



## | ROTARY VOICE COIL ACTUATORS (VCA)

### Introduction

Rotary voice coil actuators (VCA) are ideal for high acceleration applications that require angular movement. There are two types of designs available: Cylindrical and arc-segment. Cylindrical models are typically used in long stroke applications, whereas arc-segmented designs are better suited for short stroke and precise positioning. Rotary actuators feature all of the inherent advantages of VCA technology, such as direct-drive, zero backlash and cog free operation for accurate motion, as well as high acceleration and the use of single phase.



### Features

- Wide range of torque and excursion angles
- Various mechanical mounting options available
- Arc-segment and cylindrical designs available



### ROTARY VOICE COIL ACTUATORS (VCA) CONFIGURATIONS

| Part Number         | Peak Torque (N-m / oz-in) | Continuous Stall Force (N/lb) | Total Excursion Angle (Degrees) | Actuator Constant (N/√watt lb/√watt) | Width (mm/in) | Height (mm/in) |
|---------------------|---------------------------|-------------------------------|---------------------------------|--------------------------------------|---------------|----------------|
| <b>RA27-10-000A</b> | .106 / 15                 | .029 / 4.09                   | 100                             | .017 / 2.39                          | 68.6 / 2.70   | 24 / 0.94      |
| <b>RA27-10-001A</b> | .106 / 15                 | .029 / 4.09                   | 100                             | .017 / 2.39                          | 68.6 / 2.70   | 24 / 0.94      |
| <b>RA29-11-002A</b> | .226 / 32                 | .093 / 13.2                   | 32                              | .031 / 4.44                          | 27.4 / 1.08   | 45.2 / 1.78    |
| <b>RA60-10-001A</b> | .847 / 120                | .396 / 56.1                   | 30                              | .097 / 13.8                          | 30.5 / 1.20   | 38.1 / 1.50    |
| <b>RA68-12-001A</b> | 1.20 / 170                | .649 / 92                     | 20                              | .158 / 22.4                          | 30.2 / 1.19   | 45.2 / 1.78    |
| <b>RA54-18-000A</b> | 1.85 / 262                | .798 / 113                    | 7.5                             | .209 / 29.7                          | 45.7 / 1.8    | 60.9 / 2.4     |
| <b>RA68-19-000A</b> | 7.06 / 1000               | 1.76 / 250                    | 14                              | .376 / 53.3                          | 46.5 / 1.83   | 55.9 / 2.20    |

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