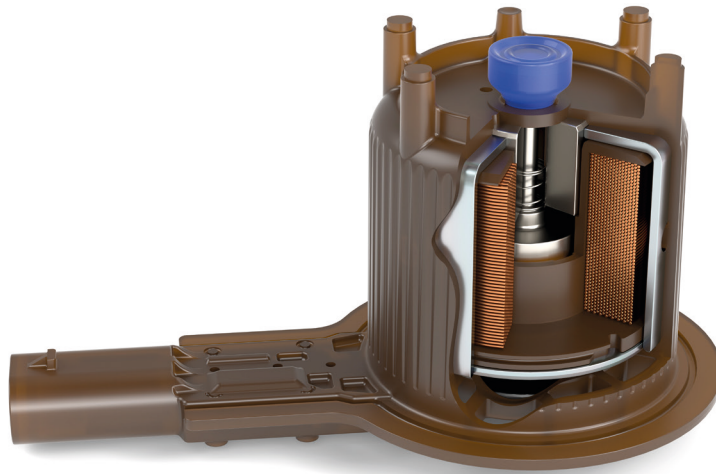


# Actuators

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## Features and Benefits

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Actuators initiate or control movement and increase driving comfort, dynamics, safety and efficiency. They are used in brake and chassis control, NVH control (active engine mounts) , engine management and exhaust applications to help reduce emissions. Swoboda, since the late 1990s, has produced over 200 million actuators and magnetic assemblies.

- Mechatronic assemblies and overmolded coils with potting technology to meet the highest sealing requirements.
- Winding technology with a wide array of wire diameters in all heat resistance classes
- Use of various connection technologies (crimping, resistance and laser welding), various soldering processes and insulation displacement technology
- Use of high temperature-resistant materials (including flame protection)
- Manufacturing of complex stamped parts and lead-frames
- Stringent cleanliness requirements
- Integration of suppressor circuit and sensor technology
- Manufacturing on a global scale
- Customer-specific design, simulation, prototyping and testing