HIGH-RATIO MOUNT

High-Ratio mounts are lightweight mounts that provide superior vibration performance. They are compact lightweight isolators that are ideally suited for isolating small engines, compressors and rotating machinery in both on and off road applications. They are offered standard in neoprene rubber with a black enamel paint finish and available in other materials and finishes upon request.

Features:

- Compact, lightweight Design
- Fail-safe design when used with snubbing washers
- Efficiently isolates vibration in all directions

Low profile mounts are available in five sizes with load ratings from 40 to 4,560 lbs.

- 2109 Size: Load ratings from 50 to 300 lb
- 2111 Size: Load ratings from 100 to 420 lb
- 2119 Size: Load ratings from 320 to 1020 lb
Solutions for shock, vibration, noise, and sealing challenges

GREENE RUBBER COMPANY

VIB109 HIGH-RATIO MOUNT

PRODUCT SPECIFICATIONS

Operating Temperature: -20 to +200 F
Maximum Transmissibility at Resonance: 10.0
Load Capacity: 50 – 300 lb
Axial-Radial Stiffness Ratio: 4:1
Part Weight: 0.42 lb
Materials:
  Core & Flange: C.R.S, SAE 1010 or equiv.
  black acrylic painted.
  Elastomer: Neoprene

Recommended installation:
  Maximum bolt torque: 45 fl-lb (dry) (Grade 8)

Performance Characteristics

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Nominal Axial Static Load (lbs)</th>
<th>Axial Natural Frequency</th>
<th>Dynamic Axial Spring Rate</th>
<th>Dynamic Radial Spring Rate</th>
<th>Color Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Hz</td>
<td>lb/in</td>
<td>N/mm</td>
<td>lb/in</td>
</tr>
<tr>
<td>VIB2109-1</td>
<td>50</td>
<td></td>
<td>510</td>
<td>90</td>
<td>128</td>
</tr>
<tr>
<td>VIB2109-2</td>
<td>90</td>
<td>10</td>
<td>920</td>
<td>160</td>
<td>228</td>
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<tr>
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<td></td>
<td>1530</td>
<td>268</td>
<td>383</td>
</tr>
<tr>
<td>VIB2109-5</td>
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<td></td>
<td>2190</td>
<td>384</td>
<td>550</td>
</tr>
<tr>
<td>VIB2109-7</td>
<td>300</td>
<td></td>
<td>3060</td>
<td>536</td>
<td>765</td>
</tr>
</tbody>
</table>

*Fn at max rated load and .036 inch DA input
To correct for loads lower than rated load use:

\[ F_n = F_n \sqrt{P_r/P_a} \]

Where:

- \( F_n \): Natural Frequency at actual load (Hz)
- \( F_{nn} \): Nominal Natural Frequency (Hz)
- \( P_r \): Rated load
- \( P_a \): Actual load
Solutions for shock, vibration, noise, and sealing challenges

VIB111 HIGH-RATIO MOUNT

PRODUCT SPECIFICATIONS

Operating Temperature: -20 to +200 F
Maximum Transmissibility at Resonance: 10.0
Load Capacity: 100 – 420 lb
Axial-Radial Stiffness Ratio: 4:1
Part Weight: 0.5 lb
Materials:
  - Core & Flange: C.R.S, SAE 1010 or equiv. black acrylic painted.
  - Elastomer: Neoprene

Recommended installation:
  - Maximum bolt torque: 120 ft-lb (dry) (Grade 8)

Performance Characteristics

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Nominal Axial Static Load (lbs)</th>
<th>Axial Natural Frequency (Hz)</th>
<th>Dynamic Axial Spring Rate (lb/in N/mm)</th>
<th>Dynamic Radial Spring Rate (lb/in N/mm)</th>
<th>Color Code</th>
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<tbody>
<tr>
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<td>1020 180 255 45</td>
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<tr>
<td>VIB2111-4</td>
<td>155</td>
<td>10</td>
<td>1580 277 395 69</td>
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<tr>
<td>VIB2111-6</td>
<td>230</td>
<td>10</td>
<td>2350 410 588 102</td>
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<tr>
<td>VIB2111-8</td>
<td>320</td>
<td>10</td>
<td>3260 570 815 143</td>
<td>Purple</td>
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<td>VIB2111-10</td>
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<td>10</td>
<td>4280 750 1070 187</td>
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*Fn at max rated load and .036 inch DA input
To correct for loads lower than rated load use:
F<sub>n</sub> = F<sub>NN</sub>√P<sub>r</sub>/P<sub>a</sub>
Where:
  - F<sub>n</sub>: Natural Frequency at actual load (Hz)
  - F<sub>NN</sub>: Nominal Natural Frequency (Hz)
  - P<sub>r</sub>: Rated load
  - P<sub>a</sub>: Actual load
**VIB110 BONDED TUBE MOUNT**

**PRODUCT SPECIFICATIONS**

- Operating Temperature: -20 to +200 F
- Maximum Transmissibility at Resonance: 10.0
- Load Capacity: 320 – 1020 lb
- Axial-Radial Stiffness Ratio: 4:1
- Part Weight: 0.75 lb
- Materials:
  - Core & Flange: C.R.S, SAE 1010 or equiv. black acrylic painted.
  - Elastomer: Neoprene

Recommended installation:
- Maximum bolt torque: 120 fl-lb (dry) (Grade 8)

**Performance Characteristics**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Nominal Axial Static Load (lbs)</th>
<th>Axial Natural Frequency (Hz)</th>
<th>Dynamic Axial Spring Rate (lb/in N/mm)</th>
<th>Dynamic Radial Spring Rate (lb/in N/mm)</th>
<th>Color Code</th>
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<tbody>
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<td>1220 210 305 54</td>
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<td>1840 320 460 80</td>
<td>80 460 120 200</td>
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<tr>
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<td>125 715 250 500</td>
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<tr>
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<td>VIB2119-9</td>
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<td>5510 964 1380 240</td>
<td>240 1380 475 950</td>
<td>Grey</td>
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</tbody>
</table>

*Fn at max rated load and .036 inch DA input. To correct for loads lower than rated load use:

\[ F_n = F_{nn} \times \sqrt{P_r/P_a} \]

Where:

- \( F_n \): Natural Frequency at actual load (Hz)
- \( F_{nn} \): Nominal Natural Frequency (Hz)
- \( P_r \): Rated load
- \( P_a \): Actual load
Solutions for shock, vibration, noise, and sealing challenges

SNUBBING WASHERS

PRODUCT SPECIFICATIONS

Material: Steel per ASTM A1008/A1011
Finish: Zinc plated per ASTM B633, Type II, Class FE/ZN 12

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B DIA</th>
<th>C DIA</th>
<th>PART NO.</th>
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<td>W10046-3</td>
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<td>VIB2119</td>
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