

Door Hardware

ADA Special Closers and Operators (08 71 00)

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Part 1 – General

- **ADA Special Closers and Operators:** Where low kinetic energy, as defined by ANSI Standard A156.19, is used, surface mounted door operators shall be electric powered closers complying with the 1990 ADA requirements for opening force and time to closer standards. Full closing force shall be provided when the power or assist cycle ends.
 - Locate power unit exhaust away from door to minimize noise and vibration in pedestrian areas.
 - Door operators shall be rack and pinion action with one piece forged steel pistons.
 - Units shall be **UL** approved for fire labeled and non-labeled openings.
 - Separate adjusting valves shall be provided for closing speed, latching speed and back check
 - Power operators systems shall include the following features and functions.
 - Provisions for separate conduits to carry high and low voltage wiring, and shall be UL Listed for use on Fire Labeled Openings.
 - When obstruction or resistance to the opening swing is encountered, the operator will pause, then re-attempt to open the door. If the obstruction or resistance remains, the operator will again pause the door.
 - Operators shall be designed to prevent damage to the mechanism if the system is actuated while the door is latched or if the door is forced closed during the open cycle.
 - All parts shall be powder coated and successfully pass a minimum of 100 hours salt spray test, as outlined in ANSI Standard A156.18.

Part 2 – Product

- Preferred or equal:
 - Gyrotech 710 Series with Hardwired Actuators

Part 3 – Execution

- Mount hardware units at heights indicated in "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute, except as specifically indicated or required to comply with governing regulations, and except as may be otherwise directed by Architect.
- Install each hardware item in compliance with the manufacturer's instructions and recommendations. Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in another way, coordinate removal, storage and reinstallation or application of surface protections with finishing work specified in the Division-9 sections. Do not install surface-mounted items until finishes have been completed on the substrate.
- Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- Drill and countersink units which are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.