**TD112 SERIES**

**FEATURES**
- RoHS compliance
- TD112 series is stronger ver. than TD96 series on durability-wise.
- TD112 DAMPER permits 2.94N·m of maximum torque.
- TD112 series has 2 types of shaft-length.

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**DURABILITY**

Each damper is set-up with an applied torque and weight on the shaft of the testing device. Measurements for closing time are taken under above condition.

**TEMPERATURE CHARACTERISTICS**

After the damper is stabilized at room temperature for 1 hour or more. The closing time is measured using a TOK made device.

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**TEST CONDITION**

1. Setting-up time : 20 sec/cycle
2. Applied torque : 1.0N·m(10kgf·cm), 1.5N·m(15kgf·cm), 2.0N·m(20kgf·cm), 2.5N·m(25kgf·cm), 3.0N·m(30kgf·cm)
3. Temperature : 23°C±2°C
4. Angle for measuring the closing time : 70° → 0°
5. Radial force : nothing
6. Closing time after durability test : 1 sec. or more

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**Operation Angle**

Above drawing shows operation angle of TD112 A1/A2 series dampers. Operation angle for TD112B1/B2 series dampers are symmetrical to the vertical line. Shaft position at the time of shipment is closed position.

**<Standard Components>**

<table>
<thead>
<tr>
<th>Part name</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing</td>
<td>ZDC</td>
</tr>
<tr>
<td>Shaft</td>
<td>ZDC</td>
</tr>
<tr>
<td>Cap</td>
<td>PBT</td>
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</tbody>
</table>

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**Code**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
<th>Allowable Torque [N·m]</th>
<th>Direction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TD112A1-15K</td>
<td>(1.47) (15)</td>
<td>CW(R)</td>
</tr>
<tr>
<td>611208</td>
<td>TD112B1-15K</td>
<td>(1.47) (15)</td>
<td>CCW(L)</td>
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<td>611209</td>
<td>TD112A1-20K</td>
<td>(1.96) (20)</td>
<td>CW(R)</td>
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<td>611210</td>
<td>TD112B1-20K</td>
<td>(1.96) (20)</td>
<td>CCW(L)</td>
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<td>611211</td>
<td>TD112A1-25K</td>
<td>(2.45) (25)</td>
<td>CW(R)</td>
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<tr>
<td>611212</td>
<td>TD112B1-25K</td>
<td>(2.45) (25)</td>
<td>CCW(L)</td>
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<td>611213</td>
<td>TD112A1-30K</td>
<td>(2.94) (30)</td>
<td>CW(R)</td>
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<tr>
<td>611214</td>
<td>TD112B1-30K</td>
<td>(2.94) (30)</td>
<td>CCW(L)</td>
</tr>
</tbody>
</table>

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**Operation angle**

110°

**Durability**

50,000 cycles

**Closing time**

- Applied torque Initial value
  - 1.47N·m(15kgf·cm) : 3~10 sec
  - 1.96N·m(20kgf·cm) : 3~10 sec
  - 2.45N·m(25kgf·cm) : 3~10 sec
  - 2.94N·m(30kgf·cm) : 3~10 sec

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**TOK, Inc.**

HEAD OFFICE, TOKYO, JAPAN — TEL : 81-3-3969-1534 FAX : 81-3-3969-9354
EMAIL : en-contact@tok-inc.com

Product specification are subject to change without prior notice.

*Before assembly or use of any bearing, please read “Caution for Use”*