

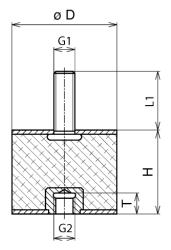
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### 4035B10U25

elasto-B-Mounts 40x35 40x35 B UNC3/8-16/25 Shore A

| Dimensions: |           |
|-------------|-----------|
| D           | Н         |
| 1.57        | 1.38      |
| G1          | G2        |
| UNC3/8-16   | UNC3/8-16 |
| L1          | T         |
| 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

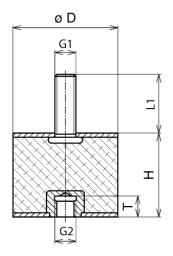
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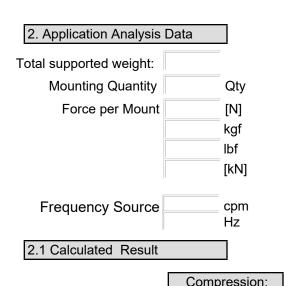
# 4035B10U25

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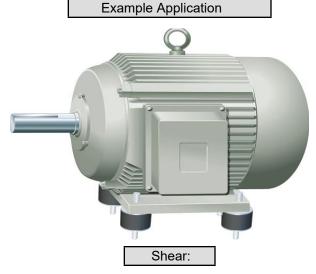
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| L1          | Т         |
| 0.98        | 0.39      |
| Elastomer   | ShoreA    |
|             | 57        |







| Deflection           | 0.000 |           |
|----------------------|-------|-----------|
| Spring Rate          | 378   |           |
| Natural Frequency    | ?     | cpm<br>Hz |
| Frequency Ratio      | ?     | N/mm2     |
| Calculated Isolation | ?     |           |



| Deflection        | 0.000 |       |
|-------------------|-------|-------|
| Spring Rate       | 70    |       |
| Natural frequency | ?     | cpm   |
|                   | ?     | Hz    |
| Frequency Ratio   | ?     | N/mm2 |
| Isolation         | ?     |       |



Product Specification/ Certificates and Assembly Instruction

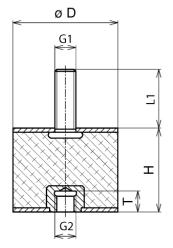
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| L1          | Т         |
| 0.98        | 0.39      |
| Elastomer   | ShoreA    |
|             | 57        |





#### 3. Recommended Compression Load

#### **Compression Information**

| Deflection     | 0.000 |
|----------------|-------|
| Spring Rate    | 378   |
| Maximum Stress | 33.28 |

### **Compression Deflection Information**

0.000 378.2

? Natural Frequency at max. load ?Isolation at

t<sub>a</sub> Compression load

Surface load

Maximum Force

Maximum Deflection

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Stress 0.00

max. force at 15% 0.86

Natural Frequency ? cpm

? Hz

Frequency Ratio ? N/mm2
Calculated Isolation ?

no isolation

Loaded



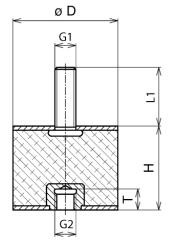
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## 4035B10U25

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| UNC3/8-16   | UNC3/8-16 |
| L1          | T         |
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| Elastomer   | ShoreA    |
|             | 57        |





#### 4. Recommended Shear Load

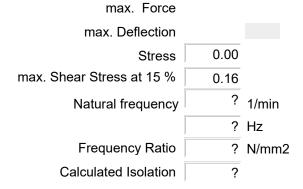
#### **Shear Information**

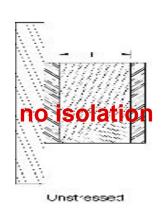
| Deflection  | 0.000 |
|-------------|-------|
| Spring Rate | 70    |
| max. stress | 0.21  |

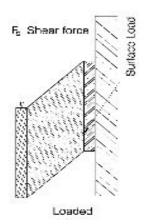
#### **Shear Deflection Information**

0.000

? Natural Frequency by max. load? Isolation by









Product Specification/ Certificates and Assembly Instruction

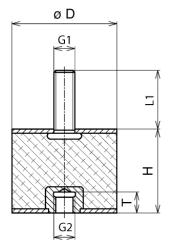
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|             | 57        |





### 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 quality can be provided upon request.

| Dimensions<br>mm |     | 10081300 | nsions<br>ch | Tolerance in mm<br>Class M3-F<br>DIN ISO 3302-1 | Tolerance in Inch<br>Class M3-F<br>DIN ISO 3302-1 | Tolerance in mm<br>Class M3-C<br>DIN ISO 3302-1 | Tolerance in Inch<br>Class M3-C<br>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

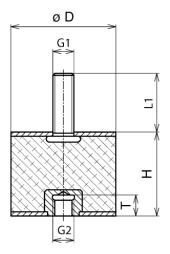
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## 4035B10U25

elasto-B-Mounts 40x35 40x35 B UNC3/8-16/25 Shore A

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| UNC3/8-16   | UNC3/8-16 |
| L1          | T         |
| 0.98        | 0.39      |
| Elastomer   | ShoreA    |
|             | 57        |





### 6. Rubber Selection

|  | F.)                                  |   |   |                           | First                              | PROPERTIES      |                     |                   |                    |                  |                  |                 |                                  |                    |                             |                          |                          |   |   |
|--|--------------------------------------|---|---|---------------------------|------------------------------------|-----------------|---------------------|-------------------|--------------------|------------------|------------------|-----------------|----------------------------------|--------------------|-----------------------------|--------------------------|--------------------------|---|---|
| Hardness Range (ShoreA) Temperature Resistance Range 'C. | Temperature Resistance Range 'C (F°) | Short Term Peak Temperature C* (F*)  Tensile Eloangariotion %  Tensile Eloangariotion %  Below: (Luade Name)  Ludde Name) | Temperature Resistance Range 'C<br>Short Term Peak Temperature C° | 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><br>(-40°- 167°)     | +100°<br>(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°<br>(-22°- 248°)           | +150°<br>(302°)   | <b>27.5</b> (3988)  | 450                       | Chloroprene<br>(Baypren, Neoprene) | CR              | 2                   | 3                 | 2                  | 3                | 2                | 2               | 2                                | 2                  | 3                           | 3                        | 4                        | 4 | 3 |
| 30 - 90  | -40°- 150°<br>(-40°- 302°)           | +180°<br>(356°)   | <b>20</b> (2901)  | 450                       | Ethylene-Propylene -<br>Terpolymer | EPDM            | 3                   | 4                 | 3                  | 3                | 3                | 1               | 6                                | 3                  | 5                           | 3                        | 2                        | 3 | 2 |
| 25 - 95  | -40°- +140°<br>(-40°- 248°)          | +160°<br>(320°)   | 25<br>(3626)  | 500                       | Ntrile Butadine<br>(Perbunan)      | NBR             | 3                   | 4                 | 3                  | 3                | 3                | 5               | 5                                | 3                  | 1                           | 3                        | 3                        | 4 | 3 |
| 35 - 95  | -30°- +110°<br>(-22°- 230°)          | +150°<br>(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°<br>(-40°- 266°)          | +150°<br>(302°)   | 17<br>(2466)  | 800                       | Butyl                              | IIR             | 3                   | 2                 | 2                  | 3                | 5                | 1               | 4                                | 4                  | 6                           | 4                        | 2                        | 2 | 3 |
| 55 - 98  | -30°- +80°<br>(-22°- 176°)           | +100°<br>(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°<br>(-94°- 356°)          | +225°<br>(437°)   | <b>8</b> (1160)   | 250                       | Silicone Rubber                    | SI              | 5                   | 5                 | 5                  | 5                | 2                | 1               | 4                                | 3                  | 5                           | 5                        | 4                        | 1 | 1 |
| 65 - 90  | -30°- +225°<br>(-22°- 437°)          | +350°<br>(662°)   | <b>20</b> (2901)  | 400                       | Fluorocarbon (Viton)               | FPM             | 3                   | 2                 | 5                  | 5                | 4                | 1               | 1                                | 1                  | 1                           | 1                        | -                        | 4 | 1 |

1 = Very Good 2 = Good

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3 = Satisfactory

4 = Adequate

5 = Poor

6 = Inadequate

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



**Product Specification/ Certificates and Assembly Instruction** 

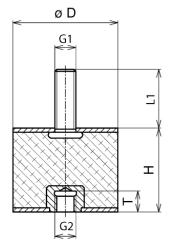
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# 4035B10U25

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| Dimensions: |           |
|-------------|-----------|
| D           | Н         |
| 1.57        | 1.38      |
| G1          | G2        |
| UNC3/8-16   | UNC3/8-16 |
| L1          | T         |
| 0.98        | 0.39      |
| Elastomer   | ShoreA    |
|             | 57        |





### 7. Tightening Torque and Bolt Grades & Class

Tightening Torque per ASTM A193 and A194

| Metric Units: (Metric Thread) |                              |                              |                              |
|-------------------------------|------------------------------|------------------------------|------------------------------|
| 8                             | CLASS 5.6                    | CLASS 8.8                    | CLASS 10.9                   |
| Thread<br>Size &<br>Pitch     | Tightening<br>Torque<br>(Nm) | Tightening<br>Torque<br>(Nm) | Tightening<br>Torque<br>(Nm) |
| M2                            | 0.16                         | 0.37                         | 0.52                         |
| M2.3                          | 0.26                         | 0.6                          | 0.84                         |
| M2.6                          | 0.37                         | 0.86                         | 1.21                         |
| М3                            | 0.59                         | 1.34                         | 1.88                         |
| M3.5                          | 0.9                          | 2.06                         | 2.89                         |
| M4                            | 1.34                         | 3.04                         | 4.31                         |
| M5                            | 2.65                         | 6.03                         | 8.48                         |
| M6                            | 4.51                         | 10.3                         | 14.71                        |
| M7.                           | 7.45                         | 17.16                        | 24.52                        |
| M8                            | 10.79                        | 25.5                         | 35.3                         |
| M10                           | 21.57                        | 50.01                        | 70.61                        |
| M12                           | 38.25                        | 87.28                        | 122.58                       |
| M14                           | 60.8                         | 138.27                       | 194.17                       |
| M16                           | 93.16                        | 210.84                       | 299.1                        |
| M18                           | 127.49                       | 411.88                       | 411.88                       |
| M20                           | 180.44                       | 558.98                       | 578.5                        |
| M22                           | 245.17                       | 558.98                       | 784.54                       |
| M24                           | 308.91                       | 710.99                       | 1000.28                      |
| M27                           | 460.92                       | 1049.32                      | 1480.81                      |
| M30                           | 522.73                       | 1421.97                      | 2010.38                      |

| 55 10.9               |  |
|-----------------------|--|
| tening<br>rque<br>lm) |  |
| .52                   |  |
| .84                   |  |
| .21                   |  |
| .88                   |  |
| .89                   |  |
| .31                   |  |
| .48                   |  |
| .71                   |  |
| .52                   |  |
| 5.3                   |  |
| ).61                  |  |
| 2.58                  |  |
| 4.17                  |  |
| 9.1                   |  |
| 1.88                  |  |
| 8.5                   |  |
| 4.54                  |  |
| 0.28                  |  |
| 0.81                  |  |
| 0.38                  |  |

|                           | GRADE 2                         | GRADE 5                         | GRADE 8                         |
|---------------------------|---------------------------------|---------------------------------|---------------------------------|
| Thread<br>Size &<br>Pitch | Tightening<br>Torque<br>(ft-lb) | Tightening<br>Torque<br>(ft-lb) | Tightening<br>Torque<br>(ft-lb) |
| 6-32                      | 0.86                            | 1.33                            | 1.88                            |
| 8-32                      | 1.58                            | 2.44                            | 3.44                            |
| 10-24                     | 2.29                            | 3.53                            | 499                             |
| 12-24                     | 3.59                            | 5.55                            | 7.84                            |
| 1/4-20                    | 5.47                            | 8.45                            | 11.9                            |
| 5/16-18                   | 11.3                            | 17.4                            | 24.6                            |
| 3/8-16                    | 20                              | 30.9                            | 43.6                            |
| 7/16-14                   | 32                              | 39.4                            | 69.8                            |
| 1/2-13                    | 48.8                            | 75.4                            | 106                             |
| 9/16-12                   | 70.4                            | 109                             | 154                             |
| 5/8-11                    | 97.1                            | 150                             | 212                             |
| 3/4-10                    | 103                             | 366                             | 376                             |
| 7/8-9                     | 167                             | 430                             | 606                             |
| 1-8                       | 250                             | 561                             | 909                             |
| 1-1/8-7                   | 354                             | 794                             | 1288                            |
| 1-1/4-7                   | 500                             | 1120                            | 1817                            |
| 1-3/8-6                   | 655                             | 1469                            | 2382                            |
| 1/2-6                     | 869                             | 1949                            | 3161                            |

|                           | GRADE 2                         | GRADE 5                         | GRADE 8                         |
|---------------------------|---------------------------------|---------------------------------|---------------------------------|
| Thread<br>Size &<br>Pitch | Tightening<br>Torque<br>(ft-lb) | Tightening<br>Torque<br>(ft-lb) | Tightening<br>Torque<br>(ft-lb) |
| 6-40                      | 0.96                            | 1.49                            | 2.1                             |
| 8-36                      | 1.66                            | 2.57                            | 3.63                            |
| 10-32                     | 2.61                            | 4.04                            | 5.7                             |
| 12-28                     | 3.83                            | 5.92                            | 8.36                            |
| 1/4-28                    | 6.26                            | 9.7                             | 13.7                            |
| 5/16-24                   | 12.5                            | 19.3                            | 27.2                            |
| 3/8-24                    | 22.66                           | 35                              | 49.4                            |
| 7/16-20                   | 35.7                            | 55.2                            | 77.9                            |
| 1/2-20                    | 55                              | 84.9                            | 120                             |
| 9/16-18                   | 78.5                            | 121                             | 171                             |
| 5/8-18                    | 110                             | 170                             | 240                             |
| 3/4-16                    | 115                             | 297                             | 420                             |
| 7/8-14                    | 184                             | 473                             | 668                             |
| 1-12                      | 273                             | 613                             | 995                             |
| 1-1/8-12                  | 397                             | 891                             | 1445                            |
| 1-1/4-12                  | 553                             | 1241                            | 2012                            |
| 1-3/8-12                  | 746                             | 1673                            | 2712                            |
| 1-1/2-12                  | 978                             | 2194                            | 3557                            |

Non-Standard



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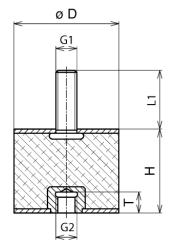
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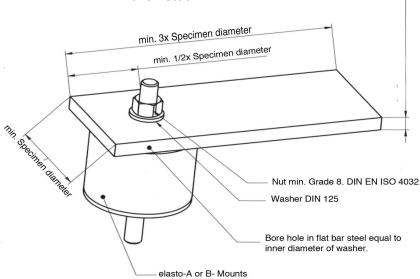




### 8. Torque Threaded Stud Test of elasto-A- and B-Mounts

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





Product Specification/ Certificates and Assembly Instruction

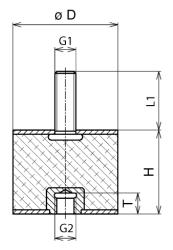
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| L1          | T         |
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#### 9. Certificate of RoHS Compliance

Customer

We confirm that these mounts are RoHS Compliance.

#### 9. Shelf Life Expectancy

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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 -