ANTI-VIBRATION

Rotary Dampers - Continuous Rotation
Bi-Directional: 0.1 - 0.4Ncm

Product information updated April 2016 and subject to change. Please contact Sales for the latest prices and availability.

Material
Body: Polycarbonate Plastic.
Gear: Polyacetal Plastic.
Fluid: High viscosity silicone passed through an orifice or groove.

Performance
At a maximum rotational speed of 50 revs/min and a maximum cycle rate of 10/min, the rotary dampers still have more than 80% of their damping torque after 50,000 cycles.
Operating Temperature: 0°C to +50°C.

Other Info.
Supplied as standard with removable involute spur gear.
Module: 0.6 (Matching 250mm plastic racks available - P.O.A.)
Pressure Angle: 20° No. of Teeth: 10 P.C.D.: 6mm.
Constant damping force in both clockwise and anti-clockwise direction.
Damping torque figures at a nominal 20 rpm, 23°C.

Features
Maintenance-free and self-contained.
Safe motion
Design-oriented
Economical construction
Broad range of application
High energy absorption with small modules
Higher overall quality for controlled motion with uniform, smooth movement
Safe opening and closing
Protection of delicate components

Damping torque varies with temperature and speed as shown in the performance graphs.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Damping Torque Ncm</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRTE2100G1</td>
<td>0.1 ± 0.05</td>
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<td>FRTE2200G1</td>
<td>0.2 ± 0.07</td>
<td>£7.10</td>
</tr>
<tr>
<td>FRTE2300G1</td>
<td>0.3 ± 0.08</td>
<td>£7.10</td>
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<tr>
<td>FRTE2400G1</td>
<td>0.4 ± 0.10</td>
<td>£7.10</td>
</tr>
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</table>

Discounts: 10+ -5%  25+ -10%  50+ -15%  100+ -20%
**ANTI-VIBRATION**

Rotary Dampers - Continuous Rotation

Bi-Directional: 0.2 - 1Ncm

---

**Material**

- **Body:** Polycarbonate Plastic.
- **Gear:** Polyacetal Plastic.
- **Fluid:** High viscosity silicone passed through an orifice or groove.

**Performance**

At a maximum rotational speed of 50 revs/min and a maximum cycle rate of 10/min, the rotary dampers still have more than 80% of their damping torque after 50,000 cycles.

**Operating Temperature:** 0°C to +50°C.

**Other Info.**

- Supplied as standard with removable involute spur gear.
- **Module:** 0.5 (Matching 250mm plastic racks available - P.O.A.)
- **Pressure Angle:** 20°
- **No. of Teeth:** 14
- **P.C.D.:** 7mm.

Constant damping force in both clockwise and anti-clockwise direction.

Damping torque figures at a nominal 20 rpm, 23°C.

---

**Damping Torque Figures**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Damping Torque Ncm</th>
<th>Price Each £</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRTG2200G1</td>
<td>0.20 ±0.07</td>
<td>7.10</td>
</tr>
<tr>
<td>FRTG2300G1</td>
<td>0.30 ±0.08</td>
<td>7.10</td>
</tr>
<tr>
<td>FRTG2450G1</td>
<td>0.45 ±0.10</td>
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<tr>
<td>FRTG2600G1</td>
<td>0.60 ±0.12</td>
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<tr>
<td>FRTG2101G1</td>
<td>1.00 ±0.20</td>
<td>7.10</td>
</tr>
</tbody>
</table>

**Discounts:**

- 10+ -5%
- 25+ -10%
- 50+ -15%
- 100+ -20%

---

**Features**

- Maintenance-free and self-contained.
- Safe motion
- Design-oriented
- Economical construction
- Broad range of application
- High energy absorption with small modules
- Higher overall quality for controlled motion with uniform, smooth movement
- Safe opening and closing
- Protection of delicate components

---

Product information updated April 2016 and subject to change. Please contact Sales for the latest prices and availability.
Product information updated April 2016 and subject to change. Please contact Sales for the latest prices and availability.

**ANTI-VIBRATION**

**Rotary Dampers - Continuous Rotation**

**Bi-Directional & Uni-Directional : 2 - 3Ncm**

---

**Material**

**Body:** Polycarbonate Plastic.

**Gear:** Polyacetal Plastic.

**Fluid:** High viscosity silicone passed through an orifice or groove.

---

**Performance**

At a maximum rotational speed of 50 revs/min and a maximum cycle rate of 10/min, the rotary dampers still have more than 80% of their damping torque after 50,000 cycles.

**Operating Temperature:** 0°C to +50°C.

---

**Other Info.**

Supplied as standard with removable involute spur gear.

**Module:** 0.8 (Matching 170mm (flexible) and 250mm (rigid) plastic racks available - P.O.A.)

**Pressure Angle:** 20°

**No. of Teeth:** 11

**P.C.D.:** 8.8mm.

Constant damping force in both clockwise and anti-clockwise direction.

Damping torque figures at a nominal 20 rpm, 23°C.

---

**Features**

Maintenance-free and self-contained.

Safe motion

Design-oriented

Economical construction

Broad range of application

High energy absorption with small modules

Higher overall quality for controlled motion with uniform, smooth movement

Safe opening and closing

Protection of delicate components

---

**Discounts:**

10+ -5% | 25+ -10% | 50+ -15% | 100+ -20%

---

<table>
<thead>
<tr>
<th>Bi-directional Damping</th>
<th>Part Number</th>
<th>LH Damping (Anti-clockwise)</th>
<th>Damping Torque Ncm</th>
<th>Price Each</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>FRNC2R301G1</td>
<td>3 ±0.8</td>
<td>£16.37</td>
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</tbody>
</table>

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Damping torque varies with temperature and speed as shown in the performance graphs.

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ANTI-VIBRATION

Rotary Dampers - Continuous Rotation
Bi-Directional & Uni-Directional : 5 - 15Ncm

Damping torque varies with temperature and speed as shown in the performance graphs.

<table>
<thead>
<tr>
<th>Bi-directional Damping</th>
<th>Part Number</th>
<th>RH Damping (Clockwise)</th>
<th>LH Damping (Anti-clockwise)</th>
<th>Damping Torque Ncm</th>
<th>Price Each 1 - 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRTD2501G1</td>
<td>FRND2R501G1</td>
<td>FRNDL501G1</td>
<td>FRNDL501G1</td>
<td>5 ±1</td>
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<tr>
<td>FRTD2102G1</td>
<td>FRND2R102G1</td>
<td>FRNDL102G1</td>
<td>FRNDL102G1</td>
<td>10 ±2</td>
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</tr>
<tr>
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<td>FRND2R152G1</td>
<td>FRNDL152G1</td>
<td>FRNDL152G1</td>
<td>15 ±3</td>
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</tbody>
</table>

Discounts: 10+ -5% | 25+ -10% | 50+ -15% | 100+ -20%

Material
Body: Polycarbonate Plastic.
Gear: Polyacetal Plastic.
Fluid: High viscosity silicone passed through an orifice or groove.

Performance
At a maximum rotational speed of 50 revs/min and a maximum cycle rate of 10/min, the rotary dampers still have more than 80% of their damping torque after 50,000 cycles.
Operating Temperature: 0°C to +50°C. Mass: 0.01Kg

Other Info.
Supplied as standard with removable involute spur gear.
Module: 1 (Matching 250mm and 500mm plastic racks available - P.O.A.)
Pressure Angle: 20° No. of Teeth: 12 P.C.D.: 12mm.
Constant damping force in both clockwise and anti-clockwise direction.
Damping torque figures at a nominal 20 rpm, 23°C.

Features
Maintenance-free and self-contained.
Safe motion
Design-oriented
Economical construction
Broad range of application
High energy absorption with small modules
Higher overall quality for controlled motion with uniform, smooth movement
Safe opening and closing
Protection of delicate components

Material
Price

+44 (0)1246 455500 sales@ondrives.com
+44 (0)1246 455522 www.ondrives.com

Product information updated April 2016 and subject to change. Please contact Sales for the latest prices and availability.
FRTK
FRNK

Anti-Vibration

Rotary Dampers - Continuous Rotation
Bi-Directional & Uni-Directional : 50 - 400Ncm

Material
Material: Polycarbonate Plastic with Steel shaft.

Performance
At a maximum rotational speed of 50 revs/min and a maximum cycle rate of 10/min, the rotary dampers still have more than 80% of their damping torque after 50,000 cycles.

Operating Temperature: 0°C to +50°C.

Mass: 0.116 kg (max).

Features
Maintenance-free and self-contained.
Safe motion
Design-oriented
Economical construction
Broad range of application
High energy absorption with small modules
Higher overall quality for controlled motion with uniform, smooth movement
Safe opening and closing
Protection of delicate components

Damping torque varies with temperature and speed as shown in the performance graphs.

Discounts: 10+ -5%  25+ -10%  50+ -15%  100+ -20%

<table>
<thead>
<tr>
<th>Bi-directional Damping</th>
<th>Part Number</th>
<th>LH Damping (Anti-clockwise)</th>
<th>RH Damping (Clockwise)</th>
<th>Damping Torque Ncm</th>
<th>Price Each 1 - 9</th>
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</table>

Product information updated April 2016 and subject to change. Please contact Sales for the latest prices and availability.
Product information updated April 2016 and subject to change. Please contact Sales for the latest prices and availability.

**Continuous Rotation Rotary Dampers**

In rotary dampers with continuous rotation, a fluid damping is produced by the shearing of thin silicon layers between the surfaces of a rotor and a stator. The damping moment is determined by the viscosity of the fluid and the dimensioning of the throttle gap. The specified damping moments refer to a speed of 20 rpm and an ambient temperature of 23°C.

**Partial Rotation Angle Rotary Dampers**

In rotary dampers with partial rotation angle, the fluid is forced from one chamber into the other by the movement of a rotor. The damping moment is determined by the viscosity of the fluid and the dimensioning of the throttle gap or throttle orifices. During the relevant return movement, a certain reduced reverse rotation damping moment is created, depending on the size. The damping moments specified in the catalogue always refer to the maximum moment calculated from the application to which the dampers can be stressed.

**Partial Rotation Angle Rotary Dampers - Adjustable**

In adjustable rotary dampers with partial rotation angle, the fluid is forced from one chamber into the other by adjustable orifices. The damping moment is determined by the viscosity of the fluid and the dimensioning of the orifice sizes. During the return movement of unidirectional dampers a small reverse damping moment is created, depending on the size. The damping moments specified in the catalogue always refer to the maximum moment calculated from the application to which the dampers can be stressed.

Our range of rotary dampers are maintenance-free and ready to install.
The damping direction of the rotary dampers with continuous rotation can be clockwise, counter clockwise, or in both directions.
The outer body is either of metal or plastic.
Rotary dampers with continuous rotation ensure the controlled opening and closing of small hoods, compartments and drawers. They can damp directly at the rotation point or linearly by means of a rack and pinion, in order to produce a smooth and even movement. Sensitive components remain unstressed.
The harmonious gentle movement process enhances the quality and value of the product.
Plastic racks (modules 0.5 to 1.0) are available for the rotary dampers with pinions.
Particularly suitable for flaps, closing hoods, CD-player drawers, vehicle glove compartments, the furniture industry, etc.
In general, rotary dampers are tested for a service life of 50,000 cycles.
Even after this time, the dampers still produce over approx. 80% of their original damping moment.
The service life may be significantly higher or lower, depending on the application. Much higher service lives have however been achieved in practice.
ANTI-VIBRATION

Rotary Dampers - Continuous Rotation

Standard Type: 0.1 - 3Nm

Product information updated April 2016 and subject to change. Please contact Sales for the latest prices and availability.

Discounts:
10+ -5% | 25+ -10% | 50+ -15% | 100+ -20%

Material
Material: Polycarbonate Plastic.

Performance
At a maximum rotational speed of 50 revs/min and a maximum cycle rate of 10/min, the rotary dampers still have more than 80% of their damping torque after 50,000 cycles.

Maximum Rotational Speed: 30 rpm.
Maximum Cycle Rate: 13 cycles per minute.
Operating Temperature: -10°C to +60°C.

Other Info.
Recommended Shaft Tolerance: ±0.00/-0.03

Features
Maintenance-free and self-contained.
Safe motion
Design-oriented
Economical construction
Broad range of application
High energy absorption with small modules
Higher overall quality for controlled motion with uniform, smooth movement
Safe opening and closing
Protection of delicate components

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Damping Torque Nm</th>
<th>ØA</th>
<th>ØB</th>
<th>ØH</th>
<th>Thickness t</th>
<th>Mass Kg</th>
<th>Price Each £</th>
</tr>
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<td>FFD25SSR102</td>
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<tr>
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<td>24</td>
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<td>4</td>
<td>22</td>
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</tbody>
</table>
## Rotary Dampers - Continuous Rotation

**FFD**

### FLANGE TYPE: 0.1 - 3Nm

**Part Number**
- **TYPE S**
  - FFDSFSR102: FFDSFSL102
  - FFDSFSR502: FFDSFSL502
  - FFDSFSR103: FFDSFSL103
  - FFDSFSR102: FFDSFSL102
  - FFDSFSR502: FFDSFSL502
  - FFDSFSR103: FFDSFSL103
  - FFDSFSR102: FFDSFSL102
  - FFDSFSR502: FFDSFSL502
  - FFDSFSR103: FFDSFSL103
  - FFDSFSR153: FFDSFSL153

### Clockwise (Right) Damping
- **DD**

### Anti-clockwise (Left) Damping
- **CC**

### Damping Torque (Nm)
- **0.1**
- **0.5**
- **1.0**
- **0.5**
- **1.0**
- **1.0**
- **0.5**
- **1.0**
- **1.0**
- **1.5**
- **1.5**
- **1.5**
- **2.0**
- **2.0**
- **2.0**
- **2.5**
- **2.5**
- **3.0**

### ØA ØB C D E F MAss Kg Price Each
- **25**
- **6**
- **13**
- **3**
- **42**
- **34**
- **25**
- **6**
- **13**
- **3**
- **42**
- **34**
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- **38**
- **30**
- **10**
- **13**
- **3**
- **46**
- **38**

### Discounts: 10+ -5%  25+ -10%  50+ -15%  100+ -20%
- **£43.50**
- **£43.50**
- **£43.50**
- **£43.50**

### Material
**Material:** Polycarbonate Plastic.

### Performance
- **At a maximum rotational speed of 50 revs/min and a maximum cycle rate of 10/min, the rotary dampers still have more than 80% of their damping torque after 50,000 cycles.**
- **Maximum Rotational Speed:** 30 rpm.
- **Maximum Cycle Rate:** 13 cycles per minute.
- **Operating Temperature:** -10°C to +60°C.

### Other Info.
**Recommended Shaft Tolerance:** +0.00/-0.03.

**Type W supplied with bearing on both sides offering higher damping torque.**

## Features
- Maintenance-free and self-contained.
- Safe motion
- Design-oriented
- Economical construction
- Broad range of application
- High energy absorption with small modules
- Higher overall quality for controlled motion with uniform, smooth movement
- Safe opening and closing
- Protection of delicate components

---

**Product information updated April 2016 and subject to change. Please contact Sales for the latest prices and availability.**

**+44 (0)1246 455500**
**+44 (0)1246 455522**

**ondrives**
**sales@ondrives.com**
**www.ondrives.com**
Material
Body: Steel.
Output Shaft Sleeve: Nylon.

Performance
At a maximum rotational speed of 50 revs/min and a maximum cycle rate of 10/min, the rotary dampers still have more than 80% of their damping torque after 50,000 cycles.
Maximum Rotational Speed: 50 rpm.
Temperature Range: -10°C to +50°C.
Maximum Cycle Rate: 12 cycles per minute.
Mass: 0.11 kg (max).

Other Info.
There is no support for the output shaft within the damper structure. External support must be provided for the shaft.

Features
Maintenance-free and self-contained.
Safe motion
Design-oriented
Economical construction
Broad range of application
High energy absorption with small modules
Higher overall quality for controlled motion with uniform, smooth movement
Safe opening and closing
Protection of delicate components

Discounts:
- 10+ -5%
- 25+ -10%
- 50+ -15%
- 100+ -20%

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Damping Torque Nm</th>
<th>ØD</th>
<th>ØE</th>
<th>ØF</th>
<th>ØV</th>
<th>G</th>
<th>H</th>
<th>R</th>
<th>V</th>
<th>Mass Kg</th>
<th>Price Each 1 - 9</th>
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<tbody>
<tr>
<td>FDT-47</td>
<td>2.0 (at 20 rpm, 23°C)</td>
<td>65</td>
<td>56</td>
<td>8.0</td>
<td>4.5</td>
<td>47</td>
<td>42.8</td>
<td>1.6</td>
<td>10.3</td>
<td>4.5</td>
<td>10</td>
</tr>
<tr>
<td>FDT-57</td>
<td>4.7 (at 20 rpm, 23°C)</td>
<td>79</td>
<td>68</td>
<td>10.0</td>
<td>5.5</td>
<td>57</td>
<td>52.4</td>
<td>1.6</td>
<td>11.2</td>
<td>5.5</td>
<td>13</td>
</tr>
<tr>
<td>FDT-63</td>
<td>6.7 (at 20 rpm, 23°C)</td>
<td>89</td>
<td>76</td>
<td>12.5</td>
<td>6.5</td>
<td>63</td>
<td>58.6</td>
<td>1.6</td>
<td>11.3</td>
<td>6.5</td>
<td>17</td>
</tr>
<tr>
<td>FDT-70</td>
<td>8.7 (at 20 rpm, 23°C)</td>
<td>95</td>
<td>82</td>
<td>12.5</td>
<td>6.5</td>
<td>70</td>
<td>65.4</td>
<td>1.6</td>
<td>11.3</td>
<td>6.5</td>
<td>17</td>
</tr>
</tbody>
</table>

* (at 20 rpm, 23°C). Damping in both directions of rotation.
Material
Body: Steel.
Output Shaft Sleeve: Nylon.

Performance
At a maximum rotational speed of 50 revs/min and a maximum cycle rate of 10/min, the rotary dampers still have more than 80% of their damping torque after 50,000 cycles.
Maximum Rotational Speed: 50 rpm.
Maximum Cycle Rate: 10 cycles per minute.
Hardness: HRC55. Surface Smoothness: Rz < 1µm.
Temperature Range: -10°C to +50°C.
Mass: 0.12kg (max.).

Other Info.
There is no support for the output shaft within the damper structure. External support must be provided for the shaft.
Recommended Shaft Details: FDN-47 Ø6.5 ±0.3, FDN-57 to FDN-70 Ø10 ±0.03.

Features
Maintenance-free and self-contained.
Safe motion
Design-oriented
Economical construction
Broad range of application
High energy absorption with small modules
Higher overall quality for controlled motion with uniform, smooth movement
Safe opening and closing
Protection of delicate components

Discounts: 10+ -5% | 25+ -10% | 50+ -15% | 100+ -20%
Material
Polycarbonate plastic.

Performance
At a maximum rotational speed of 50 revs/min and a maximum cycle rate of 10/min, the rotary dampers still have more than 80% of their damping torque after 50,000 cycles.

Temperature Range: -5°C to +50°C.

Maximum Rotational Angle: 115°.

Mass: 0.01 kg.

Other Info.
The shaft colour indicates damping direction. Not to be used as a final end stop. External mechanical stops to be fitted at each end of travel.

Features
Maintenance-free and self-contained.
Safe motion
Design-oriented
Economical construction
Broad range of application
High energy absorption with small modules
Higher overall quality for controlled motion with uniform, smooth movement
Safe opening and closing
Protection of delicate components

<table>
<thead>
<tr>
<th>Part Number</th>
<th>RH Damping (Clockwise)</th>
<th>LH Damping (Anti-clockwise)</th>
<th>Damping Torque Ncm</th>
<th>Return Damping Torque Ncm</th>
<th>Price Each (1-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FYN-P1-R103</td>
<td>FYN-P1-L103</td>
<td>100</td>
<td>30</td>
<td>£15.99</td>
<td></td>
</tr>
<tr>
<td>FYN-P1-R153</td>
<td>FYN-P1-L153</td>
<td>150</td>
<td>50</td>
<td>£15.99</td>
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</tr>
<tr>
<td>FYN-P1-R183</td>
<td>FYN-P1-L183</td>
<td>180</td>
<td>80</td>
<td>£15.99</td>
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</tr>
</tbody>
</table>

Discounts: 10+ -5% | 25+ -10% | 50+ -15% | 100+ -20%
ANTI-VIBRATION

Rotary Dampers - Partial Rotation Angle
100 - 300Ncm

Material
Poly carbonate plastic.

Performance
At a maximum rotational speed of 50 revs/min and a maximum cycle rate of 10/min, the rotary dampers still have more than 80% of their damping torque after 50,000 cycles.
Temperature Range: -5°C to +50°C.
Maximum Rotational Angle: 110°.
Mass: 0.01kg.

Other Info.
The shaft colour indicates damping direction.
Not to be used as a final end stop.
External mechanical stops to be fitted at each end of travel.

Discounts: 10+ -5% | 25+ -10% | 50+ -15% | 100+ -20%

<table>
<thead>
<tr>
<th>Part Number</th>
<th>RH Damping (Clockwise)</th>
<th>LH Damping (Anti-clockwise)</th>
<th>Damping Torque Ncm</th>
<th>Return Damping Torque Ncm</th>
<th>Price Each 1 - 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>FYN-N1-R103</td>
<td>FYN-N1-L103</td>
<td>100</td>
<td>20</td>
<td>£20.57</td>
<td></td>
</tr>
<tr>
<td>FYN-N1-R203</td>
<td>FYN-N1-L203</td>
<td>200</td>
<td>40</td>
<td>£20.57</td>
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<tr>
<td>FYN-N1-R253</td>
<td>FYN-N1-L253</td>
<td>250</td>
<td>40</td>
<td>£20.57</td>
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</tr>
<tr>
<td>FYN-N1-R303</td>
<td>FYN-N1-L303</td>
<td>300</td>
<td>80</td>
<td>£20.57</td>
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</tr>
</tbody>
</table>

Features
Maintenance-free and self-contained.
Safe motion
Design-oriented
Economical construction
Broad range of application
High energy absorption with small modules
Higher overall quality for controlled motion with uniform, smooth movement
Safe opening and closing
Protection of delicate components

Product information updated April 2016 and subject to change. Please contact Sales for the latest prices and availability.
### Rotary Dampers - Partial Rotation Angle

**FYN-U1**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Damping Torque Ncm</th>
<th>Return Damping Torque Ncm</th>
<th>Price Each 1-9</th>
</tr>
</thead>
<tbody>
<tr>
<td>FYN-U1-R203</td>
<td>200</td>
<td>40</td>
<td>£25.16</td>
</tr>
<tr>
<td>FYN-U1-R253</td>
<td>250</td>
<td>40</td>
<td>£25.16</td>
</tr>
<tr>
<td>FYN-U1-R303</td>
<td>300</td>
<td>80</td>
<td>£25.16</td>
</tr>
</tbody>
</table>

**Material**
- Diecast Zinc.

**Performance**
- At a maximum rotational speed of 50 revs/min and a maximum cycle rate of 10/min, the rotary dampers still have more than 80% of their damping torque after 50,000 cycles.
- Temperature Range: -5°C to +50°C.
- Maximum Rotational Angle: 115°.
- Weight: 0.04kg.

**Other Info.**
- Not to be used as a final end stop.
- External mechanical stops to be fitted at each end of travel.

**Features**
- Maintenance-free and self-contained.
- Safe motion
- Design-oriented
- Economical construction
- Broad range of application
- High energy absorption with small modules
- Higher overall quality for controlled motion with uniform, smooth movement
- Safe opening and closing
- Protection of delicate components

**Discounts:**
- 10+ -5%
- 25+ -10%
- 50+ -15%
- 100+ -20%
Material
Black Polycarbonate.

Performance
Temperature Range: -5°C to +50°C.
Mass: 0.035kg.
Maximum Rotational Angle: 108°.
Maximum Rotational Speed: 50 revs/min and a maximum of 10 cycles/min (12 cycles/min with the FDT/FDN types) the rotary dampers still provide more than 80% of their damping torque after a working life of 50,000 cycles.

Other Info.
The FYN-K1 is a vane operated damper giving high damping torque for a specific rotational angle. Not to be used as a final end stop. External mechanical stops to be fitted at each end of travel.

Features
Maintenance-free and self-contained.
Safe motion
Design-oriented
Economical construction
Broad range of application
High energy absorption with small modules
Higher overall quality for controlled motion with uniform, smooth movement
Safe opening and closing
Protection of delicate components

Discounts: 10+ -5%  25+ -10%  50+ -15%  100+ -20%

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Clockwise (Right) Damping</th>
<th>Anti-clockwise (Left) Damping</th>
<th>Damping Torque Ncm</th>
<th>Return Damping Torque Ncm</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>FYN-K1-R</td>
<td>FYN-K1-L</td>
<td>400</td>
<td>100</td>
<td>£55.72</td>
<td></td>
</tr>
</tbody>
</table>

Product information updated April 2016 and subject to change. Please contact Sales for the latest prices and availability.
**ANTI-VIBRATION**

**FYT-H1**

Rotary Dampers - Adjustable

Adjustable: 2 - 10Nm

---

**Material**

- **Body:** Diecast Zinc.
- **Shaft:** Steel.

**Performance**

At a maximum rotational speed of 50 revs/min and a maximum cycle rate of 10/min, the rotary dampers still have more than 80% of their damping torque after 50,000 cycles.

- **Operating Temperature:** -5°C to +50°C.
- **Maximum Rotational Angle:** 105°.
- **Mass:** 0.24Kg.

**Other Info.**

- Keyed output shaft shown in mid-travel position on diagram.
- A play of 5° can occur at the beginning of the movement.
- Not to be used as a final end stop. External mechanical stops to be fitted at each end of travel.

---

**Adjustable Damping Torque**

<table>
<thead>
<tr>
<th>Bi-directional Damping</th>
<th>Part Number</th>
<th>LH Damping (Anti-clockwise)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FYT-H1</td>
<td>FYT-H1-R</td>
<td>FYT-H1-L</td>
</tr>
</tbody>
</table>

- **Adjustable Damping Torque Nm:** 2 - 10
- **Return Damping Torque Nm:** 0.5
- **Maximum Side Load N:** 50
- **Price Each:** £137.66

**Discounts:**

- 10+ -5%
- 25+ -10%
- 50+ -15%
- 100+ -20%

**Features**

- Maintenance-free and self-contained.
- Safe motion
- Design-oriented
- Economical construction
- Broad range of application
- High energy absorption with small modules
- Higher overall quality for controlled motion with uniform, smooth movement
- Safe opening and closing
- Protection of delicate components

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*Product information updated April 2016 and subject to change. Please contact Sales for the latest prices and availability.*
## Rotary Dampers - Adjustable

Adjustable: 4 - 40Nm

<table>
<thead>
<tr>
<th>Bi-directional Damping</th>
<th>Part Number</th>
<th>LH Damping (Anticlockwise)</th>
<th>Adjustable Damping Torque Nm</th>
<th>Return Damping Torque Nm</th>
<th>Maximum Side Load N</th>
<th>Price Each £</th>
<th>Discounts:</th>
</tr>
</thead>
<tbody>
<tr>
<td>FYT-LA3</td>
<td>FYN-LA3-R</td>
<td>FYN-LA3-L</td>
<td>4 - 40</td>
<td>4</td>
<td>200</td>
<td>647.88</td>
<td>10+ -5%</td>
</tr>
</tbody>
</table>

### Material

**Body:** Diecast Zinc.

**Shaft:** Steel.

### Performance

At a maximum rotational speed of 50 revs/min and a maximum cycle rate of 10/min, the rotary dampers still have more than 80% of their damping torque after 50,000 cycles.

**Operating Temperature:** -5°C to +50°C.

**Maximum Rotational Angle:** 210°.

**Mass:** 1.75kg.

### Other Info.

Keyed output shaft shown in mid-travel position.

A play of 5° can occur at the beginning of the movement.

Not to be used as a final end stop. External mechanical stops to be fitted at each end of travel.

### Features

- Maintenance-free and self-contained.
- Safe motion
- Design-oriented
- Economical construction
- Broad range of application
- High energy absorption with small modules
- Higher overall quality for controlled motion with uniform, smooth movement
- Safe opening and closing
- Protection of delicate components

Product information updated April 2016 and subject to change. Please contact Sales for the latest prices and availability.