

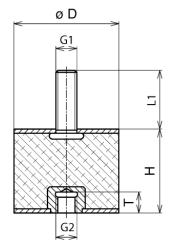
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# 3219HU22

elasto-B-Mounts 32x19 32x19 B UNC5/16-18/22 Shore A

Dimensions:	
D	Н
1.26	0.75
G1	G2
UNC5/16-18	UNC5/16-18
L1	Т
0.87	0.87
Elastomer	ShoreA
	43





### 1. Table of Contents

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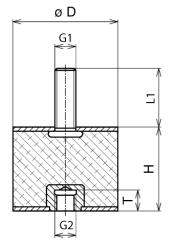
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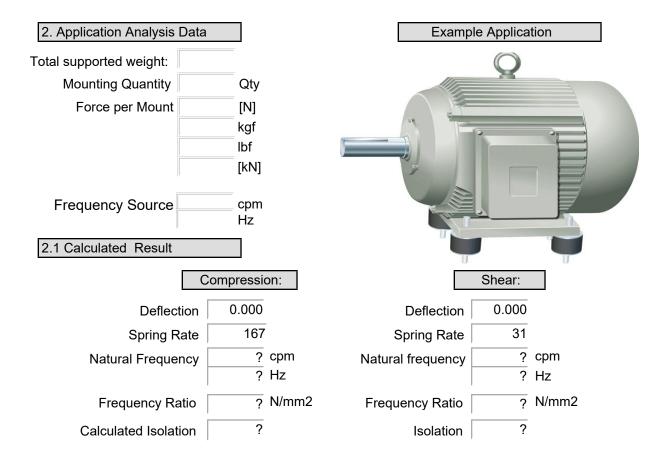
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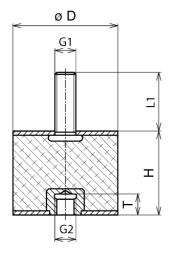
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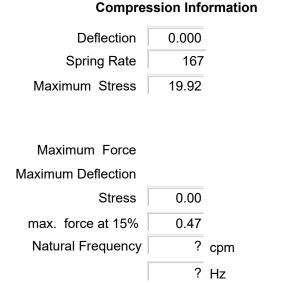
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### 3. Recommended Compression Load



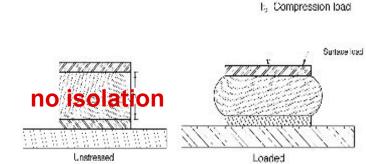
? N/mm2

?

### Compression Deflection Information 0.000

166.9

? Natural Frequency at max. load ?lsolation at



**Frequency Ratio** 

**Calculated Isolation** 



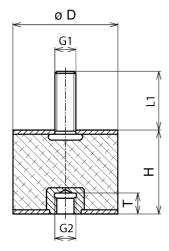
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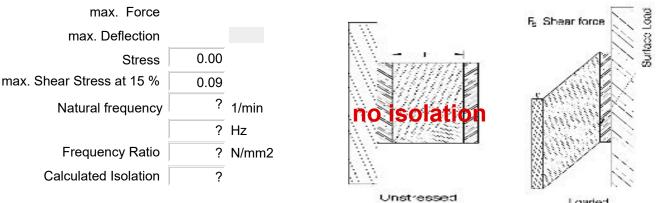
#### 4. Recommended Shear Load

#### **Shear Information**

Deflection	0.000
Spring Rate	31
max. stress	0.05

### **Shear Deflection Information**

- 0.000
- 30.6
  - ? Natural Frequency by max. load ? Isolation by



Loaded

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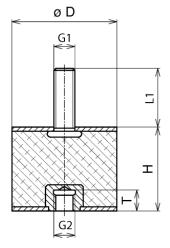
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### 5. Compression/Injection Molded Standard Product Tolerances

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 request.

Dimer m		1000000	nsions ch	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



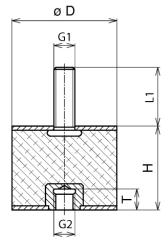
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#### 6. Rubber Selection

	ŝ	(.										PRO	PER	TIES					
Hardness Range (ShoreA)	Temperature Resistance Range 'C (F*)	Short Term Peak Temperature C° (F°)	Tensile Strength (N/mm <sup>2)</sup> (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	<b>-40°- 75°</b> (-40°- 167°)	<b>+100°</b> (212°)	<b>31</b> (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°)	<b>27.5</b> (3988)	450	Chloroprene (Baypren, Neoprene)	CR	2	3	2	3	2	2	2	2	3	3	4	4	3
30 - 90	<b>-40°- 150°</b> (-40°- 302°)	+180° (356°)	<b>20</b> (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°)	<b>25</b> (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°)	<b>25</b> (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°)	<b>17</b> (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°)	<b>30</b> (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°)	<b>8</b> (1160)	250	Silicone Rubber	sı	5	5	5	5	2	1	4	3	5	5	4	1	1
65 - 90	-30°- +225° (-22°- 437°)	+350° (662°)	<b>20</b> (2901)	400	Fluorocarbon (Viton)	FPM	3	2	5	5	4	1	1	1	1	1		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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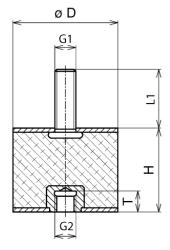
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### 7. Tightening Torque and Bolt Grades & Class

Tightening Torque per ASTM A193 and A194

2010.38

1421.97

Metric	Metric Units: (Metric Thread)				Units: (Coar	se Thread)	÷	English Units: (Fine Thread)						
2	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



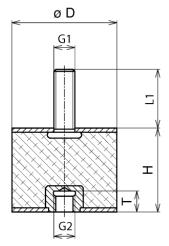
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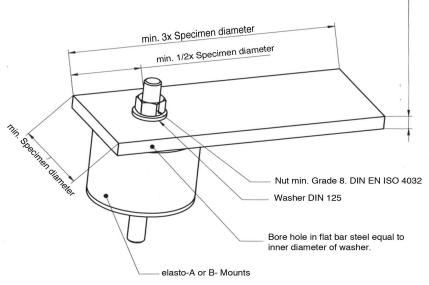


#### 8. Torque Threaded Stud Test of elasto-A- and B-Mounts

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:



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





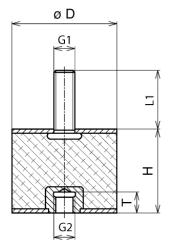
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#### 9. Certificate of RoHS Compliance

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 -