**Damper Actuators**

**AIR QUALITY**

**DDB and DDD Series Direct Coupled Actuators** are non-spring return actuators that are perfect for positioning of dampers and valves in HVAC systems. DDB actuators are designed to accept floating control signals and come in a variety of power supplies. DDB units feature a 0 to 10 VDC feedback signal of damper position. Actuators produce 88 to 265 in-lb (10 to 30 Nm) of torque. Contact factory for optional internal auxiliary switches on DDB.

**FEATURES**

- Direct mount
- Actuator travel indicator
- Overload protection
- Manual override
- Floating control signal on DDB
- Modulating 4 to 20 mA or 0 to 10 VDC control signal on DDD
- Position feedback signal on DDD
- 60,000 cycles nominal

**SPECIFICATIONS**

**Power Requirements:** DDB: 110 VAC, 24 VAC, ±10%, 50/60 Hz, single phase. Optional 230 VAC. DDD: 24 VAC, ±10%, 50/60 Hz, single phase.

**Power Consumption:** DDB: 5.5 VA. DDD: 7.5 VA.

**Control Input:** DDB: Two-position or floating. DDD: 4-20 mA or 0-10 VDC.

**Overload Protection:** Magnetic clutch.

**Angle of Rotation:** 95° (mechanically adjustable).

**Fits Shaft Diameter:** 0.4” - 0.75” (10-20 mm).

**Position Indication:** Visual indicator.

**Direction of Rotation:** CW/CCW.

**Running Time:**

- 88 in-lb (10 Nm): 66 sec.
- 132 in-lb (15 Nm): 90 sec.
- 177 in-lb (20 Nm): 110 sec.
- 265 in-lb (30 Nm): 143 sec.

**Electrical Connection:** Terminal block, 18 AWG.

**Manual Override:** Push button.

**Temperature Limit:** -22 to 122°F (-30 to 50°C).

**Sound:** <45 dB.

**Life Expectancy:** 60000 full cycles.

**Housing:** NEMA 2 (IP42).

**Standard Accessories:** (2) imitative baffles, (2) baffle setscrews, (1) setting bracket.

**Agency Approvals:** CE.

<table>
<thead>
<tr>
<th>Model</th>
<th>Size/ Torque</th>
<th>Supply Voltage</th>
<th>Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDB51</td>
<td>88 in-lb [10 Nm]</td>
<td>110 VAC</td>
<td>Floating</td>
</tr>
<tr>
<td>DDB53</td>
<td>88 in-lb [10 Nm]</td>
<td>24 VAC</td>
<td>Floating</td>
</tr>
<tr>
<td>DDB61</td>
<td>132 in-lb [15 Nm]</td>
<td>110 VAC</td>
<td>Floating</td>
</tr>
<tr>
<td>DDB63</td>
<td>132 in-lb [15 Nm]</td>
<td>24 VAC</td>
<td>Floating</td>
</tr>
<tr>
<td>DDB71</td>
<td>177 in-lb [20 Nm]</td>
<td>110 VAC</td>
<td>Floating</td>
</tr>
<tr>
<td>DDB73</td>
<td>177 in-lb [20 Nm]</td>
<td>24 VAC</td>
<td>Floating</td>
</tr>
<tr>
<td>DDB81</td>
<td>265 in-lb [30 Nm]</td>
<td>110 VAC</td>
<td>Floating</td>
</tr>
<tr>
<td>DDB83</td>
<td>265 in-lb [30 Nm]</td>
<td>24 VAC</td>
<td>Floating</td>
</tr>
<tr>
<td>DDD53</td>
<td>88 in-lb [10 Nm]</td>
<td>24 VAC</td>
<td>Modulating</td>
</tr>
<tr>
<td>DDD63</td>
<td>132 in-lb [15 Nm]</td>
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