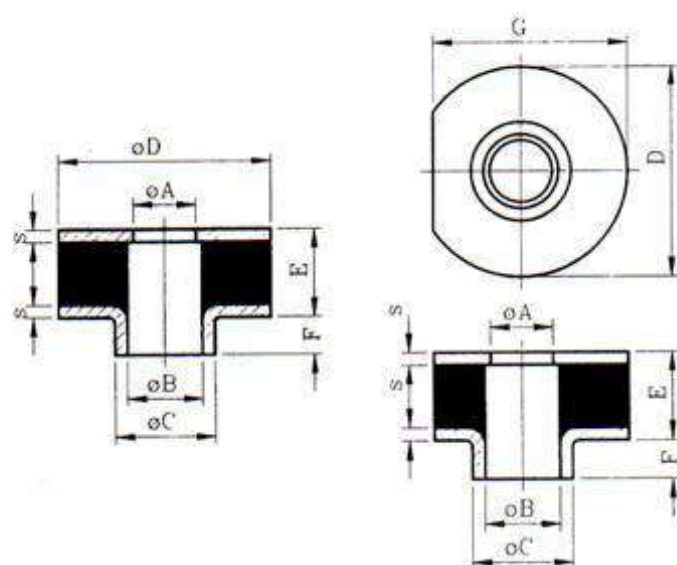
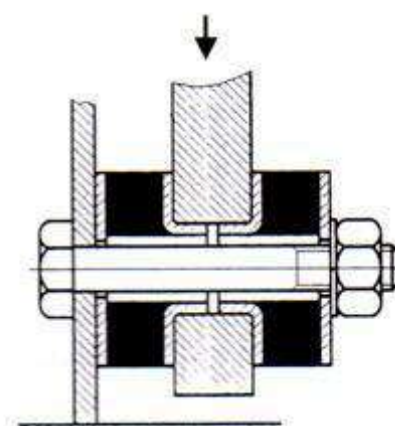
STALASTIC annular buffers can be subjected to compression and shear.

STALASTIC annular buffers are used for flexible mountings where tensile forces are experienced. They are used in pairs precompressed against each other.

compression stress



shear stress



Dimensions in mm									Specification												Standard	
									Compression stress						Shear stress							
D	A	B	C	E	F	G	s	Spring rate c_z in N/mm			Perm. Load $F_{zul.}^*$ in N			Spring rate c_{xy} in N/mm			Perm. Load $F_{zul.}^*$ in N			Article No.	X	
								hard	medium	soft	hard	medium	soft	hard	medium	soft	hard	medium	soft			
36	6,2	—	15	10	6	—	1	2000	1350	800	2600	1600	950	170	110	65	500	300	180	R 029	x	
36	8,5	12	18	10	4	—	1	1550	1000	620	1900	1200	700	150	100	60	400	250	150	R 027	x	
36	16,6	—	20	8	3	—	1	1900	1250	770	1800	1100	650	175	115	70	300	200	120	R 092	x	
50	16,5	20	23	13	9,5	—	1,5	2200	1500	900	3700	2300	1350	225	150	90	800	500	300	R 020	x	
50	16,5	20	23	13	9,5	46	1,5	2100	1400	760	3400	2100	1200	215	140	75	700	450	260	R 020 S1	—	
60	20,5	24	27	13	10,5	—	1,5	3000	2000	1050	6100	3800	2200	325	220	130	1100	700	410	R 026	x	

* $F_{zul.}$ is the permissible continuous static load upon which a fluctuating dynamic load can be superimposed. The permissible loadings given represent only approximate maximum values of static loading for guidance.

Rubber hardnesses:

hard approx. 70 Shore A

medium approx. 60 Shore A

soft approx. 45 Shore A



7. STALASTIC RUBBER-METAL RING

Article No. **R 65** (not all sizes in stock)

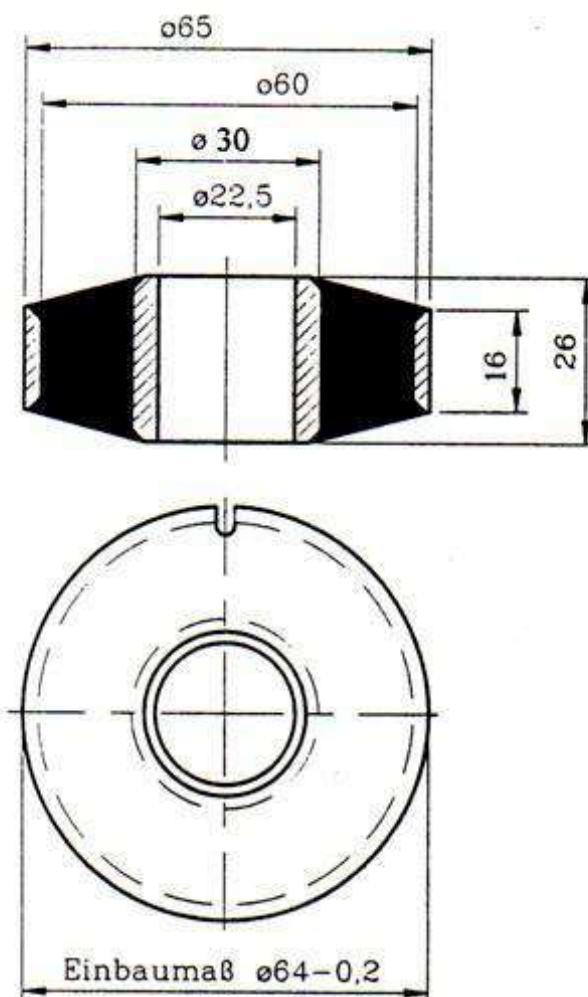
STALASTIC rings can be subjected to radial, axial and torsional loads. When fitted they have to be prestressed by 1 mm of their outward diameter.

Rubber hardnesses:

hard approx. 70 Shore A

medium approx. 60 Shore A

soft approx. 45 Shore A



Specification				hard	medium	soft
Max. stat. radial load	F_r zul.	[N]		2200	1250	600
Radial spring constant	c_r	[N/mm]		9800	5450	2600
Max. stat. axial load	F_a zul.	[N]		1550	900	500
Axial spring constant	c_a	[N/mm]		2600	1500	800
Max. stat. torque	M zul.	[Nm]		28,4	20,6	13,7
Torsional spring constant	c_φ	[Nm/Grad]		1,7	1,22	0,82
Max. peak torque	M max.	[Nm]		57	41	28

Available only in packs of 10 pieces.



8. STALASTIC RUBBER STOPS NO 1310

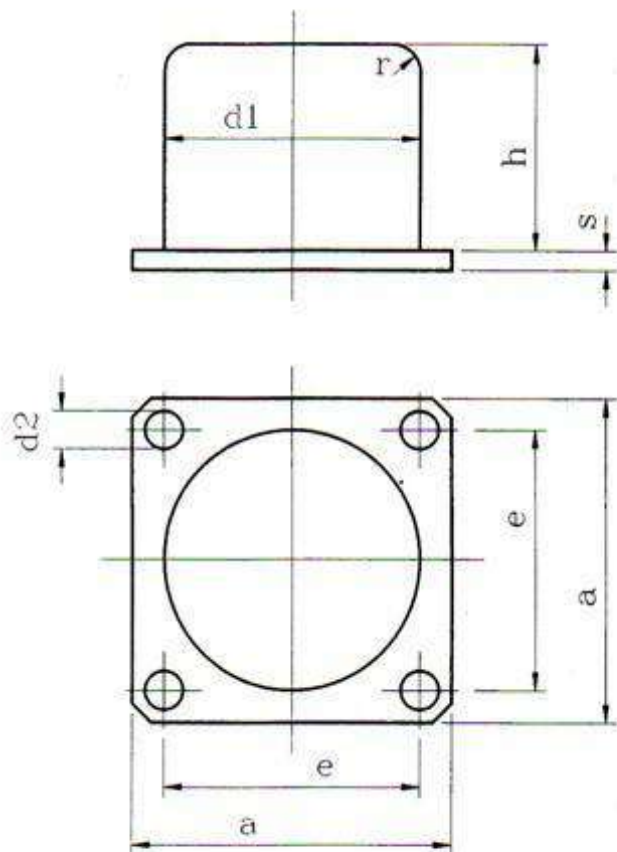
Force – distance – absorption

$\frac{m}{V \text{ (min)}}$	10	12,5	16	20	25	32	40	50	63	80	100
Q ges. (t)	Energy in Nm										
1	14	22	36	57	90	150	230	350	560	910	1420
1,3	18	28	45	71	110	180	280	440	700	1130	1770
1,6	23	35	58	91	140	230	360	570	900	1450	2260
2	28	44	72	113	180	290	450	710	1120	1810	2830
2,5	35	55	91	142	220	360	570	890	1410	2270	3540
3,2	45	71	116	181	280	460	730	1130	1800	2900	4530
4	57	89	145	227	350	580	910	1420	2250	3630	5660
5	71	111	181	283	440	730	1130	1770	2810	4530	7080
6,3	89	139	228	357	560	910	1430	2230	3540	5700	8920
8	113	177	290	453	710	1160	1810	2830	4500	7250	11330
10	142	221	362	566	890	1450	2270	3540	5620	9060	14160
12,5	177	277	453	708	1110	1810	2830	4430	7030	11330	17700
16	227	354	580	906	1420	2320	3630	5660	9000	14500	22660
20	283	443	725	1133	1770	2900	4530	7080	11240	18120	28320
25	354	553	906	1416	2210	3630	5660	8850	14050	22660	35400
32	453	708	1160	1812	2830	4640	7250	11330	17980	29000	45310
40	566	885	1450	2266	3540	5800	9060	14160	22480	36250	56640
50	708	1107	1813	2832	4430	7250	11330	17700	28100	45310	70800
63	892	1394	2284	3568	5580	9140	14270	22300	35410	57090	89210
80	1133	1770	2900	4531	7080	11600	18120	28320	44960	72500	113300
100	1416	2213	3625	5664	8850	14500	22660	35400	56200	90620	141600



8. STALASTIC RUBBER-METAL BUFFER NO 1311 with base plate

Dimensions in mm:



Nominal size d_1	a	d_2	e	h	r	s	Deflection f ¹⁾	Absorption of work mkp ¹⁾	End force kg ¹⁾	Weight kg	Art. No.
40	50	5,5	40	32	8	2	16	5	1000	0,09	187040P
50	63	6,5	50	40	10	2	20	10	1600	0,17	187050P
63	80	6,5	63	50	12,5	3	25	20	2500	0,36	187063P
80	100	9	80	63	16	3	32	40	4000	0,66	187080P
100	125	9	100	80	20	4	40	80	6300	1,33	187100P
125	160	11	125	100	25	4	50	160	10000	2,45	187125P
160	200	11	160	125	32	6	63	320	16000	5,20	187160P
200	250	13	200	160	40	6	80	630	25000	9,70	187200P
250	315	13	250	200	50	8	100	1250	40000	19,30	187250P
315	400	17	315	250	63	10	125	2500	63000	36,00	187315P

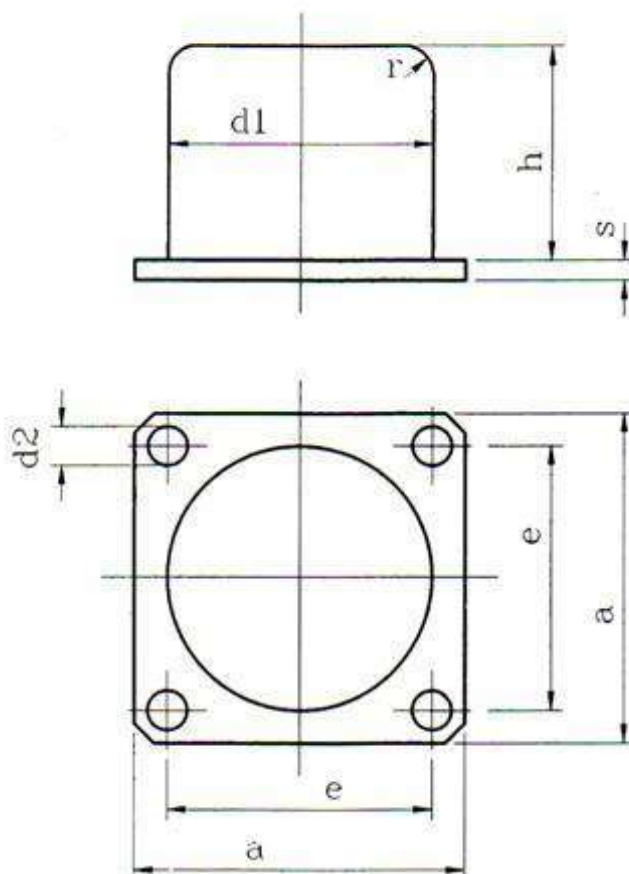
Materials: buffer body: rubber
base plate: steel

1) These values are only valid for impacts as arising with stop buffers, hoists and the like.



8. STALASTIC RUBBER-METAL BUFFER NO 1311a with reinforced base plate

Dimensions in mm:



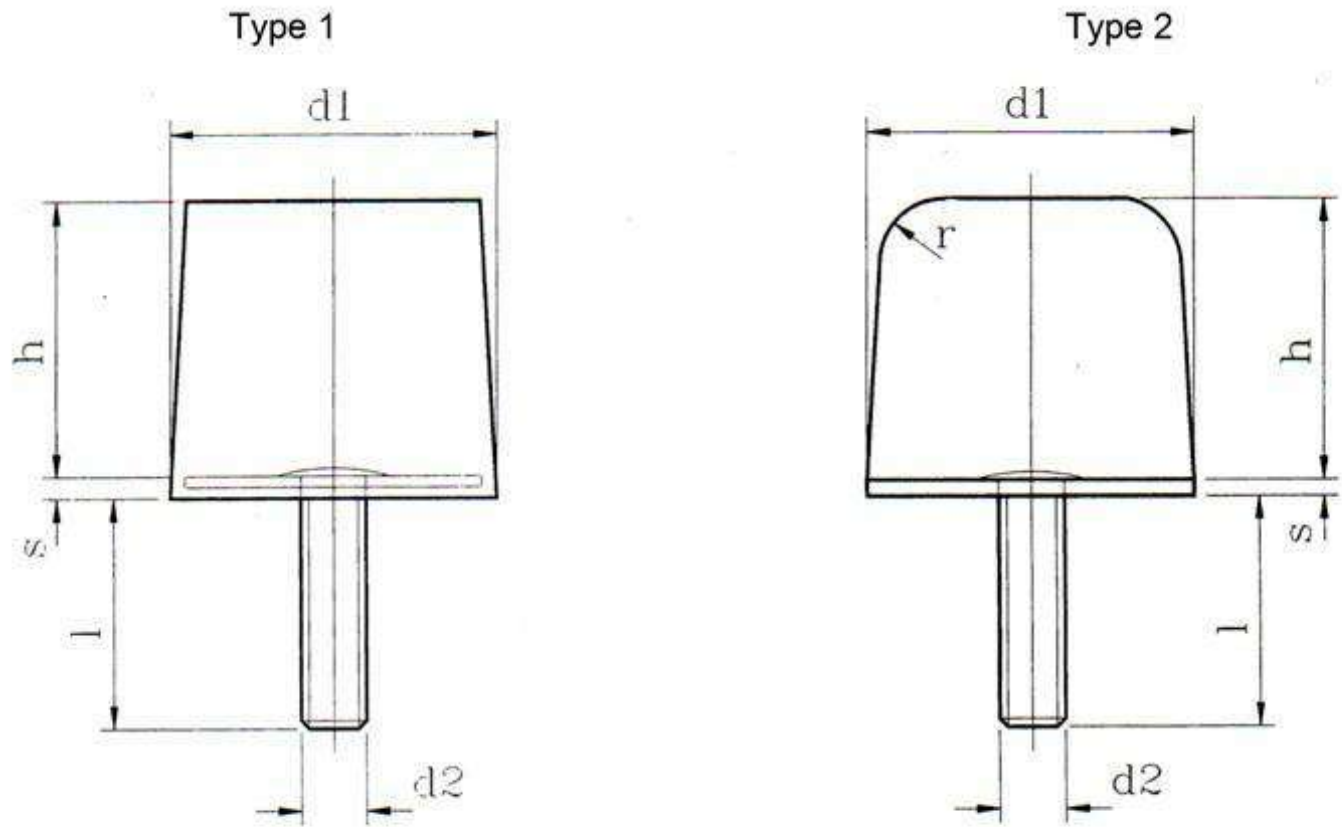
Nominal size d_1	a	d_2	e	h	r	s	Deflection f ¹⁾	Absorption of work mkp ¹⁾	End force kg ¹⁾	Weight kg	Art. No.
80	100	11	80	63	16	6	32	40	4000	0,88	187080V
100	125	13	100	80	20	8	40	80	6300	1,82	187100V
125	160	17	125	100	25	8	50	160	10000	3,25	187125V
160	200	17	160	125	32	10	63	320	16000	6,50	187160V
200	250	21	200	160	40	10	80	630	25000	11,30	187200V
250	315	21	250	200	50	12	100	1250	40000	22,60	187250V
315	400	21	315	250	63	12	125	2500	63000	41,20	187315V

Materials: buffer body: rubber
 base plate: steel

- 1) These values are only valid for impacts as arising with stop buffers, hoists and the like.



8. STALASTIC RUBBER-METAL BUFFERS NO 1312 with threaded stud



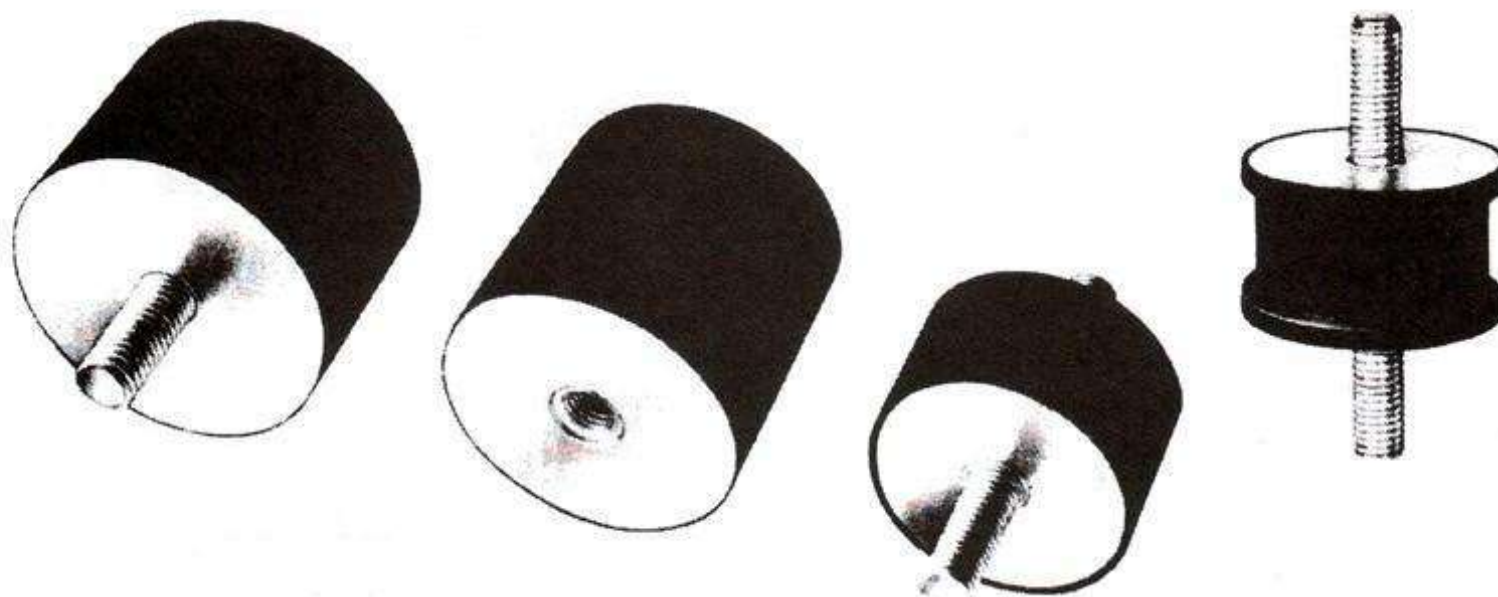
Nominal size d_1	d_2	h	l	r	s	Deflection $f^{1)}$	Absorption of work $mkp^{1)}$	End force $kg^{1)}$	Weight kg	Type	Art. No.
40	M 8	32	28	---	2,8	16	5	1000	0,09	1	187040S
50	M 10	40	33	---	3	20	10	1600	0,17	1	187050S
63	M 10	50	32	---	4	25	20	2500	0,31	1	187063S
80	M 12	63	37	16	3	32	40	4000	0,58	2	187080S
100	M 12	80	36	20	4	40	80	6300	0,13	2	187100S
125	M 16	100	46	25	4	50	160	10000	2,12	2	187125S
160	M 16	125	44	32	6	63	320	16000	4,39	2	187160S
200	M 20	160	49	40	6	80	630	25000	8,37	2	187200S
250	M 20	200	47	50	8	100	1250	40000	16,27	2	187250S

Materials: buffer body: rubber
 base plate: steel

- 1) These values are only valid for impacts as arising with stop buffers, hoists and the like.



1. STALASTIC RUBBER-METAL BUFFERS



Applications

STALASTIC rubber-metal buffers are simple, reasonably-priced standard components for flexible bearing arrangements. They are used successfully in general mechanical engineering, light engineering, printing machine manufacture and pump manufacture, in the electrical industry and in many other fields. The various construction types (threaded bolt, weld nut) provide an appropriate means of mounting the elements in practically every case.

Specification

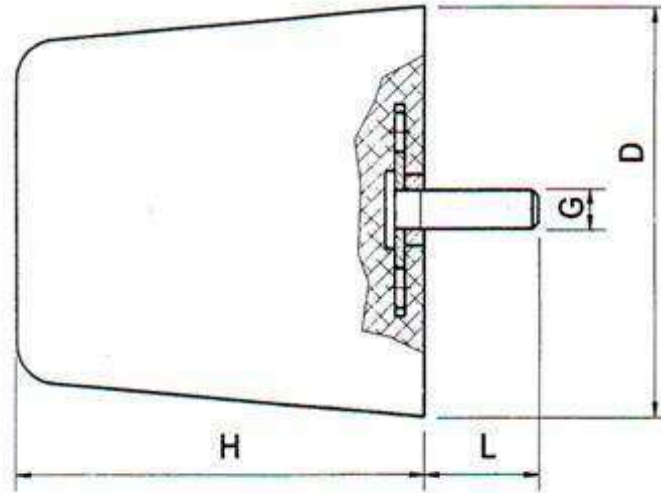
STALASTIC rubber-metal buffers cover a range of loading from 30 N to 30 kN, according to the application and the quality of rubber used.

Description

STALASTIC rubber-metal buffers can be subjected to either shearing or compressive loads, or to both when mounted at an angle to each other. While the high degree of stiffness is desirable for compressive stress, especially for high kinetic and impact loads, the high degree of flexibility to shear stress provides good vibrational isolation. If the STALASTIC buffers are subject only to shearing stress, precompression has a favourable effect on the service life. STALASTIC buffers with an enlarged rubber-to-metal bonding surface are particularly suitable for high peak dynamic stressing.



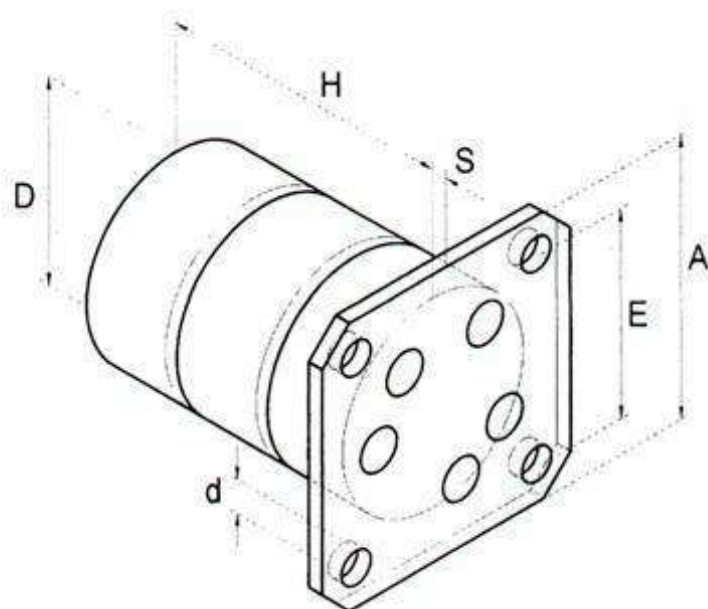
8. STALASTIC STOP BUFFER made of cellular polyurethane with central fixing



Ser. No.	Buffer form	Dimensions				Weight kg	Article No.	Pack. Unit
		D	H	G	L			
0	2	70	70	M 12	35	0,25	233 701 045	
1	1	80	40	M 12	35	0,21	233 801 045	
2	2	80	80	M 12	35	0,31	233 802 045	
3	3	80	120	M 12	35	0,42	233 803 045	
4	1	100	50	M 12	35	0,31	233 101 045	
5	2	100	100	M 12	35	0,52	233 102 045	
6	3	100	150	M 12	35	0,73	233 103 045	
7	1	125	63	M 12	35	0,51	233 121 045	
8	2	125	125	M 12	35	0,92	233 122 045	
9	3	125	190	M 12	35	1,32	233 123 045	
10	1	160	80	M 12	35	0,95	233 161 045	
11	2	160	160	M 12	35	1,80	233 162 045	
12	3	160	240	M 12	35	2,66	233 163 045	
13	1	200	100	M 12	35	1,76	233 201 045	
14	2	200	200	M 12	35	3,43	233 202 045	
15	3	200	300	M 12	35	5,10	233 203 045	
16	1	250	125	M 24	80	5,40	233 251 045	
17	2	250	250	M 24	80	8,50	233 252 045	
18	3	250	375	M 24	80	11,50	233 253 045	
19	1	315	158	M 24	80	8,50	233 311 045	
20	2	315	315	M 24	80	14,65	233 312 045	
21	3	315	475	M 24	80	20,80	233 313 045	
22	1	400	200	M 30	80	16,50	233 401 045	
23	2	400	400	M 30	80	29,10	233 402 045	
24	3	400	600	M 30	80	41,60	233 403 045	



8. STALASTIC STOP BUFFER made of cellular polyurethane with base plate



Ser. No.	Buffer form	Dimensions						Weight kg	Article No.	Pack. Unit
		D	H	S	A	E	d			
1	1	80	40	10	110	80	12,5	0,40	202 801 045	
2	2	80	80	10	110	80	12,5	0,60	202 802 045	
3	3	80	120	10	110	80	12,5	0,70	202 803 045	
4	1	100	50	10	125	100	12,5	0,60	202 101 045	
5	2	100	100	10	125	100	12,5	0,90	202 102 045	
6	3	100	150	10	125	100	12,5	1,15	202 103 045	
7	1	125	63	12	160	125	17,0	1,20	202 121 045	
8	2	125	125	12	160	125	17,0	1,65	202 122 045	
9	3	125	190	12	160	125	17,0	2,25	202 123 045	
10	1	160	80	12	200	160	17,0	2,20	202 161 045	
11	2	160	160	12	200	160	17,0	3,10	202 162 045	
12	3	160	240	12	200	160	17,0	4,00	202 163 045	
13	1	200	100	14	250	200	21,0	4,00	202 201 045	
14	2	200	200	14	250	200	21,0	5,80	202 202 045	
15	3	200	300	14	250	200	21,0	7,50	202 203 045	
16	1	250	125	15	315	250	21,0	7,50	202 251 045	
17	2	250	250	15	315	250	21,0	11,00	202 252 045	
18	3	250	375	15	315	250	21,0	15,00	202 253 045	
19	1	315	158	15	400	315	21,0	26,00	202 311 045	
20	2	315	315	15	400	315	21,0	33,00	202 312 045	
21	3	315	475	15	400	315	21,0	41,00	202 313 045	
22	1	400	200	20	500	400	25,0	51,00	202 401 045	
23	2	400	400	20	500	400	25,0	66,00	202 402 045	
24	3	400	600	20	500	400	25,0	81,00	202 403 045	
25	1	500	250	20	630	500	25,0	88,00	202 501 045	
26	2	500	500	20	630	500	25,0	116,00	202 502 045	
27	3	500	750	20	630	500	25,0	146,00	202 503 045	
28	1	600	300	20	730	600	25,0	129,00	202 601 045	
29	2	600	600	20	730	600	25,0	178,00	202 602 045	
30	3	600	900	20	730	600	25,0	233,00	202 603 045	



9. STALASTIC RUBBER-METAL BEARING

Article No. L 034 S 6

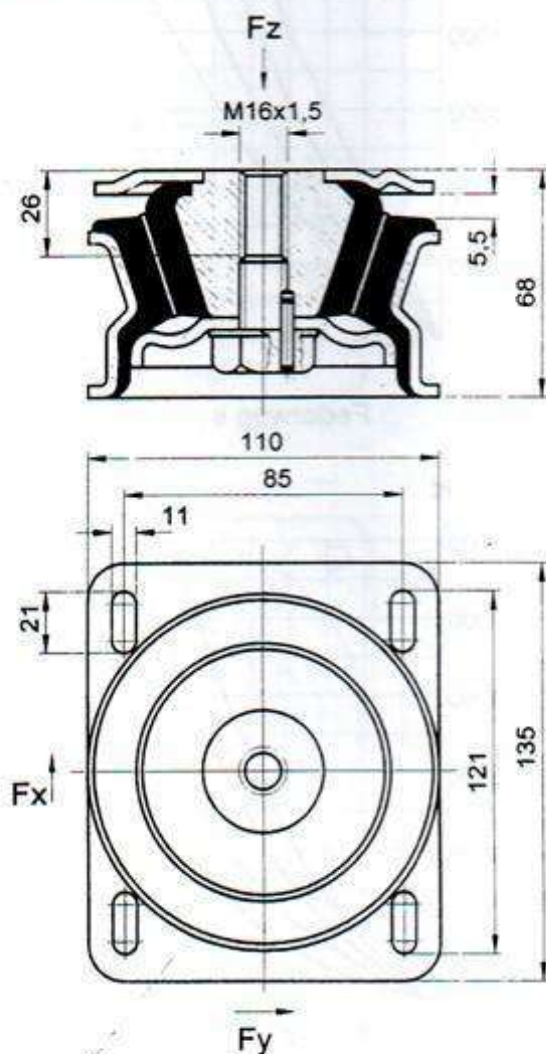
This round element is constructed as a pedestal bearing, and is suitable for the flexible mounting of motors and stationary units. Vertical deflection in both compression and tension is limited by the top and the bottom stop plates, so that overloading of the bearing is not possible.

The maximum permissible continuous loads depend on the hardness of the rubber.

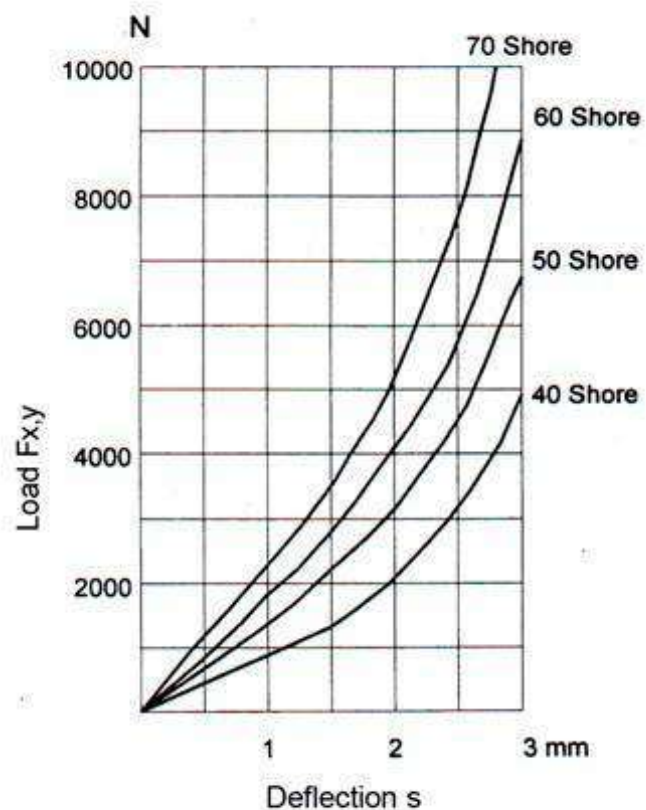
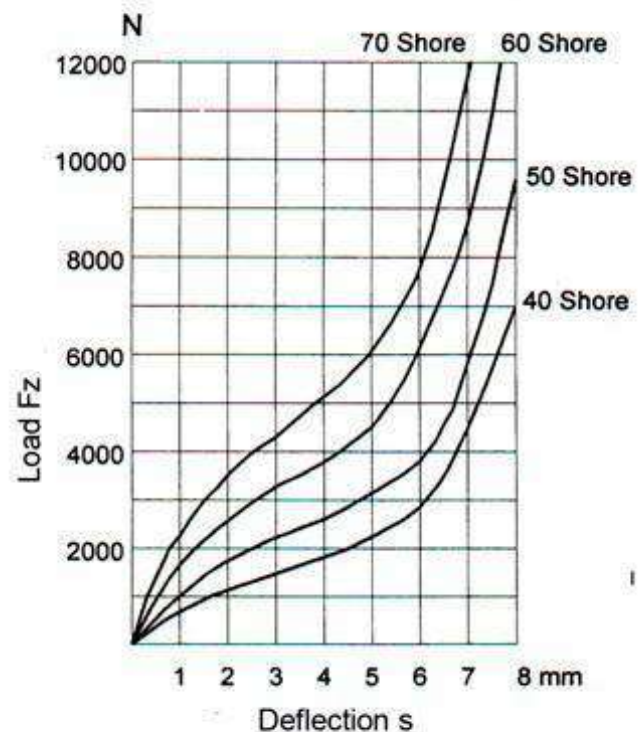
They are :
40 Shore A: $F_z = 1500$ N
50 Shore A: $F_z = 2200$ N
60 Shore A: $F_z = 3200$ N
70 Shore A: $F_z = 4200$ N

for 70 Shore: article No. L 034 S9

Spring rates in working range N/mm $\pm 20\%$				
Shore A	40 ± 5	50 ± 5	60 ± 5	70 ± 5
c_z	325	430	610	785
$c_{x,y}$	835	1325	1715	2160



Plan view without top plate





9. STALASTIC Rubber-Metal Bearing

Article No. L 034 S 7

This round element is constructed as a pedestal bearing, and is suitable for the flexible mounting of motors and stationary units. Vertical deflection in both compression and tension is limited by the top and the bottom stop plates, so that overloading of the bearing is not possible.

The maximum permissible continuous loads depend on the hardness of the rubber.

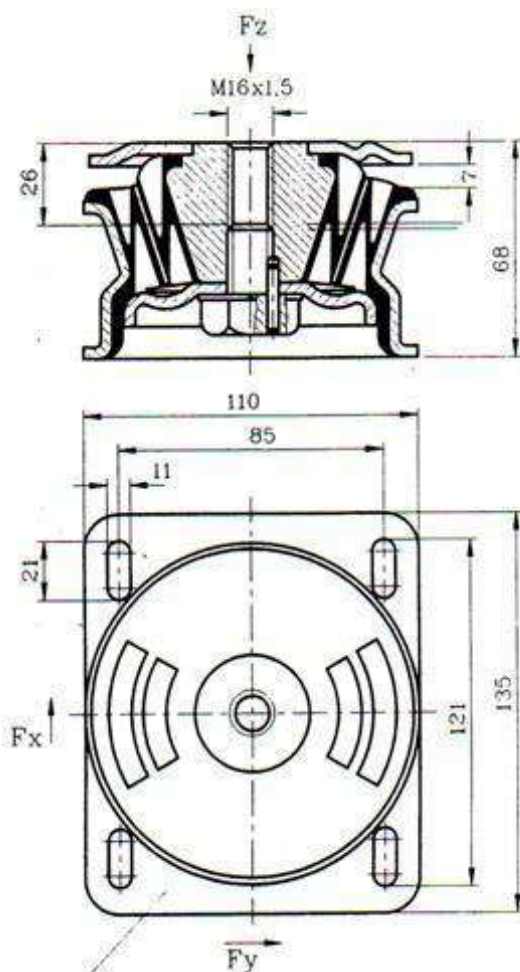
They are:

40 Shore A:	$F_z = 1200 \text{ N}$
50 Shore A:	$F_z = 1700 \text{ N}$
60 Shore A:	$F_z = 2500 \text{ N}$
70 Shore A:	$F_z = 3000 \text{ N}$

Spring rates in working range $\text{N/mm} \pm 20\%$

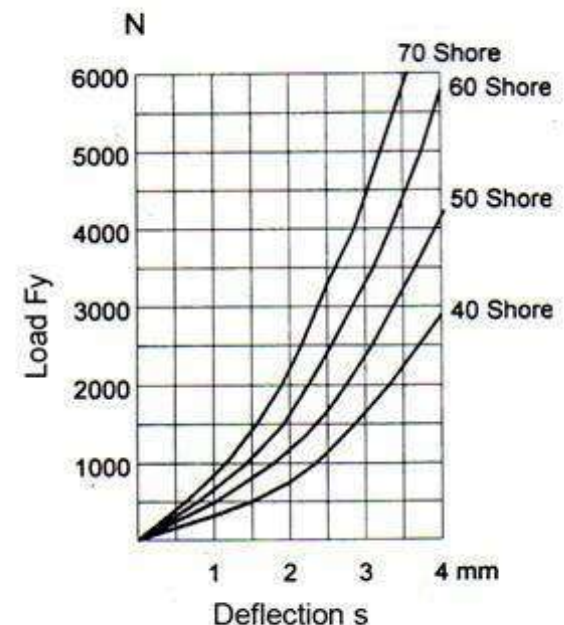
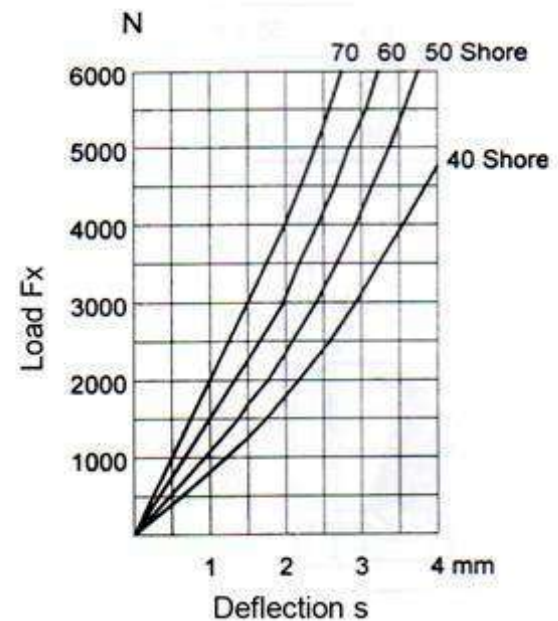
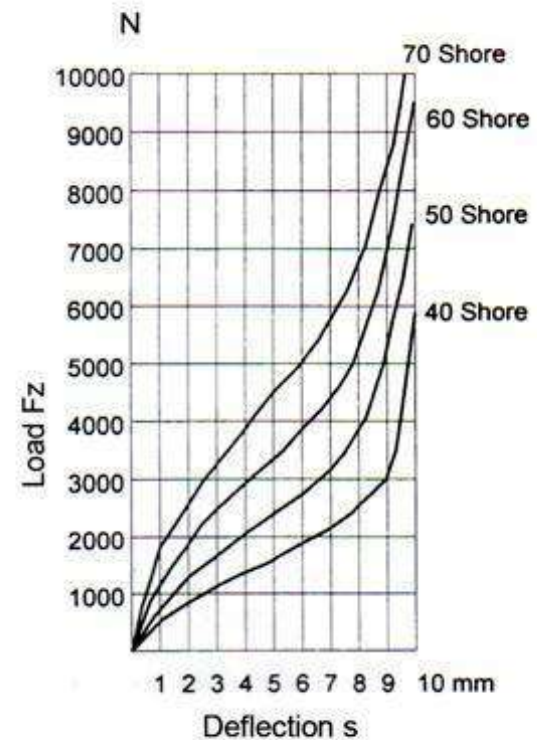
Shore A	40 ± 5	50 ± 5	60 ± 5	70 ± 5
c_z	235	325	440	570
c_x	785	1130	1520	1960
c_y	345	540	740	980

Spring characteristics in the 3 main directions of stress
Vertical (Z), Longitudinal (X), Transverse (Y)



Plan view without top plate

The recesses in the rubber give different degrees of longitudinal and transverse stiffness.





9. STALASTIC Rubber-Metal Bearing

Article No. L 062 S 1 (no stock article)

Owing to the geometry of the rubber body this bearing has different spring characteristics in the vertical, longitudinal and transverse directions. The lower stop plate protects the bearing against vertical overloading. The maximum permissible loads depend on the hardness of the rubber.

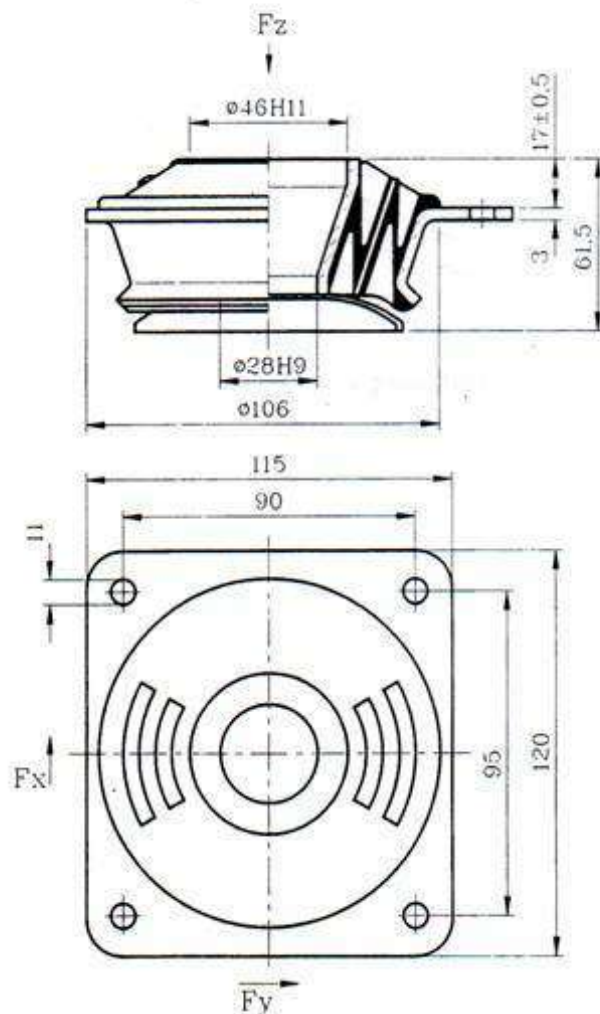
They are:

40 Shore A	$F_z = 750 \text{ N}$
50 Shore A	$F_z = 1200 \text{ N}$
60 Shore A	$F_z = 1600 \text{ N}$
70 Shore A	$F_z = 2200 \text{ N}$

Spring rates in working range N/mm $\pm 20\%$

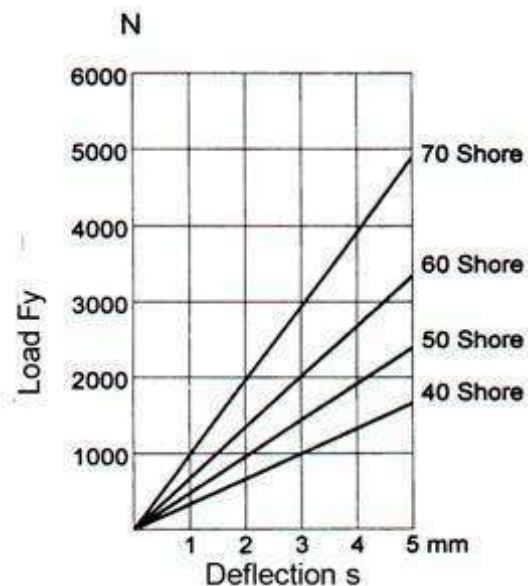
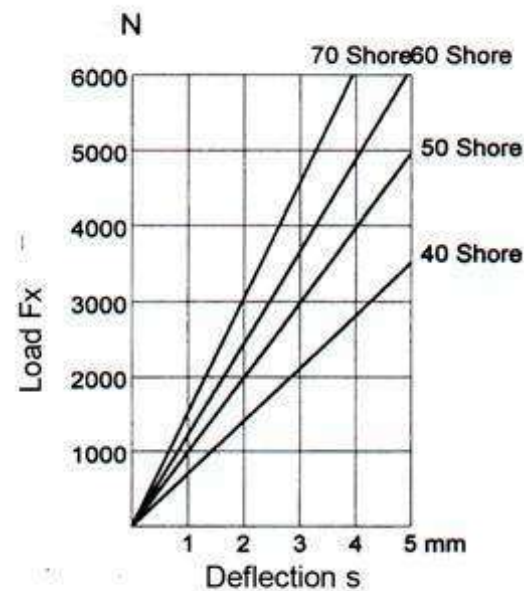
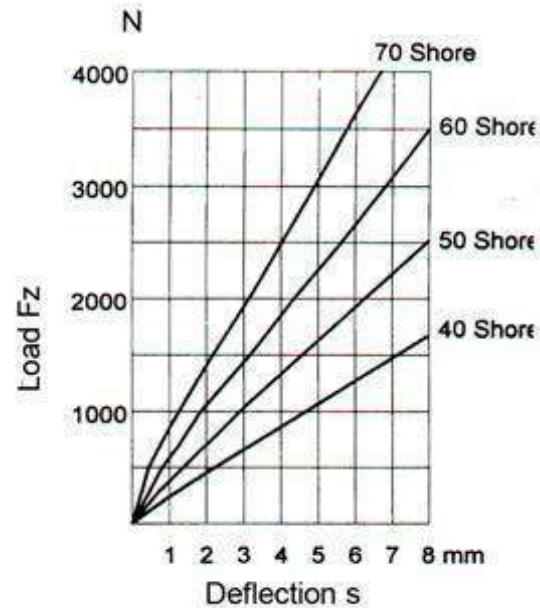
Shore A	40 ± 5	50 ± 5	60 ± 5	70 ± 5
c_z	200	300	410	550
c_x	690	930	1180	1470
c_y	330	470	650	910

Spring characteristics in the 3 main directions of stress
Vertical (Z), Longitudinal (X), Transverse (Y)



The recesses in the rubber give different degrees of longitudinal and transverse stiffness.

Available only in packs of 4 pieces.





9. STALASTIC Rubber-Metal Bearing

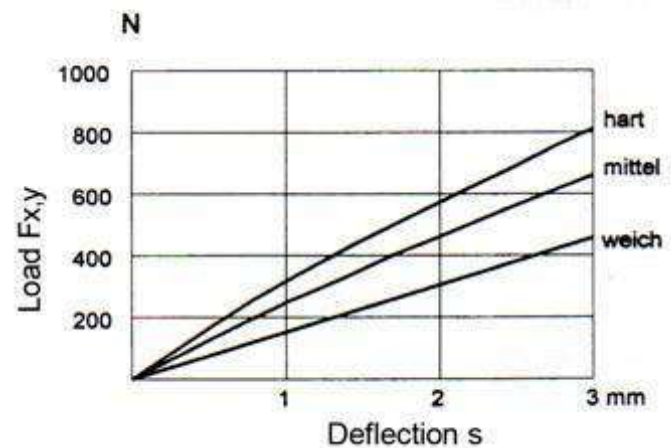
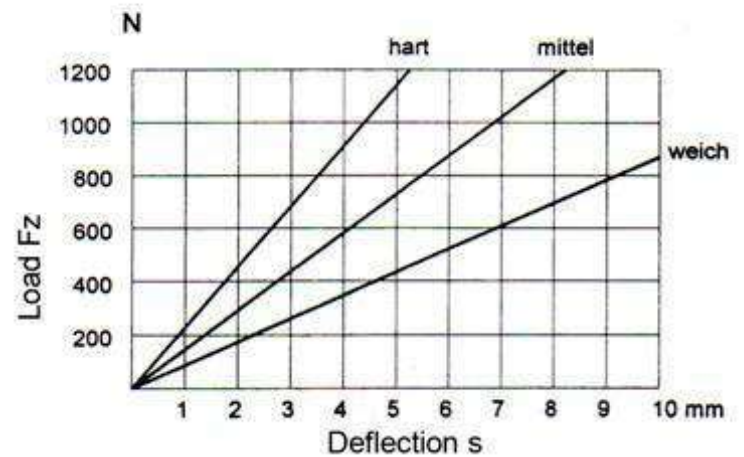
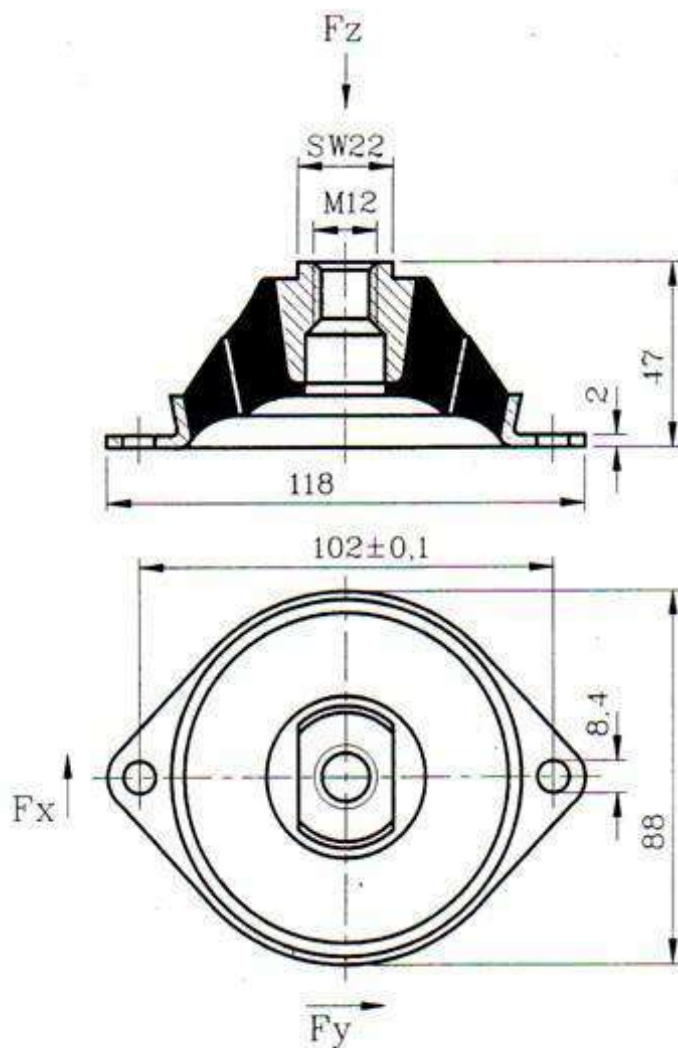
Article No. L 118

This STALASTIC bearing is suitable for the flexible mounting of apparatus, fans, compressor units etc., and especially in those applications where soft vertical suspension combined with greater horizontal stiffness is required.

The maximum permissible loads depend on the hardness of the rubber.

They are:

45 Shore A	$F_z = 800 \text{ N}$
60 Shore A	$F_z = 1000 \text{ N}$
70 Shore A	$F_z = 1200 \text{ N}$



Available only in packs of 4 pieces.



9. STALASTIC Rubber-Metal Bearing

Article No. L 157 (no stock article)

This large STALASTIC box-shaped bearing can be used for the flexible mounting of the heaviest engines in vehicles and stationary units. The core and flange parts are made of aluminium castings to save weight.

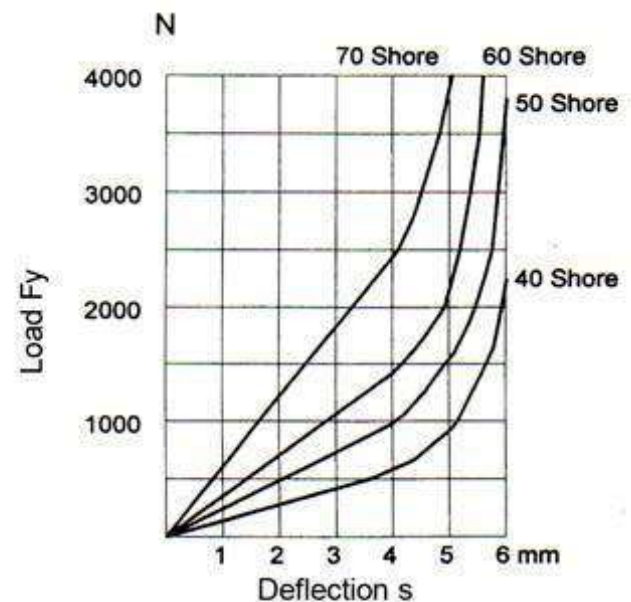
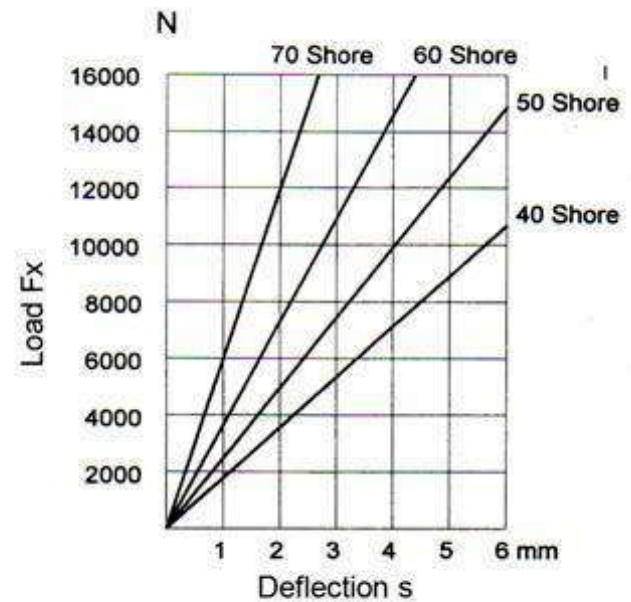
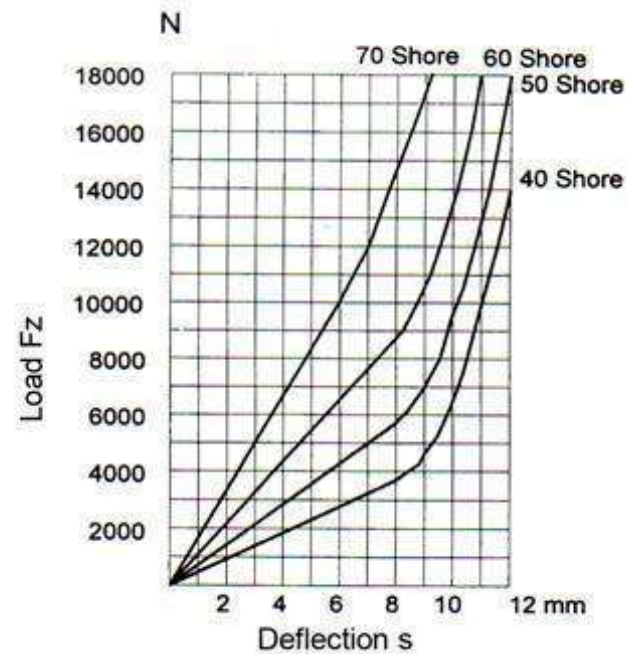
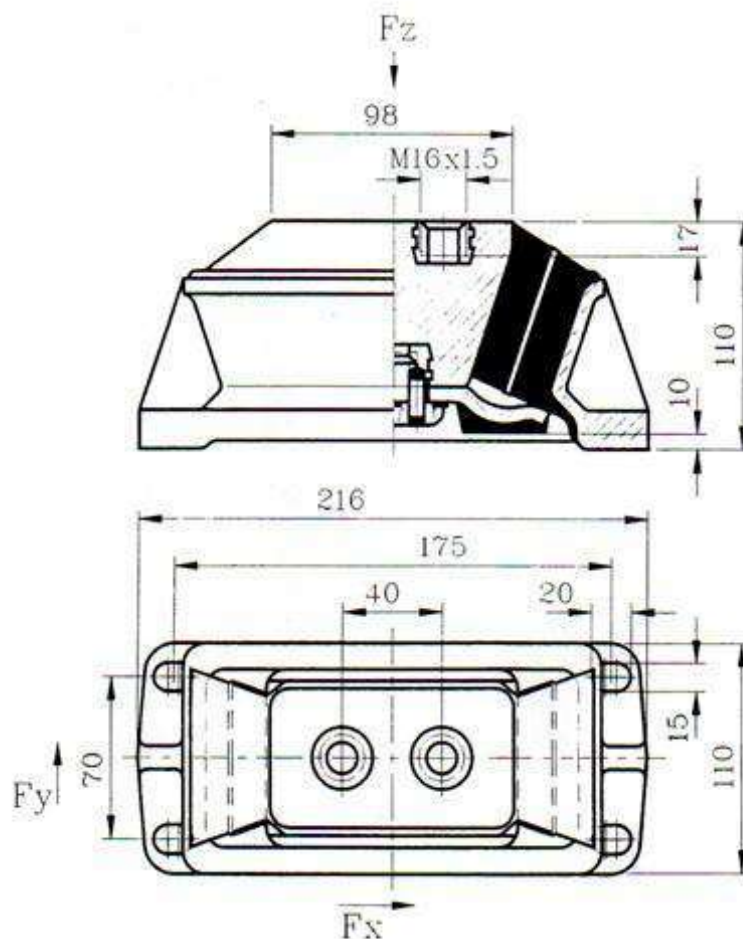
The maximum permissible loads depend on the hardness of the rubber.

They are:

40 Shore A : $F_z = 2500$ N
50 Shore A : $F_z = 4000$ N
60 Shore A : $F_z = 6000$ N
70 Shore A : $F_z = 9000$ N

Spring rates in working range N/mm $\pm 20\%$				
Shore A	40 ± 5	50 ± 5	60 ± 5	70 ± 5
c_z	450	680	1020	1570
c_x	1765	2450	3680	1690
c_y	170	235	345	590

Spring characteristics in the 3 main directions of stress
Vertical (Z), Longitudinal (X), Transverse (Y)



This article is listed in the catalogue and can be produced on request. Supply quantity on request.

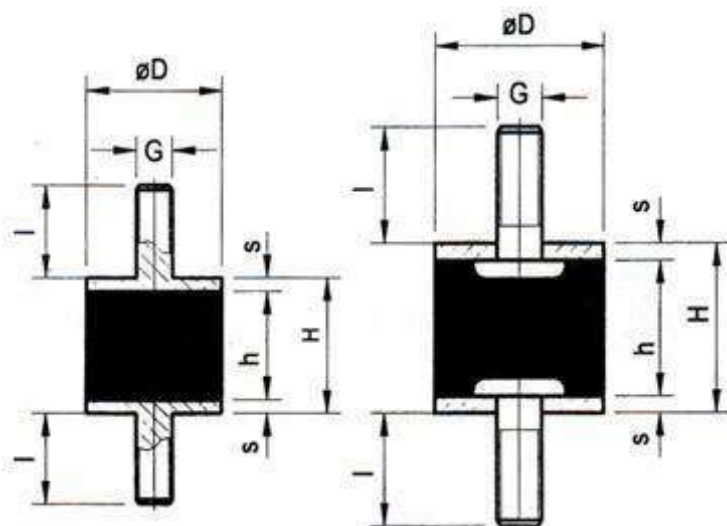


1. STALASTIC RUBBER-METAL BUFFERS Type A

with threaded pin on both sides

Rubber hardnesses:

hard approx. 70 Shore A
medium approx. 60 Shore A
soft approx. 45 Shore A



Dimensions in mm						Specification												Standard	
						Compression stress						Shear stress							
D	H	h	s	G	l	Spring rate c_z in N/mm			Perm. Load $F_{zul.}^*$ in N			Spring rate c_{xy} in N/mm			Perm. Load $F_{zul.}^*$ in N			Article No.	x
						hard	medium	soft	hard	medium	soft	hard	medium	soft	hard	medium	soft		
6	7	5	1	M3	6	50	30	14	23	15	7	8,3	5,2	2,4	11	60	3,5		
7	6	4	1	M3	6	105	60	30	35	22	10	15	10	5	21	14	7		
8	6	4	1	M3	6	140	80	40	50	30	15	19	12	6	25	18	9		
8	8	6	1	M3	6	80	50	20	40	25	10	12	7,4	4	18	12	6	GG 8	x
9	12	10	1	M4	10	60	35	15	60	35	15	7	4,5	2,5	14	9	5		
10	8	5,6	1,2	M4	10	145	90	40	75	45	20	21,5	13	7,2	23	18	10		
10	10	7,6	1,2	M4	10	100	60	30	65	40	20	15	5	4,8	24	17	9	GG 10	x
10	15	12,6	1,2	M4	10	60	35	15	60	40	20	6,4	3,8	2,3	20	12	7		
15	6	3,6	1,2	M4	10	900	650	35	250	190	110	80	49	13,5	55	45	25		
15	8	5,6	1,2	M4	10	420	360	125	200	130	70	50	30	16,5	55	45	23	GG 1508	x
15	10	7,6	1,2	M4	13	270	160	70	170	110	50	35	22	12	55	40	20		
15	15	12,6	1,2	M4	13	140	80	35	150	90	40	19	12	6,4	55	38	20	GG 15	x
15	20	17,6	1,2	M4	13	100	55	25	130	90	40	11	6,6	3,6	50	30	16		
15	25	22,6	1,2	M4	13	70	40	20	130	90	40	6,8	4,1	2,3	40	25	15		
15	30	27,6	1,2	M4	13	60	35	15	120	80	40	4,4	2,8	1,5	30	19	10		
18	8,5	4,9	1,8	M6	16	800	500	300	540	340	200	90	50	30	120	70	40	GG 18	x
20	8	4	2	M6	15	600	1100	1750	1120	800	500	130	80	43	100	80	45		
20	10	6	2	M6	15	800	475	260	640	390	210	85	52	28	100	80	45		
20	15	11	2	M6	15	290	180	110	480	300	180	50	30	20	190	110	70	GG 20	x
20	20	16	2	M6	15	180	110	50	380	1370	90	27	17	9	130	70	40		
20	25	21	2	M6	15	130	80	35	300	185	80	17	11	6	55	55	40		
25	10	6	2	M6	18	1620	1010	590	1450	910	540	140	90	50	300	190	110	GG 26	x
25	15	11	2	M6	18	500	320	150	650	420	195	71	43	23	280	160	110		
25	20	16	2	M6	18	350	220	130	740	460	270	60	40	20	300	190	110	GG 25	x
25	25	21	2	M6	18	210	130	60	500	300	140	32	20	10	150	120	60		
25	30	26	2	M6	18	185	110	50	490	300	140	22	14	7	140	90	45		
25	35	31	2	M6	18	145	90	40	465	290	130	16	10	6	125	80	40		
30	15	11	2	M8	20	940	590	340	1400	880	520	110	70	40	390	250	150	GG 30	x
30	20	16	2	M8	20	570	360	210	1190	750	440	90	60	30	440	280	160	GG 32	x
30	25	21	2	M8	20	570	360	210	1190	750	440	90	60	30	440	280	160		
30	30	26	2	M8	20	260	160	90	920	580	340	50	30	20	430	270	160	GG 33	x



1. STALASTIC RUBBER-METAL BUFFERS Type A

with threaded pin on both sides

Dimensions in mm						Specification												Standard	
						Compression stress						Shear stress							
D	H	h	s	G	I	Spring rate c_z in N/mm			Perm. Load $F_{zul.}^*$ in N			Spring rate c_{xy} in N/mm			Perm. Load $F_{zul.}^*$ in N			Article No.	x
						hard	medium	soft	hard	medium	soft	hard	medium	soft	hard	medium	soft		
40	15	11	2	M 8	23	1850	1150	640	2100	1300	720	185	115	60	555	345	180	GG 40	x
40	20	16	2	M 8	23	1100	620	300	6700	1200	700	125	76	40	400	245	130		
40	30	26	2	M 8	23	510	320	190	1840	1150	680	90	60	30	780	490	240		
40	40	36	2	M 8	23	320	200	120	1620	1020	600	60	40	20	770	480	280		
50	20	14	3	M 10	28	2430	1520	890	5100	3190	1880	240	150	90	1220	760	450	GG 52	x
50	30	24	3	M 10	28	900	550	330	3220	2010	1180	140	90	50	1210	760	440	GG 53	x
50	35	29	3	M 10	28	750	440	200	2250	1300	1050	105	65	45	1220	770	450	GG 54S	x
50	40	34	3	M 10	28	540	340	200	2770	1730	1020	100	60	40	1250	780	460		
50	45	39	3	M 10	28	430	270	160	2530	1580	930	90	50	30	1200	750	440		
50	50	44	3	M 10	28	430	260	140	2175	1315	710	60	37	20	600	370	200		
60	30	24	3	M 10	27	1550	950	450	3750	2375	1125	190	115	60	1900	1200	700	GG 64	
60	35	29	3	M 10	27	1150	700	310	2875	2030	1750	150	95	50	1650	1050	550		
60	40	34	3	M 10	27	770	480	280	4660	2910	1700	110	70	40	1600	1000	590		
60	45	39	3	M 10	27	740	440	200	3000	1750	900	105	68	36	1260	850	430		
70	45	39	3	M 10	30	1100	650	290	4300	2550	1150	160	90	50	2250	1100	600		
75	25	19	3	M 12	37	4480	2800	1650	12770	7980	4690	400	250	150	2750	1720	1010	GG 75	x
75	40	34	3	M 12	37	1600	980	450	5450	3400	1550	335	210	100	2600	2500	1200	GG 76S	x
75	45	39	3	M 12	37	1300	780	450	5100	3100	1800	180	115	63	2350	1690	990		
75	50	44	3	M 12	37	960	600	350	6340	3960	2330	170	100	60	2690	1680	980		
75	55	49	3	M 12	37	640	400	235	4700	2940	1730	120	70	40	2090	1300	770		
75	60	54	3	M 12	37	820	500	210	4500	2800	1300	110	68	35	1650	1050	525		
75	70	64	3	M 12	37	700	400	180	4480	2600	1200	95	60	32	1425	900	480		
100	40	32	4	M 16	45	2980	1860	1090	15180	9480	5580	360	220	130	4410	2760	1620	GG 104	x
100	55	47	4	M 16	45	2000	1200	550	9600	5800	4100	270	165	90	4500	3300	1800	GG 106	
100	60	52	4	M 16	45	1360	850	500	11020	6890	4050	230	140	80	4440	2780	1630		
100	75	67	4	M 16	45	1200	700	320	8200	5000	2800	175	105	60	3650	2205	1200		
125	55	45	5	M 16	45	3800	2300	1150	18000	11400	6700	440	265	145	6600	4000	2100		
125	60	50	5	M 16	45	3200	1900	900	16000	9600	5800	395	240	130	6300	3850	1950		
125	75	65	5	M 16	45	2100	1300	600	14000	8600	4200	295	180	100	5900	3600	1900		
150	55	45	5	M 16	45	6400	3900	1900	29000	17900	11500	640	400	215	8000	4800	3200		
150	60	50	5	M 16	45	5200	3200	1550	27000	16500	10000	570	350	195	7400	4700	2700		
150	75	65	5	M 16	45	3400	2000	950	22200	14000	8050	430	270	140	6880	4300	2250		
200	100	90	5	M 16	45	4200	2500	1180	38000	23000	13800	555	340	185	11100	6800	3700		

* $F_{zul.}$ is the **permissible continuous static load** upon which a fluctuating dynamic load can be superimposed.
The permissible loadings given represent only approximate maximum values of static loading for guidance.

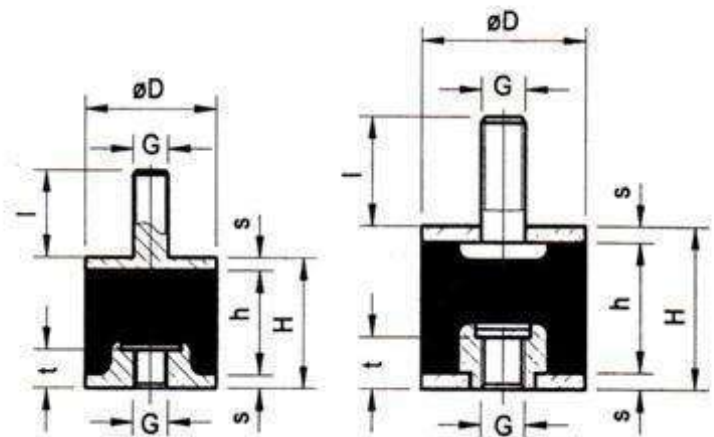


1. STALASTIC RUBBER-METAL BUFFERS Type B

with internal thread and threaded pin

Rubber hardnesses:

hard approx. 70 Shore A
medium approx. 60 Shore A
soft approx. 45 Shore A



Dimensions in mm								Specification												Standard	
								Compression stress						Shear stress							
D	H	h	s	G	l	t	Spring rate c_z in N/mm			Perm. Load $F_{zul.}^*$ in N			Spring rate c_{xy} in N/mm			Perm. Load $F_{zul.}^*$ in N			Article No.	x	
							hard	medium	soft	hard	medium	soft	hard	medium	soft	hard	medium	soft			
8	6	4	1	M 3	6	3	50	30	15	24	16	8	22	15	9	30	24	15	GM 8	x	
8	8	6	1	M 3	6	3	110	60	30	35	25	10	19	12	6	26	19	10			
10	8	5,6	1,2	M 4	10	4	150	85	45	55	35	18	25	17	9	30	25	15	GM 10	x	
10	10	7,6	1,2	M 4	10	4	110	65	30	70	45	20	22	14	7	27	20	12			
10	15	12,6	1,2	M 4	10	4	60	35	15	65	45	20	15	9	5	25	17	10			
15	10	7,6	1,2	M 4	13	4	175	165	70	175	115	50	80	49	13	56	45	25	GM 10/15	x	
15	15	12,6	1,2	M 4	13	4	140	85	35	150	95	40	5	30	16	55	45	23	GM 15/15		
15	20	17,6	1,2	M 4	13	4	100	60	25	135	95	40	35	20	12	55	40	20	GM 15/20		
15	25	22,6	1,2	M 4	13	4	75	45	25	135	95	40	10	6,5	3,2	50	30	15			
15	30	27,6	1,2	M 4	13	4	60	35	15	120	80	40	7	4	2	42	28	20			
20	15	11	2	M 6	15	6	300	185	110	490	305	185	90	55	30	150	95	60	GM 20/15	x	
20	20	16	2	M 6	15	6	185	115	50	385	1370	95	27	17	12	145	75	55			
20	25	21	2	M 6	15	6	140	80	50	290	180	100	27	17	10	140	90	50	GM 20		
25	15	11	2	M 6	18	6	550	330	455	700	440	200	140	85	50	300	190	110	GM 25	x	
25	20	16	2	M 6	18	6	300	140	110	470	290	170	60	38	22	220	140	80			
25	25	21	2	M 6	18	6	220	140	110	510	310	150	60	38	20	210	135	75			
25	30	26	2	M 6	18	6	185	110	50	500	300	140	30	20	10	150	120	60			GM 25 S
25	35	31	2	M 6	18	6	150	95	40	470	300	135	22	15	8	145	95	50			
30	15	11	2	M 8	20	8	950	600	350	1400	890	540	120	80	45	440	270	160	GM 32	x	
30	20	16	2	M 8	20	8	650	410	240	900	560	330	110	70	40	370	230	140			
30	25	21	2	M 8	20	8	575	370	220	1200	755	445	70	42	22	210	160	95			GM 30/25
30	30	26	2	M 8	20	8	340	210	120	740	460	270	65	40	25	340	210	120			GM 33
30	40	34	3	M 8	20	8	180	110	60	660	410	240	32	20	12	290	180	100			GM 34
40	15	11	2	M 8	23	8	2000	1300	720	2200	1400	750	190	120	65	600	350	200	GM 40	x	
40	20	16	2	M 8	23	8	1400	650	320	4200	1300	720	145	95	60	480	305	165			
40	30	26	2	M 8	23	8	540	340	200	1200	740	440	100	60	35	510	320	190			
40	40	36	2	M 8	23	8	390	190	110	1150	700	410	90	40	25	580	360	210			GM 44
50	20	14	3	M 10	28	10	2390	1500	750	2400	1900	1000	210	125	60	550	300	130	GM 52	x	
50	30	24	3	M 10	28	10	900	500	230	2100	1320	780	150	90	40	910	570	340	GM 53	x	
50	35	29	3	M 10	28	10	880	400	210	2050	1300	740	125	70	40	900	565	335	GM 50	x	
50	40	34	3	M 10	28	10	550	350	210	2000	1240	730	110	65	35	900	560	330			
50	45	39	3	M 10	28	10	540	340	200	2750	1730	1020	85	50	30	800	495	310			
50	50	44	3	M 10	28	10	340	210	120	1700	1060	620	70	40	25	790	480	290	GM 55	x	



1. STALASTIC RUBBER-METAL BUFFERS Type B

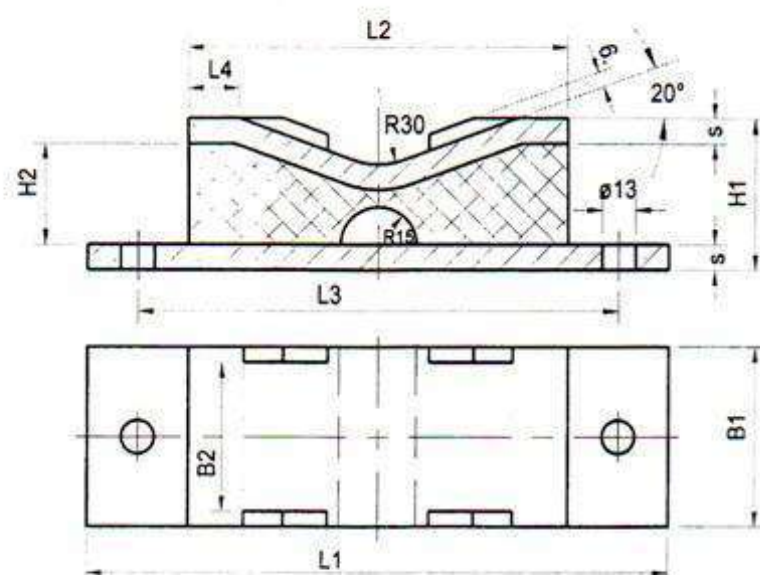
with internal thread and threaded pin

Dimensions in mm								Specification												Standard	
								Compression stress						Shear stress							
D	H	h	s	G	l	t	Spring rate c_z in N/mm			Perm. Load $F_{zul.}^*$ in N			Spring rate c_{xy} in N/mm			Perm. Load $F_{zul.}^*$ in N			Article No.	x	
							hard	medium	soft	hard	medium	soft	hard	medium	soft	hard	medium	soft			
60	30	24	3	M 10	27	10	1700	1100	540	4100	2650	1300	200	130	70	1100	680	350			
60	35	29	3	M 10	27	10	1500	950	450	3700	2400	1150	190	115	60	1500	1200	700			
60	40	34	3	M 10	27	10	1130	710	315	2900	2050	1700	150	95	50	1600	1040	540			
60	45	39	3	M 10	27	10	780	490	290	4700	2955	1705	110	70	45	1610	1010	600			
70	45	39	3	M 10	30	10	1200	710	315	4750	3005	1205	165	95	55	2200	750	600	GM 70/45		
75	25	19	3	M 12	37	12	4700	3000	1800	9300	6100	3720	450	300	180	1100	1800	400	GM 75/25	x	
75	40	34	3	M 12	37	12	4500	2900	1700	13000	800	4700	430	270	160	2800	2600	1010	GM 75/40		
75	45	39	3	M 12	37	12	1700	1000	480	5600	3550	1610	340	215	105	2700	1150	1250			
75	50	44	3	M 12	37	12	930	600	310	4600	2850	1680	160	100	60	1850	1700	680	GM 75	x	
75	55	49	3	M 12	37	12	950	590	350	6310	3950	2310	170	100	60	2600	1300	970			
75	60	54	3	M 12	37	12	645	405	140	4800	2945	1735	120	70	40	2100	1040	780			
75	70	64	3	M 12	37	12	630	410	215	4550	2860	1340	110	70	35	1610	1040	530			
100	40	32	4	M 16	45	16	3100	1600	1000	6700	4200	2500	400	220	120	2250	1400	820	GM 104	x	
100	55	47	4	M 16	45	16	2950	1850	1080	14900	9400	5500	360	215	130	4430	2800	1630	GM 100/55		
100	60	52	4	M 16	45	16	1400	830	500	7500	4700	2800	250	150	90	3300	2050	1200	GM 106	x	
100	75	67	4	M 16	45	16	1350	900	550	11100	6900	4100	230	140	80	4400	2800	1630			
125	55	45	5	M 16	45	16	4010	2510	1300	20100	13400	8100	505	300	170	7400	4650	2380			
125	60	50	5	M 16	45	16	3850	2450	1220	18900	11600	7000	450	275	155	6700	4300	2250			
125	75	65	5	M 16	45	16	3200	1950	510	16400	9800	5900	400	245	140	6400	3900	1990			
150	55	45	5	M 16	45	16	6600	4000	2100	31600	18700	12400	660	420	220	8200	5000	3400			
150	60	50	5	M 16	45	16	6500	3950	2010	30500	18100	12015	650	410	220	8150	4550	3380			
150	75	65	5	M 16	45	16	5200	3300	1600	27300	16800	11050	580	360	200	7500	4710	2780			
200	100	90	5	M 16	45	16	4300	2550	1200	38100	23400	14030	560	340	185	11150	6810	3730			

* $F_{zul.}$ is the **permissible continuous static load** upon which a fluctuating dynamic load can be superimposed.
The permissible loadings given represent only approximate maximum values of static loading for guidance.

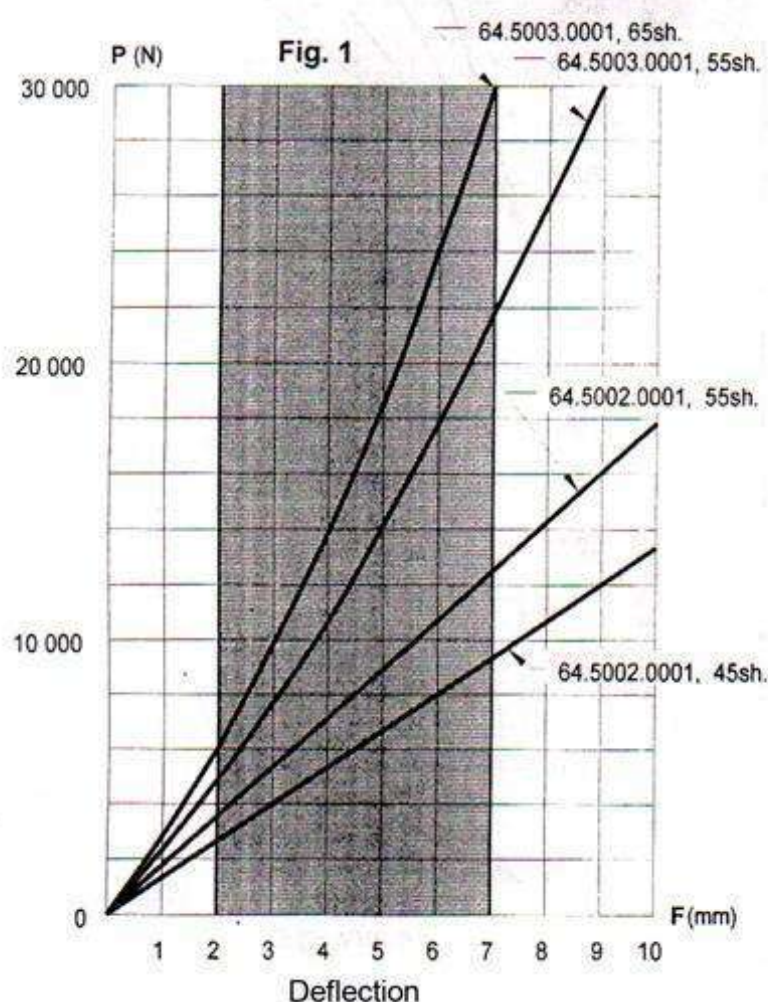


9. STALASTIC Transformer Bearings®



Transformer bearing type	L1	L2	L3	L4	H1	H2	B1	B2	s	Art. No.
64.5002.0001	230	150	190	20	60	40	70	58	10	186 014 / 55SH
64.5003.0001	330	250	290	74	70	50	100	88	10	186 027 / 55SH

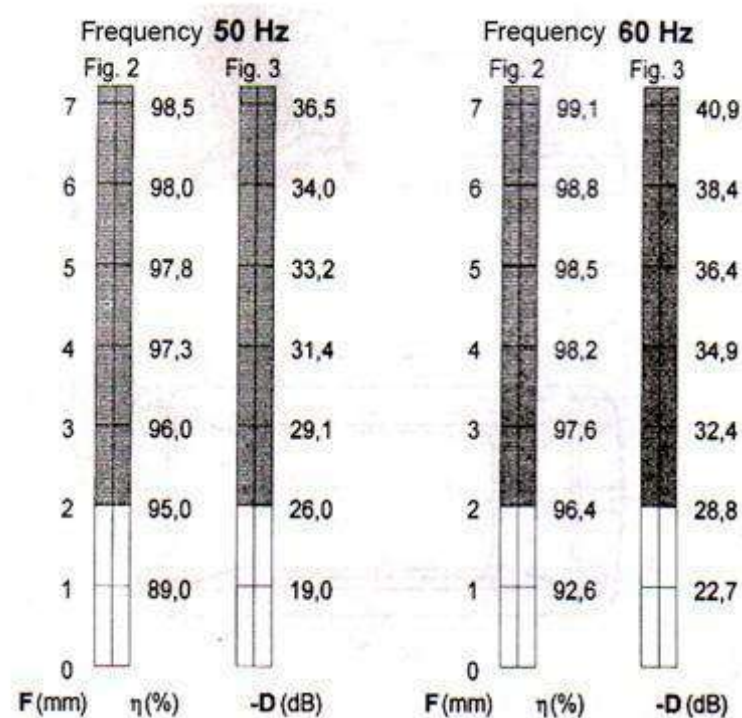
To attain the largest solid-borne sound insulation value, select the transformer bearing type with highest deflection in the figured selection range.



Example for optimum insulation of solid-borne sound

Total mass of transformer 26300-N. With four bearing elements:

26300 N: 4 = 6570 N/per element
Selection in Fig. 1, 64.5002.0001, 45 sh = F5mm
Frequency: 50 Hz, Fig. 2 F5mm = η 97,8% Degree of insulation
Frequency: 50 Hz, Fig. 3 = 33,2 D(dB) Solid-borne sound insulating value



η (%) = Degree of insulation, D(dB) = Solid-borne sound insulating value