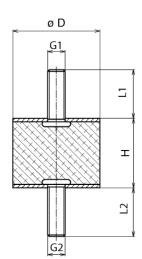


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elasto-A-Mounts 50x45 50x45 A UNF1/2-20/25 Shore A

Dimensions:	
D	Н
1.97	1.77
G1	G2
UNF1/2-20	UNF1/2-20
L1	L2
0.98	0.98
Elastomer	ShoreA
	57

1. Table of Contents

- 1. Table of Contents
- 2. Application Analysis Data
 - 2.1 Calculated Results in Compression and Shear
 - Example Application
- 3. Recommended Compression Load
- 4. Recommended Shear Load
- 5. Compression/Injection Molded Standard Product Tolerances
- 6. Rubber Selection
- 7. Tightening Torque and Bolt Grades & Class
- 8. Torque Threaded Stud Test of elasto-A- and B-Mounts
- 9. Certificate of RoHS compliance and shelf life expectancy.



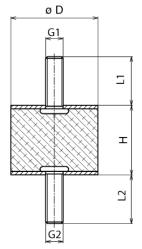
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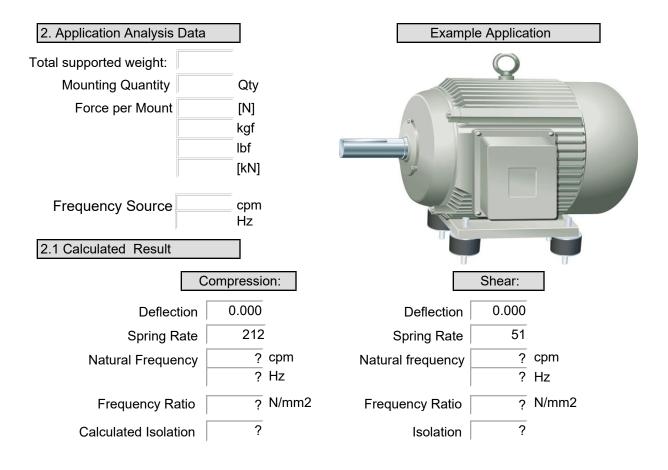
5045A13F25

elasto-A-Mounts 50x45 50x45 A UNF1/2-20/25 Shore A

Dimensions:							
D	Н						
1.97	1.77						
G1	G2						
UNF1/2-20	UNF1/2-20						
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Elastomer	ShoreA						
	57						







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elasto-A-Mounts 50x45 50x45 A UNF1/2-20/25 Shore A

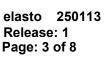
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G1	G2
UNF1/2-20	UNF1/2-20
L1	L2
0.98	0.98
Elastomer	ShoreA
	57

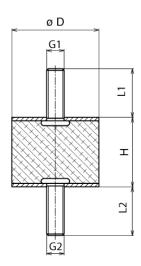


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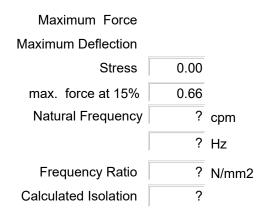
Certificates and





3. Recommended Compression Load							
Compression Information							

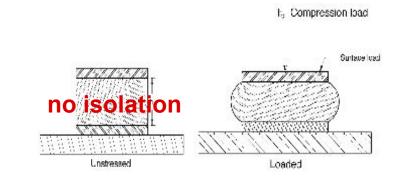
Deflection	0.000
Spring Rate	212
Maximum Stress	20.87



Compression Deflection Information

- 0.000
- 212.3

? Natural Frequency at max. load ?Isolation at



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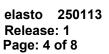
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G1	G2
UNF1/2-20	UNF1/2-20
L1	L2
0.98	0.98
Elastomer	ShoreA
	57

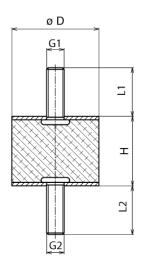


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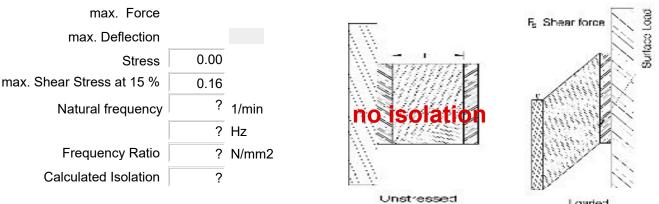
4. Recommended Shear Load

Shear Information

Deflection	0.000
Spring Rate	51
max. stress	0.46

Shear Deflection Information

- 0.000
- 50.6
 - ? Natural Frequency by max. load ? Isolation by



Loaded



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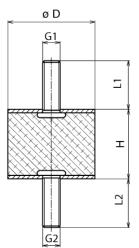
Dimensions:	
D	Н
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Elastomer	ShoreA
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5. Compression/Injection Molded Standard Product Tolerances

Standard compression molded product dimensional tolerances conform to DIN ISO 3302-1 M3 C Standard Injection molded product tolerances conform to DIN ISO 3302-1 M3 F Further information regarding product/process guality can be provided upon reguest.

	Dimensions Dimensions Tolera Cla mm inch DIN				Tolerance in Inch Class M3-F DIN ISO 3302-1	Tolerance in mm Class M3-C DIN ISO 3302-1	Tolerance in Inch Class M3-C DIN ISO 3302-1
from	to	from	to	mm	inch	mm	inch
0	4	0	.15"	± 0.25	±.010	±0.40	±.016
4	6.3	.16"	.25"	± 0.25	± .010	± 0.40	± .016
6.3	10	.25"	.39"	± 0.30	±.012	± 0.50	±.020
10	16	.39"	.63"	± 0.40	±.016	±0.60	±.024
16	25	.63"	.98"	± 0.50	±.020	±0.80	±.032
25	40	.98"	1.57"	± 0.60	±.024	± 1.00	±.040
40	64	1.57"	2.52"	± 0.80	±.032	± 1.30	±.051
63	100	2.38"	3.94"	± 1.00	±.040	± 1.60	±.063
100	160	3.94"	6.30"	± 1.30	±.051	± 2.00	±.079
160		6.30"		± 1.3 %	± 1.3 %	± 1.3 %	± 1.3 %

Standard rubber hardness tolerance ± 5 Shore A Durometer per ASTM D2000



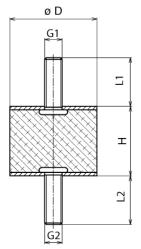
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5045A13F25

elasto-A-Mounts 50x45 50x45 A UNF1/2-20/25 Shore A

Dimensions:	
D	Н
1.97	1.77
G1	G2
UNF1/2-20	UNF1/2-20
L1	L2
0.98	0.98
Elastomer	ShoreA
	57





6. Rubber Selection

	(° – – – – – – – – – – – – – – – – – – –								PRO	PER	TIES								
Hardness Range (ShoreA)	Temperature Resistance Range 'C (F*)	Short Term Peak Temperature C° (F°)	Tensile Strength (N/mm ²⁾ (PSI)	Tensile Eloangariotion %	Elastomer Basic Material Chemical-Technical Discription Below: (Trade Name)	International Description	Tensile Strength	Tear Resistance	Abrasion Resistance	Restoring Ability	Rebound Resilience	Ozone Resistance	Flame Resistance	Acid Resistance	Benzene & Mineral Oil Resistance	Gas Impermeability	Water Absorption Resistance	- Temperature Resistance	+ Temperature Resistance
25 - 95	-40°- 75° (-40°- 167°)	+100° (212°)	31 (4496)	800	Natural Rubber	NR	2	2	2	2	1	4	5	3	5	4	3	2	4
30 - 90	-30°- 120° (-22°- 248°)	+150° (302°)	27.5 (3988)	450	Chloroprene (Baypren, Neoprene)	CR	2	3	2	3	2	2	2	2	3	3	4	4	3
30 - 90	-40°- 150° (-40°- 302°)	+180° (356°)	20 (2901)	450	Ethylene-Propylene - Terpolymer	EPDM	3	4	3	3	3	1	6	3	5	3	2	3	2
25 - 95	-40°- +140° (-40°- 248°)	+160° (320°)	25 (3626)	500	Ntrile Butadine (Perbunan)	NBR	3	4	3	3	3	5	5	3	1	3	3	4	3
35 - 95	-30°- +110° (-22°- 230°)	+150° (302°)	25 (3626)	450	Styrene-Butadiene	SBR	3	3	2	3	3	5	5	3	5	3	3	3	3
30 - 85	-40°- +130° (-40°- 266°)	+150° (302°)	17 (2466)	800	Butyl	IIR	3	2	2	3	5	1	4	4	6	4	2	2	3
55 - 98	-30°- +80° (-22°- 176°)	+100° (212°)	30 (4351)	800	Polyurethane	PUR	1	2	1	3	3	2	4	5	2	4	5	3	4
40 - 80	-70°- +180° (-94°- 356°)	+225° (437°)	8 (1160)	250	Silicone Rubber	SI	5	5	5	5	2	1	4	3	5	5	4	1	1
65 - 90	-30°- +225° (-22°- 437°)	+350° (662°)	20 (2901)	400	Fluorocarbon (Viton)	FPM	3	2	5	5	4	1	1	1	1	1	2	4	1

The above mentioned information are used for a guide and can be modified by elatometall to improve certain characteristis.

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elasto-A-Mounts 50x45 50x45 A UNF1/2-20/25 Shore A

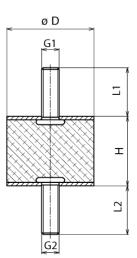
Dimensions:	
D	Н
1.97	1.77
G1	G2
UNF1/2-20	UNF1/2-20
L1	L2
0.98	0.98
Elastomer	ShoreA
	57



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7. Tightening Torque and Bolt Grades & Class

Tightening Torque per ASTM A193 and A194

Metric Units: (Metric Thread)				English Units: (Coarse Thread)				English Units: (Fine Thread)			
	CLASS 5.6	CLASS 8.8	CLASS 10.9		GRADE 2	GRADE 5	GRADE 8		GRADE 2	GRADE 5	GRADE 8
Thread Size & Pitch	Tightening Torque (Nm)	Tightening Torque (Nm)	Tightening Torque (Nm)	Thread Size & Pitch	Tightening Torque (ft-lb)	Tightening Torque (ft-lb)	Tightening Torque (ft-lb)	Thread Size & Pitch	Tightening Torque (ft-lb)	Tightening Torque (ft-lb)	Tightening Torque (ft-lb)
M2	0.16	0.37	0.52	6-32	0.86	1.33	1.88	6-40	0.96	1.49	2.1
M2.3	0.26	0.6	0.84	8-32	1.58	2.44	3.44	8-36	1.66	2.57	3.63
M2.6	0.37	0.86	1.21	10-24	2.29	3.53	499	10-32	2.61	4.04	5.7
M3	0.59	1.34	1.88	12-24	3.59	5.55	7.84	12-28	3.83	5.92	8.36
M3.5	0.9	2.06	2.89	1/4-20	5.47	8.45	11.9	1/4-28	6.26	9.7	13.7
M4	1.34	3.04	4.31	5/16-18	11.3	17.4	24.6	5/16-24	12.5	19.3	27.2
M5	2.65	6.03	8.48	3/8-16	20	30.9	43.6	3/8-24	22.66	35	49.4
M6	4.51	10.3	14.71	7/16-14	32	39.4	69.8	7/16-20	35.7	55.2	77.9
M7	7.45	17.16	24.52	1/2-13	48.8	75.4	106	1/2-20	55	84.9	120
M8	10.79	25.5	35.3	9/16-12	70.4	109	154	9/16-18	78.5	121	171
M10	21.57	50.01	70.61	5/8-11	97.1	150	212	5/8-18	110	170	240
M12	38.25	87.28	122.58	3/4-10	103	366	376	3/4-16	115	297	420
M14	60.8	138.27	194.17	7/8-9	167	430	606	7/8-14	184	473	668
M16	93.16	210.84	299.1	1-8	250	561	909	1-12	273	613	995
M18	127.49	411.88	411.88	1-1/8-7	354	794	1288	1-1/8-12	397	891	1445
M20	180.44	558.98	578.5	1-1/4-7	500	1120	1817	1-1/4-12	553	1241	2012
M22	245.17	558.98	784.54	1-3/8-6	655	1469	2382	1-3/8-12	746	1673	2712
M24	308.91	710.99	1000.28	1/2-6	869	1949	3161	1-1/2-12	978	2194	3557
M27	460.92	1049.32	1480.81								
M30	522.73	1421.97	2010.38								

Non-Standard



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elasto-A-Mounts 50x45 50x45 A UNF1/2-20/25 Shore A

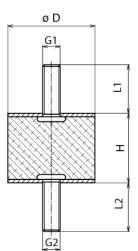
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G1	G2				
UNF1/2-20	UNF1/2-20				
L1	L2				
0.98	0.98				
Elastomer	ShoreA				
	57				



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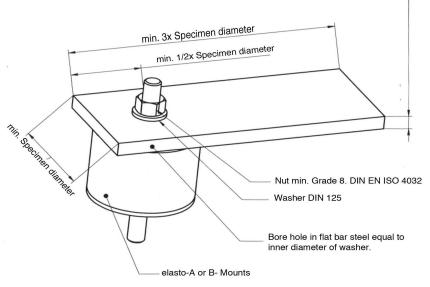


8. Torque Threaded Stud Test of elasto-A- and B-Mounts

Tighten flat bar steel on jaw vise. Setup required torque wrench per table. Use a nut for specimen and tighten it with torque wrench until the required torque is achieved. Loosen nut from specimen and visual check threaded studs for:

- Stud extension

- Thread pitch damaged or sheered
- Connection between washer
- Broken stud



All data are given to the best of our knowledge. The performance are not guaranteed and all liability excluded. Samples are recommended. Durometer Tolerance as per ASTM D2240 ± 5 Duro. A

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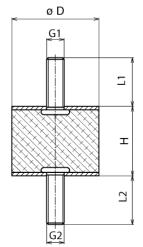
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5045A13F25

elasto-A-Mounts 50x45 50x45 A UNF1/2-20/25 Shore A

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UNF1/2-20	UNF1/2-20					
L1	L2					
0.98	0.98					
Elastomer	ShoreA					
	57					





9. Certificate of RoHS Compliance

Customer

We confirm that these mounts are RoHS Compliance.

9. Shelf Life Expectancy

Rubber to metal bonded products have a shelf life expectancy of up to 20 years under certain conditions such as room temperature and avoiding direct sunlight or artificial lights.

- ALWAYS KEEP PARTS AWAY FROM DIRECT SUNLIGHT AND BETWEEN 10° - 30° CELSIUS -