VENTILATED BRAKE DISCS | ¾” x 2” SERIES

KEY FEATURES

• Ideal for tensioning & controlled braking applications.
• Intended to be used with the 5019 caliper brake.
• Five sizes available.
• Supplied standard with rough stock bore. Custom mounting details available.
• Available in bronze.
• Available with balancing.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>DISC PART NO.</th>
<th>HEAT SINKING CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(J/K)</td>
</tr>
<tr>
<td>0.75-2-09</td>
<td>1412</td>
</tr>
<tr>
<td>0.75-2-12</td>
<td>1928</td>
</tr>
<tr>
<td>0.75-2-15</td>
<td>2645</td>
</tr>
<tr>
<td>0.75-2-18</td>
<td>3003</td>
</tr>
<tr>
<td>0.75-2-20</td>
<td>3407</td>
</tr>
</tbody>
</table>

Note: Values in this chart are based on test data and empirical analysis. Appropriate derating factors must be included for cases of obstructed air flow such as covers and guards, as well as appropriate margins of safety to account for other uncertainties.

VENTILATED DISC PERFORMANCE

3/4” x 2” Series

Cooling Power (hp) vs. Disc Speed (rpm)

Chart notes:
1. Left axis indicates cooling power in kilowatts at a disc temperature of 315°C and ambient of 40°C
2. Right axis indicates cooling power in horse power at a disc temperature of 600°F and ambient of 100°F
3. Dashed line indicates maximum permissible disc speed
4. Dotted line indicates maximum recommended speed without balancing
### SPECIFICATIONS

#### Ventilated Disc Model Code Key

- **Added options**
  - B = balanced

- **Mounting detail**
  - (blank) = standard (RSB)
  - 10G = AGMA size 1 gear coupling
  - 15G = AGMA size 1-1/2 gear coupling
  - 20G = AGMA size 2 gear coupling
  - XX = custom mounting detail

- **Material code**
  - (blank) = standard (D.I.)
  - B = bronze

- **Disc diameter**
  - 09 = 9" OD
  - 12 = 12" OD
  - 15 = 15" OD
  - 18 = 18" OD
  - 20 = 20" OD

#### Table

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>OD in [mm]</th>
<th>DIA 'B' in [mm]</th>
<th>RSB in [mm]</th>
<th>DIA 'D' in [mm]</th>
<th>MAX SPEED</th>
<th>INERTIA lbs-ft² [kg-m²]</th>
<th>WEIGHT lbs [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.75-2-09</td>
<td>9.10 [231]</td>
<td>4.3 [109]</td>
<td>2.00 [50.8]</td>
<td>3.75 [95.3]</td>
<td>6150 rpm</td>
<td>0.6 [0.02]</td>
<td>8.1 [3.7]</td>
</tr>
<tr>
<td>0.75-2-12</td>
<td>12.10 [307]</td>
<td>7.3 [185]</td>
<td>2.00 [50.8]</td>
<td>5.00 [127.0]</td>
<td>4550 rpm</td>
<td>1.8 [0.08]</td>
<td>13.5 [6.1]</td>
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<tr>
<td>0.75-2-15</td>
<td>15.10 [384]</td>
<td>10.4 [364]</td>
<td>2.00 [50.8]</td>
<td>6.00 [152.4]</td>
<td>3600 rpm</td>
<td>4.4 [0.18]</td>
<td>21.0 [9.5]</td>
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<tr>
<td>0.75-2-18</td>
<td>18.19 [462]</td>
<td>13.5 [343]</td>
<td>2.00 [50.8]</td>
<td>7.00 [177.8]</td>
<td>3000 rpm</td>
<td>8.5 [0.36]</td>
<td>28.8 [13.1]</td>
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<tr>
<td>0.75-2-20</td>
<td>20.10 [511]</td>
<td>15.5 [394]</td>
<td>2.06 [52.3]</td>
<td>8.00 [203.2]</td>
<td>2680 rpm</td>
<td>12.8 [0.54]</td>
<td>35.7 [16.2]</td>
</tr>
</tbody>
</table>

Maximum Temperature: 700°F [371°C]

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**Kobelt founder conducting dynamometer testing.**
VENTILATED BRAKE DISCS

1¼” x 2½”
SERIES

KEY FEATURES

- Ideal for tensioning & controlled braking applications.
- Intended for use with the 5020 caliper brake.
- Seven sizes available.
- Supplied standard with rough stock bore. Custom mounting details available.
- Available in bronze.
- Available with balancing.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>DISC PART NO.</th>
<th>HEAT SINKING CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(J/K)</td>
</tr>
<tr>
<td>1.25-2.5-12</td>
<td>4191</td>
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<td>1.25-2.5-15</td>
<td>5043</td>
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<tr>
<td>1.25-2.5-18</td>
<td>6522</td>
</tr>
<tr>
<td>1.25-2.5-21</td>
<td>7957</td>
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<tr>
<td>1.25-2.5-24</td>
<td>8540</td>
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<tr>
<td>1.25-2.5-27</td>
<td>8921</td>
</tr>
<tr>
<td>1.25-2.5-30</td>
<td>10893</td>
</tr>
</tbody>
</table>

Note: Values in this chart are based on test data and empirical analysis. Appropriate derating factors must be included for cases of obstructed air flow such as covers and guards, as well as appropriate margins of safety to account for other uncertainties.
### SPECIFICATIONS

**PART NO.** | **OD in [mm]** | **DIA ‘B’ in [mm]** | **RSB in [mm]** | **DIA ‘D’ in [mm]** | **MAX SPEED** | **INERTIA lbs-ft² [kg-m²]** | **WEIGHT lbs [kg]**
--- | --- | --- | --- | --- | --- | --- | ---
1.25-2.5-12 | 12.10 [307] | 4.5 [114] | 2.00 [50.8] | 3.75 [95.3] | 4600 rpm | 3.1 [.13] | 22.3 [10.1]
1.25-2.5-15 | 15.15 [385] | 7.5 [191] | 2.50 [63.5] | 5.00 [127.0] | 3650 rpm | 6.7 [.28] | 31.4 [14.2]
1.25-2.5-18 | 18.25 [464] | 11.0 [279] | 3.00 [76.2] | 6.00 [152.4] | 3000 rpm | 14 [.59] | 45.5 [20.7]

**Maximum Temperature:** 700°F [371°C]

**Ventilated Disc Model Code Key**

- **Added options**
  - B = balanced

- **Mounting detail**
  - (blank) = standard (RSB)
  - 10G = AGMA size 1 gear coupling
  - 15G = AGMA size 1-1/2 gear coupling
  - 20G = AGMA size 2 gear coupling
  - 25G = AGMA size 2-1/2 gear coupling
  - 30G = AGMA size 3 gear coupling
  - XX = custom mounting detail

- **Material code**
  - (blank) = standard (D.I.)
  - B = bronze

- **Disc diameter**
  - 12 = 12” OD
  - 15 = 15” OD
  - 18 = 18” OD
  - 21 = 21” OD
  - 24 = 24” OD
  - 27 = 27” OD
  - 30 = 30” OD

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