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Cylinder actuators shall be PowerRac as manufactured by DeZURIK or pre-approved equal.

Cylinder actuators shall be rack and gear type, and enclosed in a cast iron ASTM A126, Class B housing with 8 mils epoxy coating on exterior surfaces. Actuators shall be double acting or spring return, and be field convertible.

Actuators shall have seals to prevent the entry of dirt and water into the actuator. The rack and gear shall be made from heat treated, high carbon powder metal. The gear quadrant shall be supported by two permanently lubricated bronze bearings. The actuator shall include a large bearing behind the rack shall supporting gear separation forces. The back of the rack shall be ground to a 16 micro-inch profile.

Cylinder tubes shall be constructed of an impact resistant, fiber reinforced epoxy matrix. Interior of the cylinder shall have a low friction surface with 20 micro-inch profile. Piston and cylinder heads shall be cast iron ASTM 126, Class B. Cylinder caps are ductile iron ASTM A536, Grade 65-45-12.

Piston seals shall be of triple wiper design and pressure-assisted. The seals shall be made of Polytetrafluoroethylene (PTFE), and energized with an Acrylonitrile-Butadiene (NBR) rubber backing ring.

Actuators shall clearly indicate valve position. External adjustable stops shall be provided for open and closed positions. All exposed fasteners shall be zinc plated or stainless steel. Lockouts shall be available as an option.

The control valve connection between the actuator gear and the valve shaft shall be dead tight with all connecting components loaded in compression to prevent wear in connecting parts. Cylinder actuators shall be installed and tested on the valve as a complete assembly by trained technicians at the factory, service center or authorized representative.

PowerRac Actuators shall have a two-year warranty.