TEAM 4: TYCO
SIMPLEXGRINNELL
ELECTRICALLY ACTUATED
VALVE
Sponsored by: Tyco SimplexGrinnell
Sponsor Advisor: James Williams
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PROJECT DESCRIPTION
SimplexGrinnell, a subsidiary of Tyco International, is a market leader in the global fire protection industry. A subsystem within their fire protection valves is the main drainage valve. The purpose of the drainage valve is to drain the fire suppression system after actuation due to fire or a required test.

Technology is constantly advancing and Tyco is evaluating the automation of their entire line of fire suppression systems. The purpose of this project is to design an electrically actuated valve by automating the open and close functions of the valve. The goal is to construct an innovative and viable alternative to the current models on the market for electrically actuated valves. With an emphasis on low cost, environmental friendliness, and energy efficiency, this design will allow for remote draining of the system after a remote test. Eventually, this design will support the company’s goal of implementing computers within their future fire suppression systems.