DDA and DDC Series Direct Coupled Actuators are non-spring return actuators that are perfect for positioning of dampers and valves in HVAC systems. DDA actuators are designed to accept floating control signals and come in a variety of power supplies. DDC actuators are designed to accept 4 to 20 mA or 0 to 10 VDC modulating control signals and are 24 VAC powered. DDC units feature a 0 to 10 VDC feedback signal of damper position. Actuators produce 17 to 70 in-lb (2 to 8 Nm) of torque. Contact factory for optional internal auxiliary switch on DDA.

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

**SPECIFICATIONS**
**Power Requirements:**
- DDA: 110 VAC, 24 VAC, ±10%, 50/60 Hz, single phase. Optional 230 VAC; DDC: 24 VAC, ±10%, 50/60 Hz, single phase.
- DDC models: DDC13-DCDC43: 24 VAC input; 5 VA, 24 VA models: 3 VA; DDC: 4 VA.

**Control Input:**
- DDA: Two-position, floating; DDC: 4-20 mA or 0-10 VDC.

**Overload Protection:**
- Magnetic clutch.

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

**Fits Shaft Diameter:**
- 0.4˝ (10 mm) or 0.5˝ (13 mm).

**Position Indication:**
- Visual indicator.

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

**Running Time:**

**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 (IP40).

**Standard Accessories:**
- (2) imitative baffles, (2) baffle setscrews, (1) actuator body setscrew, and (1) aluminum gasket.

**Weight:**
- 1.72 lb (0.78 kg).

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**Non-Spring Return Direct Coupled Actuators**  
**Low Cost, Two-Position or Modulating**

<table>
<thead>
<tr>
<th>Model</th>
<th>Size/ Torque</th>
<th>Supply Voltage</th>
<th>Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDA11</td>
<td>17 in-lb [2 Nm]</td>
<td>110 VAC</td>
<td>Floating</td>
</tr>
<tr>
<td>DDA13</td>
<td>17 in-lb [2 Nm]</td>
<td>24 VAC</td>
<td>Floating</td>
</tr>
<tr>
<td>DDA21</td>
<td>35 in-lb [4 Nm]</td>
<td>110 VAC</td>
<td>Floating</td>
</tr>
<tr>
<td>DDA23</td>
<td>35 in-lb [4 Nm]</td>
<td>24 VAC</td>
<td>Floating</td>
</tr>
<tr>
<td>DDA31</td>
<td>53 in-lb [6 Nm]</td>
<td>110 VAC</td>
<td>Floating</td>
</tr>
<tr>
<td>DDA33</td>
<td>53 in-lb [6 Nm]</td>
<td>24 VAC</td>
<td>Floating</td>
</tr>
<tr>
<td>DDA41</td>
<td>70 in-lb [8 Nm]</td>
<td>110 VAC</td>
<td>Floating</td>
</tr>
<tr>
<td>DDA43</td>
<td>70 in-lb [8 Nm]</td>
<td>24 VAC</td>
<td>Floating</td>
</tr>
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<td>DDC13</td>
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