

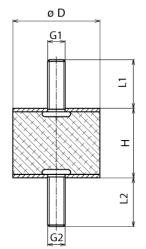
elasto 250113 Release: 1 Page: 1 of 8

5050BU25

elasto-A-Mounts 50x50 50x50 A UNC3/8-16/25 Shore A

Dimensions:	
D	Н
1.97	1.97
G1	G2
UNC3/8-16	UNC3/8-16
L1	L2
0.98	0.39
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.



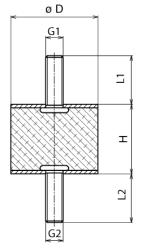
Product Specification/ Certificates and Assembly Instruction elasto 250113 Release: 1 Page: 2 of 8

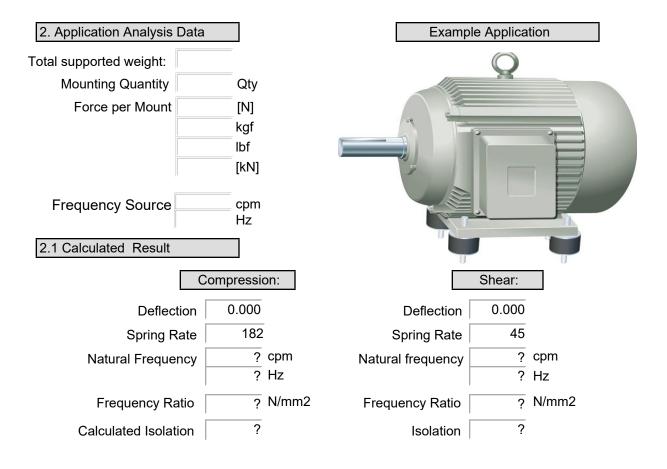
5050BU25

elasto-A-Mounts 50x50 50x50 A UNC3/8-16/25 Shore A

Dimensions:	
D	Н
1.97	1.97
G1	G2
UNC3/8-16	UNC3/8-16
L1	L2
0.98	0.39
Elastomer	ShoreA
	57







Printed On: 11/17/17, 8:02:49 am



Product Specification/ **Certificates and** Assembly Instruction

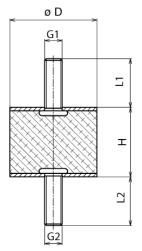
elasto 250113 Release: 1 Page: 3 of 8

5050BU25

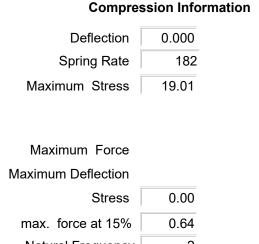
elasto-A-Mounts 50x50 50x50 A UNC3/8-16/25 Shore A

Dimensions:	
D	Н
1.97	1.97
G1	G2
UNC3/8-16	UNC3/8-16
L1	L2
0.98	0.39
Elastomer	ShoreA
	57





3. Recommended Compression Load



? cpm Natural Frequency ? Hz

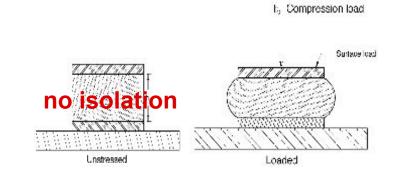
Frequency Ratio ? N/mm2 ? **Calculated Isolation**

Compression Deflection Information

0.000

182.2

? Natural Frequency at max. load ?Isolation at



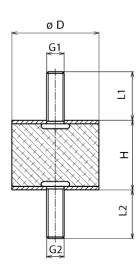
All data are given to the best of our knowledge. The performance are not guaranteed and all liability excluded. Samples are recommended. Durometer Tolerance as per ASTM D2240 ± 5 Duro. A

Printed On: 11/17/17, 8:02:49 am



Product Specification/ **Certificates and** Assembly Instruction

elasto 250113 Release: 1 Page: 4 of 8



5050BU25

elasto-A-Mounts 50x50 50x50 A UNC3/8-16/25 Shore A

Dimensions:	
D	Н
1.97	1.97
G1	G2
UNC3/8-16	UNC3/8-16
L1	L2
0.98	0.39
Elastomer	ShoreA
	57

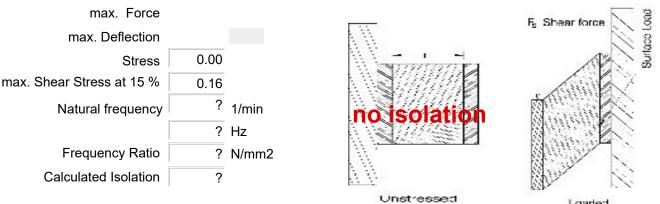
4. Recommended Shear Load

Shear Information

Deflection	0.000
Spring Rate	45
max. stress	0.51

Shear Deflection Information

- 0.000
- 45.1
 - ? Natural Frequency by max. load ? Isolation by





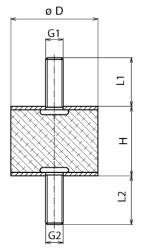
elasto 250113 Release: 1 Page: 5 of 8

5050BU25

elasto-A-Mounts 50x50 50x50 A UNC3/8-16/25 Shore A

Dimensions:	
D	Н
1.97	1.97
G1	G2
UNC3/8-16	UNC3/8-16
L1	L2
0.98	0.39
Elastomer	ShoreA
	57





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 request.

Dimensions Dimensions mm inch				Tolerance in mm Class M3-F DIN ISO 3302-1	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



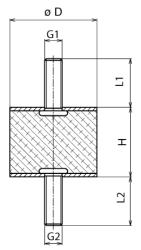
Product Specification/ Certificates and Assembly Instruction elasto 250113 Release: 1 Page: 6 of 8

5050BU25

elasto-A-Mounts 50x50 50x50 A UNC3/8-16/25 Shore A

Dimensions:	
D	Н
1.97	1.97
G1	G2
UNC3/8-16	UNC3/8-16
L1	L2
0.98	0.39
Elastomer	ShoreA
	57





6. Rubber Selection

	Ê.	(.			1-12210-0000-000000							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.

Printed On: 11/17/17, 8:02:49 am



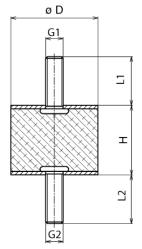
Product Specification/ Certificates and Assembly Instruction elasto 250113 Release: 1 Page: 7 of 8

5050BU25

elasto-A-Mounts 50x50 50x50 A UNC3/8-16/25 Shore A

Dimensions:	
D	Н
1.97	1.97
G1	G2
UNC3/8-16	UNC3/8-16
L1	L2
0.98	0.39
Elastomer	ShoreA
	57





7. Tightening Torque and Bolt Grades & Class

1421.97 2010.38

Tightening Torque per ASTM A193 and A194

Metric	Metric Units: (Metric Thread)				nglish 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												

522.73 Non-Standard

M30



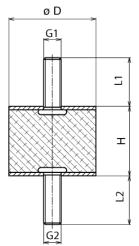
elasto 250113 Release: 1 Page: 8 of 8

5050BU25

elasto-A-Mounts 50x50 50x50 A UNC3/8-16/25 Shore A

Dimensions:	
D	Н
1.97	1.97
G1	G2
UNC3/8-16	UNC3/8-16
L1	L2
0.98	0.39
Elastomer	ShoreA
	57



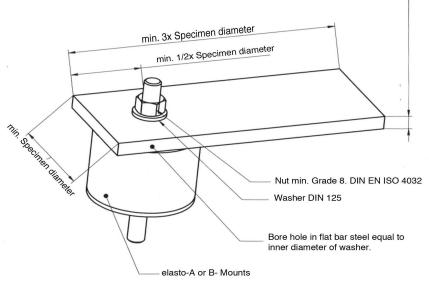


8. Torque Threaded Stud Test of elasto-A- and B-Mounts

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:



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





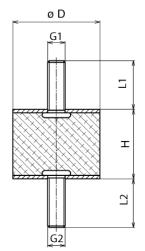
elasto 250113 Release: 1 Page: 9 of 8

5050BU25

elasto-A-Mounts 50x50 50x50 A UNC3/8-16/25 Shore A

Dimensions:	
D	Н
1.97	1.97
G1	G2
UNC3/8-16	UNC3/8-16
L1	L2
0.98	0.39
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 -