

Drive: Roller Chain
Release: Remote Electric,
 Local Mechanical
Security Level: Maximum

D2B.3 CORRIDOR DOOR OPERATOR

Description

D2B.3 Operators are high security locking and operating systems for individual sliding doors with a maximum weight not exceeding 450 pounds.

Applications

D2B.3 Operators should be specified for security entrances, safety vestibules, corridor doors, or sallyports where remote electric control and chain drive are desirable.

Functions

Unit unlocks, opens and locks open; or unlocks, closes and deadlocks closed a corridor door. A door stopped in mid-travel may be opened or closed manually. Direction of movement of a door may be reversed electrically. In event of blockage, a torque limiter slips to prevent motor damage. When obstruction is removed, the door will automatically continue movement to the open or closed position. Pressure exerted by a door in travel is factory-set to approximately 40 pounds.

Individual doors may be manually unlocked at the door.

Locking System

Doors operated by Type D2B.3 Operators deadlock closed automatically at two points on the rear edge of the door. When opened, doors automatically lock in the open position. Locking components are not exposed or subject to inmate tampering. No components project into the door opening.

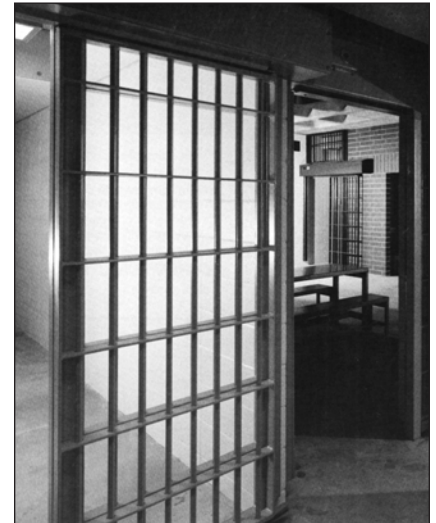
Testing

D2B Series Operators have been in

service since 1966, and tested to 500,000 cycles.

Standard Features

- **Motor voltage** – 120 VAC.
- **Rugged chain drive** – Roller chain provides consistent action of the door under a variety of conditions and installation variables.
- **Heavy duty construction** – D2B.3 Operators are ruggedly constructed for the detention environment.
- **Tamper-resistance** – Openings in housings are baffled to preclude inmate tampering.
- **Adjustable torque limiter** – Absorbs start-up and closing shocks by isolating the motor. Allows pressure exerted by the motor to be set to the needs of an individual door. Adjustment is provided to compensate for various sizes and weights of doors.
- **Sloped-top housing** – Resists hiding of contraband. Flat-top housing is provided where operator must install close to ceiling.
- **Automatic locking** – Doors lock automatically at two points.
- **Indication switch** – Monitors the deadlocked condition of both locking points.
- **Remote, electric unlocking** – Each door is controlled by a three-position switch. (OPEN-OFF-CLOSE).
- **Emergency manual unlocking** – In event of power failure, a release port may be opened by paracentric key. This action allows use of a "T" handle to unlock the door, and move it by hand-applied pressure. The door must be moved (restarted electrically or



mechanically) to the open or closed position to lock.

Optional Features

- **Door receiver column** – A hinged door locking column which places the mechanical release mechanism approximately 3'6" from the floor.
- **Location of mechanical release mechanism** – (Release Port) The locked housing allows access to the release mechanism on the reverse side of the overhead housing.
- **Electrical control cabinet** – Provides a three-position switch for each corridor door, accompanied by red and green indication lamps. Operating switches are labeled: OPEN-OFF-CLOSED. Indication lamps are labeled: Red – OPEN, Green – CLOSED. A two-position power cut-off switch is also installed to cut power to the controls.
- **G90 galvanized finish available.**



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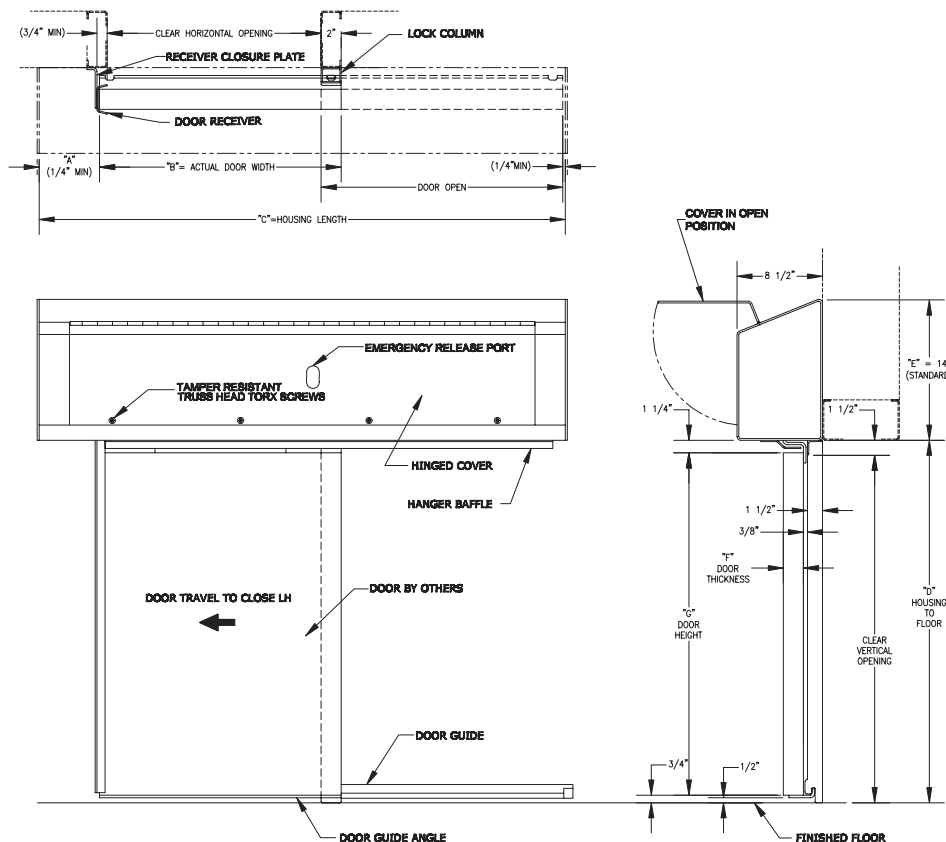
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Specifications

- Drive system –
 - Type: Roller chain.
 - Motor: 120 VAC, 60 HZ, 1/10 HP.
 - Roller chain: #41 size.
 - Hangers and guides: 1/4" thick steel.
 - Rollers: Anti-friction ball bearings with hardened members and grease shield.
 - Roller studs: High alloy treated steel with self-locking nut.
 - Finish: USP.
- Mechanism housing/covers –
 - Housing: 7-gauge steel.
 - Housing covers: 10-gauge steel.
 - Vertical lock column housing: 7-gauge steel.
 - Vertical lock column cover: 10-gauge steel.
 - Front receiver: 10-gauge steel.
 - Mechanical release column (optional): 7-gauge steel.
 - Finish: USP.

Typical D2B.3 slope-top elevation.
 Left hand (LH) as shown.
 Right hand (RH) opposite as shown.



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