FOLGER ADAM
PRODUCT CATALOG

Southern Folger

Detention Equipment Company

4634 S. Presa Street, San Antonio, TX 78223
Phone 210-533-1231 • Fax 210-533-2211
www.SouthernFolger.com
See who we are. See all we do.

TABLE OF CONTENTS

RECOMMENDED APPLICATION GUIDELINES

ELECTRIC LOCKS

For more information, please call 210.533.1231.

TABLE OF CONTENTS

PNEUMATIC LOCKS

MECHANICAL LOCKS

P.O. Box 2021, San Antonio, TX 78297 ■ Ph: 210.533.1231 ■ Fx: 210.533.2211
Web: www.SouthernFolger.com ■ Email: info@southernfolger.com

TABLE OF CONTENTS

LOCKING DEVICES

FOLGER ADAM ACCESSORIES

continued

TABLE OF CONTENTS

continued from previous page

FOLGER ADAM ACCESSORIES

SOUTHERN FOLGER ACCESSORIES

GLOSSARY

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INTRODUCTION

Folger Adam brand electric locks are characterized by superior quality and dependability. These locks have been proven by years of use in prisons, jails and detention facilities throughout the world. Each model offers a wide range of features to allow customized function for specific security requirements.

Qualification of Security Levels

The security level of a lock or other hardware item is determined by its ability to endure in the specific environment in which it is used, the level of supervision within the area where it is installed, and a variety of other factors. The terms minimum, medium and maximum are used to describe the relative relationship of products to one another.

Each lock on the following pages carries a level of security designation or range. These designations are Southern Folger Detention Equipment Company's evaluation of the ability of the product to withstand the rigors probable in that particular security level. Key type, cylinder type, and overall strength and construction of the locks have been considered in reaching the published levels. Because of the number of variables affecting security level, the designations in this catalog should be considered as guidelines only.

Keys

All keys are registered before shipment to allow prompt, accurate response to requests for additional or replacement keys. To ensure the security of your keying system, keys are sold only to properly authorized buyers. Keys are sold separately and are not included in the price of the locks.

Prison Keys

Southern Folger's standard policy does not allow master keying lever tumbler locks. This is done for the protection of the end user.

- Lever tumbler locks have a limited number of usable keying combinations. Master keying reduces the number of combinations to three or four, which drastically limits the change key applications within a facility.
- Master keying lever tumbler locks requires the bypass of four of the five tumblers leaving only one tumbler to resist picking attempts. This would make the remaining usable combinations easy to pick.
- A master keyed lock is more easily picked by an inmate/resident.

Keying Security

Proper use and care of keys helps to maintain overall security.

- Keys should be handled only by staff personnel.
- Keys should be stored in a locked cabinet, in the charge of an executive officer.
- Staff personnel should conceal the bitted end of the key from view of inmates. Key shields available.
- Keys should never be left in a cylinder or out of reach of the officer.

Doors should be closed and locked after use and locks/keepers checked frequently for tampering or vandalism. Doors left open for extended periods should be subject to lock and bolt keeper inspection to eliminate obstructions which may interfere with proper operation.

Templates

Templates are issued on a job specific basis only. Southern Folger does not issue registered template books. Templates will be issued upon receipt of a valid purchase order and hardware schedule.

Southern Folger reserves the right to modify template information at any time and without prior notice. When a change in templates occurs, material will be shipped in accordance with the templates used for each specific job.

Dimensional drawings in this catalog are not to be used for template information.

Electrical Indication

In systems using custom graphic panels or electronic monitoring consoles, electrical indication is achieved by adding internal switches to the locks. These switches monitor the condition of the lock, indicating its locked or unlocked status. Details on specifying these switches are contained on each product page.

IMPORTANT NOTE: When a door is open, the deadlock actuator of the lock may be manually depressed, giving a false indication that the door is closed and locked. To eliminate this false indication, a door position switch should be installed and wired in series with the indication switches of the lock. Then a "secure" indication may be produced only after three conditions have been met:

1) Deadlock actuator is depressed.

2) Latchbolt is extended.

3) The door is closed.

ELECTRIC LOCK SELECTION GUIDE AND SECTION INDEX

LOCK TYPE	CYLINDER TYPE	DOOR TYPE	APPLICABLE SERIES	SECURITY LEVEL	PAGE
Deadlatch	Lever tumbler	Swinging	51E 51M	Maximum Maximum	A5-6 A7-8
Deadlatch		Sliding	50HBM	Maximum	A9-10
How to Specify 50HBM Series Locks					A11
Deadlatch	Pin tumbler (Mogul Cyl.)	Swinging	120E 120M 120MC	Med/Max Med/Max Med/Max	A13-14 A15-16 A17-18
Deadlock		Swinging	120ED	Med/Max	A19-20
Deadlatch		Roll-up	120RUP	Med/Max	A21-22
How to Specify 120 Series Locks					A23-24
Deadlatch	Pin tumbler (Builders Hardware Cyl.)	Swinging	NS400E NS400M/400MC	Min/Med Min/Med	A25-26 A27-28
Deadlock		Swinging	NS400MCD	Min/Med	A29-30
How to Specify NS400 Series Locks					A31-32
Fence Gate Locks	Lever tumbler	Swinging/Sliding	800	Maximum	A33-34
Mortise Deadlatch	Pin Tumbler (Mogul Cyl.)	Swinging	D9300	Min/Med	A35-40

The above is a generalized guideline only. To determine specific models required for your application, refer to product pages for detailed descriptions.

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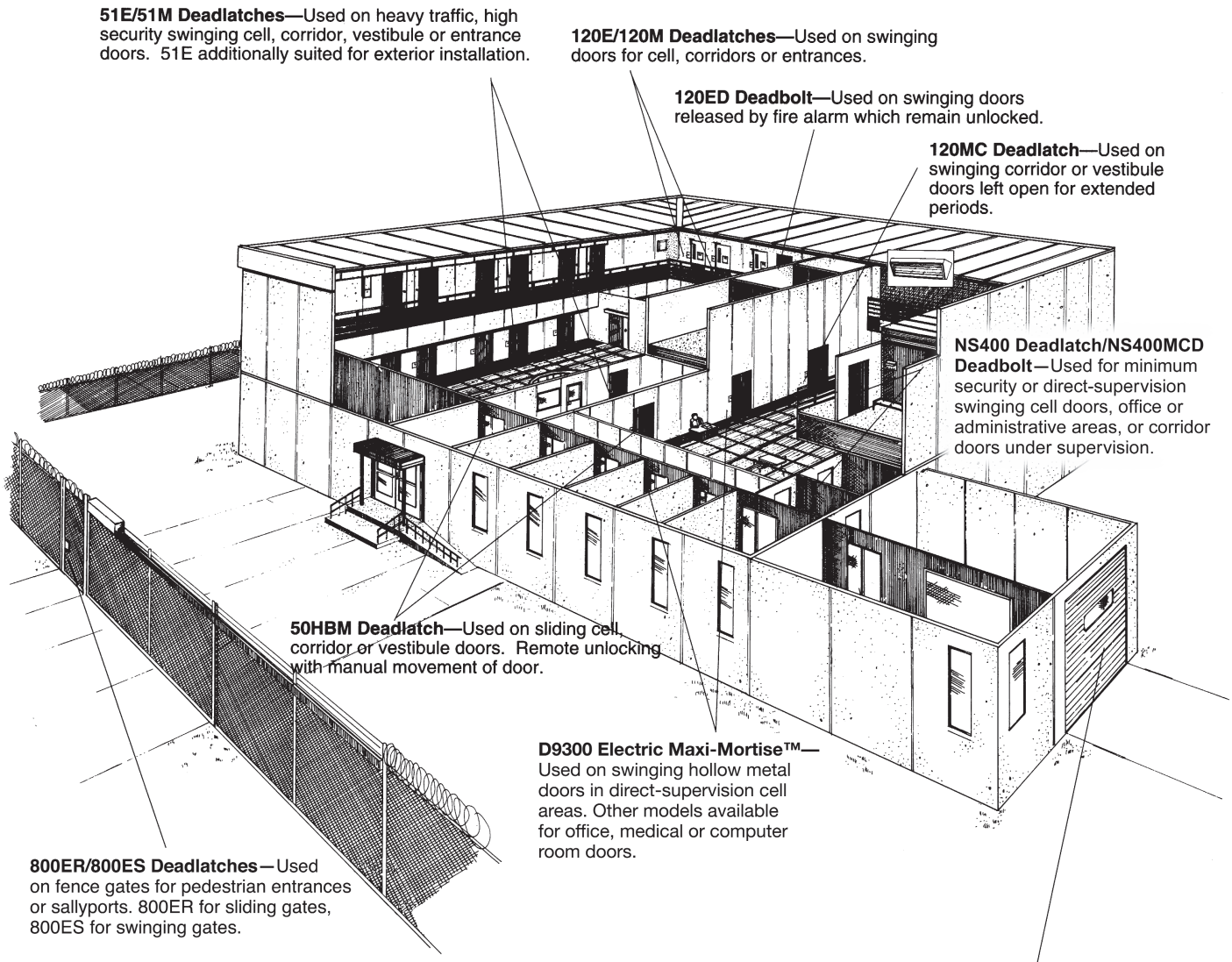
ELECTRIC LOCK APPLICATION GUIDELINES



IMPORTANT NOTE: The above guidelines are not specific recommendations. The security of a particular door or group of doors depends upon not only hardware employed, but also supervision both direct and indirect. For questions on the application of a particular lock, contact the factory.

For more information, please call 210.533.1231.

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Key:	**Prison Paracentric**
Door:	**Swinging**
Security Level:	**Maximum**

51E DEADLATCH

Description

Series 51E Deadlatches are lever tumbler, solenoid-operated locks for swinging doors. Specify keying as follows:

52E	Five tumbler model, keyed cover side
52E-6	Six tumbler model, keyed cover side
56E	Five tumbler model, keyed both sides
56E-6	Six tumbler model, keyed both sides

Applications

51E Deadlatches are designed for door jamb installation and provide maximum security for heavily used cell, corridor or entrance doors. They provide the convenience of slam-locking with remote, electrical unlocking.

Operations

Standard (1): When connected to a momentary-contact switch, the latchbolt retracts when the solenoid is energized. Once retracted, the latchbolt is held mechanically retracted until the door is opened. The latchbolt extends when the door is open.

Standard (1a): When connected to a maintained-contact switch, the latchbolt retracts when the solenoid is energized. Once retracted, it is held electrically retracted for an extended period of time. The latchbolt extends only when the solenoid is de-energized.

No-notch (2): Latchbolt extends when the switch is selected to lock.

UL LISTED

Standards Compliance

All 51E Series models are UL Listed as Burglary-Resistant Mechanisms and Fire Door Accessories to a three-hour rating.

ASTM F-1577 Grade 1 – Impact

Standard Features

- **Solenoid voltage –** 120VAC
- **Two piece plug connector –** Simplifies wiring.
- **Instant solenoid operation –** Dependable, continuous-duty solenoid.
- **Automatic deadlocking –** When the latchbolt is extended, it automatically deadlocks on closure.
- **Full 3/4" bolt throw –** Projects 1/4" when retracted.
- **Mechanical unlocking by key –** For use during power failure, or any time the lock unlocks by use of prison paracentric key. Latchbolt remains retracted until relocked by key.

For more information, please call 210.533.1231.

51E DEADLATCH

Key: Prison Paracentric
Door: Swinging
Security Level: Maximum

- **Indication switch –** A lock status indication switch which monitors the extension of the latch bolt and the deadlocked condition is included.
- **Rugged construction –** Case and cover are 7 gauge steel.
- **Tumbler Options –** Choice of five or six tumbler models. Six tumbler model offers greater pick resistance.
- **Solid steel latchbolt –** Latchbolt is zinc plated steel; concealed pins resist sawing.
- **Deadlock actuator –** Roller type, zinc plated steel, adjustable for variations in door-to-jamb clearance.
- **Finish –** Zinc plated.

Optional Features

- **Solenoid voltage –** 220VAC
- **No-notch feature –** The holdback lever has no notch to hold the latchbolt mechanically retracted. The latchbolt extends in the locked position regardless of the position of the door.
- **Interlocking –** Accomplished through the control console.

Specifications

- **Case and cover –** 7 gauge steel.
- **Latchbolt –** Solid steel with hardened steel roller pins.
- **Deadlock actuator –** Zinc plated steel, roller type.
- **Lever tumblers –** spring temper brass, activated by heavy phosphor bronze springs.
- **Key cylinder –** One piece, bronze alloy with paracentric keyway.
- **Bolt size –** 2" x 3/4"
- **Bolt throw –** 3/4"

Electrical Characteristics

- **Solenoid –** Continuous-duty type.
- **Ratings –** 120VAC, 60HZ, 13 amps inrush, .75 amps seated 220VAC, 60Hz, 6.5 amps inrush, .38 amps seated.
- **Indication switch –** SPDT, UL Listed.
- **Rating –** 15 amps at 125 or 250 VAC.

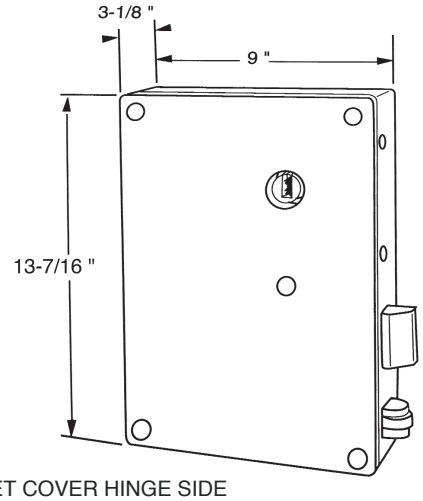
How to Specify

OPERATION	KEYING	WITH IND. SWITCH
Standard (1)	one side	52EL
	two sides	56EL
No-notch (2)	one side	52ELNN
	two sides	56ELNN

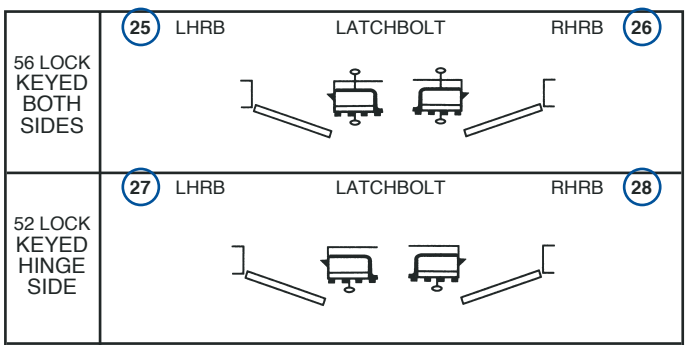
NOTE: The above are standard 5-tumbler models. To specify 6-tumbler units, add –6 after the basic model number. Example: 56E-6-L.

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

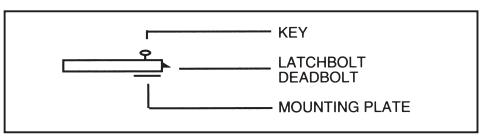


POCKET COVER HINGE SIDE



Specify circled swing number when ordering.

LEGEND



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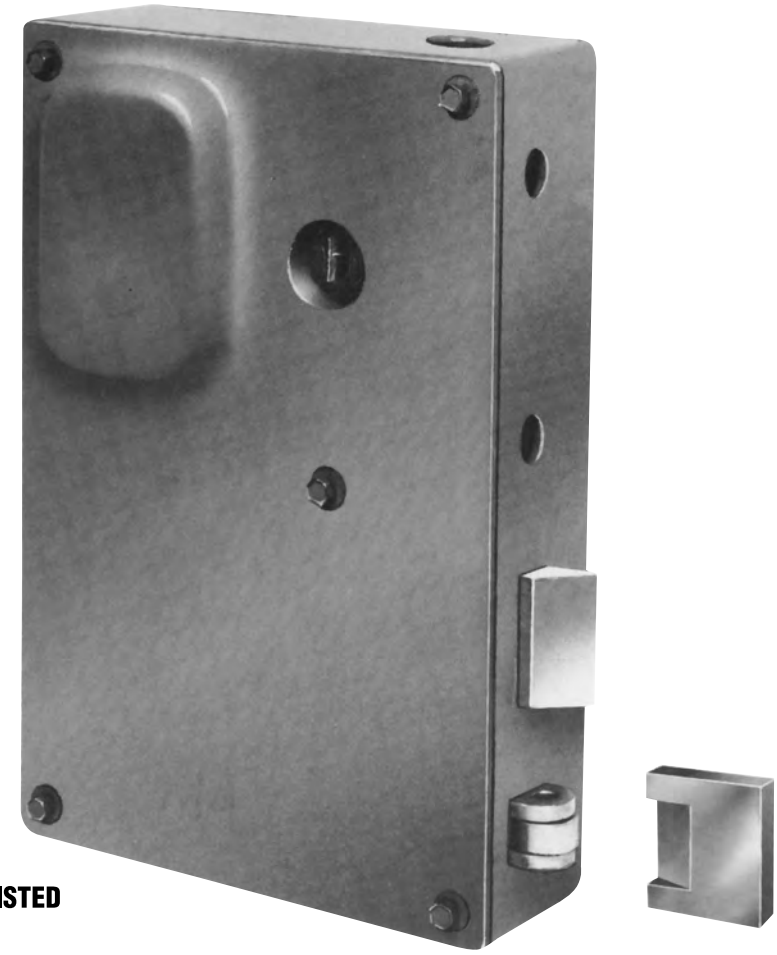
Key:	**Prison Paracentric**
Door:	**Swinging**
Security Level:	**Maximum**

51M DEADLATCH



Description

Series 51M Deadlatches are lever tumbler, motor operated locks for swinging doors. Specify keying as follows:

52M	**Five tumbler model, keyed cover side**
52M-6	**Six tumbler model, keyed cover side**
56M	**Five tumbler model, keyed both sides**
56M-6	**Six tumbler model, keyed both sides**

Applications

These jamb-mounted locks provide maximum security for cell, corridor or entryway doors. They slam lock on closure and provide staff with the safety and convenience of remote, electric unlocking. Quiet motor operation is well suited to residence areas.

Operations

When used in conjunction with a momentary contact switch, the unit unlocks when energized. The latchbolt retracts, and once retracted, it is held mechanically retracted until the door is opened. The latchbolt extends when the door is open.

Standards Compliance

51M Series Deadlatches are UL Listed as Burglary-Resistant Mechanisms and as Fire Door Accessories to a three-hour rating. UL Fire Door rating is not available with Model 51MC.

ASTM F 1577 Grade 1 - Impact

UL LISTED

Standard Features

- **Motor voltage –** 120VAC
- **Two piece plug connector –** Simplifies wiring.
- **Quiet operation –** Unlocks by smooth motor action.
- **Automatic deadlocking –** All models automatically deadlock on closure.
- **Rugged construction –** 7 gauge steel for durability.
- **Indication switch –** A lock status indication switch which monitors the extension of the latch bolt and the dead locked condition is included.
- **High security –** Five or six tumbler models available. Six tumbler model offers greater pick resistance.
- **Mechanical unlocking by key –** In the event of power failure, or at any time, 51M Series deadlatches may be unlocked by prison paracentric key; latchbolt remains retracted until relocked by key.
- **Solid steel latchbolt –** Zinc plated, with two hardened steel pins to resist sawing.
- **Deadlock actuator –** Roller type, zinc plated steel, adjustable for variations in door-to-jamb clearance.
- **Full 3/4" bolt throw –** Projects 1/4" when retracted.
- **Finish –** Zinc plated.

For more information, please call 210.533.1231.

51M DEADLATCH

Key: Prison Paracentric
Door: Swinging
Security Level: Maximum

Optional Features

- Motor voltage – 24VDC
- Continuous-duty function – Using a two-position, maintained contact switch, and a two-position cam on the motor, the latchbolt may be held retracted for extended periods. The latchbolt extends only when the door is open and the motor is energized a second time. The latchbolt deadlocks when extended and the door is closed.
- No-notch feature – The holdback lever has no notch to hold the latchbolt mechanically retracted. This feature may be used with Continuous Duty feature, and operates in the same manner as above, except that the latchbolt extends when the motor is energized a second time regardless of the position of the door.
- Interlocking – Accomplished through the control console.

Specifications

- Case and cover – 7 gauge steel.
- Latchbolt – Solid steel with hardened steel roller pins.
- Deadlock actuator – Zinc plated steel, roller-type.
- Lever tumblers – Spring-temper brass, activated by heavy phosphor-bronze springs.
- Key cylinder – One piece, bronze alloy with paracentric keyway.
- Bolt size – 2" x 3/4"
- Bolt throw – 3/4"

Electrical Characteristics

- Motor (AC) – Synchronous-type with brake.
- Ratings (120VAC) – 60HZ, 1.3 amps full load.
- ~~Ratings (220VAC) – 60HZ, .65 amps full load.~~
- Motor (DC) – Permanent magnet gearmotor.
- Ratings – 24VDC, 2.2 amps at full load.
- Indication switch – SPDT, UL Listed, 15 amps at 125VAC or 250VAC.

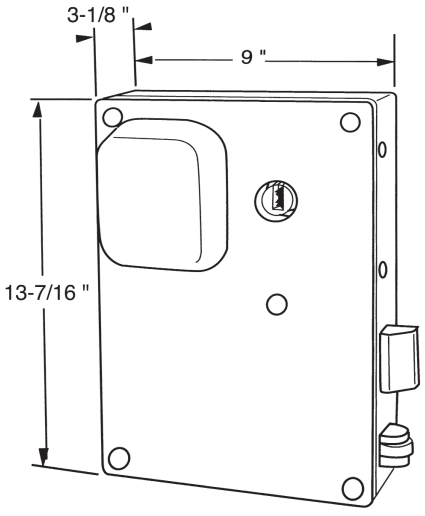
How to Specify

OPERATION	KEYING	W/INDICATION SWITCHES	W/INDICATION & INT. SWITCHES
Standard	one side	52ML	52MLI
	two sides	56ML	56MLI
Continuous Duty	one side	52MCL	N/A
	two sides	56MCL	N/A
With No-notch	one side	52MCLNN	N/A
	two sides	56MCLNN	N/A

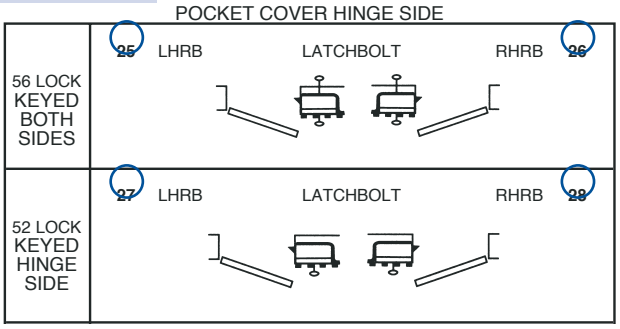
NOTE: The above are standard 5-tumbler models. To specify 6-tumbler units, add -6 after the basic model number. Example: 52M-6-L

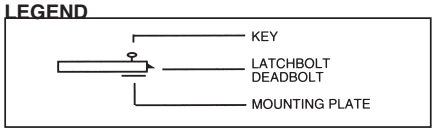
Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.



Specify circled swing number when ordering.





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Key:	**Prison Paracentric**
Door:	**Sliding**
Security Level:	**Maximum**

50HBM DEADLATCH

Description

Series 50HBM Deadlatches are lever tumbler, motor-operated locks for sliding doors, utilizing hookbolts. Specify keying as follows:

51	Keyed case side
52	Keyed cover side
56	Keyed both sides

Applications

Jamb-mounted 50HBM locks should be specified for maximum security cell, corridor, sallyport, or entrance/egress sliding doors. May be installed within a lock pocket or full height column. They are designed to be part of an electrical locking/unlocking system to provide institutional staff with maximum safety and flexibility of operation.

Operations

All 50HBM locks are operated by electric motor. The choice of two motor operations provides a variety of functions:

Full-Rotation Motor (50HBM) with latchback (1):
Unlocks when the motor is energized by a momentary contact switch. Once unlocked, the hookbolt is held mechanically in the raised position until the door is opened. It then returns to normal, lowered position.

Two-Position Motor (50HBMC) without latchback (2):
Same as above, except that the hookbolt is raised and lowered as the motor runs. A door starter should be installed in the track housing to push the door open when the motor reaches the unlocking point.

UL LISTED

Testing

50HBM locks have been tested for over 1,000,000 operations.

Standard Features

- **Motor voltage –** 120VAC
- **External mounting –** Locks install without cover plate removal. External slotted mounting holes simplify installation and allow for variations in door gap by permitting lateral movement.
- **Two-piece plug connector –** Simplifies wiring at time of installation and allows pre-wiring at the lock pocket.
- **Superior durability –** Working parts are stainless steel and designed for maximum strength and corrosion resistance.
- **Hardened hookbolt and deadlock actuator –** Zinc plated for corrosion resistance.
- **Motor operation –** A choice of two operations is available, as shown on following page.
- **High security –** Choice of five or six lever tumbler models. Six tumbler model offers greater pick resistance.
- **Mechanical unlocking by key –** Once unlocked by key, the hookbolt remains in that position until relocked by key (Models without latchback feature). Key is removable in the unlocked position.
- **Indication switch –** The indication switch monitors the deadlock lever to indicate a deadlocked hookbolt.
- **Finish –** Zinc plated.

For more information, please call 210.533.1231.

50HBM DEADLATCH

Key: Prison Paracentric
Door: Sliding
Security Level: Maximum

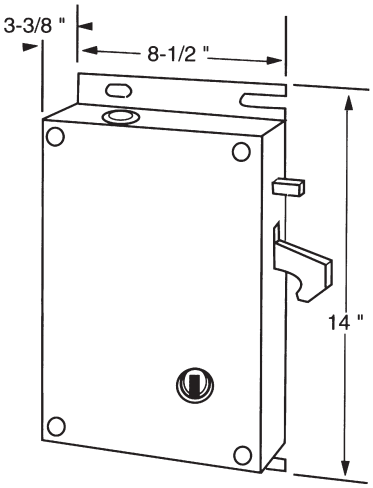
Optional Features

Motor voltage – 24VDC

Lock bolt keepers – Select 50H-4DB with dust box.

Dimensional Data

Note: Dimensions are for information and planning purposes only and should not be used as templates.



Specifications

- **Case –** 7 and 10 gauge steel.
- **Cover –** 10 gauge HRS.
- **Hookbolt –** .5 inch steel, case hardened and zinc plated.
- **Deadlock actuator –** .5 inch square CRS, hardened and zinc plated.
- **Deadlock and operator levers –** Stainless steel.
- **Springs –** Stainless steel.
- **Motor –** Synchronous-type gearmotor with brake.

Electrical Characteristics

- **Motor (AC) –** Synchronous-type gearmotor with brake.
  Ratings: 120VAC, 60HZ, 1.3 amps at full load.
- **Motor (DC) –** Permanent magnet gearmotor.
  Ratings: 24VDC, 2.2 amps at full load.
- **Indication switch –** SPDT, UL Listed.
  Deadlock Ratings: 15 amps at 125 or 250 VAC.
  Auxiliary Ratings: 10 amps 125 or 250 VAC.

MODEL NO.	OPERATION DESCRIPTION	LATCHBACK		OPERATION SWITCHES INTERLOCK	INDICATION SWITCH DEADLOCK
		WITH	WITHOUT		
50HBM-1-01	1	X			X
50HBMC-1-04	2		X		X

This chart shows applicability of functions and features to specific 50HBM models.
For complete details, see How To Specify on the following page.

Specify circled swing number when ordering.

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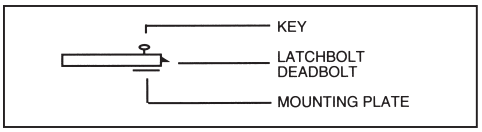
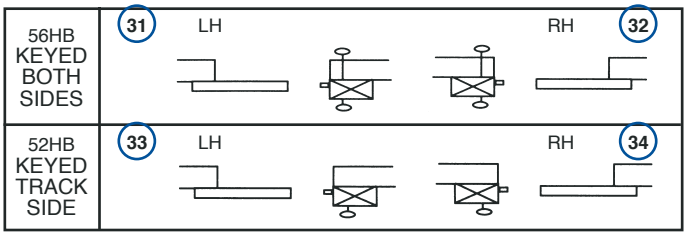


50HB Series Locks
LOCK COVER PLATE TRACK SIDE



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HOW TO SPECIFY 50HBM SERIES LOCKS

1	2	3	4	5	6	7
56HB	M	- 1	01	x 5	x LH	x 120 VAC

1 Keying Location

51HB
Case Side

52HB
Cover Side

56HB
Both Sides

2 Basic Models

M
Full-Rotation Motor

MC
Two-Position

3 Operation Series

1
Standard

4 Switch Functions

With Latchback

01
Deadlock Indication

Without Latchback

04
Deadlock Indication

5 Lever Tumblers

5
Five

6
Six

6 Handing*

LH
Left Hand

RH
Right Hand

7 Operating Voltages

120 VAC

24 VDC

*For information on handing, see chart on previous page.

For more information, please call 210.533.1231.

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Key: Mogul
Door: Swinging
Security Level: Medium/Maximum

120E DEADLATCH

Description

Series 120E Deadlatches are pin tumbler, solenoid-operated locks for swinging doors. Specify keying as follows:

121 Keyed case side
122 Keyed cover side
126 Keyed both sides

Applications

Series 120E Deadlatches are suited for medium or maximum security application including cell doors, sallyport or egress doors, corridor or entrance doors. Sensitive administration areas of an institution may also warrant 120 Series locks. These jamb-mounted locks are designed to be part of an electrical system with remote operation and monitoring to provide supervisory personnel with optimum protection and flexibility.

Operation

Standard (1): Series 120E locks unlock when the solenoid is energized by a momentary-contact switch. Once unlocked, the latchbolt is held mechanically retracted until the door is opened. It then extends automatically.

Without latchback (1a) 04 one switch; 05 two switches: Once unlocked, the latchbolt is held retracted as long as the solenoid is energized. A maintained contact switch may be used to keep the latchbolt retracted for an extended period of time.

Knob release(2): 120E Deadlatches may be specified with knob release on one side, where the knob is always active. Knob may be mounted on the case side, or the cover side.

Key holdback (3): When unlocked by key, the deadlatch remains retracted until relocked by turning the key in the opposite direction. Available one side only. For locks keyed both sides, available cover side only.

Note: Key cylinders for locks with key holdback feature must be installed at the factory. This function is not UL Listed for Fire Doors.

Testing

120E Series Deadlatches and Maxi-Mogul® Key Cylinders have been tested to 1,000,000 operations.

Standards Compliance

Series 120E locks are UL Listed as Burglary-Resistant Mechanisms and Fire Door Accessories to a three-hour rating. Maxi-Mogul® Key Cylinders meet UL437 requirements.

ASTM F1577 Grade 1 - Impact

Standard Features

- **Solenoid voltage –** 120 VAC
- **Superior durability –** Working parts of stainless steel afford greater strength and corrosion-resistance.
- **Standard lock size –** All models use the same size case, cover and mounting holes for simplified installation and frame preparation.
- **External two-piece plug connector –** All models install without cover removal. Simple plug-in connection to field wiring.

UL LISTED

- **External mounting holes –** Easy installation eliminates the need for cover removal.
- **Standard lock –** Mounts behind frame and does not require a faceplate.
- **1" throw latchbolt –** Offers greater security. Each bolt is hardened to resist sawing. When latchbolt is engaged in strike, bevel is concealed to prevent picking.
- **Mechanical unlocking by key –** Specify Folger Adam Mogul cylinders, Maxi-Mogul® high security cylinders or other mogul cylinders.
- **Investment-cast stainless steel strike –** Furnished with four tamper-resistant screws.
- **Continuous-duty solenoid –** For instant action.
- **Finish –** Zinc plated case and cover.

For more information, please call 210.533.1231.

120E DEADLATCH

Key: Mogul
Door: Swinging
Security Level: Medium/Maximum

Optional Features

- **Optional solenoid voltage –** 230 VAC, 60Hz.
- **Faceplate –** US32D finish.
- **Indication/auxiliary switches –** An indication switch monitors the deadlock lever indicating a deadlocked latchbolt. The auxiliary switch monitors the roller bolt for extended or retracted position.
- **Local electric key (LEK) –** A unique function which uses two types of keys for applications where inmates carry their own keys, but supervision is necessary. One key turns in one direction only and operates the lock electrically. The supervisory key turns in both directions to operate the lock electrically and mechanically. The electric operation may be cancelled from a central console or control point at any time via a three-position switch.

  The Maxi-Mogul® Key Cylinder is uniquely suited for this high frequency operation, shown by cycle test of 1,000,000 operations.

  LEK not available on any 120E-3 Series Locks.
- **Key Cylinder Extension –** When the lock is keyed on the stop side of the jamb, an extension eliminates the need for a special, recessed frame pocket. Specify E-3 for 3", E-4 for 4" or E-5 for 5".

The chart at right shows applicability of above options to all 120E Models.

For complete details, see How to Specify in this section.

Specifications

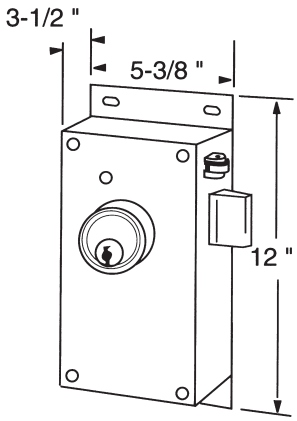
- **Case and cover –** 10 gauge steel.
- **Latchbolt –** Investment-cast stainless steel hardened, 1" throw.
- **Deadlock lever –** Stainless steel, adjustable for door gap variations.
- **Bolt opening –** Does not allow access to mechanism.
- **Roller bolt –** Investment-cast stainless steel with stainless steel roller.
- **Operating lever –** Stainless steel to operate with solenoid.
- **Strike –** Investment-cast stainless steel, attached with screws in two directions.
- **Solenoid –** 120 VAC continuous duty with stainless steel guides; 230VAC optional.
- **Springs –** Stainless steel.

Electrical Characteristics

- **Solenoid voltages (120 VAC) –** 13 amps inrush - .75 amps seated.
- **Solenoid voltages (230 VAC) –** 6.6 amps inrush - .38 amps seated.
- **Switches –** SPDT, UL Listed, 15 amps @ 125 or 250 VAC.

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.



MODEL NO.	OPERATION	LATCHBACK		OPERATIONAL SWITCHES			INDICATION SWITCHES		LEK AVAILABLE
		WITH	W/O	HOLDBACK	RELOCK	INT.	DEADLATCH	AUX	
120E-1-01	Standard (1)	X					X		Yes
120E-1-04	Standard (1a)		X				X		Yes
120E-1-07	Standard (1b)		X	X			X		Yes
120E-2-01	Knob Release (2)	X					X		Yes
120E-2-04	Knob Release (2a)		X				X		Yes
120E-2-07	Knob Release (2b)		X	X			X		Yes
120E-3-01	Key Holdback (3)	X					X		No
120E-3-04	Key Holdback (3a)		X				X		No
120E-3-07	Key Holdback (3b)		X	X			X		No

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Key: Mogul
Door: Swinging
Security Level: Medium/Maximum

120M DEADLATCH

Description

Series 120M Deadlatches are pin tumbler, motor-operated electro-mechanical locks for swinging doors.

Specify keying as follows:

121	Keyed case side
122	Keyed cover side
126	Keyed both sides

Applications

Series 120M Deadlatches are jamb-mounted and designed for use in medium or maximum security applications to secure cell doors, sallyports, corridors or entrance doors. The motor provides smooth, quiet operation and positive locking. 120M locks are designed to be part of an electrical system with remote operation and monitoring. They afford flexibility and safety to institution staff.

Operations

Standard (1): Series 120M locks unlock when the motor is energized by a momentary-contact switch. Once unlocked, the latchbolt is held mechanically retracted until the door is opened. It then extends automatically.

Knob release(2): 120M Deadlatches may be specified with knob release on one side, where the knob is always active. Knob may be mounted on the case side, or the cover side.

Key holdback (3): When unlocked by key, the deadlatch remains retracted until relocked by turning the key in the opposite direction. Available one side only. This function is not UL Listed for Fire Door Accessories to a three-hour rating.

UL LISTED

Note: Key cylinders for locks with key holdback feature must be installed at the factory.

Testing

120M Series Deadlatches and Maxi-Mogul® Key Cylinders have been tested to 1,000,000 operations.

Standards Compliance

All Series 120M locks are UL Listed as Burglary-Resistant Mechanisms and Fire Door Accessories to a three-hour rating, except Key holdback function, which is not Fire rated.

Maxi-Mogul® Key Cylinders meet UL437 requirements.

ASTM F1577 Grade 1 - Impact

Standard Features

- **Motor voltage –** 120 VAC
- **Superior durability –** Working parts of stainless steel afford greater strength and corrosion resistance.
- **Standard lock size –** All models use the same size case, cover and mounting holes for simplified installation and frame preparation.
- **External two-piece plug connector –** All models install without cover removal. Simple plug-in connection to field wiring.
- **External mounting holes –** Easy installation eliminates the need for cover removal.
- **Standard lock –** Mounts behind frame and does not require a faceplate.
- **1" throw latchbolt –** Offers greater security. Each bolt is hardened to resist sawing. When latchbolt is engaged in strike, bevel is concealed to prevent picking.
- **Mechanical unlocking by key –** Specify Folger Adam Mogul cylinders, Maxi-Mogul® high security cylinders or other Mogul cylinders.

For more information, please call 210.533.1231.

Key: Mogul
Door: Swinging
Security Level: Medium/Maximum

120M DEADLATCH

- **Investment-cast stainless steel strike –** Furnished with four tamper-resistant screws.
- **Fractional HP Motor –** Permanently lubricated for smooth quiet operation with thermal overload protection and a brake for accurate locking position.
- **Finish –** Zinc plated case and cover.

Optional Features

- **Faceplate –** US32D finish.
- **Indication/auxiliary switches –** An indication switch monitors the deadlock lever indicating a deadlocked latchbolt. The auxiliary switch monitors the latchbolt for extended or retracted position.
- **Local electric key (LEK) –** A unique function which uses two types of keys for applications where inmates carry their own keys, but supervision is necessary. One key turns in one direction only and operates the lock electrically. The supervisory key turns in both directions to operate the lock electrically and mechanically. The electric operation may be cancelled from a central console or control point at any time via a three-position switch.

  The Maxi-Mogul® Key Cylinder is uniquely suited for this high frequency operation, shown by cycle test of 1,000,000 operations.

  LEK not available on any 120M-3 Series Locks.
- **Key Cylinder Extension –** When the lock is keyed on the stop side of the jamb, an extension eliminates the need for a special, recessed frame pocket. Specify E-3 for 3", E-4 for 4" or E-5 for 5".
- **Optional motor voltage –** 24 VAC or 24 VDC.

Specifications

- **Case and cover –** 10 gauge steel.
- **Latchbolt –** Investment-cast stainless steel, hardened. 1" throw.
- **Deadlock lever –** Stainless steel, adjustable for door gap variations.
- **Bolt opening –** Does not allow access to mechanism.
- **Roller bolt –** Investment-cast stainless steel with stainless steel roller.
- **Operating lever –** Stainless steel to operate with solenoid.
- **Strike –** Investment-cast stainless steel, attached with screws in two directions.
- **Motor –** 120 VAC continuous duty, 24 VAC or 24 VDC optional, synchronous-type gearmotor.
- **Springs –** Stainless steel.

Electrical Characteristics

- **AC motors –** Synchronous-type gearmotor with brake.

  Ratings: 120 VAC: 60 Hz, 1.3 amps at full load.
- **DC motors –** Permanent-magnet gearmotor.

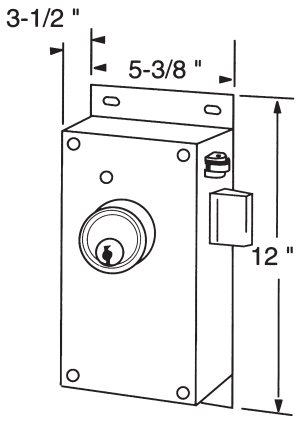
  Ratings: 24 VDC, 2.2 amps at full load.
- **Switch –** SPDT, UL Listed, 15 amps @ 125 or 250 VAC.

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

The chart below shows applicability of above options to all 120M Models.

For complete details, see How to Specify in this section.



MODEL NO.	OPERATION DESCRIPTION	LATCHBACK	INDICATION SWITCHES	LEK AVAILABLE
			DEADLATCH	
120M-1-01	Standard (1)	X	X	Yes
120M-2-01	Knob Release (2)	X	X	Yes
120M-3-01	Key Holdback (3)	X	X	No

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Key: Mogul
Door: Swinging
Security Level: Medium/Maximum

120MC HALF-CYCLE DEADLATCH

Description

Series 120MC Deadlatches are pin tumbler, motor-operated locks utilizing a two-position motor cam.

Specify keying as follows:

121 Keyed case side
122 Keyed cover side
126 Keyed both sides

Applications

Series 120MC Deadlatches are suitable for use in medium or maximum security situations to lock cell, corridor or entrance doors. Especially appropriate for areas requiring the latchbolt to remain retracted until it is selected to lock again.

Like all Series 120 locks, the jamb-mounted 120MC Deadlatch is designed for use as part of an electrical system with remote operation and monitoring.

Operations

Standard (1): Unlocks when the motor is energized by either a two or three position, maintained contact switch, or a three position momentary contact switch. Once unlocked, the latchbolt remains retracted until it is selected to lock. Opening and closing the door has no effect on the lock when selected to unlock. The latchbolt extends only when the door is opened and the motor is selected to lock. If the door is closed, it must be opened to extend the latchbolt. Two additional variations on this feature are offered:

Without latchback (1a): Once unlocked, the latchbolt is held retracted only as long as the motor remains in the unlocked position. A maintained-contact switch may be used to keep the latchbolt retracted for an extended period of time.

Relock (1b) 09: Once unlocked, the latchbolt is held retracted until the door is opened. It then extends automatically. This operation requires an additional control wire, and may be cancelled by adding an additional control switch. A momentary-contact switch is used for unlocking, and the auxiliary switch is used for relocking. When the door is opened, the auxiliary switch repositions the motor to a locked position so that the lock will deadlatch on closure.

Knob release(2): 120MC Deadlatches may be specified with knob release on one side, where the knob is always active. Knob may be mounted on the case side, or the cover side.

Key holdback (3): When unlocked by key, the deadlatch remains retracted until relocked by turning the key in the opposite direction. Available one side only.

Note: Key cylinders for locks with key holdback feature must be installed at the factory.

Testing

120MC Series Deadlatches and Maxi-Mogul® Key Cylinders have been tested to 1,000,000 operations.

Standards Compliance

All Series 120MC locks are UL Listed as Burglary-Resistant Mechanisms.

Maxi-Mogul® Key Cylinders meet UL437 requirements.

Standard Features

- **Motor voltage –** 120 VAC
- **Superior durability –** Working parts of stainless steel afford greater strength and corrosion resistance.
- **Standard lock size –** All models use the same size case, cover and mounting holes for simplified installation and frame preparation.

UL LISTED

- **External two-piece plug connector –** All models install without cover removal. Simple plug-in connection to field wiring.
- **External mounting holes –** Easy installation, and eliminate the need for cover removal.
- **Standard lock –** Mounts behind frame and does not require a faceplate.
- **1" throw latchbolt –** Offers greater security. Each bolt is hardened to resist sawing. When latchbolt is engaged in strike, bevel is concealed to prevent picking.
- **Mechanical unlocking by key –** Specify Folger Adam Mogul cylinders, Maxi-Mogul® high security cylinders or other Mogul cylinders.
- **Investment-cast stainless steel strike –** Furnished with four tamper-resistant screws.
- **Fractional HP Motor –** Permanently lubricated for smooth quiet operation with thermal overload protection and a brake for accurate locking position.
- **Finish –** Zinc plated case and cover.

For more information, please call 210.533.1231.

Key: Mogul
Door: Swinging
Security Level: Medium/Maximum

120MC HALF-CYCLE DEADLATCH

Optional Features

- **Faceplate –** US32D finish.
- **Indication/auxiliary switches –** An indication switch monitors the deadlock lever indicating a deadlocked latchbolt. The auxiliary switch monitors the latchbolt for extended or retracted position.
- **Local electric key (LEK) –** A unique function which uses two types of keys for applications where inmates carry their own keys, but supervision is necessary. One key turns in one direction only and operates the lock electrically. The supervisory key turns in both directions to operate the lock electrically or mechanically. The electric operation may be cancelled from a central console or control point at any time via a three-position switch.

  The Maxi-Mogul® key cylinder is uniquely suited for this high frequency operation, shown by cycle test of 1,000,000 operations.

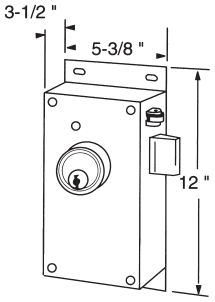
  LEK not available on any 120MC-3 Series Locks.
- **Key Cylinder Extension –** When the lock is keyed on the stop side of the jamb, an extension eliminates the need for a special, recessed frame pocket.
- **Optional motor voltage –** 24 VAC or 24 VDC.

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

The chart at right shows applicability of above options to all 120MC Models.

For complete details, see How to Specify in this section.



Specifications

- **Case and cover –** 10 gauge steel.
- **Latchbolt –** Investment-cast stainless steel, hardened, 1" throw.
- **Deadlock lever –** Stainless steel, adjustable for door gap variations.
- **Bolt opening –** Does not allow access to mechanism.
- **Roller bolt –** Investment-cast stainless steel with stainless steel roller.
- **Operating lever –** Stainless steel to operate with motor.
- **Strike –** Investment-cast stainless steel, attached with screws in two directions.
- **Motor –** 120 VAC continuous duty, 24 VAC or 24 VDC optional, synchronous-type gearmotor.
- **Springs –** Stainless Steel.

Electrical Characteristics

- **AC motors –** Synchronous-type gearmotor with brake.

  Ratings:

  120 VAC: 60 Hz, 1.3 amps at full load.
- **DC motors –** Permanent-magnet gearmotor.

  Ratings: 24 VDC, 2.2 amps at full load.
- **Switches –** SPDT, UL Listed, 15 amps @ 125 or 250 VAC.

MODEL NO.	OPERATION	LATCHBACK		RELOCK SWITCH	INDICATION SWITCHES		LEK AVAILABLE
		WITH	W/O		DEADLATCH	AUX	
120MC-1-01	Standard (1)	X			X		Yes
120MC-1-04	Standard (1a)		X		X		Yes
120MC-1-09	Standard (1b)		X	X	X		Yes
120MC-2-01	Knob Release (2)	X			X		Yes
120MC-2-04	Knob Release (2)		X		X		Yes
120MC-2-09	Knob Release (2)		X	X	X		Yes
120MC-3-01	Key Holdback (3)	X			X		No
120MC-3-04	Key Holdback (3)		X		X		No
120MC-3-09	Key Holdback (3)		X	X	X		No

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Key: Mogul
Door: Swinging
Security Level: Medium/Maximum

120ED DEADBOLT

UL LISTED

Description

Series 120ED Deadbolts are pin tumbler, solenoid-operated locks for swinging doors. Specify keying as follows:

121 Keyed case side
122 Keyed cover side
126 Keyed both sides

Applications

Series 120ED Deadbolts are ideal for a wide range of medium or maximum security applications including cell doors, corridor doors, entryways or any opening requiring a deadbolt-type locking. These jamb-mounted locks are designed to be part of an electrical system with remote unlocking and monitoring to provide staff safety and operational flexibility.

Operation

Key Holdback (3): Units unlock by key or when the solenoid is energized by a momentary-contact switch or emergency-unlock signal (fire alarm). Once unlocked, the deadbolt is held mechanically retracted, regardless of door position, and must be relocked by key.

Testing

120ED Series Deadbolts and Maxi-Mogul® key cylinders have been tested to 1,000,000 operations.

Standards Compliance

Series 120ED locks are UL Listed as Burglary-Resistant Mechanisms. Maxi-Mogul® key cylinders meet UL437 requirements.

ASTM F-1577 Grade 1 Impact

Standard Features

- **Solenoid voltage –** 120 VAC
- **Superior durability –** Working parts of stainless steel afford greater strength and corrosion-resistance.
- **Standard lock size –** All models use the same size case, cover and mounting holes for simplified installation and frame preparation.
- **External two-piece plug connector –** All models install without cover removal. Simple plug-in connection to field wiring.
- **External mounting holes –** Easy installation eliminates the need for case and cover removal.
- **Standard lock –** Mounts behind frame and does not require a faceplate.
- **1" throw deadbolt –** Offers greater security. Each bolt is hardened to resist sawing.
- **Mechanical unlocking by key –** Specify Folger Adam Mogul cylinders, Maxi-Mogul® high security cylinders or other mogul cylinders.
- **Continuous-duty solenoid –** For instant action; positive unlocking.
- **Finish –** Zinc plated case and cover.
- **Deadlock switch –** Monitors the deadlock lever indicating a deadlocked deadbolt.

For more information, please call 210.533.1231.

120ED DEADBOLT

Key: Mogul
Door: Swinging
Security Level: Medium/Maximum

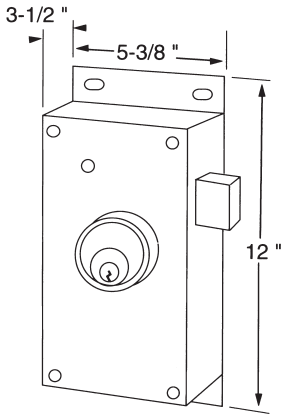
Optional Features

- **Optional solenoid voltage –** 230 VAC, 60Hz.
- **Key Cylinder Extension –** When the lock is keyed on the stop side of the jamb, an extension eliminates the need for a special, recessed frame pocket. Specify E-3 for 3", E-4 for 4" or E-5 for 5".

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

For complete details, see How to Specify in this section.



Specifications

- **Case and cover –** 10 gauge steel.
- **Deadbolt –** Investment-cast stainless steel, hardened, 1" throw.
- **Deadlock lever –** Stainless steel, adjustable for door gap variations.
- **Bolt opening –** Does not allow access to mechanism.
- **Operating lever –** Stainless steel to operate with solenoid.
- **Solenoid –** 120 VAC continuous duty with stainless steel guides, 230VAC optional.
- **Springs –** Stainless steel.

Electrical Characteristics

- **Solenoid voltage standard (120 VAC) –** 13 amps inrush - .75 amps seated.
- **Solenoid voltages optional (230 VAC) –** 6.6 amps inrush - .38 amps seated.
- **Switches –** SPDT, UL Listed, 15 amps @ 125 or 250 VAC.

The chart below shows applicability of above options to all 120ED Models.

MODEL NO.	OPERATION DESCRIPTION	LATCHBACK	INDICATION SWITCH DEADLOCK
120ED-3-01	Key Holdback (3)	X	X

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Key: Mogul
Door: Roll-up
Security Level: Medium/Maximum

120RUP DEADLATCH

UL LISTED

Description

Series 120RUP Deadlatches are pin tumbler, solenoid-operated locks for roll-up doors. Specify keying as follows:

121 Keyed case side
122 Keyed cover side
126 Keyed both sides

Applications

Series 120RUP Deadlatches are designed to provide security for garage and service bay roll-up doors. In the case of roll-up shutters or unusual closures, the units may be keyed two sides, with key holdback one side only. 120RUP Models are fully compatible with electrically operated and monitored systems and provide safe, remote locking and unlocking.

Operation

This device unlocks when the solenoid is energized by a momentary contact switch. Once unlocked, the latchbolt is held mechanically retracted and a switch energizes the "open" circuit of the roll-up door. When the door is opened, the latchbolt extends automatically. 120RUP locks may be mechanically unlocked by key, with latchbolt remaining retracted until relocked by key.

Testing

120RUP Deadlatches and Maxi-Mogul® key cylinders have been tested to 1,000,000 operations.

Standards Compliance

120RUP locks are UL Listed as Burglary-Resistant Mechanisms. Maxi-Mogul® key cylinders meet UL437 requirements.

Standard Features

- **Solenoid voltage –** 120 VAC.
- **Superior durability –** Working parts of stainless steel afford greater strength and corrosion-resistance.
- **Standard lock size –** All models use the same size case, cover and mounting holes for simplified installation and frame preparation.
- **External mounting holes –** Easy installation and eliminate the need for case and cover removal.
- **1" throw latchbolt –** Offers greater security. Each bolt is hardened to resist sawing.
- **Mechanical unlocking by key –** Specify Folger Adam Mogul cylinders or Maxi-Mogul® high security cylinders.
- **Continuous-duty solenoid –** Provides instant unlocking action.
- **Finish –** Zinc plated case and cover.

Optional Features

- **Optional solenoid voltage –** 230 VAC, 60Hz.
- **Indication/auxiliary switches –** An indication switch monitors the deadlock lever indicating a deadlocked latchbolt.

For more information, please call 210.533.1231.

120RUP DEADLATCH

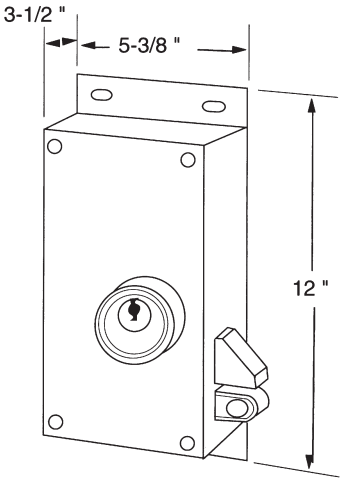
Key: Mogul
Door: Roll-up
Security Level: Medium/Maximum

- **Key cylinder extension –** When the lock is keyed on the stop side of the jamb, an extension eliminates the need for a special, recessed frame pocket. Specify E-3 for 3", E-4 for 4" or E-5 for 5" extensions.

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

For complete details, see How to Specify in this section.



Specifications

- **Case and cover –** 10 gauge steel.
- **Latchbolt –** Investment-cast stainless steel, hardened, 1" throw.
- **Deadlock lever –** Stainless steel, adjustable for door gap variations.
- **Roller bolt –** Investment-cast stainless steel with stainless steel roller.
- **Operating lever –** Stainless steel to operate with solenoid.
- **Solenoid –** 120 VAC continuous duty with stainless steel guides, 230VAC optional.
- **Springs –** Stainless steel.

Electrical Characteristics

- **Solenoid voltage standard (120 VAC) –** 13 amps inrush - .75 amps seated.
- **Solenoid voltages optional (230 VAC) –** 6.6 amps inrush - .38 amps seated.
- **Switches –** SPDT, UL Listed, 15 amps @ 125 or 250 VAC.

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HOW TO SPECIFY 120 SERIES LOCKS

1	2	3	4	5	6	7	8	9
126	E	- 1 -	01	x M0-US26D	x LHRB	x 120 VAC	x LEK-2	x E3

1 Keying Location

121
Case Side

122
Cover Side

126
Both Sides

2 Basic Models Deadlatches

E
Solenoid

M
Full-Rotation Motor

MC
Two-Position Motor

Deadbolts ED
Solenoid

RUP
Solenoid
(Roll-Up Door)

3 Operation Series

1
Standard

2
Knob Release

3
Holdback by Key
(one side only)

4 Switch Functions

01
Deadlock Indication Switch With Latchback

04
Deadlock Indication Switch No Latchback

07
Electric Holdback

5 Key Cylinder and Finish

Folger Adam Mogul

M
Prep. Only

M0-US26D
110 Mogul Cylinder with US26D Finish

M1-US26D
190-1 Maxi-Mogul® Key Cylinder with US26D Finish

190-A
ASSA Mogul Key Cylinder with US26D Finish

190M
Medeco Mogul Key Cylinder with US4 Finish

Available Key Cylinder Finishes:

US26D (standard)
US26D

6 Lock Handing* Deadlatches

LHRB
Left Hand Reverse Bevel

RHRB
Right Hand Reverse Bevel

Deadbolts LH
Left Hand

RH
Right Hand

*For application handing see the handing chart on the following page.

7 Operating Voltage

Solenoid
120 VAC
230 VAC

Motor
120 VAC
24 VDC

8 LEK Feature

LEK-1
Case Side

LEK-2
Cover Side

LEK-6
Both Sides

9 Key Cylinder Extension

E3
3" Long

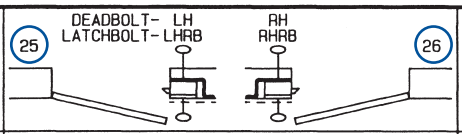
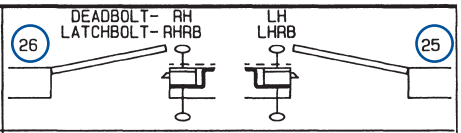
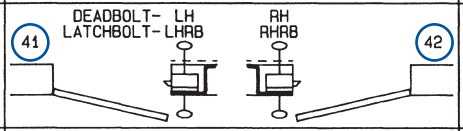
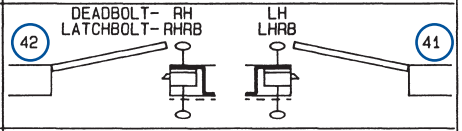
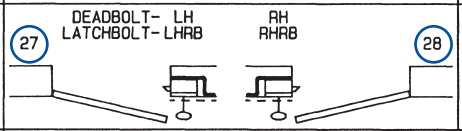
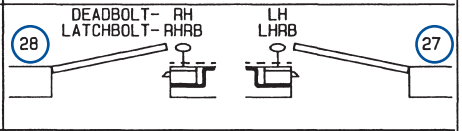
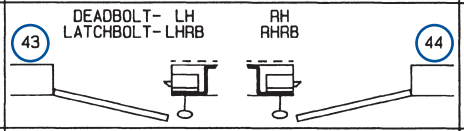
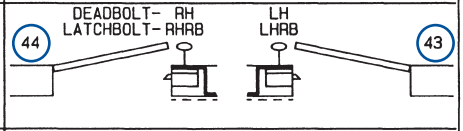
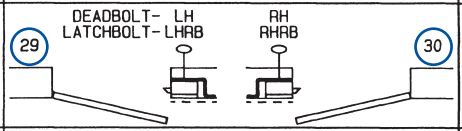
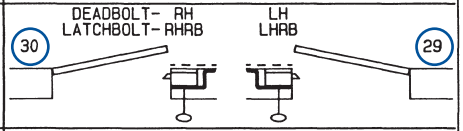
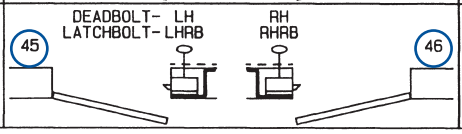
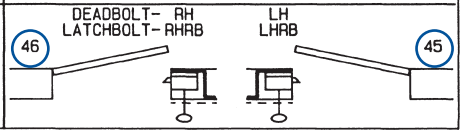
E4
4" Long

E5
5" Long

For more information, please call 210.533.1231.

HOW TO SPECIFY 120 SERIES LOCKS

Specify circled swing number when ordering.

126 LOCK LOCK COVER HINGE SIDE EXTENDED MOUNTING COVER STOP SIDE KEYED BOTH SIDES POCKET COVER PLATE HINGE SIDE		
126 LOCK EXTENDED MOUNTING COVER HINGE SIDE KEYED BOTH SIDES POCKET COVER PLATE STOP SIDE		
122 LOCK LOCK COVER HINGE SIDE EXTENDED MOUNTING COVER STOP SIDE KEYED HINGE SIDE POCKET COVER PLATE HINGE SIDE		
122 LOCK EXTENDED MOUNTING COVER HINGE SIDE KEYED HINGE SIDE POCKET COVER PLATE STOP SIDE		
121 LOCK LOCK COVER HINGE SIDE EXTENDED MOUNTING COVER STOP SIDE KEYED STOP SIDE POCKET COVER PLATE HINGE SIDE		
121 LOCK EXTENDED MOUNTING COVER HINGE SIDE KEYED STOP SIDE POCKET COVER PLATE STOP SIDE		

LEGEND

= INDICATES KEYED SIDE (OR SIDES)

= SYMBOLIZES LOCK POCKET COVER PLATE

= SYMBOLIZES LATCH BOLT
(DEADBOLT NOT SHOWN FOR CLARITY)

= SYMBOLIZES LOCK CASE
DOUBLE LINE SYMBOLIZES FRONT COVER

= THICK LINE SYMBOLIZES REINFORCED STEEL FOR LOCK AND POCKET COVER PLATE MOUNTING

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Key: Builders Hardware
Door: Swinging
Security Level: Minimum/Medium

NS400E

SOLENOID-OPERATED DEADLATCHES

Description

NS400E Series Deadlatches are pin tumbler, solenoid-operated locks for swinging doors. Specify builders hardware cylinders and keying as follows:

NS402E & NS402EFS
Keyed one side

NS406E & NS406EFS
Keyed both sides

Note: See optional features for factory or customer-supplied key cylinders. For models NS400E and NS400EFS, no cylinders are supplied.

Applications

Specify for minimum/medium security swinging cell, corridor or administration areas of institutions with 2" wide hollow metal jamb construction.

Operations

A remote switch is used to control the lock electrically, or it may be operated mechanically by builders hardware cylinder. These locks offer the convenience of remote, electric unlocking or locking and automatic deadlocking when the door is closed.

Fail-Safe Models

Unlock when solenoid is de-energized (1): by switch or power failure, and the latch remains retracted while the door is open. Upon closure, with power restored, the latchbolt extends and deadlocks.

Non-Fail-Safe Models

Unlock when solenoid is energized (1): by a momentary-contact switch. Latchbolt remains retracted mechanically until the door is opened. Upon closure, the latchbolt extends automatically (mechanical latchback).

Unlock when solenoid is energized (2): by a momentary-contact switch. Latchbolt is electrically held retracted only as long as control switch is tripped (no mechanical latchback). The door must be opened while control switch is in the unlocked position. Upon closure, the latchbolt deadlocks automatically. Continuous-duty feature is standard to hold bolt retracted for extended periods (no latchback, continuous-duty power modulator).

Unlock when solenoid is energized (3): by a momentary-contact switch. Latchbolt is held electrically retracted until door is opened, then it extends automatically (electric holdback).

Standards Compliance

- **All deadlatch models UL1034 –** Burglary-resistant electric deadbolts.
- **Non-fail-safe models, UL10B –** Electrically controlled single point locks or latches, three-hour rating, A label.
- ASTM F-1577 Grade 1 Impact

Standard Features

- **Instant solenoid actuation –** Heavy duty solenoid provides fast, audible latchbolt operation.
- **Fail-safe model operation –** Solenoid holds latchbolt extended and deadlocked.
- **Compact size –** Designed for hollow metal frames with standard 2" face.

UL LISTED

- **Power modulator –** Allows solenoid models to operate on either 24VAC or 24VDC - reduces power consumption. UL listed and patented (Pat. No. 4,797,779).
- **Two-piece, twelve-pin plug connector –** Simplifies wiring, allows pre-wiring of the lock opening.
- **Heavy duty lock mechanism –** Designed with heavy duty, corrosion-resistant working parts tested over 1,000,000 cycles.
- **Stainless steel strike –** Angled lip-type, furnished with tamper-resistant screws. Requires less force to close and lock the door.
- **Mechanical latchback (Model NS400E-01) –** Holds latchbolt retracted until door opens. Not available in fail-safe models.
- **Mechanical unlocking by key –** Offers manual control at the door in event of power failure or at any other time.
- **Stainless steel latchbolt –** 3/4" throw, hardened to resist sawing.

For more information, please call 210.533.1231.

Key: Builders Hardware
Door: Swinging
Security Level: Minimum/Medium

NS400E

SOLENOID-OPERATED DEADLATCHES

- **Holdback switch (Models NS400EFS, NS400E with electrical holdback) –** Maintains electrical holdback. Requires a relay in the central control console.
- **Finish –** US32D satin stainless steel.
- **Indication switch –** An internal switch to monitor the positions of the deadlock actuator. Signals deadlocked condition.

Optional Features

- **Builders hardware cylinders –** High security six-pin tumbler cylinder may be specified. Special keying requests will be accommodated, if possible.

NOTE: Customer-supplied key cylinders may be used to adapt NS400 Series locks to a specific keying system. These cylinders must have:
a) 1-5/32" diameter, full bar stock bodies.
b) 1-1/8" length, including cam.
c) Standard, removable Yale-type cam.
Cylinders and all keys should be sent to Southern Folger Detention Equipment Company and are required with cylinder extenders.

- **Local electric key (LEK) –** Inmate key operates lock electrically. Staff keys always operate the lock manually and can operate it electrically. Feature is enabled or canceled from a remote control console.

NOTE: When key cylinders for LEK are supplied by customer, contact factory before ordering or sending cylinders.

- **Inmate push button –** Allows operation of the lock from inside the room or cell. May be canceled from central control console. A double-pole, double-throw switch is available for additional functions.
- **Key cylinder extension –** Required when lock is keyed on the stop side of the door frame. Five standard lengths are offered:

Jamb Size	Cylinder Extension
4-1/2" – 5"	4-3/4"
5" – 6"	5-3/4"
6" – 7"	6-3/4"
7" – 8"	7-3/4"
8" – 9"	8-3/4"

NOTE: Please specify appropriate cylinder extension length when ordering. Special lengths may be provided for other jamb thicknesses. Contact factory for pricing and availability.

- **Finish –** Key Cylinder: US26D

Specifications

- **Lock case –** Investment-cast stainless steel.
- **Latchbolt –** Investment-cast stainless steel hardened.
- **Latchbolt throw –** 3/4"
- **Operating lever –** Stainless steel.
- **Deadbolt lever/trigger bolt –** Investment-cast stainless steel.
- **Strike –** Stainless steel stamping, angled lip.

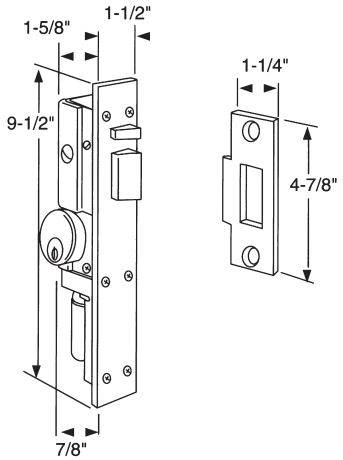
Electrical Characteristics

- **Solenoid –** Tubular, continuous-duty power modulator.
- **Voltage –** 24 VAC or DC, 3.3 amps, 82 watts inrush; .25 amps 6 watts seated.
- **Indication switch –** SPDT, UL listed.
- **Switch rating –** 5 amp @ 125 or 250 VAC.

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

For complete details, see How to Specify in this section.



Feature/Option Chart

MODEL	OPERATION	INDICATION SWITCH	LATCHBACK			OPERATIONAL SWITCH HOLDBACK	LEK OPTION	CONTINUOUS DUTY MODULATOR
			WITH	WITHOUT	ELECTRIC			
NS400E-01	1	•	•				Available	Standard
NS400E-04	2	•		•			Available	Standard
NS400E-07	3	•			•	•	Available	Standard
NS400EFS-04	1	•		•		•	Available	Standard

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Key: Builders Hardware
Door: Swinging
Security Level: Minimum/Medium

NS400M and 400MC
MOTOR-OPERATED DEADLATCHES

Description

NS400M and NS400MC Series Deadlatches are pin tumbler, motor-operated locks for swinging doors. Specify builders hardware cylinders and keying as follows:

NS402M/MC	Keyed one side
NS406M/MC	Keyed both sides

Note: See optional features for factory or customer-supplied key cylinders. For Models NS400M and NS400MC, no cylinders are supplied.

Applications

Specify for minimum/medium security swinging cell, corridor or administration areas of institutions, with 2" wide hollow metal jamb construction.

Operations

A remote switch is used to control the lock electrically, or may be operated mechanically by a builders hardware key cylinder. These locks offer the convenience of remote, electric unlocking or locking and automatic deadlocking when the door is closed.

Motor-Actuated Models

Unlock when the motor is energized (1): by a momentary-contact switch. Latchbolt is held mechanically retracted until the door is opened. It then extends automatically (mechanical latchback).

Two-Position Motor Actuated Models

Lock or unlock when the motor is energized (1): by either a two or three-position maintained-contact switch, or by a three-position, momentary-contact switch. When unlocked by control switch, latchbolt remains retracted by motor position until control switch is set to lock. Latchbolt is held mechanically retracted until the door is opened. It will then extend automatically, if the control switch is set to the lock position (mechanical latchback).

Lock or unlock when the motor is energized (2): by either a two or three-position maintained-contact switch, or a three-position momentary-contact switch. Latchbolt then remains retracted until selected to lock. Opening and closing the door has no effect on the lock (no latchback).

Unlock when the motor is energized (3): by a momentary contact switch. A relock switch energizes the motor to relock once the door is open. On closure, the latchbolt deadlocks automatically (no latchback with relock).

Standards Compliance

- **All deadlatch models, UL1034 –** Burglary-Resistant Mechanisms.
- **All models (except two-position motor actuated), UL10B –** Electrically controlled single point locks or latches, three-hour rating, A label.
- ASTM F-1577 Grade 1 Impact

Standard Features

- **300 lb. rated side load motor operation (Models NS400M, NS400MC) –** Preclude jamming by applying side pressure on the door.
- **Compact size –** Designed for hollow metal frames with standard 2" face.
- **Two-piece, twelve-pin plug connector –** Simplifies wiring, allows pre-wiring of the lock opening.

UL LISTED

- **Heavy-duty lock mechanism –** Designed to complement the high torque motor. Corrosion resistant working parts tested over 1,000,000 cycles.
- **Stainless steel strike –** Angled lip type, furnished with tamper resistant screws. Requires less force to close and lock the door.
- **Mechanical latchback (Models NS400M, NS400MC) –** Holds latchbolt retracted until door opens.
- **Mechanical unlocking by key –** Offers manual control at the door in event of power failure, or at any other time.
- **Stainless steel latchbolt –** 3/4" throw, hardened to resist sawing.
- **Relock switch (Model NS400MC) –** Repositions motor to relock when door is opened.
- **Finish –** Key Cylinder: US32D.

For more information, please call 210.533.1231.

Key: Builders Hardware
Door: Swinging
Security Level: Minimum/Medium

NS400M and 400MC

MOTOR-OPERATED DEADLATCHES

- **Indication switch –** An internal switch to monitor the positions of the deadlock actuator. Signals deadlocked condition.

Optional Features

- **Builders hardware cylinders –** High security six-pin tumbler cylinder may be specified. Special keying requests will be accommodated, if possible.

  Note: Customer supplied key cylinders may be used to adapt NS400 Series locks to a specific keying system. These cylinders must have:
  a. 1-5/32" diameter, full bar stock bodies.
  b. 1-1/8" length, including cam.
  c. Standard, removable Yale-type cam.

  Cylinders and all keys should be sent to Southern Folger Detention Equipment Company and are required with cylinder extenders.

- **Local electric key (LEK) –** Inmate key operates lock electrically. Staff keys always operate the lock manually and can operate it electrically. Feature is enabled or canceled from a remote control console.
- **Inmate push button –** Allows operation of the lock from inside the room or cell. May be canceled from central control console. A double pole, double throw switch is available for additional functions.
- **Key cylinder extension –** Required when lock is keyed on the stop side of the door frame. Five standard lengths are offered:

Jamb Size	Cylinder Extension
4-1/2" – 5"	4-3/4"
5" – 6"	5-3/4"
6" – 7"	6-3/4"
7" – 8"	7-3/4"
8" – 9"	8-3/4"

NOTE: Please specify appropriate cylinder extension length when ordering. Special lengths may be provided for other jamb thicknesses. Contact factory for pricing and availability.

- **Finish –** Key Cylinder: US26D.

Specifications

- **Lock case –** Investment-cast stainless steel.
- **Latchbolt –** Investment-cast stainless steel hardened.
- **Latchbolt throw –** 3/4"
- **Operating lever –** Stainless steel.
- **Deadbolt lever/trigger bolt –** Investment-cast stainless steel.
- **Strike –** Stainless steel stamping, angled lip.

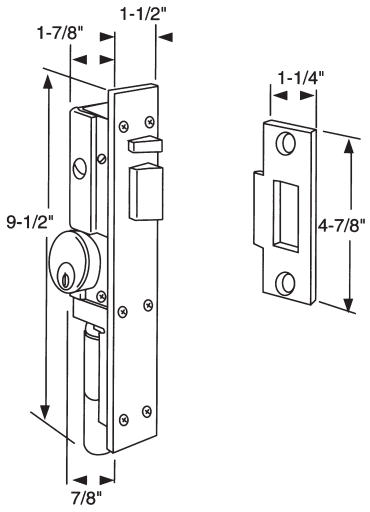
Electrical Characteristics

- **Motor –** High-torque, permanently lubricated, permanent magnet, planetary gearmotor, UL Listed.
- **Voltage –** 24 VDC, operates on 24 VAC via rectifier 0.12 Amps running, 1.29 amps stalled.
- **Indication switch –** SPDT, UL listed.
- **Switch rating –** 5 amp @ 125 or 250 VAC.

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

For complete details, see How to Specify in this section.



Feature/Option Chart

MODEL	OPERATION	INDICATION SWITCH	LATCHBACK		OPERATIONAL SWITCH HOLDBACK	LEK OPTION	CONTINUOUS DUTY MODULATOR
			WITH	WITHOUT			
NS400M-01	1	•	•			Available	No
NS400MC-01	1	•	•			No	No
NS400MC-04	2	•		•		No	No
NS400MC-09	3	•		•	•	Available	No

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Key: Builders Hardware
Door: Swinging
Security Level: Minimum/Medium

NS400MCD

MOTOR-OPERATED DEADBOLTS

Description

NS400MCD is a pin tumbler, two-position motor-operated deadbolt for swinging doors. Specify builders hardware cylinders and keying as follows:

NS402MCD	Keyed one side
NS406MCD	Keyed both sides

Note: See optional features for either factory or customer-supplied key cylinders. Model NS400MCD, no cylinder supplied.

Applications

Specify for minimum/medium security swinging cell or office areas of institutions requiring deadbolt locks for use in 2" wide hollow metal jamb construction.

Operations

Locks or unlocks when motor is energized by either a two or three-position maintained contact switch. Once unlocked, the deadbolt remains retracted until selected to lock. Opening and closing the door have no effect on the lock. Non-fail-safe only. Holdback switch prevents the deadbolt from extending while the door is open. Deadbolt is deadlocked upon closure of the door.

Standards Compliance

- **UL1034 –** Burglary-Resistant Mechanisms.
- ASTM F-1577 Grade 1 Impact

Standard Features

- **300 lb. rated side load motor operation –** Precludes jamming by applying side pressure on the door.
- **Heavy-duty lock mechanism –** Designed to complement the high torque motor. Corrosion-resistant working parts tested over 1,000,000 cycles.
- **Compact size –** Specifically for hollow metal frames with standard 2" face.
- **Two-piece, twelve-pin plug connector –** Simplifies wiring, allows pre-wiring of the lock opening.
- **Stainless steel strike –** Furnished with tamper-resistant screws.
- **Holdback switch –** Does not allow deadbolt to extend while door is open.
- **Mechanical unlocking by key –** Offers manual control at the door in event of power failure, or at any other time.
- **Stainless steel deadbolt –** 3/4" throw, hardened to resist sawing.
- **Faceplate finish –** US32D satin stainless steel.
- **Indication switch –** An internal switch to monitor the positions of the deadlock actuator. Signals deadlocked condition.

Optional Features

- **Builders hardware key cylinders –** High security six-pin tumbler cylinder may be specified. Special keying requests will be accommodated, if possible.

  Note: Customer supplied key cylinders may be used to adapt NS400 Series locks to a specific keying system. These cylinders must have:
  1. 1-5/32" diameter, full bar stock bodies.
  2. 1-1/8" length, including cam.
  3. Standard, removable Yale-type cam.

  Cylinders and all keys should be sent to Southern Folger Detention Equipment Company and are required with cylinder extenders.

UL LISTED

- **Key cylinder extension –** Required when lock is keyed on the stop side of the door frame. Five standard lengths are offered:

Jamb Size	Cylinder Extension
4-1/2" – 5"	4-3/4"
5" – 6"	5-3/4"
6" – 7"	6-3/4"
7" – 8"	7-3/4"
8" – 9"	8-3/4"

Note: Please specify appropriate cylinder extension length when ordering. Special lengths may be provided for other jamb thickness. Contact factory for pricing and availability.

- **Finish –** Key cylinder: US26D.

For more information, please call 210.533.1231.

Key: Builders Hardware
Door: Swinging
Security Level: Minimum/Medium

NS400MCD

MOTOR-OPERATED DEADBOLTS

Specifications

- **Lock case –** Investment-cast stainless steel.
- **Deadbolt –** Investment-cast stainless steel hardened.
- **Deadbolt throw –** 3/4"
- **Deadlock lever/operating lever –** Stainless steel.
- **Strike –** Stainless steel stamping.

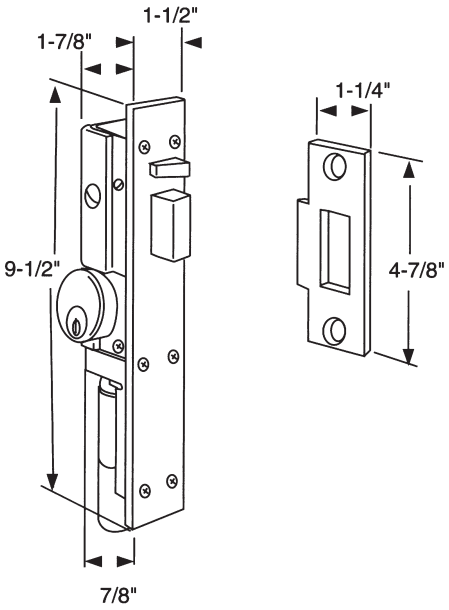
Electrical Characteristics

- **Motor –** High-torque, permanently lubricated, permanent magnet, planetary gearmotor, UL Listed.
- **Voltage –** 24VDC or 24VAC 0.12 running, 1.29 amps stalled.
- **Indication switch –** SPDT, UL listed.
- **Switch rating –** 5 amp @ 125 or 250 VAC.

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

For complete details, see How to Specify in this section.



Feature/Option Chart

MODEL	OPERATION	INDICATION SWITCH	LATCHBACK WITHOUT	LEK OPTION	CONTINUOUS DUTY MODULATOR
NS400MCD-04-01	Standard	•	•	No	No

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HOW TO SPECIFY NS400 SERIES LOCKS

1	2	3	4	5	6	7	8	9	10	11
NS400	E	FS	01	B2	RHRB	24 VAC	LEK	PB-1	US32D	Cyl. Ext. 5-3/4"

1 Keying Location

NS400
No Cylinder

NS402
Keyed 1 Side

NS406
Keyed 2 Sides

2 Basic Models Deadlatches

E
Solenoid

M
Motor

MC
2-Position Motor

Deadbolt MCD
2-Position Motor

3 Mode of Operation
(E Solenoid Only For Fail-Safe)

NFS
Non-Fail-Safe

FS
Fail-Safe

4 Switch Functions

01
Deadlock Indication Switch With Latchback

04
Deadlock Indication Switch No Latchback

07
Deadlock Indication Switch No Latchback Auxiliary Switch For Electric Holdback

09
Deadlock Indication Switch No Latchback Auxiliary Switch For Electric Relock

5 Cylinder Options

BC
Prep For Builders Hardware Cylinder, Customer Supplied

B2
High Security Builders Hardware Cylinder

6 Latchbolt Handing*

RHRB LHRB
RHSB LHSB

Deadbolt Handing
LH
RH

7 Voltage

Solenoid
24 VAC
24 VDC

8 Optional
Local Electric Key

9 Optional
Inmate Push Button

10 Faceplate Finish

Standard
US32D

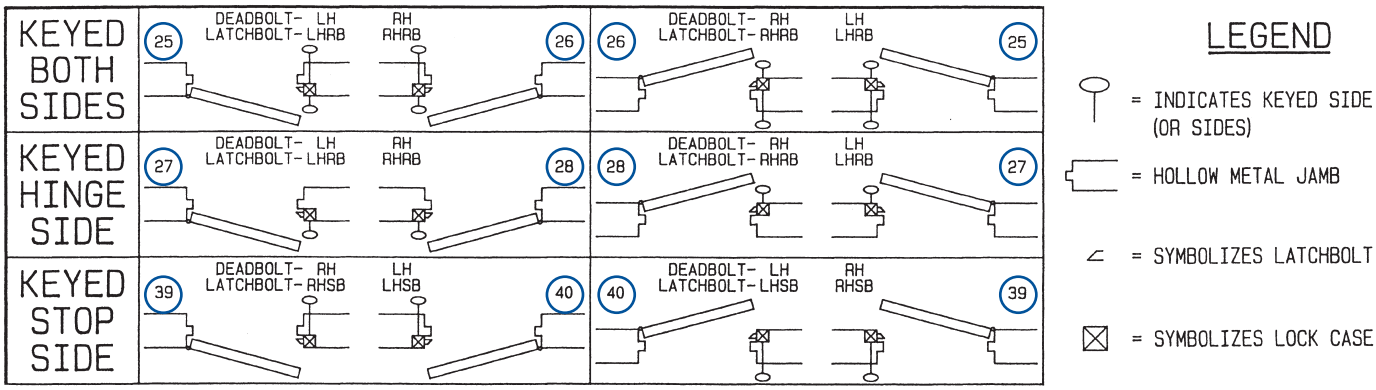
11 Optional
Cylinder Extension Select Standard Offered Length

* For application handing, see the handing chart on the following page.

For more information, please call 210.533.1231.

HOW TO SPECIFY NS400 SERIES LOCKS

Specify circled swing number when ordering.



LEGEND

= INDICATES KEYED SIDE (OR SIDES)

= HOLLOW METAL JAMB

= SYMBOLIZES LATCHBOLT

= SYMBOLIZES LOCK CASE

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Key:	**Prison Paracentric**
Door:	**Swinging/Sliding Fence Gate**
Security Level:	**Maximum**

800 GATE LOCKS

Description

Series 800 Deadlatches are lever tumbler, solenoid operated locks for swinging or sliding chain-link fence gates. Specify keying as follows:

For Swinging Gates:
802ES-L Keyed cover side
806ES-L Keyed both sides

For Sliding Gates:
802ER-L Keyed cover side
806ER-L Keyed both sides

Applications

For use on sliding or swinging chain-link fence gates. Provide automatic deadlocking with flexibility of remote unlocking.

Operation

This lock is electrically operated for unlocking. The deadbolt retracts when solenoid is energized. Once retracted, deadbolt is held electrically retracted until gate is closed. Deadbolt extends automatically in case of power failure. Emergency mechanical operation by paracentric key.

Testing

The 800 Series Electric Gate locks have been electrically tested for over 1,000,000 operating cycles.

Standard Features

- **Solenoid actuated –** 120 VAC, 60hz, continuous-duty type.
- **Unlocking by prison paracentric key** in case of power failure or for local control. When unlocked by key, deadbolt remains retracted until relocked by key.

802ES
Left hand shown.

802ER
Left hand shown.

- **Deadlocks automatically –** When gate is closed.
- **Adjustable mounting and locking tongue –** Fits fence posts between 2" and 8-5/8" diameter; gate posts between 1" and 4-1/4" diameter. See "How to Order" page A34.
- **Push-in type terminal strip –** For easy field wiring.
- **Case and cover –** 7-gauge steel
- **Corrosion resistant working parts**
- **Stainless steel deadbolt –** 3/4" diameter
- **Hardened-steel deadlock lever**
- **Tumbler options –** Choice of five or six tumbler models. Six tumbler model offers greater pick resistance. Tumblers are made of spring-temper brass and activated by heavy, phosphor-bronze springs.
- **One-piece key cylinder –** Investment-cast, bronze alloy with paracentric keyway. (Paracentric, lever tumbler keys must be purchased separately.)
- **Tamper resistant screws for attaching cover.**
- **Finish –** Zinc plated.
- **Mounting hardware –** Supplied with mounting brackets, locking tongue and mounting screws.
- **Indication switch –** A lock status switch monitors the deadbolt and its deadlocked condition.

For more information, please call 210.533.1231.

800 GATE LOCKS

Key: Prison Paracentric
Door: Swinging/Sliding Fence Gate
Security Level: Maximum

Optional Features

- **Solenoid voltage –** 220VAC, 60hz.
- **Auxiliary indication switch –** Specify "ES-LL" or "ER-LL".

Note: When gate is open, the switch actuator for the locking tongue can be manually depressed, giving a false indication that the gate is locked. This can be eliminated by installing a gate position indication switch and wiring it in series with the indication switch in the lock. A "secure" signal can then be produced only after three conditions have been met:

1. Locking tongue switch actuator is depressed;
2. Deadbolt is extended and deadlocked, and
3. Gate is closed.

Note: Electrical interlocking of gates requires special wiring and/or adaptations for control consoles.

How to Order

1. Indicate swing number below.
2. Indicate voltage required.
3. For ES model only, specify outside post dia. for locking tongue requirements.

Specifications

- **Case and cover –** 7 gauge steel.
- **Finish –** Zinc plated.
- **Working parts –** Zinc plated steel.
- **Springs –** Stainless Steel.
- **Deadbolt size –** 3/4" diameter.

Electrical Characteristics

- **Actuator –** Continuous-duty solenoid.
- **Voltage –** 120VAC, 60HZ, 13 amps inrush, .75 amps seated. 220VAC, 60HZ, 6.5 amps inrush, 0.3 amps seated.
- **Indication switch(es) –** SPDT, UL listed.
- **Ratings –** 15 amps @ 125 or 250 VAC.

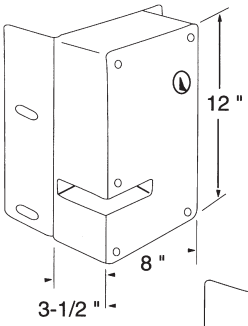
How to Specify

Dimensional Data

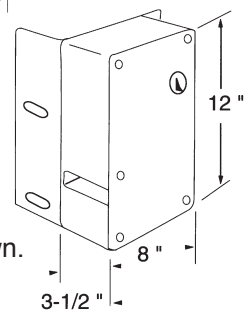
1. Model Number
2. Handing
3. Tumbler (example 802ES-6)
4. Any optional features desired (example 802ES x LH)

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.



802ES
Left hand shown.

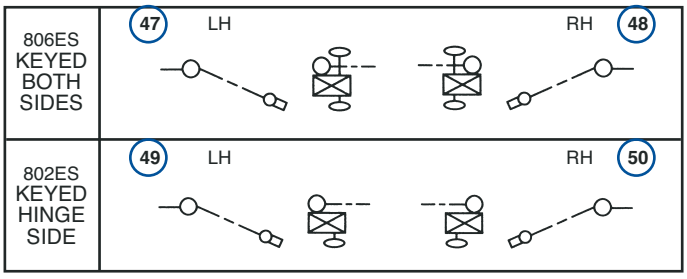


802ER
Left hand shown.

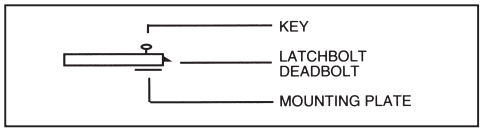
Specify circled swing number when ordering.

800ES Fence Gate Locks

COVER PLATE HINGE SIDE

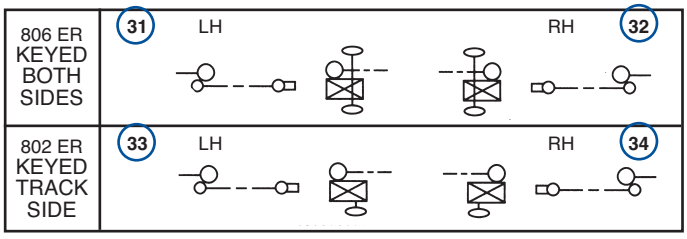


LEGEND



800ER Fence Gate Locks

LOCK COVER PLATE TRACK SIDE



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Web: www.SouthernFolger.com ■ Email: info@southernfolger.com

Key: Mogul
Door: Swinging
Security Level: Minimum/Medium

D9300 ELECTRIC MAXI-MORTISE™

Description

Series D9300 locks are pin tumbler mortise locks with an electrically-controlled knob-lockout function for swinging doors.

Applications

An extra heavy duty mortise lock for use on swinging doors in minimum/medium security cell, or public areas of detention facilities. Available in a deadlocking latchbolt style only.

Operation

Active knob(s) or lever handles may be locked and unlocked from a remote location. Latchbolt is retracted by either the key cylinder or active knob/lever, unless the knob/lever is locked out. Available in fail-safe or non-fail-safe operation with a variety of locking functions.

Models

D9341/D9345 Fail-Safe Operation: Controlled knobs/levers unlock when power is off or in case of power failure.

D9346/D9350 Non-Fail-Safe Operation: Controlled knobs/levers remain locked in case of power failure.

Standards Compliance

UL10B listed as Fire Door Accessory, 4 hour rating.

UL437 Listed Maxi-Mogul® Cylinders.

Tested to over 1,000,000 operations.

Shown without LeverTrak®.

Standard Features

- **Fits ANSI door preparation –** Standardized installation in hollow metal doors modified to accommodate lock body thickness of 1-1/8" and wiring requirements.
- **Door thickness –** Doors must be 1-3/4" to 2-1/2" thick. Specify door thickness.
- **Armored front –** 8" x 1-1/4" steel, 10 gauge.
- **High strength case and cover –** 12-gauge wrought steel, zinc chromated.
- **Corrosion-resistant working parts –** Internal working parts are stainless steel or zinc chromated steel.
- **Durable hubs –** Solid stainless steel construction, on the square.
- **Spindle –** 11/32" cold drawn steel.
- **Latchbolt –** 3/4" throw solid stainless steel.
- **Solenoid-actuated lockout –** 24VDC tubular, continuous-duty solenoid.
- **Latchbolt size –** 11/16" x 1-1/4".
- **Reversible –** Locks are field reversible. Handing should be specified upon ordering.
- **Key cylinder –** Furnished with UL437 listed, high security Maxi-Mogul® Cylinder.
- **Screws –** Tamper-resistant screws.
- **Tamper-resistance –** All bolts, including the auxiliary latchbolt, are fully tunneled to help prevent jamming of the mechanism with foreign material.
- **Strike –** Supplied with curved-lip strike having 1-1/4" lip length, and dust box (see page A38 for details). Buffed stainless steel only.
- **Finish –** US32D.
- **Maxi-Mogul® key cylinder –** Six pin tumbler high security cylinder.

For more information, please call 210.533.1231.

Key: Mogul
Door: Swinging
Security Level: Minimum/Medium

D9300 ELECTRIC MAXI-MORTISE™

Optional Features

- **Strike switch –** Strike-mounted indication switch for electrically monitored systems indicates whether or not the latchbolt is extended into the opening in the strike plate. The switch is supplied with a 16-gauge zinc plated steel housing.
- **Mogul cylinder –** Specify "MO" for keying locks into an existing Mogul system.
- **ASSA or Medeco Mogul cylinders are available**.
- **Indication switches –** For monitoring the position of the deadlock lever or knob/lever lock out. These switches can be used for remote door monitoring to control alarms, indication lights, interlocking, etc.

  Specify "DIS" – Deadlock Indication Switch shows the latchbolt is deadlocked.

  Specify "KLO" – Knob Lock Out shows locking of the active knobs.

Trim Design

Knobs

- **Specify "KR" –** For knob and rose trim with lock.
- **Material –** Stainless steel.
- **Dimensions –** 2-1/4" diameter.
- **Safety knob –** Specify "SK" knob and side installed on.
- **See "How to Order" on page A38.**

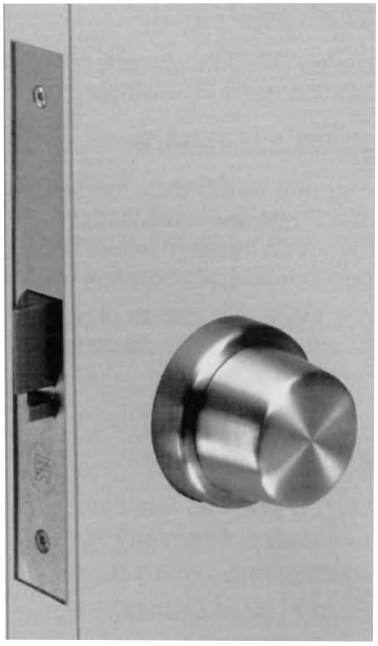
Roses

- **Material –** Stainless steel.
- **Dimensions –** 2-11/16" diameter, concealed trim design.

LeverTrak® Handle Guide Sets

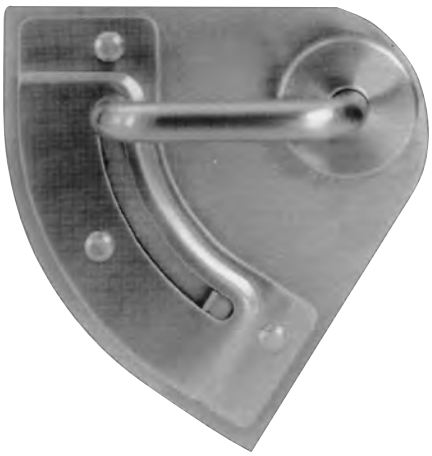
- **LT & LTE –** Handle guides must be specified. The track prevents damage to mortise locks from over-travel of the handle.
- **Material –** Stainless steel.
- Lever handles must be installed with track.

KR – Knob handle and rose



SK – Safety knob (inside)

LT – Lever handles and track set
The "Lemont"



LTE – Lever handles, track set and escutcheon
The "Limited"

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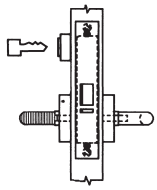
Key: Mogul
Door: Swinging
Security Level: Minimum/Medium

D9300 ELECTRIC MAXI-MORTISE™

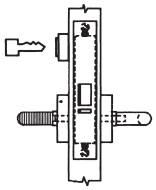
OUTSIDE INSIDE



D9341 – Fail-Safe Deadlatch
- Deadlatch operated by key outside.
- Power locks inside handle – unlocks when power is off.

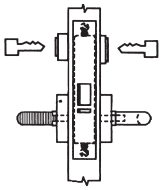
Outside handle is rigid.

OUTSIDE INSIDE



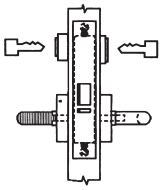
D9346 – Non-Fail-Safe Deadlatch
- Deadlatch operated by key outside.
- Power unlocks inside handle – locks when power is off.

Outside handle is rigid.



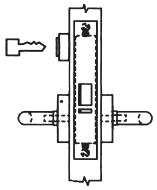
D9342 – Fail-Safe Deadlatch
- Deadlatch operated by key both sides.
- Power locks inside handle – unlocks when power is off.

Outside handle is rigid.

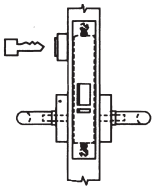


D9347 – Non-Fail-Safe Deadlatch
- Deadlatch operated by key both sides.
- Power unlocks inside handle – locks when power is off.

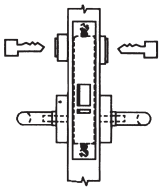
Outside handle is rigid.



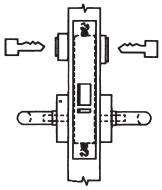
D9343 – Fail-Safe Deadlatch
- Deadlatch operated by key outside.
- Power locks both handles – unlocks when power is off.



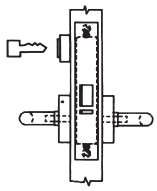
D9348 – Non-Fail-Safe Deadlatch
- Deadlatch operated by key outside.
- Power unlocks both handles – locks when power is off.



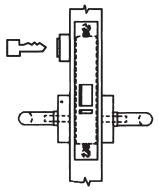
D9344 – Fail-Safe Deadlatch
- Deadlatch operated by key both sides.
- Power locks both handles – unlocks when power is off.



D9349 – Non-Fail-Safe Deadlatch
- Deadlatch operated by key both sides.
- Power unlocks both handles – locks when power is off.



D9345 – Fail-Safe Deadlatch
- Deadlatch operated by key outside.
- Power locks outside handle – unlocks when power is off.
- Inside handle always active.



D9350 – Non-Fail-Safe Deadlatch
- Deadlatch operated by key outside.
- Power unlocks outside handle – locks when power is off.
- Inside handle always active.

For more information, please call 210.533.1231.

Key: Mogul
Door: Swinging
Security Level: Minimum/Medium

D9300 ELECTRIC MAXI-MORTISE™

Cylinder Data

- **Maxi-Mogul® key cylinders –** D9300 Series Mortise Locks are provided with Maxi-Mogul® Key Cylinders, six pin tumbler.
- **Cylinder collar –** An adjustable cylinder collar will be provided to suit the cylinder length and door thickness when both locks and cylinders are ordered. If not specified, rings will be for 1-3/4" thick door.

Keys must be ordered separately.

Maxi-Mogul® Key Cylinder


Maxi-Mogul® Key

Strikes

D9300 Series Locks are supplied with a curved lip strike having a 1-1/4" lip length, for use with doors 1-3/4" to 2" thick. Buffed stainless steel finish only.

- **Strike with indication switch –** For electrical monitoring.
- **Strike box –** Wrought steel, zinc plated, reversible for installation with flat or curved-lip strike.
- **Special lip lengths –** Strikes are installed on the same vertical centerline as the lock. 1-1/4" lip length is standard. 1-1/2" lip length is optional for doors from 2-1/8" to 2-1/2" thick.


918-D-S
Strike switch


918-L ANSI
Latchbolt-only
strike
RH/LHR shown


900-BOX
Dust box

How to Order

Specify

1) **Trim**
   a. KR, Knob and rose set. (Safety knob available, "SK", specify side.)
   b. LT, LeverTrak® Guide with handle and rose.
   c. LTE, LeverTrak® Guide with handle, rose and escutcheon.
2) **Lock model**
   Example: D9350.
3) **Function** (see function descriptions).
4) **Handing** (RH, LH, RHR, LHR).
5) **Cylinder**
   (Maxi-Mogul® is standard.)
   a. With "MO" Mogul Cylinder option.
   b. With "ASSA" or "Medeco" Cylinder option.
6) **Door material/thickness.**
7) **Strike lip length**
   Strikes are installed 3/8" above the vertical centerline of the lock. 1-1/4" lip length is standard. 1-1/2" lip length is optional for doors from 2-1/8" to 2-1/4" maximum thickness.
8) **Lock switch(es)**
   DIS – Deadlock indication.
   KLO – Knob lockout indication.
9) **Strike switch(es)**
   S – Strike (keeper) switch.
10) **Finish**
    Example:
    LT-D9350 LH
    2" HM x 918-LS x US32D.
    The above is a remote unlocking entrance having free egress from the inside.

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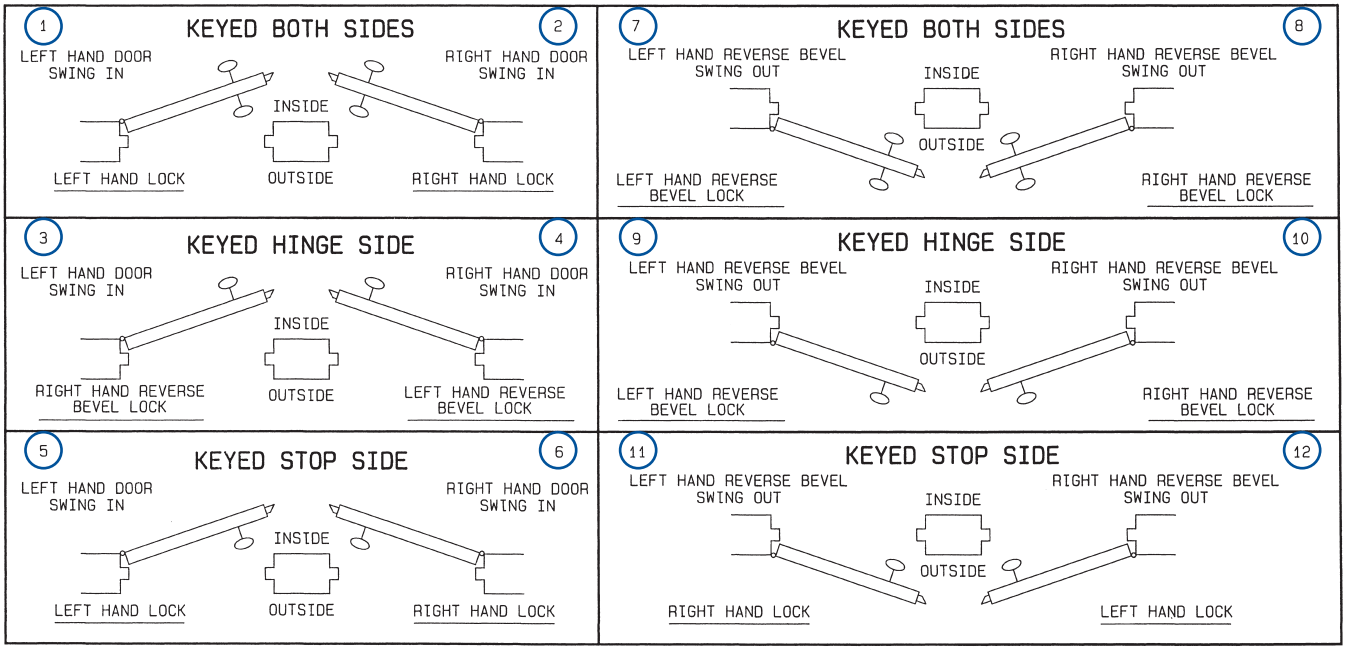
Key: Mogul
Door: Swinging
Security Level: Minimum/Medium

D9300 ELECTRIC MAXI-MORTISE™

Specify circled swing number when ordering.



LEGEND

= INDICATES KEYED SIDE (OR SIDES)

= HOLLOW METAL JAMB

= SYMBOLIZES LATCH BOLT

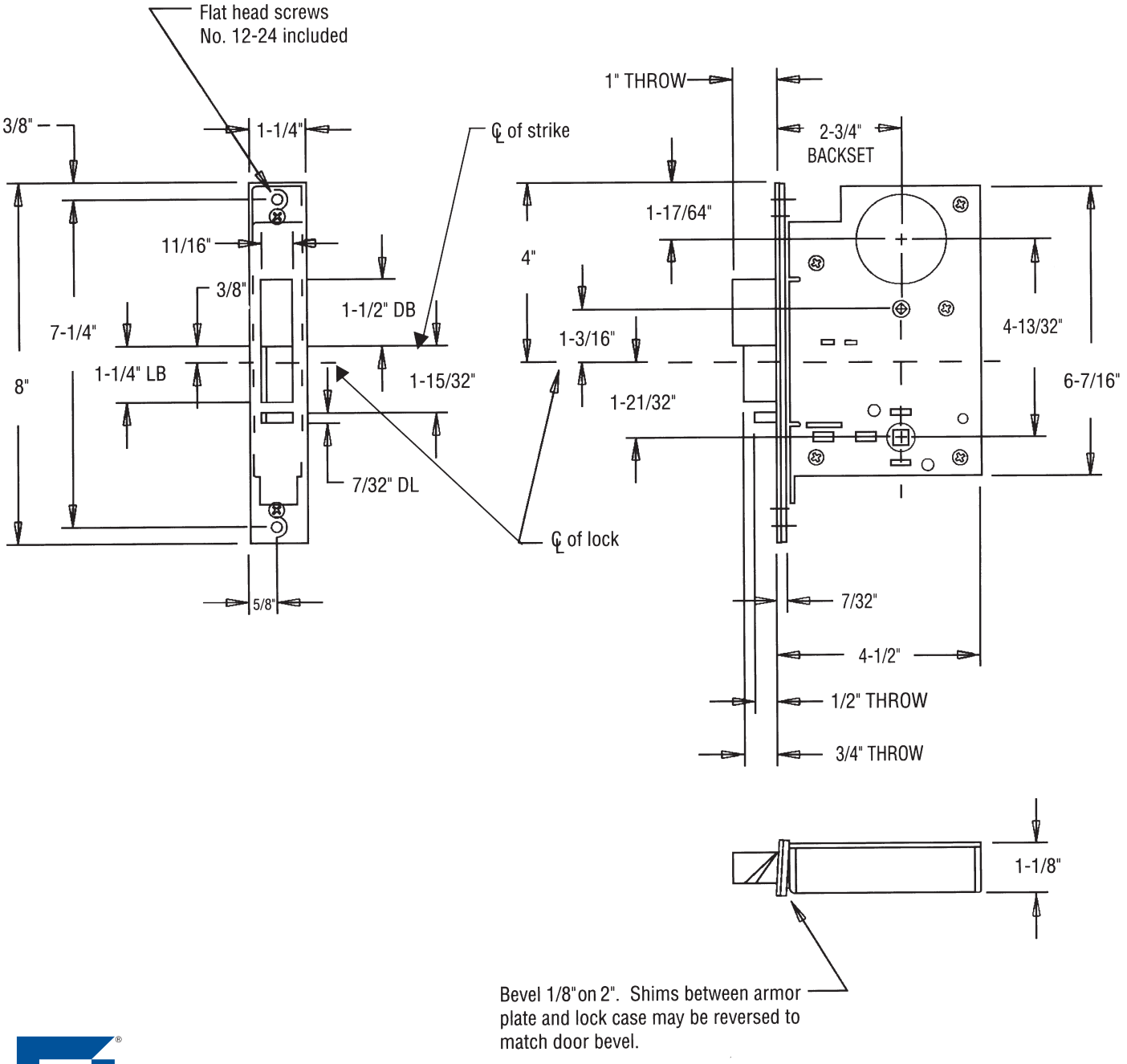
For more information, please call 210.533.1231.

Key: Mogul
Door: Swinging
Security Level: Minimum/Medium

D9300 ELECTRIC MAXI-MORTISE™

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.



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INTRODUCTION

Folger Adam brand pneumatic locks are characterized by superior quality and dependability. Pneumatic locks utilize compressed air power to operate efficiently, economically and safely. Each model offers a wide range of features to allow customized function for specific security requirements.

Qualification of Security Levels

The security level of a lock or other hardware item is determined by its ability to endure in the specific environment in which it is used, the level of supervision within the area where it is installed, and a variety of other factors. The terms minimum, medium and maximum are used to describe the relative relationship of products to one another.

Each lock on the following pages carries a level of security designation or range. These designations are Southern Folger Detention Equipment Company's evaluation of the ability of the product to withstand the rigors probable in that particular security level. Key type, cylinder type, and overall strength and construction of the locks have been considered in reaching the published levels. Because of the number of variables affecting security level, the designations in this catalog should be considered as guidelines only.

Keys

All keys are registered before shipment to allow prompt, accurate response to requests for additional or replacement keys. To ensure the security of your keying system, keys are sold only to properly authorized buyers. Keys are sold separately and are not included in the price of the locks.

Prison Keys

Southern Folger's standard policy does not allow master keying lever tumbler locks. This is done for the protection of the end user.

- Lever tumbler locks have a limited number of usable keying combinations. Master keying reduces the number of combinations to three or four, which drastically limits the change key applications within a facility.
- Master keying lever tumbler locks requires the bypass of four of the five tumblers leaving only one tumbler to resist picking attempts. This would make the remaining usable combinations easy to pick.
- A master keyed lock is more easily picked by an inmate/resident.

Keying Security

Proper use and care of keys helps to maintain overall security.

- Keys should be handled only by staff personnel.
- Keys should be stored in a locked cabinet in the charge of an executive officer.
- Staff personnel should take care, when carrying keys in the performance of daily duties, to conceal the bitted end of the key from view of inmates. Key shields available.
- Keys should never be left in a cylinder or out of reach of the officer.

Doors should be closed and locked after use and locks/keepers checked frequently for tampering or vandalism. Doors left open for extended periods should be subject to lock and bolt keeper inspection to eliminate obstructions which may interfere with proper operation.

Templates

Templates are issued on a job specific basis only. Southern Folger does not issue registered template books. Templates will be issued upon receipt of a valid purchase order and hardware schedule.

Southern Folger reserves the right to modify template information at any time and without prior notice. When a change in templates occurs, material will be shipped in accordance with the templates used for each specific job.

Dimensional drawings in this catalog are not to be used for template information.

Electrical Indication

In systems using custom graphic panels or electronic monitoring consoles, electrical indication is achieved by adding internal switches to the locks. These switches monitor the condition of the lock, indicating its locked or unlocked status. Details on specifying these switches are contained on each product page.

IMPORTANT NOTE: When a door is open, the deadlock actuator of the lock may be manually depressed, giving a false indication that the door is closed and locked. To eliminate this false indication, a door position switch should be installed and wired in series with the indication switches of the lock. Then a "secure" indication may be produced only after three conditions have been met:

1) Deadlock actuator is depressed.

2) Latchbolt is extended.

3) The door is closed.

For more information, please call 210.533.1231.

PNEUMATIC LOCK SELECTION GUIDE AND SECTION INDEX

LOCK TYPE	CYLINDER TYPE	DOOR TYPE	APPLICABLE SERIES	SECURITY LEVEL	PAGE
Deadlatch	Pin tumbler (Builders Hardware Cyl.)	Swinging	NS400P	Min/Med	B5-B6
Deadlatch	Pin tumbler (Mogul Cyl.)	Swinging	120P	Med/Max	B7-B8
Deadlatch	Lever tumbler	Swinging	51P	Maximum	B9-B10

The above is a generalized guideline only. To determine specific models required for your application, refer to product pages for detailed descriptions.

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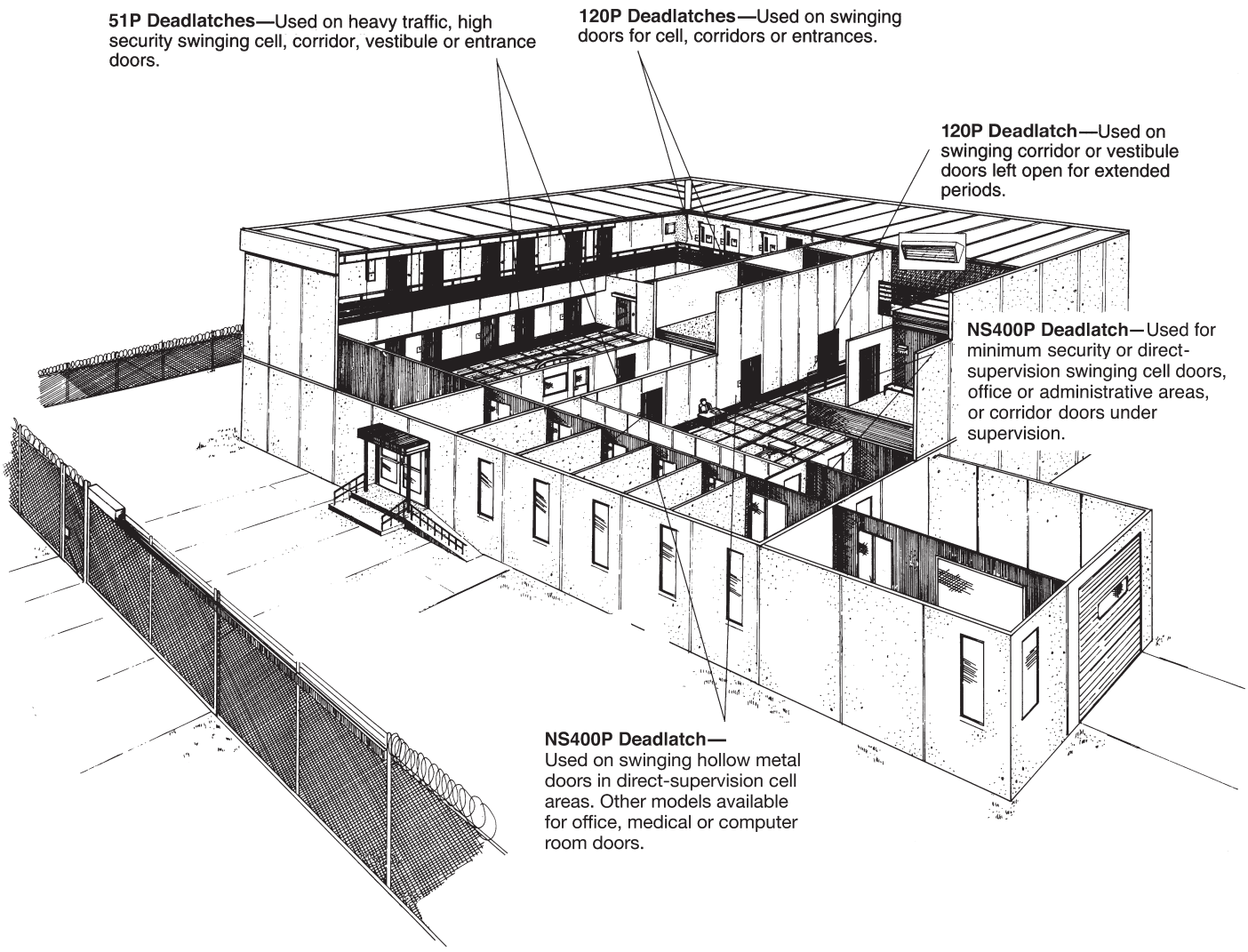
PNEUMATIC LOCK APPLICATION GUIDELINES



IMPORTANT NOTE: The above guidelines are not specific recommendations. The security of a particular door or group of doors depends upon not only hardware employed, but also supervision both direct and indirect. For questions on the application of a particular lock, contact the factory.

For more information, please call 210.533.1231.

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Key: Builders Hardware
Door: Swinging
Security Level: Minimum/Medium

NS400P PNEUMATIC DEADLATCHES

Description

NS400P Series Deadlatches are pin-tumbler, pneumatically-operated locks for swinging doors. Specify builders hardware cylinders and keying as follows:

NS402P Keyed one side
NS406P keyed both sides

(See Optional Features for factory or customer-supplied key cylinders. Model NS400P, no cylinder supplied.)

Applications

Specify for minimum/medium security swinging cell, corridor or administration areas of institutions with 2" wide hollow metal jamb construction.

Operation

A remote switch is used to control the lock pneumatically, or it may be operated mechanically by builders hardware key cylinder. These locks offer the convenience of remote, electric unlocking or locking and automatic deadlocking when the door is closed.

Non-Fail-Safe Models

Unlock when solenoid is energized (1): by a momentary-contact switch. Latchbolt remains retracted mechanically until the door is opened. Upon opening the door the latchbolt extends. The latchbolt is deadlocked mechanically when the door is closed.

Unlock when solenoid is energized (2): by a momentary-contact switch. Latchbolt is electrically held retracted as long as control switch is tripped. (No mechanical latchback). The door must be opened while control switch is in the unlocked position. The latchbolt is deadlocked when the door is closed. A maintained-contact switch will hold the lock unlocked until the switch is released.

Standard Features

- **Instant solenoid actuation –** Instant bolt retraction provided by pneumatic cylinder.
- **Compact size –** Designed for hollow metal frames with standard 2" face.
- **Two-piece, twelve-pin plug connector –** Simplifies wiring, allows pre-wiring of the lock opening.
- **Heavy duty lock mechanism –** Designed with heavy duty, corrosion-resistant working parts tested over 1,000,000 cycles.
- **Stainless steel strike –** Angled lip-type, furnished with tamper-resistant screws. Requires less force to close and lock the door.
- **Mechanical latchback (Model NS400P-01) –** Holds latchbolt retracted until door opens.
- **Mechanical unlocking by key –** Offers manual control at the door in event of power failure or at any other time.
- **Stainless steel latchbolt –** 3/4" throw, hardened to resist sawing.
- **Finish –** US32D.
- **Indication switch –** an internal switch to monitor the positions of the deadlock actuator. Signals deadlocked condition.

Standards Compliance

All deadlatch models are UL1034 Burglary-Resistant Mechanisms.

ASTM F-1577 Grade 1 – Impact.

For more information, please call 210.533.1231.

Key: Builders Hardware
Door: Swinging
Security Level: Minimum/Medium

NS400P PNEUMATIC DEADLATCHES

Optional Features

- **Manual air release system –** Allows for the manual release of door or groups of doors from a remote location. Doors remain unlocked until system is manually reset. Specify MARS.
- **Builders hardware key cylinders –** High security six-pin tumbler cylinder may be specified. Special keying requests will be accommodated, if possible.

  NOTE: Customer-supplied key cylinders may be used to adapt NS400 Series locks to a specific keying system. These cylinders must have:

  a) 1-5/32" diameter, full bar stock bodies.
  b) 1-1/8" length, including cam.
  c) Standard, removable Yale-type cam.

  Cylinders and all keys should be sent to Southern Folger Detention Equipment Company. Required with LEK feature and cylinder extensions.

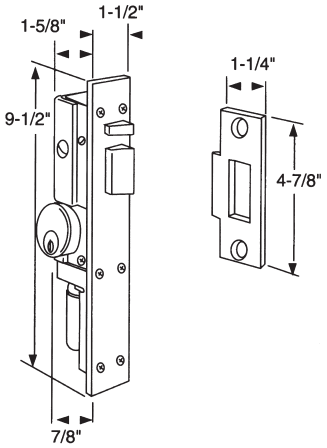
  Customer is responsible for supplying the appropriate spacer ring(s). Any variations from removable, Yale-type cam require special pricing.
- **Local electric key (LEK) –** Inmate key operates lock electrically, staff keys always operate the lock manually, and can operate it electrically. Feature is enabled or canceled from a remote control console.
- **Inmate push button –** Allows operation of the lock from inside the room or cell, may be canceled from central control console. A double-pole, double-throw switch is available for additional functions.
- **Key cylinder extension –** Required when lock is keyed on the stop side of the door frame. Five standard lengths are offered:

Jamb Size	Cylinder Extension
4-1/2" – 5"	4-3/4"
5" – 6"	5-3/4"
6" – 7"	6-3/4"
7" – 8"	7-3/4"
8" – 9"	8-3/4"

  NOTE: Please specify appropriate cylinder extension length when ordering. Special lengths may be provided for other jamb thicknesses. Please contact factory for pricing and availability.
- **Finish –** Key Cylinder: US26D.

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.



Specifications

- **Lock case –** Investment-cast stainless steel.
- **Latchbolt –** Investment-cast stainless steel, hardened.
- **Latchbolt throw –** 3/4".
- **Operating lever –** Stainless steel.
- **Deadbolt lever/trigger bolt –** Investment-cast stainless steel.
- **Strike –** Stainless steel stamping, angled lip.

Electrical Characteristics

- **Pneumatic solenoid voltage –** 24VDC with 1.5 watts power, consumption, self -return type.
- **Indication switch –** SPDT, UL listed.
- **Rating –** 5 amp @ 125 or 250 VAC.

Feature/Option Chart

MODEL NO.	OPERATION DESCRIPTION	INDICATION SWITCH	LATCHBACK		LEK OPTION	MARS
			WITH	WITHOUT		
NS400P-01	1	X	X		Available	Available
NS400P-04	2	X		X	Available	Available

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Key: Mogul
Door: Swinging
Security Level: Medium/Maximum

120P DEADLATCH

Description

120P Series Deadlatches are pin-tumbler, pneumatically-operated locks for swinging doors. Specify keying as follows:

121 Keyed case side
122 Keyed cover side
126 Keyed both sides

Applications

Series 120P Deadlatches are suited for medium or maximum security application including cell doors, sallyport or egress doors, corridor or entrance doors. Sensitive administration areas of an institution may also warrant 120 Series locks.

These jamb-mounted locks are designed to be controlled by an electronic control system and provide monitoring of lock status for optimum protection and flexibility.

Operation

Standard (1): Series 120P locks unlock when the pneumatic solenoid is energized by a momentary-contact switch. Once unlocked, the latchbolt is held mechanically retracted until the door is opened. It then extends automatically.

Without latchback (1a), 04: Once unlocked, the latchbolt is held retracted as long as the pneumatic solenoid is energized. A maintained-contact switch may be used to keep the latchbolt retracted for an extended period of time.

Knob release (2): 120P Deadlatches may be specified with knob release on one side, where the knob is always active. Knob may be mounted on the case side or the cover side.

Key holdback (3): When unlocked by key, the deadlatch remains retracted until relocked by turning the key in the opposite direction. Available one side only.

Testing

120P Series Deadlatches and Maxi-Mogul® Key Cylinders have been tested to 1,000,000 operations.

Standard Features

- **Indication switch –** A lock status switch monitors the latchbolt extension and its deadlocked condition.
- **Pneumatic solenoid voltage –** 24VDC.
- **Superior durability –** Working parts of stainless steel afford greater strength, durability and corrosion-resistance.
- **Standard lock size –** All models use the same size case, cover and mounting holes for simplified installation and frame preparation.
- **External, two-piece plug connector (not shown) –** All models install without cover removal. Simple plug-in connection to field wiring.
- **External air coupler –** Allows air system connection to lock without removing covers.
- **External mounting holes –** Easy installation eliminates the need for cover removal.

Left hand shown.

UL LISTED

- **Standard lock –** Mounts behind frame and does not require a faceplate.
- **1" throw latchbolt –** Offers greater security. Each bolt is hardened to resist sawing. When latchbolt is engaged in strike, bevel is concealed to prevent picking.
- **Mechanical unlocking by keys –** Specify Folger Adam Maxi-Mogul® high-security cylinders.
- **Investment-cast stainless steel strike –** Furnished with four tamper-resistant screws.
- **Finish –** Zinc plated.

Standards Compliance

All Series 120P locks are UL1034 Burglary-Resistant Mechanisms. Maxi-Mogul® key cylinders are UL437 listed.

ASTM F-1577 Grade 1 – Impact.

For more information, please call 210.533.1231.

120P DEADLATCH

Key: Mogul
Door: Swinging
Security Level: Medium/Maximum

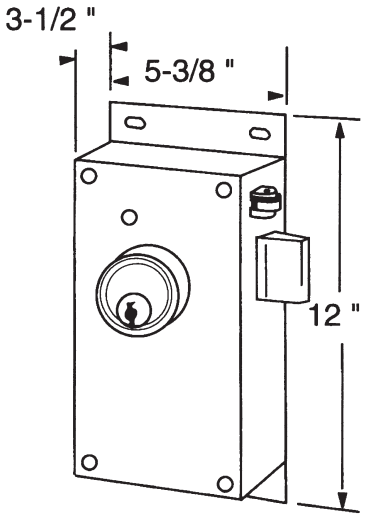
Optional Features

- **Local electric key (LEK) –** A unique function which uses two types of keys for applications where inmates carry their own keys, but supervision is necessary. One key turns in one direction only, and operates the lock electrically. The supervisory key turns in both directions to operate the lock electrically and mechanically. The electric operation may be canceled from a central console or control point at any time via a three-position switch.

  The Maxi-Mogul® Key Cylinder is uniquely suited for this high frequency operation, shown by cycle tests of 1,000,000 operations.
- **Key cylinder extension –** When the lock is keyed on the stop side of the jamb, an extension eliminates the need for a special, recessed frame pocket. Specify E-3 for a 3" extension, E-4 for a 4" extension or E-5 for a 5" extension.
- **Manual air release system –** Allows for the manual release of doors or groups of doors from a remote location. Latchbolt remains retracted until system is manually reset. Specify MARS.
- **ASSA or MEDECO Mogul cylinders –** Are available to match existing.

Dimensional Data

Note: Dimensions are for information and planning purposes only and should not be used as templates.



Specifications

- **Case and cover –** 10 gauge steel.
- **Latchbolt –** Investment-cast stainless steel, hardened 1" throw.
- **Deadlock lever –** Stainless steel, adjustable for door-gap variations.
- **Bolt opening –** Does not allow access to mechanism.
- **Roller bolt –** Investment-cast stainless steel with stainless steel roller.
- **Operating lever –** Stainless steel to operate with solenoid.
- **Strike –** Investment-cast stainless steel, attached with screws in two directions.
- **Springs –** Stainless steel.

Electrical Characteristics

- **Pneumatic solenoid voltage –** 24VDC with 5.4 watts power consumption. 2.4 watts on MARS option.
- **Indication switch –** Deadlock and auxiliary.
- **Rating –** 15 amps @ 125 or 250 VAC.

Feature/Option Chart

MODEL NO.	OPERATION DESCRIPTION	LATCHBACK		INDICATION SWITCH DEADLATCH	LEK OPTION	MARS
		WITH	WITHOUT			
120P-1-01	Standard (1)	X		X	Available	Available
120P-1-04	Standard (1a)		X	X	Available	Available
120P-2-01	Knob Release	X		X	Available	Available
120P-2-04	Knob Release		X	X	Available	Available
120P-3-01	Key Holdback	X		X	No	Available
120P-3-04	Key Holdback		X	X	No	Available

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Key:	**Prison Paracentric**
Door:	**Swinging**
Security Level:	**Maximum**

51P DEADLATCH

Description

Series 51P Deadlatches are lever-tumbler, pneumatically-operated locks for swinging doors. Specify keying as follows:

52P	**Five-tumbler lock, keyed cover side.**
52P-6	**Six-tumbler lock, keyed cover side.**
56P	**Five-tumbler lock, keyed both sides.**
56P-6	**Six-tumbler lock, keyed both sides.**

Applications

51P Deadlatches are designed for jamb-mounted installation, and provide maximum security for heavily-used cell, corridor, or entrance doors. They provide the convenience of slam-locking with remote unlocking.

Operation

Standard (1): When connected to a momentary-contact switch, the latchbolt retracts when the pneumatic solenoid is energized. Once retracted, the latchbolt is held mechanically retracted until the door is opened. The latchbolt extends when the door is open.

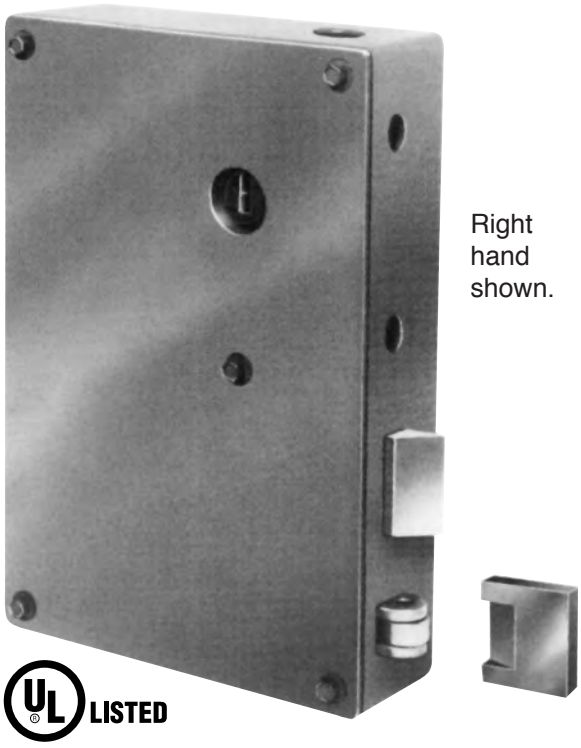
Standard (1a): When connected to a maintained-contact switch, the latchbolt retracts when the pneumatic solenoid is energized. Once retracted, it is held electrically retracted for an extended period of time. The latchbolt extends only when the door is open and the solenoid is de-energized.

No-notch (2): Latchbolt extends when the switch is selected to lock. (No-notch feature, see description on page B10.)

Standards Compliance

All 51P Series Models are UL1034 listed as Burglary-Resistant Mechanisms.

ASTM F-1577
Grade 1 – Impact.



Right hand shown.

UL LISTED

Standard Features

- **Pneumatic solenoid voltage –** 24VDC.
- **Two-piece plug connector –** Simplifies wiring.
- **External air coupler –** Allows air system connection to lock without removing covers.
- **Instant solenoid operation –** Dependable, continuous-duty pneumatic solenoid.
- **Automatic deadlocking –** When the latchbolt is extended, it automatically deadlocks on closure.
- **Full 3/4" bolt throw –** Projects 1/4" when retracted.
- **Mechanical unlocking by key –** During power failure, or any time the lock unlocks by use of prison paracentric key. Latchbolt remains retracted until relocked by key.
- **High security –** 6-tumbler model offers greater pick resistance.
- **Indication switch –** A lock status indication switch which monitors the extension of the latch bolt and the deadlocked condition is included.
- **Rugged construction –** Case and cover are 7 gauge steel.
- **Solid steel latchbolt –** Latchbolt is zinc plated steel, concealed pins resist sawing.
- **Deadlock actuator –** Roller-type, zinc plated steel, adjustable for variations in door-to-jamb clearance.
- **Finish –** Zinc plated.

For more information, please call 210.533.1231.

51P DEADLATCH

Key: Prison Paracentric
Door: Swinging
Security Level: Maximum

Optional Features

- **Bolt projection –** Standard 1/4" when retracted 3/4" bolt throw. Consult factory for other projections.
- **No-notch feature –** The holdback lever has no notch to hold the latchbolt mechanically retracted. The latchbolt extends in the locked position regardless of the position of the door.
- **Interlocking –** Accomplished through the control console.
- **Manual air release system –** Allows for the manual release of doors or groups of doors from a remote location. Latchbolt remains retracted until system is manually reset. Specify MARS.

Specifications

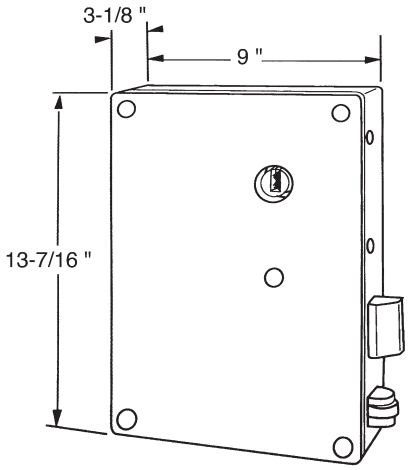
- **Case and cover –** 7 gauge steel.
- **Latchbolt –** Solid steel, with hardened steel roller pins.
- **Deadlock actuator –** Zinc plated steel, roller-type.
- **Lever tumblers –** spring-temper brass, activated by heavy phosphor-bronze springs.
- **Key cylinder –** One-piece, bronze alloy with paracentric keyway.
- **Bolt size –** 2" x 3/4".
- **Bolt throw –** 3/4"

Electrical Characteristics

- **Pneumatic solenoid voltage –** 24VDC with 5.4 watts power consumption; 2.4 watts on MARS option.
- **Indication switch –** SPDT, UL Listed.

Dimensional Data

Note: Dimensions are for information and planning purposes only and should not be used as templates.



How to Specify

OPERATION	KEYING	WITH INDICATION SWITCH	MARS
Standard (1)	One Side	52PL	Available
	Two Sides	56PL	Available
No-Notch (2)	One Side	52PLNN	Available
	Two Sides	56PLNN	Available

NOTE: The above are standard 5-tumbler models. To specify 6-tumbler units, add 6 after the basic model number. **Example: 52P-6-LL**.

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INTRODUCTION

Folger Adam brand mechanical locks are characterized by superior quality and dependability. These locks have been proven by years of use in prisons, jails and detention facilities throughout the world. Each model offers specific features to allow customized function for specific security requirements.

Qualification of Security Levels

The security level of a lock or other hardware item is determined by its ability to endure in the specific environment in which it is used, the level of supervision within the area where it is installed, and a variety of other factors. The terms minimum, medium and maximum are used to describe the relative relationship of products to one another.

Each lock on the following pages carries a level of security designation or range. These designations are Southern Folger Detention Equipment Company's evaluation of the ability of the product to withstand the rigors probable in that particular security level. Key type, cylinder type, and overall strength and construction of the locks have been considered in reaching the published levels. Because of the number of variables affecting security level, the designations in this catalog should be considered as guidelines only.

Keys

All paracentric and Mogul keys are registered before shipment to allow prompt, accurate response to requests for additional or replacement keys. To ensure the security of your keying system, keys are sold only to properly authorized buyers. Keys are sold separately and are not included in the price of the locks.

Prison Keys

Southern Folger's standard policy does not allow master keying lever tumbler locks. This is done for the protection of the end user.

- Lever tumbler locks have a limited number of usable keying combinations. Master keying reduces the number of combinations to three or four, which drastically limits the change key applications within a facility.
- Master keying lever tumbler locks requires the bypass of four of the five tumblers leaving only one tumbler to resist picking attempts. This would make the remaining usable combinations easy to pick.
- A master keyed lock is more easily picked by an inmate/resident.

Keying Security

Proper use and care of keys helps to maintain overall security.

- Keys should be handled only by staff personnel.
- Keys should be stored in a locked cabinet in the charge of an executive officer.
- Staff personnel should take care, when carrying keys in the performance of daily duties, to conceal the bitted end of the key from view of inmates. Key shields available.
- Keys should never be left in a cylinder or out of reach of the officer.

Doors should be closed and locked after use and locks/keepers checked frequently for tampering or vandalism. Doors left open for extended periods should be subject to lock and bolt keeper inspection to eliminate obstructions which may interfere with proper operation.

Templates

Templates are issued on job specific basis only. Southern Folger does not issue registered template books. Templates will be issued upon receipt of a valid purchase order and hardware schedule.

Southern Folger reserves the right to modify template information at any time and without prior notice. When a change in templates occurs, material will be shipped in accordance with the templates used for each specific job.

Dimensional drawings in this catalog are not to be used for template information.

Electrical Indication

Mechanical locks can provide indication in systems using custom graphic panels or electronic monitoring consoles. This is accomplished by the addition of optional indication switches located behind the keeper or strike plate. This switch will indicate the locked or unlocked condition of the door.

IMPORTANT NOTE: When a door is open, the switch may be depressed manually, giving a false indication that the door is closed and locked. To eliminate this false indication, a door position switch should be installed and wired in series with the indication switch. Then a "secure" indication may be produced only after three conditions have been met:

1) Indication switch button is depressed.

2) Latchbolt is extended.

3) The door is closed.

For more information, please call 210.533.1231.

MECHANICAL LOCK SELECTION GUIDE AND SECTION INDEX

LOCK TYPE	CYLINDER TYPE	DOOR TYPE	APPLICABLE SERIES	SECURITY LEVEL	PAGE
Deadlocks	Lever tumbler	Swinging	10	Maximum	C5-C6
			80	Maximum	C7-C8
			FGM-80	Maximum	C9-C10
		Sliding	30D	Maximum	C11-C12
Deadlatches	Lever tumbler	Sliding	30	Maximum	C11-C12
		Swinging	70	Maximum	C13-C14
			60/60K	Maximum	C15-C16
Latches	Lever tumbler	Swinging	15	Medium	C17
			17	Medium	C19
	Pin tumbler		17-M	Medium	C20
Lock Mountings					C21-C22
Cremone Sets	Lever tumbler	Swinging	3600, 3800	Maximum	C23-C25
Keeper Switches	N/A	Swinging or Sliding		Maximum	C27
Mortise Deadlatches	Pin tumbler	Swinging	D9300	Min/Medium	C29-C36
			A9300	Min/Medium	C37-C46

The above is a generalized guideline only. To determine specific models required for your application, refer to product pages for detailed descriptions.

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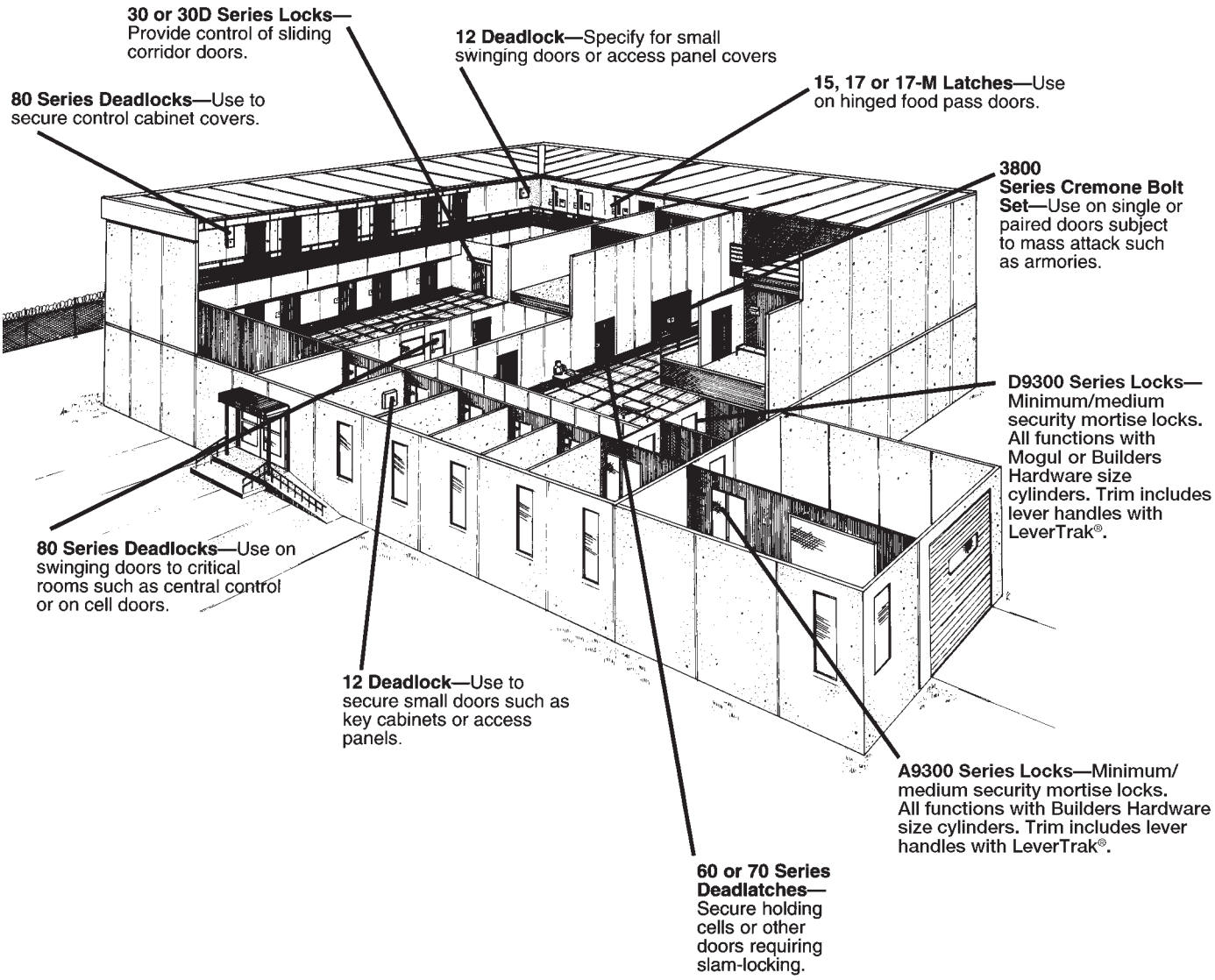
MECHANICAL LOCK APPLICATION GUIDELINES



IMPORTANT NOTE: The above guidelines are not specific recommendations. The security of a particular door or group of doors depends upon not only hardware employed, but also supervision both direct and indirect. For questions on the application of a particular lock, contact the factory.

For more information, please call 210.533.1231.

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Key:	**Prison Paracentric**
Door:	**Swinging**
Security Level:	**Maximum**

10 DEADLOCK

Right hand shown.

Description

Series 10 Deadlocks are lever tumbler, mechanical locks for swinging doors. Specify keying as follows:

12 Five tumbler model, keyed cover side

12-6 Six tumbler model, keyed cover side

16 Five tumbler model, keyed both sides

16-6 Six tumbler model, keyed both sides

Applications

Series 10 Deadlocks are designed for use on small swinging doors such as access panels, plumbing spaces, electric panels or hatches which are infrequently used. They are not intended for use on cell doors. Specify handing when ordering.

Standard Features

- **Mechanical operation –** Locks and unlocks by key. For key removal in locked position only, specify a single wing escutcheon on lock mounting or access door.
- **Durable case –** Ductile iron case, 1/4" thick steel cover.
- **Corrosion resistance –** Working parts are corrosion resistant.
- **Heavy-duty lever tumblers –** Spring-temper brass tumblers, activated by heavy phosphor bronze springs. Precision fit to locking fence.
- **Large, solid deadbolt –** Zinc plated steel, 1-1/2" x 3/4".
- **Bolt throw –** 5/8".
- **Bolt projection –** 1/2" or 1-1/4" standard.
- **Investment-cast key cylinder –** One-piece bronze alloy with paracentric keyway.
- **Finish –** Zinc plated.

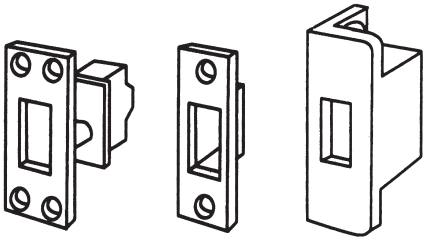
Optional Features

- **High security –** Six tumbler model offers greater pick resistance.
- **Mounting –** Hollow metal or plate mounting.

Accessories

(must be specified separately)

- **10-4B –** Mortise Keeper and mounting screws.
- **10-4BL –** Mortise Keeper Switch with mounting screws.
- **10-4DB –** Mortise Keeper with dustbox and mounting screws.
- **10-4F –** Surface Keeper and mounting screws.



10-4BL **10-4DB** **10-4F**

For more information, please call 210.533.1231.

10 DEADLOCK

Key: Prison Paracentric
Door: Swinging
Security Level: Maximum

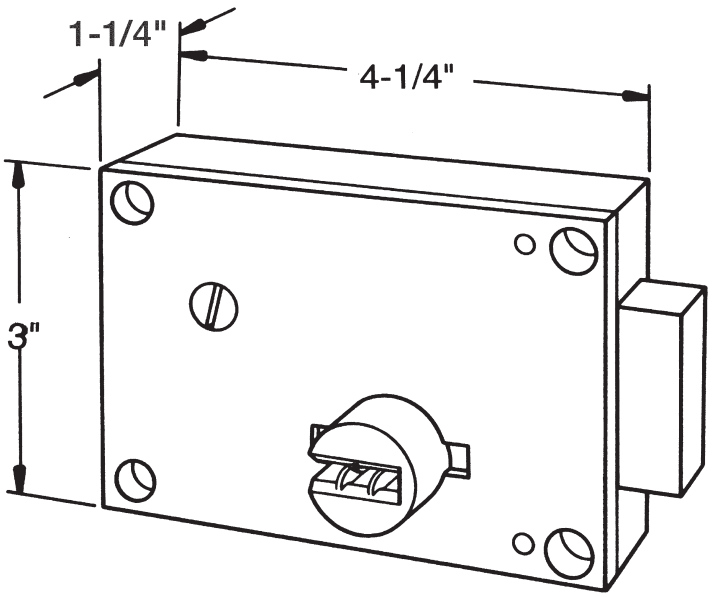
How to Order

Specify:

1) Quantity
2) Handing
3) Bolt projection.
4) Mounting required.
5) Key code instructions.
6) Optional features/accessories required.

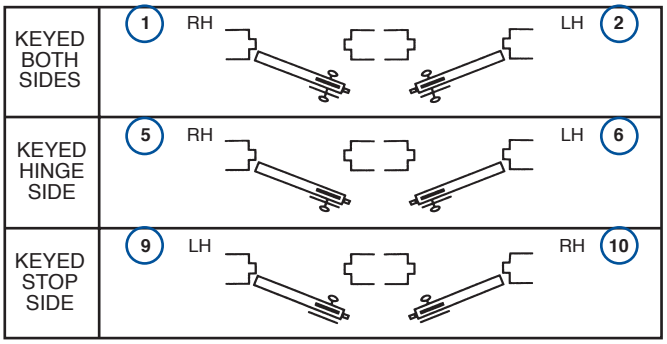
Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

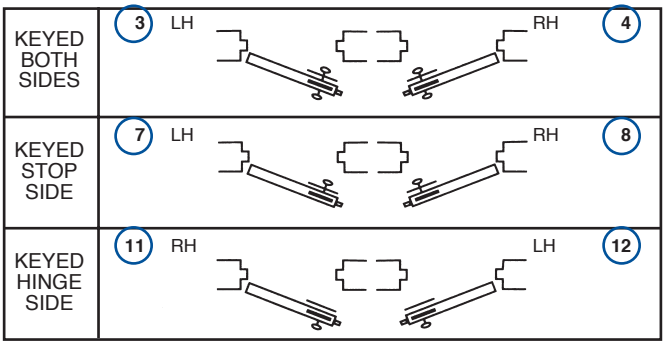


Specify circled swing number when ordering.

MOUNTING PLATE HINGE SIDE

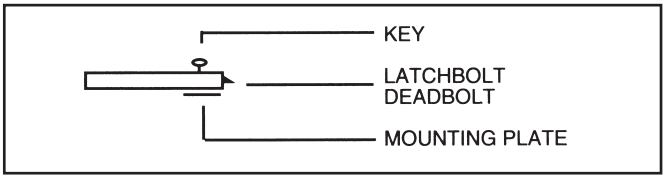


MOUNTING PLATE STOP SIDE



1-1/4" projection required with stop-side mounting.

LEGEND



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Key:	**Prison Paracentric**
Door:	**Swinging**
Security Level:	**Maximum**

80 DEADLOCK

Right hand shown.

Description

Series 80 Deadlocks are lever tumbler, mechanical locks for swinging doors.

82 Five tumbler model, keyed cover side

82-6 Six tumbler model, keyed cover side

86 Five tumbler model, keyed both sides

86-6 Six tumbler model, keyed both sides

Applications

Series 80 Deadlocks are designed for use on cell doors, corridor doors, dormitory doors and dayrooms. They are also suited for storage rooms or large control cabinets. Specify handing when ordering.

Standard Features

- **Mechanical operation –** Locks and unlocks by key. For key removal in locked position only, specify a single wing escutcheon on lock mounting or access door.
- **Durable case –** Ductile iron case, 3/8" thick steel cover.
- **Corrosion resistance –** Working parts are corrosion resistant.
- **Heavy-duty lever tumblers –** Spring temper brass activated by heavy phosphor bronze springs. Precision fit to locking fence.
- **Large, solid deadbolt –** Zinc plated steel with three hardened steel roller pins to resist sawing, 2" x 3/4". Projects 1/2" when retracted.
- **Bolt throw –** 3/4"
- **Bolt projection –** 1/2" or 1-1/4" standard.
- **Investment-cast key cylinder –** One-piece, bronze alloy with paracentric keyway.
- **Finish –** Zinc plated for corrosion resistance.

Standards Compliance

ASTM F-1450 Grade 1

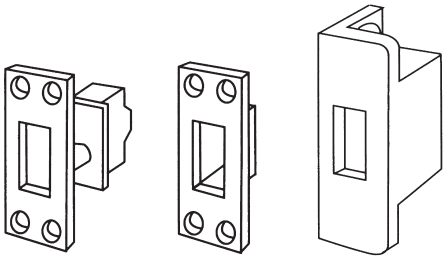
Optional Features

- **High security –** Six-tumbler model offers greater pick resistance.
- **Mounting –** Hollow metal, plate or grille mounting.

Accessories

(must be specified separately)

- **80-4B –** Mortise keeper and mounting screws.
- **80-4BL –** Mortise keeper with switch and mounting screws.
- **80-4DB –** Mortise keeper with dustbox and mounting screws.
- **80-4F –** Surface mounted keeper and mounting screws.



80-4BL 80-4DB 80-4F

For more information, please call 210.533.1231.

80 DEADLOCK

Key: Prison Paracentric
Door: Swinging
Security Level: Maximum

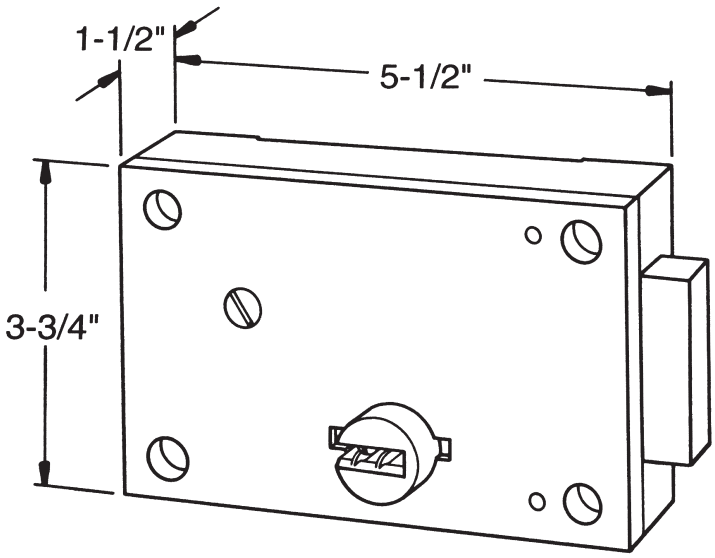
How to Order

Specify:

1) Quantity
2) Handing
3) Bolt projection.
4) Mounting required.
5) Key code instructions.
6) Optional features/accessories required.

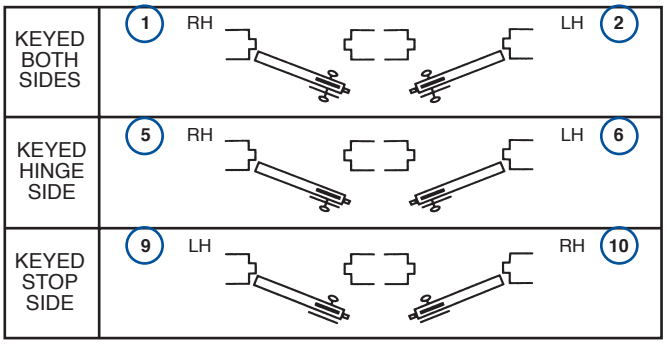
Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

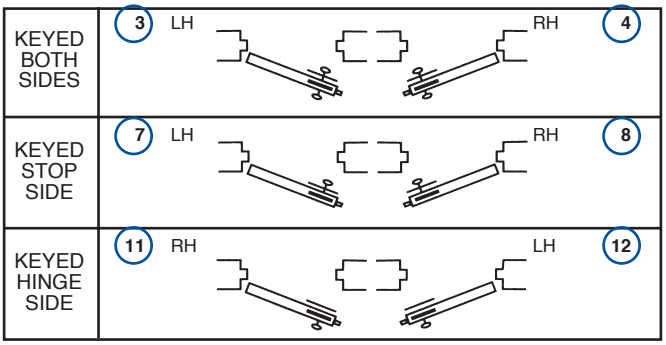


Specify circled swing number when ordering.

MOUNTING PLATE HINGE SIDE

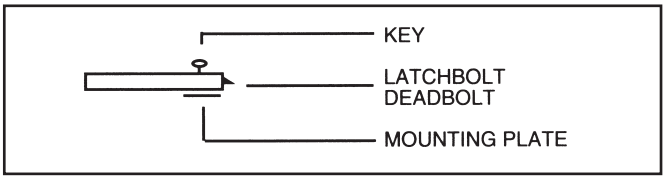


MOUNTING PLATE STOP SIDE



1-1/4" projection required with stop-side mounting.

LEGEND



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Key:	**Prison Paracentric**
Door:	**Swinging Fence Gate**
Security Level:	**Maximum**

FGM-80
Fence Gate Lock/Mounting

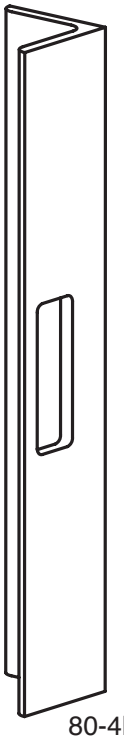
Description

Model FGM-80 Deadlock is a lever tumbler, 80 Series mechanical lock for swinging chain link fence gates. Specify keying as follows:

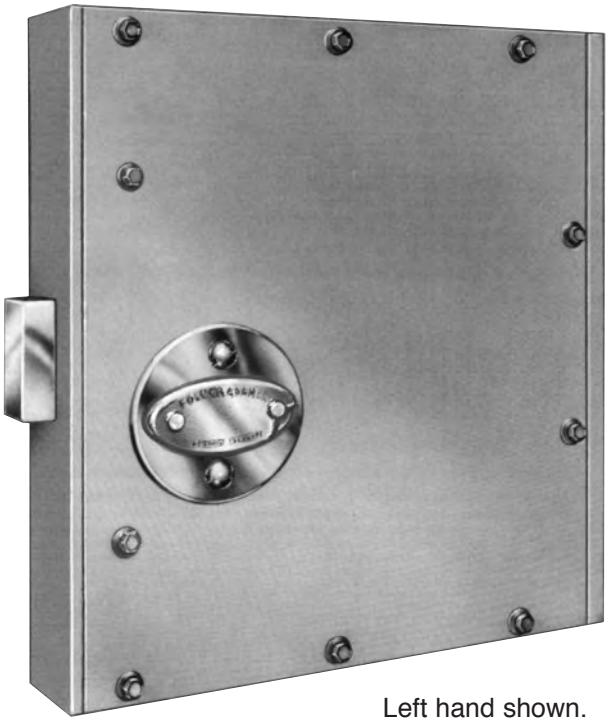
FGM-82	Five tumbler model keyed cover side
FGM-82-6	Six tumbler model, keyed cover side
FGM-86	Five tumbler model, keyed both sides
FGM-86-6	Six tumbler model, keyed both sides

Applications

FGM-80 Deadlocks are designed for use in outdoor applications to secure swinging fence gates. Specify handing when ordering.



80-4H



Left hand shown.

Standard Features

- **Mechanical operation –** Locks and unlocks by key. For key removal in locked position only, specify single wing escutcheon.
- **Durable construction –** Ductile iron case, 3/8" thick steel cover.
- **Tamper resistant mounting –** Formed from 7 gauge steel with break-off-head security screws.
- **Corrosion resistance –** Working parts are corrosion resistant.
- **Heavy duty lever tumblers –** Spring-temper brass, activated by heavy phosphor bronze springs. Precision fit to the locking fence.
- **Large, solid deadbolt –** Zinc plated steel, 2" x 3/4" with three hardened steel roller pins to resist sawing. Bolt is flush with mounting when retracted.
- **Bolt throw –** 3/4"
- **Investment-cast key cylinder –** One-piece, bronze alloy with paracentric keyway.
- **Finish –** All exposed lock components and mounting hardware zinc plated for exterior application.
- **Supplied –** With front bar and cylinder shield one or both sides, and zinc plating.

Accessories

(must be specified separately)

- **80-4H –** Fence gate lock keeper, zinc plated finish.
- **Pull(s) –** #2 Pulls may be added to one or both sides of the mounting.

For more information, please call 210.533.1231.

Key: Prison Paracentric
Door: Swinging Fence Gate
Security Level: Maximum

FGM-80
Fence Gate Lock/Mounting

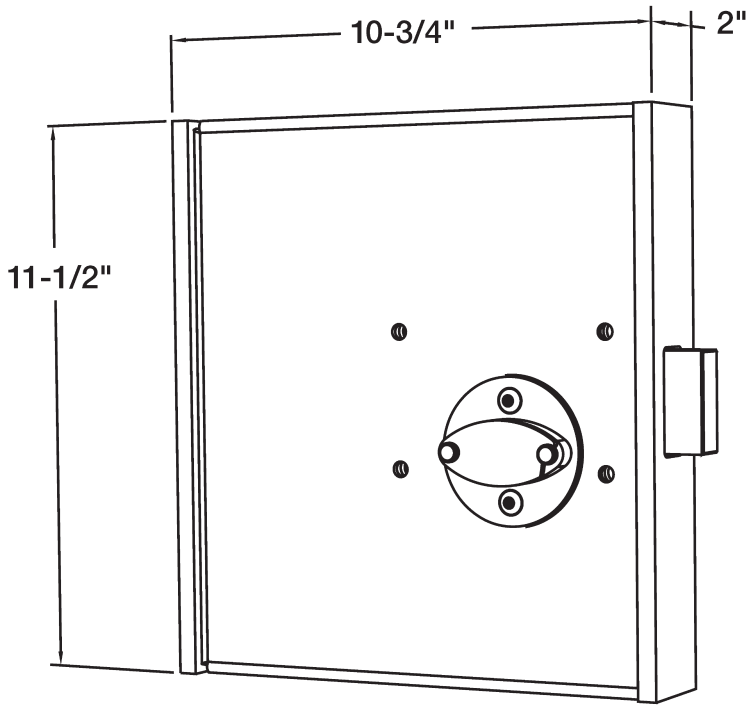
How to Order

Specify:

1) Quantity
2) Handing
3) Key code instructions.
4) Optional features/accessories required.

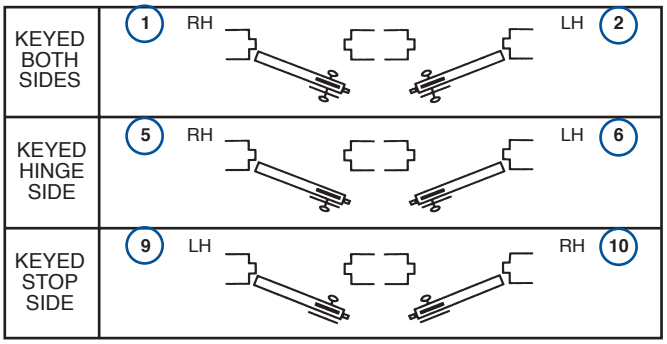
Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

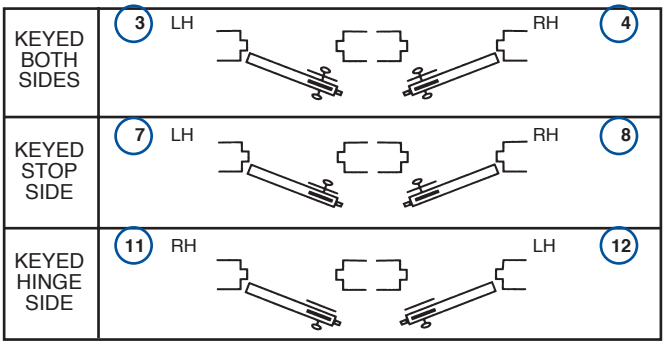


Specify circled swing number when ordering.

MOUNTING PLATE HINGE SIDE

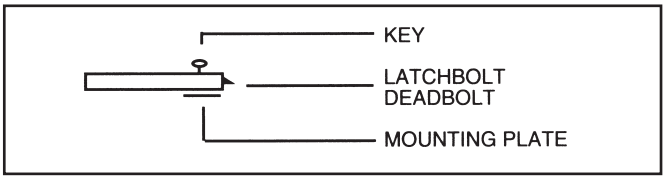


MOUNTING PLATE STOP SIDE



1-1/4" projection required with stop-side mounting.

LEGEND



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Key:	**Prison Paracentric**
Door:	**Sliding**
Security Level:	**Maximum**

30/30D LOCKS

Description

Series 30 locks are Deadlatches. Series 30D Deadlocks are lever tumbler, mechanical locks for sliding doors. Specify keying as follows:

32 Keyed cover side

36 Keyed both sides

32D Keyed cover side

36D Keyed both sides

Applications

Series 30 Deadlatches are recommended for sliding doors requiring slam-locking, such as corridor or entrance doors. Doors should never be left unattended in open position. Not for use on cells. Specify handing.

Series 30D Deadlocks are recommended for use on sliding cell, corridor or entrance doors. Ideal for doors left open or unattended at times.

Standard Features

- **Automatic deadlocking (Series 30) –** Deadlocks on door closure, unlocks by key. Key is removable in the latch position only.
- **Mechanical operation (Series 30D) –** Deadlocks and unlocks by key. Key is removable in both locked and unlocked condition.
- **Durable case –** Ductile iron case with 3/16" thick steel cover.
- **Corrosion resistance –** Working parts are corrosion resistant.

30 Series Deadlatch
Right hand shown.

30D Series Deadlock
Right hand shown.

- **Heavy-duty lever tumblers –** 5 spring-temper brass tumblers, activated by heavy phosphor-bronze springs. Precision fit to locking fence.
- **Large, solid hookbolt –** Zinc plated, hardened steel, 1/2" thick.
- **Bolt movement –** 5/8" lift.
- **Investment-cast key cylinder –** One-piece bronze alloy with paracentric keyway.
- **Finish –** Zinc plated.

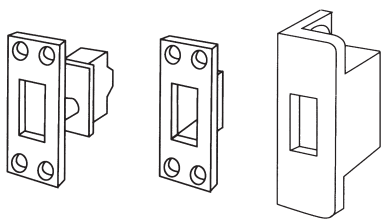
Optional Features

- **Mounting –** Hollow metal, grille or plate door mounting.

Accessories

(must be specified separately)

- **30-4B –** Mortise keeper with mounting screws.
- **30-4BL –** Mortise keeper with switch and mounting screws.
- **30-4DB –** Mortise keeper with dustbox and mounting screws.
- **30-4F –** Surface mounted keeper and mounting screws.



30-4BL 30-4DB 30-4F

For more information, please call 210.533.1231.

30/30D LOCKS

Key: Prison Paracentric
Door: Sliding
Security Level: Maximum

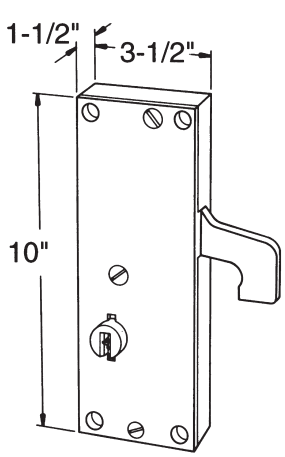
How to Order

Specify:

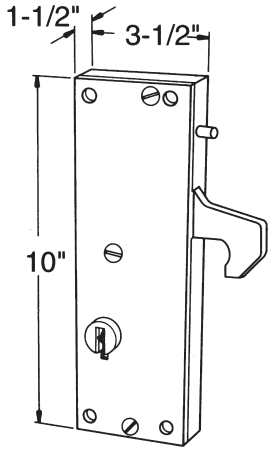
1) Quantity
2) Handing
3) Mounting required.
4) Key code instructions.
5) Accessories required.

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.



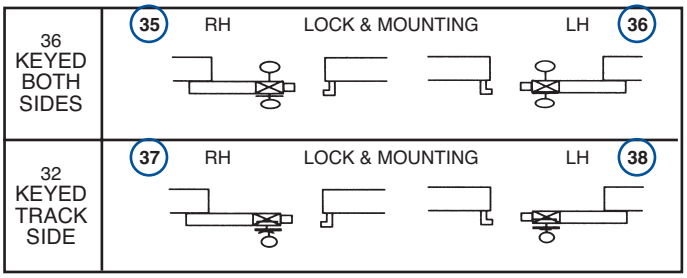
30D Deadlock



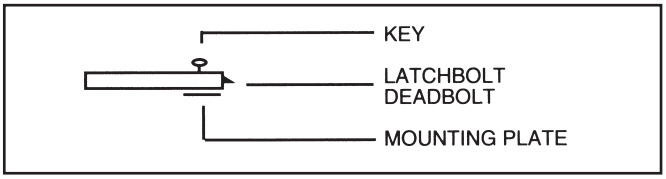
30 Deadlatch

Specify circled swing number when ordering.

LOCK MOUNTING TRACK SIDE



LEGEND



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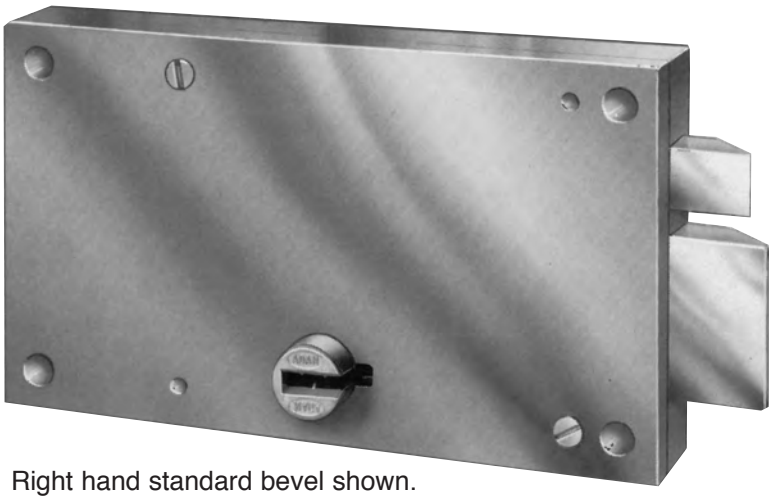
Key:	**Prison Paracentric**
Door:	**Swinging**
Security Level:	**Maximum**

70 DEADLATCH



Right hand standard bevel shown.

UL LISTED

Description

Series 70 Locks are lever tumbler mechanical locks for swinging doors. Specify keying as follows:

72 Keyed cover side

76 Keyed both sides

Applications

Series 70 Deadlatches are recommended for heavily used doors such as those in dayrooms, recreation areas or dining rooms. Convenient slam-locking. Specify handing.

Standards Compliance

UL10-B listed as Fire Door Accessory, 3-hour rating with strike.

Standard Features

- **Automatic deadlocking –** Locks when door is closed; unlocks by key.
- **Deadlock actuator –** 3/4" x 3/4" cold drawn steel with zinc plated finish.
- **Durable case –** Ductile iron case with 3/8" steel cover.
- **Corrosion-resistance –** Working parts are corrosion-resistant.
- **Heavy duty lever tumblers –** 5 spring-temper brass tumblers, activated by heavy phosphor-bronze springs. Precision fit to locking fence.
- **Large, solid latchbolt –** Zinc plated steel, 2" x 3/4" with two hardened steel roller pins to resist sawing. Bolt projects 1/2" when retracted.
- **Bolt throw –** 3/4"
- **Bolt projection –** 1/2" and 1-1/4" are standard. Specify one.
- **Investment-cast key cylinder –** One-piece bronze alloy with paracentric keyway.
- **Finish –** Zinc plated.

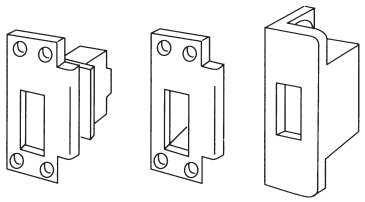
Optional Features

- **Mounting –** Hollow metal, grille or plate.

Accessories

(must be specified separately)

- **70-4B –** Mortise strike with mounting screws.
- **70-4BL –** Mortise strike with switch/mounting screws.
- **70-4DB –** Mortise strike with dust box and mounting screws.
- **70-4F –** Surface-mounted keeper and mounting screws.



70-4BL 70-4DB 70-4F

For more information, please call 210.533.1231.

70 DEADLATCH

Key: Prison Paracentric
Door: Swinging
Security Level: Maximum

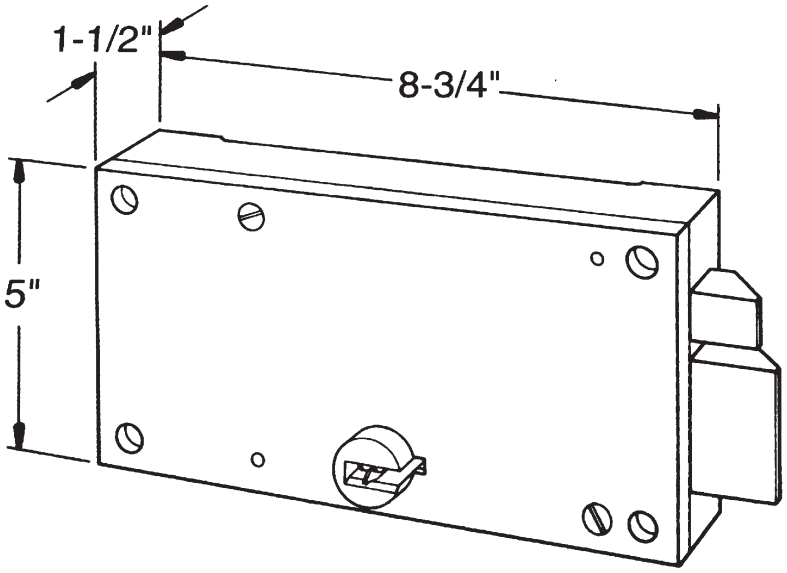
How to Order

Specify:

1) Quantity
2) Handing
3) Bolt projection.
4) Mounting required.
5) Key code instructions.
6) Accessories required.

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.



Specify circled swing number when ordering.

MOUNTING PLATE HINGE SIDE

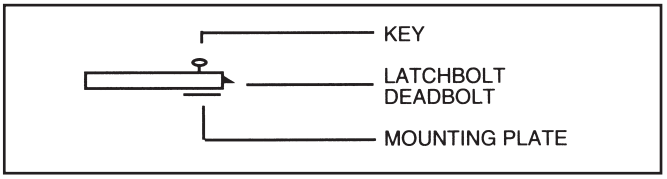
KEYED BOTH SIDES	(13) RHSB	LHSB (14)
KEYED HINGE SIDE	(17) RHSB	LHSB (18)
KEYED STOP SIDE	(21) LHRB	RHRB (22)

MOUNTING PLATE STOP SIDE

KEYED BOTH SIDES	(15) LHRB	RHRB (16)
KEYED STOP SIDE	(19) LHRB	RHRB (20)
KEYED HINGE SIDE	(23) RHSB	LHSB (24)

1-1/4" projection required with stop-side mounting.

LEGEND



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Key:	**Prison Paracentric**
Door:	**Swinging**
Security Level:	**Maximum**

60/60K Latch and Key Operated Deadlocks

Description

Series 60 Locks are lever tumbler, mechanical locks for swinging doors. Series 60 Locks are key operated only. Series 60K Locks also have a knob set which is active when the lock is not deadlocked. Specify keying as follows:

62 Keyed cover side
66 Keyed both sides
62K Knob model keyed cover side
66K Knob model keyed both sides

Applications

Series 60 Locks are ideal for use on corridor, cell, dining room or recreational area doors. Series 60K Locks with knobs are suited for administrative or infirmary areas where staff personnel require the convenience of knob operation combined with slam-locking and the security of a deadlock. Specify handing.

Standards Compliance

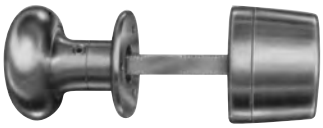
UL listed as Fire Door Accessory, 3 hour rating with strike. Single or pair of doors with 3 hour rating.

60 Series Deadlock
Right hand standard bevel shown.

UL LISTED

60K Series Deadlock
Right hand standard bevel shown.

Combination Knob



Standard Features

- **Knob operation (Series 60K) –** Knob will operate latchbolt unless deadlocked.
- **Mechanical operation –** Locks and unlocks by key. A half-turn of the key unlocks, and a full turn of the key, in the opposite direction, deadlocks the latchbolt. Key is removable in the deadlocked and latched position.
- **Automatic snap-locking –** Automatically when door is closed.
- **Durable case –** Ductile iron case with 3/8" thick steel cover.
- **Corrosion-resistance –** Working parts are corrosion-resistant.
- **Heavy-duty lever tumblers –** 5 spring-temper brass tumblers, activated by heavy phosphor-bronze springs. Precision fit to locking fence.
- **Large solid latchbolt –** Zinc plated steel, 2" x 3/4" with two hardened steel roller pins to resist sawing. Bolt projects 1/2" when retracted.
- **Bolt throw –** 3/4"
- **Bolt projection –** 1/2" or 1-1/4" are standard. Use 1-1/4" projection for stop side mounting.

(continued)

For more information, please call 210.533.1231.

Key:	**Prison Paracentric**
Door:	**Swinging**
Security Level:	**Maximum**

60/60K Latch and Key Operated Deadlocks

(continued from previous page)

Standard Features

- **Investment-cast key cylinder –** One-piece bronze alloy with paracentric keyway.
- **Knobs and roses (Series 60K) –** US26D finish attached to a 3/8" square spindle by exposed set screws on one side, and a concealed cross-pin on the other. Knobs are provided for both sides unless specified otherwise.
- **Finish (Series 60K) –** Trim satin chrome US26D, zinc plated for case/cover.

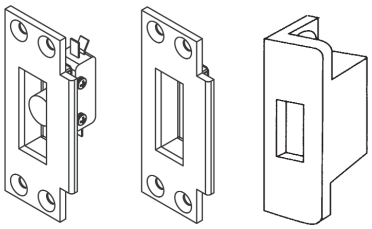
Optional Features

- **Mounting –** Hollow metal, grille or plate.
- **Single knob (60K Series)**
- **Safety knob set (60K Series) –** Specify "SK" for safety knob one side. "Double SK" for safety knob on both sides.

Accessories

(must be specified separately)

- **60-4B –** Mortise strike and mounting screws.
- **60-4BL –** Mortise strike with switch and mounting screws.
- **60-4DB –** Mortise strike with dust box and mounting screws.
- **80-4F –** Surface-mounted keeper and mounting screws.



60-4BL 60-4DB 80-4F

How To Order

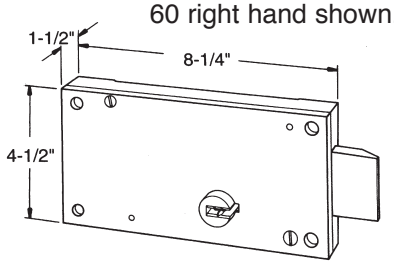
Specify:

1) Quantity
2) Handing
3) Bolt projection
4) Location of single knob, hinge side or stop side.
5) Mounting required.
6) Key code instructions.
7) Accessories required.

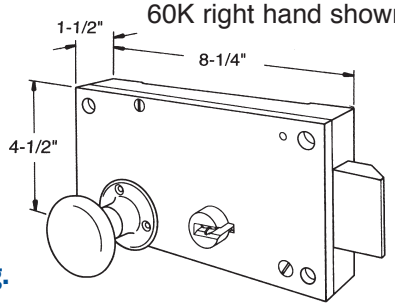
Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

60 right hand shown.

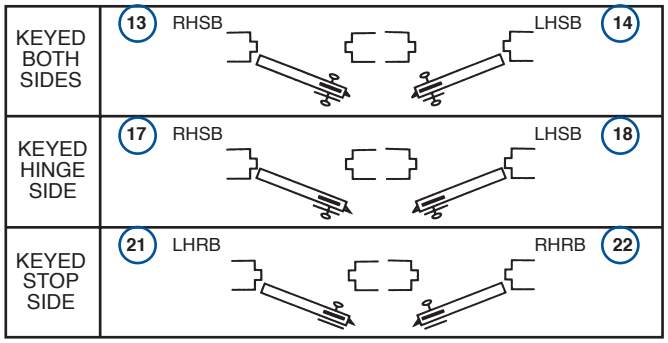


60K right hand shown.

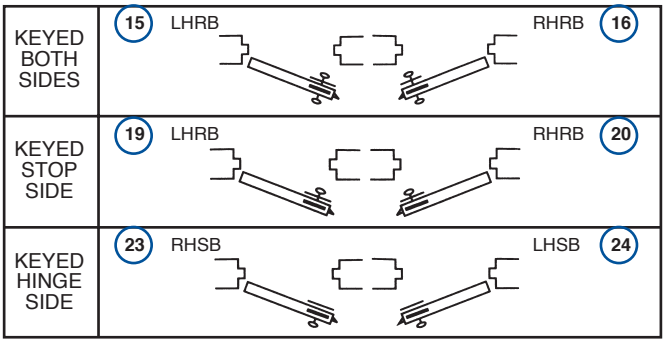


Specify circled swing number when ordering.

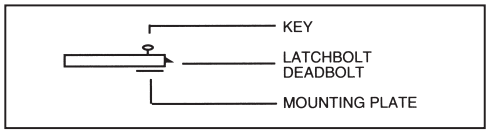
MOUNTING PLATE HINGE SIDE



MOUNTING PLATE STOP SIDE



LEGEND



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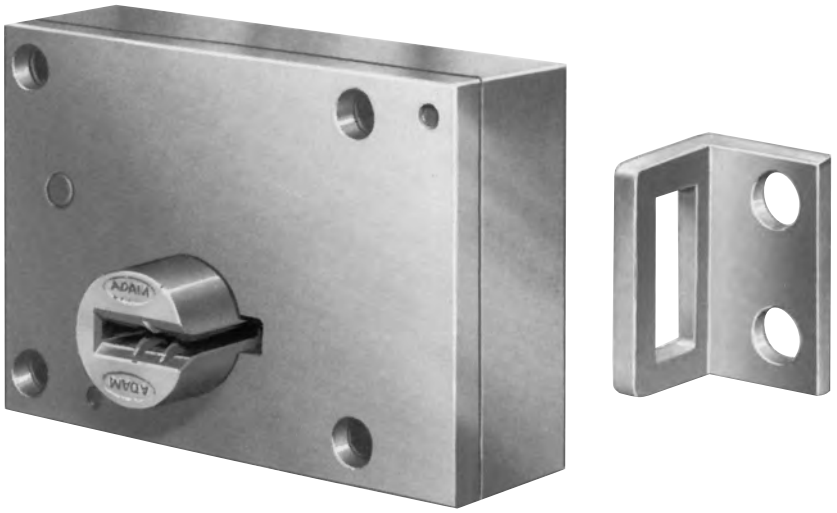
Key:	**Prison Paracentric**
Door:	**Swinging**
Security Level:	**Medium**

15 LATCH



Description

No. 15 Latches are lever tumbler, mechanical locks for small swinging doors, keyed one side only.

Applications

No. 15 Latches are ideal for use on observation panels, wicket or other small doors or covers. The latch is concealed by the case to prevent tampering when closed. Not for use on full size doors.

Standard Features

- **Mechanical operation –** Unlocks by key, locks when door is closed.
- **Automatic snap-locking –** Automatically when door is closed.
- **Durable case –** Ductile iron case with 1/4" thick steel cover.
- **Corrosion-resistance –** Working parts are corrosion-resistant.
- **Heavy-duty lever tumblers –** 5 spring-temper brass tumblers, activated by heavy phosphor-bronze springs. Precision fit to locking fence.
- **Large solid latchbolt –** Investment cast, stainless steel, 1" x 7/16", fully concealed.
- **Bolt throw –** 7/16"
- **Investment-cast key cylinder –** One-piece bronze alloy with paracentric keyway.
- **Security screws –** Supplied with angled strike and four 1/4-20 x 1-1/2" flat head security screws. Lockbolt keeper sold separately.
- **Finish –** Zinc plated.

How To Order

Specify:

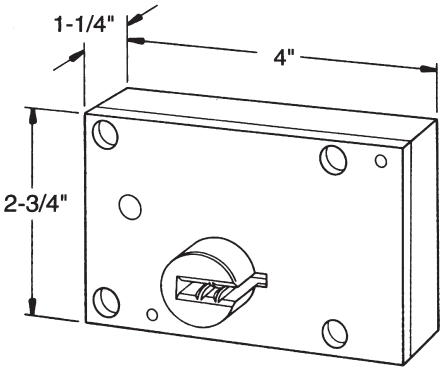
1) Quantity

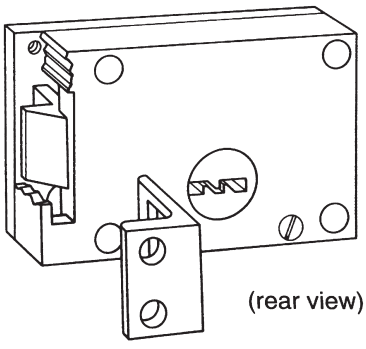
2) Mounting required.

3) Key code instructions.

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.





For more information, please call 210.533.1231.

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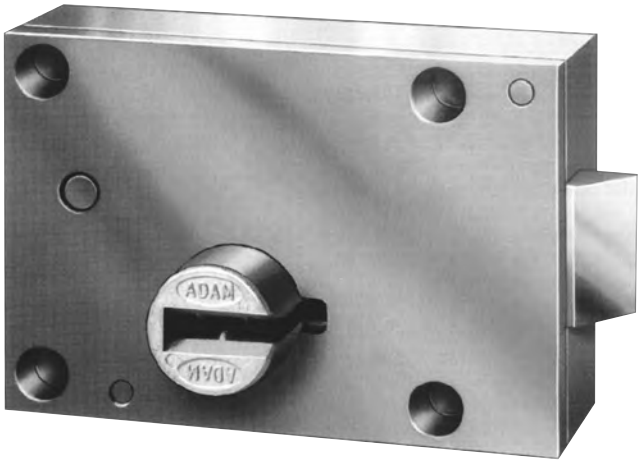
Key:	**Prison Paracentric**
Door:	**Swinging**
Security Level:	**Medium**

17 LATCH



Right hand reverse bevel shown.

Description

Number 17 Latches are lever tumbler, mechanical locks for small, swinging doors, keyed one side only.

Applications

Number 17 Latches are designed for use above hinged food pass doors, on observation panels or other small doors. Not for use on full size doors. Specify handing.

Standard Features

- **Mechanical operation –** Unlocks by key.
- **Automatic snap-locking –** When door is closed.
- **Durable case** – Ductile iron case with 1/4" steel cover.
- **Corrosion resistance –** Working parts are corrosion resistant.
- **Heavy-duty lever tumblers –** 5 spring-temper brass tumblers, activated by heavy phosphor bronze springs. Precision fit to locking fence.
- **Large solid latchbolt –** Investment-cast, stainless steel 1" x 7/16" flush when retracted.
- **Bolt throw –** 7/16"
- **Investment-cast key cylinder –** One piece bronze alloy with paracentric keyway.
- **Security screws –** Four 1/4-20 x 1-1/2" flat head security screws for mounting.
- **Finish –** Zinc plated.

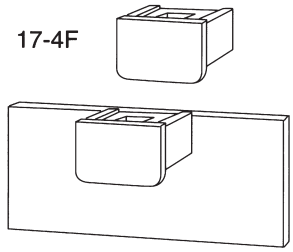
Optional Features

- **Hollow metal mounting** - Combined with 1/2" bolt projection for in-the-door pocket mounting. Requires 17-HM mounting.
- **Turn piece –** Key not required. Specify "17-TP".
- **Square bolt –** Flush and 1/2" projection stainless steel square bolt for special applications. Specify "17-D" for square bolt deadlatch.
- **Deadbolt action –** Mechanism modified to act like a deadbolt. Key removable in locked position only. Specify "17-DW" for square bolt deadbolt.

Accessories

(must be purchased separately)

- **17-4F –** Keeper/pull for surface mounted lock.
- **17-4FPD –** Plate food pass door with keeper (specify 3FP hinges separately).
- **17-HM –** Hollow metal mounting for hollow metal food pass door. Requires 1/2" bolt projection.



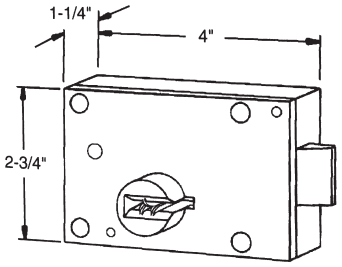
How To Order

Specify:

1) Quantity
2) Handing
3) Mounting required.
4) Key code instructions.
5) Accessories required.

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.



For more information, please call 210.533.1231.

Key:	**Mogul**
Door:	**Food-pass Swinging**
Security Level:	**Medium**

17-M LATCH

Right hand reverse bevel shown.

Description

Specifically designed for food-pass door applications, the 17-M Latch offers the strength of our original 17 Series Latch combined with the high technology of Maxi-Mogul® cylinder operation. Now, staff need only carry Mogul-type keys. Surface or hollow metal mountings available. A 17-4F keeper should be specified to capture the latchbolt and protect it from tampering when surface mounted.

17-M0 110 Mogul cylinder - keyed cover side

17-M1 190 Maxi-Mogul® - keyed cover side

Applications

Ideal for food-pass doors, small wicket doors or observation panels. 17-M0 and 17-M1 latches are designed to mount above the door and snap-lock instantly on closure. These latches are specified with either the 110 Mogul, or exclusive 190 Maxi-Mogul® cylinder as needed.

When Maxi-Mogul® cylinders are specified, level 1 keying will be provided.

Standard Features

- **Maxi-Mogul® key cylinder –** Provides maximum pick resistance. UL437 listed.
- **Case –** Ductile iron.
- **Corrosion-resistant –** Working parts are corrosion-resistant.
- **Latchbolt throw –** 7/16". Flush when retracted, or 1/2" projection for hollow metal pocket installation.
- **Large, solid latchbolt –** Investment-cast stainless steel, 1" x 7/16".
- **Security screws –** Supplied with four 1/4-20 x 1-1/2" flat head security screws.
- **Finish –** Zinc plated.

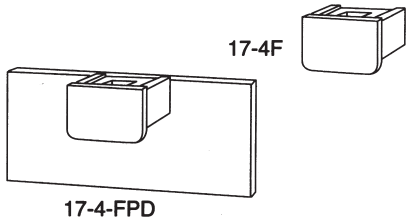
Optional Features

- **Square bolt –** Flush and 1/2" projection stainless steel square bolt for special applications.
- **110 Mogul key cylinder –** For existing applications.
- **Cylinder finish –** US26D
- **Hollow metal mounting –** Combined with 1/2" bolt projection for in-the-door pocket mounting.
- **Keying –** Master keying is available.

Accessories

(must be purchased separately)

- **17-4F –** Keeper/pull for surface mounted lock.
- **17-4FPD –** Food pass door with 17-4 keeper/pull (specify 3FP hinges separately).



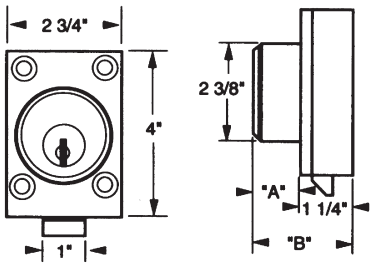
How To Order

Specify:

1) Quantity
2) Handing
3) Cylinder
   a. 17-M1 for Maxi-Mogul® key cylinder.
   b. 17-M0 allows cylinder to be keyed to existing Mogul combinations.
4) Latch mounting requirements.
5) Key code instructions.
6) Accessories required.

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.



DIMENSION	MAXI-MOGUL®	MOGUL
A	1-3/8"	1-1/8"
B	2-5/8"	2-3/8"

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LOCK MOUNTINGS

Description

Detention locks should be enclosed in steel coverings to prevent tampering and abuse. They are removable for service.

Standard Features

- **Rugged construction –** 7 gauge steel.
- **Keying flexibility –** May be furnished for locks keyed one or two sides.
- **Bolt projection –** Flush after installation.
- **Supplied –** With one No. 1 Escutcheon and all necessary mounting screws.
- **Finish –** Zinc plated.

Optional

Cylinder shields can be ordered with mountings.

Models Available

- **Model G –** For weldment to flat horizontal bars of a grille door. The lock is installed to the inside of the back plate, and covered by a front plate secured by break-off-head security screws. Specify lock type, handing and thickness of grille door flat bar.

  Specify with Series 30, 60, 70 or 80 Locks.

G Lock Mount
Left hand shown.

P Lock Mount
Right hand shown.

HM Lock Mount
Left hand shown.

- **Model HM –** A specially designed plate to which a lock is installed. The plate then covers the lock pocket in a hollow metal door. This mounting is not removable when the door is locked. In stop-side applications, a longer bolt projection is required, and must be specified. Specify lock type, handing and hollow metal door thickness. A 1/8" spacer is used between lock and mounting for 2" thick doors.

  Specify with Series 10, 17, 30, 60, 70 or 80 Locks.

- **Model P –** For rim mounting a lock to the surface of a plate door. The lock installs to the inside of the mounting, and is then attached to the door. Specify handing.

  Specify with Series 10, 30, 60, 70 or 80 Locks.

LOCK MOUNTINGS

How To Order

When ordering mountings, specify hinge or stop side location of mounting plate. Cylinder shields can be ordered with mountings.

Dimensional Data

LOCK MOUNTING	MODEL G			MODEL HM			MODEL P		
	HEIGHT	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH
With 10 Series lock	N/A	N/A	N/A	5"	7"	3/16"	7-1/4"	5-1/4"	1-7/16"
With 30 Series lock	11-1/2"	10-3/8"	2"	12"	6-1/2"	3/16"	13-1/2"	6-11/16"	1-3/4"
With 60 Series lock	11-1/2"	10-3/8"	2"	7"	10"	3/16"	8-1/2"	9-3/8"	1-3/4"
With 70 Series lock	11-1/2"	10-3/8"	2"	7"	10-3/8"	3/16"	9-3/4"	9-7/8"	1-3/4"
With 80 Series lock	11-1/2"	10-3/8"	2"	7"	10"	3/16"	8-1/2"	9-3/8"	1-3/4"
With 17-M Latch	N/A	N/A	N/A	5"	5-1/2"	3/16"	N/A	N/A	N/A

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Key:	**Prison Paracentric**
Door:	**Swinging**
Security Level:	**Maximum**

3600 and 3800 CREMONE BOLTS

3600 or 3800 Series
Left hand active leaf

Foot Bolt Receptacle

Description

Series 3600 Cremone Bolt Sets are lever tumbler mechanical deadlocks for single or paired swinging doors. They provide the convenience of slam-locking and the security of a deadlock.

3620 Keyed one side

3660 Keyed both sides

Series 3800 Cremone Bolt Sets are lever tumbler, mechanical deadlocks for single or paired swinging doors. Cremone bolts provide three-point locking for the active or single door, and five point locking for paired doors.

3820 Keyed one side

3860 Keyed two sides

(see model selection chart on back)

Applications

Cremone locks are designed for maximum security on corridor, entrance, or armory doors which may be subject to mass attack. Specify for use with hollow metal or grille doors. Specify handing.

Standard Features

- **Series 3600 mechanical operation –** Active door unlocks with a half-turn of the key. A full turn of the key in the opposite direction, deadlocks the center latchbolt, which also deadlocks the head and foot bolts.
- **Series 3800 mechanical operation –** Active door is operated by a key which deadlocks the deadbolt, head and foot bolts. Inactive door is operated from its own cylinder which deadlocks head and foot bolts.
- **Lever handle operation –** Head and foot bolts are operated by the handles, except when they are in deadlocked condition.
- **Door types –** Models available for use with 2" or thicker grille doors plug welded to flat, horizontal bars. In hollow metal doors 1-3/4" thick or more, bolt set mounts in a pocket with head and foot bolt concealed within door. (Specify door thickness when ordering.)
- **Head and foot bolts –** 7/8" diameter steel. (Specify overall door opening height when ordering.)
- **Durable case and cover –** 7 gauge steel.
- **Corrosion resistance –** Working parts are corrosion resistant.
- **Heavy-duty lever tumbler –** 5 spring-temper brass tumblers, activated by heavy phosphor bronze springs. Precision fit to locking fence.
- **Large solid bolt –** Zinc plated steel, 2" x 3/4". Flush when retracted.
- **Bolt throw –** 3/4" at all three points.
- **Investment-cast key cylinder –** One-piece bronze alloy with paracentric keyway.
- **Rugged lever handles – Steel** handles and escutcheons on both sides.
- **Supplied –** with head and foot bolts, foot bolt receptacle(s), Escutcheon(s), and necessary mounting screws.
- **Finish –** Zinc plated.

For more information, please call 210.533.1231.

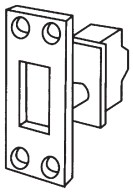
Key: Prison Paracentric
Door: Swinging
Security Level: Maximum

3600 and 3800 CREMONE BOLTS

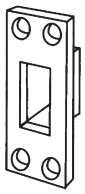
Accessories

(must be specified separately)

- **60/80-4B –** Mortise center bolt keeper and mounting screws for single door only.
- **60/80-4BL –** Mortise center bolt keeper with switch and mounting screws for single door only.
- **60/80-4DB –** Mortise center bolt keeper with dustbox and mounting screws for single door only.
- **3S-4B –** Mortise head bolt keeper and mounting screws for single or double doors.
- **3S-4BL –** Mortise head bolt keeper with switch and mounting screws for single or double doors.
- **3S-FBR –** Additional foot bolt receptacle may be used for hold-open position.

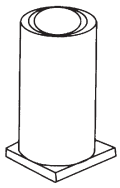


60/80-4BL

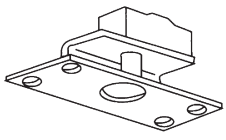


60/80-4DB

60 Series have strike lips.



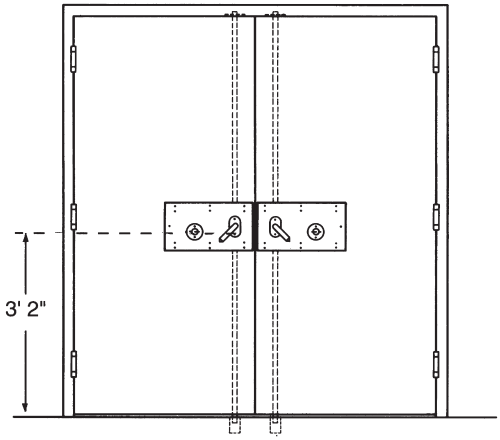
3S-FBR

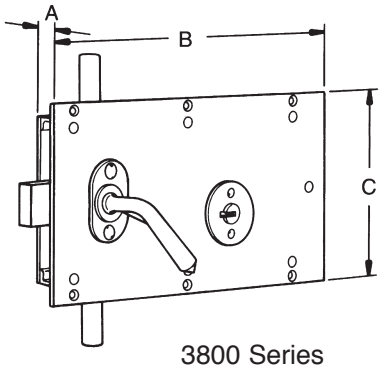


3S-4BL

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.





3800 Series
Active leaf

How To Order

Specify:

1) Quantity
2) Handing
3) Mounting required.
4) Key code instructions.
5) Accessories required.

MOUNTING	A	B	C
Hollow Metal	1-7/8"	18"	9-1/2"
Grille	1-7/8"	17-1/4"	8"

Model Selection Chart

MODEL	DESCRIPTION	KEYED	DOOR TYPE
36/3821G	Single	One side	Grille
36/3822G	Double	One side	Grille
36/3861G	Single	Two sides	Grille
36/3862G	Double	Two sides	Grille
36/3821HM	Single	One side	Hollow metal
36/3822HM	Double	One side	Hollow metal
36/3861HM	Single	Two sides	Hollow metal
36/3862HM	Double	Two sides	Hollow metal

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Key:	**Prison Paracentric**
Door:	**Swinging**
Security Level:	**Maximum**

3600 and 3800 CREMONE BOLTS

Specify circled swing number when ordering.

3600 SERIES LATCHBOLT AND 3800 SERIES DEADBOLT CREMONES
For Single and Double Doors

REMOVABLE COVER STOP SIDE

KEYED BOTH SIDES	(78)	3861 3661	LH LHRB	DEADBOLT LATCHBOLT	RH RHRB	(79)
KEYED STOP SIDE	(82)	3821 3621	LH LHRB	DEADBOLT LATCHBOLT	RH RH	(83)
KEYED BOTH SIDES	(86)	3862 3662	LH LHRB	DEADBOLT LATCHBOLT	ACTIVE ACTIVE	A
KEYED BOTH SIDES	(88)	3862 3662	RH RHRB	DEADBOLT LATCHBOLT	ACTIVE ACTIVE	A
KEYED STOP SIDE	(90)	3822 3622	LH LHRB	DEADBOLT LATCHBOLT	ACTIVE ACTIVE	A
KEYED STOP SIDE	(92)	3822 3622	RH RHRB	DEADBOLT LATCHBOLT	ACTIVE ACTIVE	A

A INDICATES ACTIVE SIDE

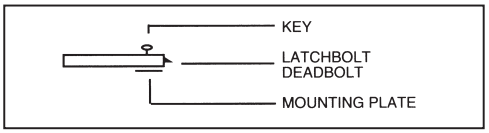
REMOVABLE COVER HINGE SIDE

KEYED BOTH SIDES	(80)	3861 3661	RH RHSB	DEADBOLT LATCHBOLT	LH LHSB	(81)
KEYED HINGE SIDE	(84)	3821 3621	RH RHSB	DEADBOLT LATCHBOLT	LH LHSB	(85)
KEYED BOTH SIDES	(87)	3862 3662	RH RHSB	DEADBOLT LATCHBOLT	ACTIVE ACTIVE	A
KEYED BOTH SIDES	(89)	3862 3662	LH LHSB	DEADBOLT LATCHBOLT	ACTIVE ACTIVE	A
KEYED HINGE SIDE	(91)	3822 3622	RH RHSB	DEADBOLT LATCHBOLT	ACTIVE ACTIVE	A
KEYED HINGE SIDE	(93)	3822 3622	LH LHSB	DEADBOLT LATCHBOLT	ACTIVE ACTIVE	A

A INDICATES ACTIVE SIDE

NOTE: The above illustrations show latchbolts for all models. 3800 Series are deadbolt locks, 3600 Series are latchbolt locks.

LEGEND



For more information, please call 210.533.1231.

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KEEPER SWITCHES

Description

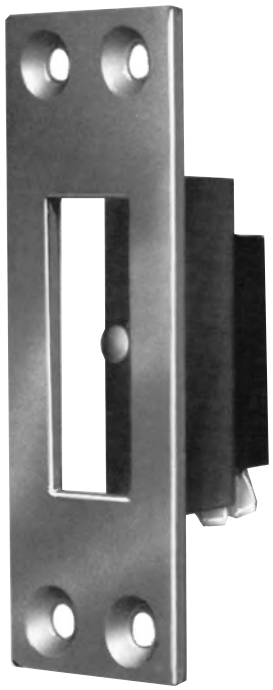
Electrical indication switches monitor the locked or unlocked condition of a door.

Applications

Specify for use with any mechanical lock. The switch installs behind the keeper or strike, and provides indication of door status to a remote control console.

NOTE: Used alone, this switch may be made to create a false signal by depressing the switch button manually. The possibility of a false signal should be eliminated by installing a door position switch and wiring it in series with the indication switch. In this application, a secure signal can be produced only after three conditions have been met:

1) the indication switch button is depressed.
2) the lockbolt is extended.
3) the door is closed.



80-4BL

ASSW-104A

Models Available

MODEL NO.	USED WITH LOCK
10-4BL	10 Series deadlocks
30-4BL	30/30D Series deadlock
60-4BL	60 Series deadlock
70-4BL	70 Series deadlatches
80-4BL	80 Series deadlocks
3S-4BL	3800 Series Cremone headbolts
ASSW-104A	9300 Series

Electrical Specifications

SWITCH TYPE	RATING
Single-pole, Double-throw (SPDT)	15 amps @ 125 , 250 VAC .5 amp @ 125 VDC .25 amp @ 250 VDC

For more information, please call 210.533.1231.

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Key: Mogul
Door: Swinging
Security Level: Minimum/Medium

D9300 MAXI-MORTISE™

Description

Series D9300 locks are pin tumbler mortise locks for swinging doors.

Applications

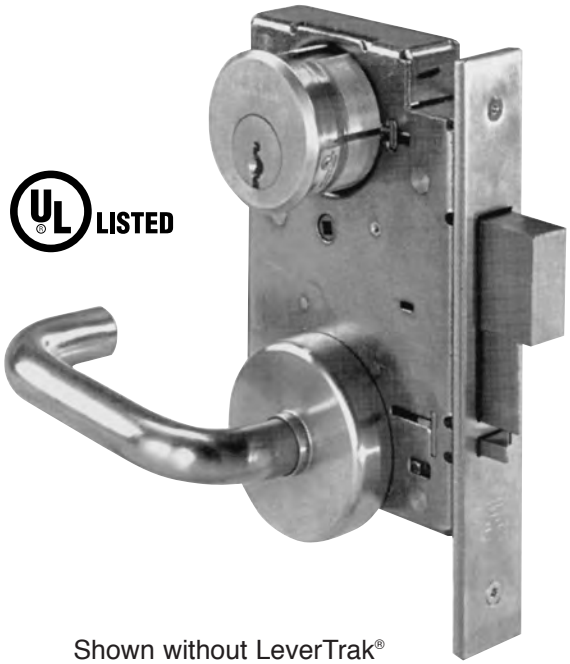
An extra heavy-duty mortise lock for use on swinging doors in minimum/medium security cell or public areas of detention facilities. Available in a variety of latchbolt, deadbolt and deadlocking latchbolt styles.

Standards Compliance

UL10B listed as Fire Door Accessory, 4 hour rating.

UL437 Listed Cylinder

ASTM F-1577 Grade 1 – Impact



Shown without LeverTrak®

Standard Features

- **Fits ANSI door preparation –** Standardized installation in hollow metal doors modified to accommodate lock body thickness of 1-1/8".
- **Door thickness –** Doors must be 1-3/4" to 2-1/2" thick.
- **Armored front –** 8" x 1-1/4" steel, 10 gauge.
- **High strength case and cover –** 12 gauge.
- **Corrosion-resistant working parts –** Internal working parts are stainless steel or zinc chromated steel.
- **Durable hubs –** Solid stainless steel construction, on the square.
- **Spindle –** 11/32" cold drawn steel.
- **Latchbolt –** One-piece investment cast 17-4 stainless steel, hardened, 3/4" throw.
- **Deadbolt –** One-piece investment cast 17-4 stainless steel, hardened, 1" throw.
- **Latchbolt size –** 11/16" x 1-1/4".
- **Deadbolt size –** 11/16" x 1-1/2".
- **Reversible –** Locks are field reversible. Handing, if known, should be specified upon ordering.
- **Key cylinder –** Price includes mogul cylinder.
- **Screws –** Tamper-resistant mounting screws.
- **Tamper-resistant –** All bolts, including the auxiliary latchbolt, are fully tunneled to help prevent jamming of the mechanism with foreign material.
- **Strike –** Supplied with curved-lip strike having 1-1/4" lip length and dust box. Buffed stainless steel finish only.
- **Trim finish –** US32D (ANSI/BHMA 630).

Optional Features

- **Strike switch –** Strike-mounted indication switch for electrically monitored systems.
- **Cylinder –** Available with 110 Mogul or 190 Maxi-Mogul® key cylinder provides maximum pick-resistance and matches keying on your job. Maxi-Mogul® UL437, Level 1 listed.
- **ASSA or MEDECO Mogul cylinders –** Available to complement keying systems.

For more information, please call 210.533.1231.

D9300 MAXI-MORTISE™

Key: Mogul
Door: Swinging
Security Level: Minimum/Medium

Trim Designs

- **Knobs –** standard trim US26D.
  Specify KR for knob and rose trim with lock.
  Dimensions: 2-1/4" diameter.
  Safety knob: Specify "SK" knob and side installed on.
- **Lever handles –** all Lever handles must be installed with track.

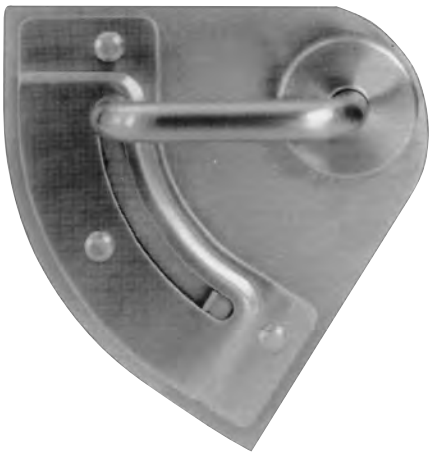
  Material: Stainless steel.

  Dimensions: 3/4" diameter x 4-11/16" long.
- **Roses –**
  Material: Stainless steel.
  Dimensions: 2-11/16" diameter, concealed trim design.
- **LeverTrak® Handle Guide Sets –** LT and LTE Handle Guide Sets must be specified. The track prevents damage to mortise locks from over-travel of the handle.
  Material: Stainless steel.

KR – Knob handle and rose

SK – Safety knob (inside)

LT – Lever handles and track set
The "Lemont"



LTE – Lever handles, track set and escutcheon
The "Limited"

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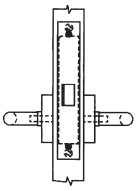
Key: Mogul
Door: Swinging
Security Level: Minimum/Medium

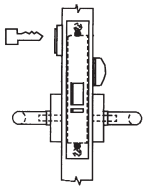
D9300 MAXI-MORTISE™

D9300 Series Lock Functions

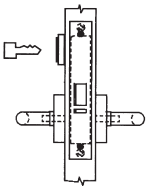
OUTSIDE INSIDE



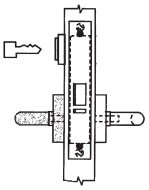
D9301 (F01) – Passage or closed latch
- Either handle operates the latchbolt at all times.



D9304 (F04) – Entry lock
- Latchbolt operated by handle either side except when outside handle is made inoperative by inside thumbturn.
- When outside handle is locked, latchbolt operated by key outside, handle inside.
- Auxiliary deadlatch.

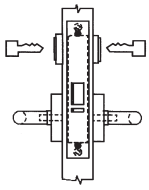


D9305 (F05) – Classroom lock
- Latchbolt operated by handle either side, except when outside handle is locked by key outside.
- Inside handle is always operative.
- Auxiliary deadlatch.

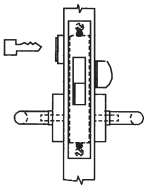


D9307 (F07) – Storeroom or closet lock
- Latchbolt operated by key outside, handle inside.
- Outside handle inoperative at all times.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.

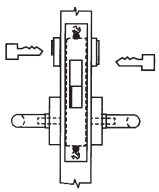


D9309 (F09) – Apartment, exit or toilet lock
- Latchbolt operated by handle either side except when outside handle is locked by key from inside.
- When outside handle is locked, latchbolt is operated by key outside, handle inside.
- Auxiliary deadlatch.

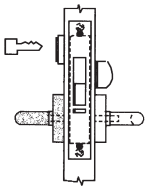


D9313 (F13) – Dormitory or exit lock
- Latchbolt operated by lever from either side.
- Deadbolt projected by key outside, and thumbturn inside.
- Both bolts retracted by inside lever.

OUTSIDE INSIDE

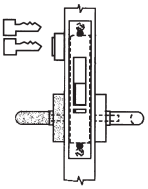


D9314 (F14) – Store door lock
- Latchbolt operated by handles either side.
- Deadbolt operated by key both sides.



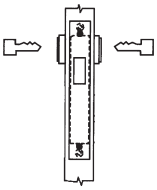
D9335 (F15 Mod.) – Modified hotel guest lock
- Latchbolt operated by handle inside, or by key outside.
- Deadbolt operated by thumbturn inside, or by key outside.
- Outside handle always inactive.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.

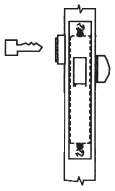


D9336 – Inmate keyed lock
- LCK cylinder outside.
- LCK operates latchbolt only.
- Master key operates latch and deadbolt from outside.
- Outside handle always inactive.
- Auxiliary deadlatch.

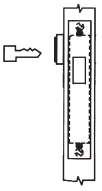
SHADED HANDLE DENOTES RIGID.



D9316 (F16) – Deadlock
- Deadbolt is operated by key either side.



D9317 (F17) – Deadlock
- Deadbolt is operated by key outside, thumbturn inside.



D9318 (F18) – Deadlock
- Deadbolt is operated by key from outside only.

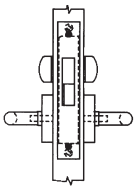
For more information, please call 210.533.1231.

D9300 MAXI-MORTISE™

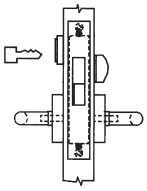
Key: Mogul
Door: Swinging
Security Level: Minimum/Medium

D9300 Series Lock Functions

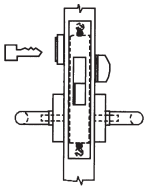
OUTSIDE INSIDE



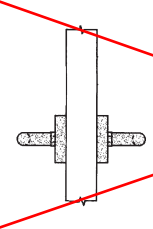
D9319 (F19) – Privacy, bedroom or bath lock
- Latchbolt operated by handle either side.
- Deadbolt operated by thumbturn inside, emergency release outside.
- Inside handle retracts both bolts.



D9320 (F20) – Apartment corridor door lock
- Latchbolt operated by lever either side, except when deadbolt is projected.
- Deadbolt operated by key outside or thumbturn inside.
- Key operates both bolts.
- Lever inside retracts both bolts.
- Latchbolt is deadlocked when deadbolt is projected.
- When deadbolt is retracted, lever is unlocked.

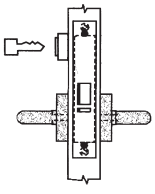


D9321 (F21) – Entrance or storeroom door lock
- Latchbolt is operated by handle either side.
- Deadbolt operated by key outside, thumbturn inside.



DLT-2OFF
Dummy trim for single or pairs of doors
- Push or pull only.
- Handles rigid at all times, trim not operational.
- Full dummy trim, through-bolted.

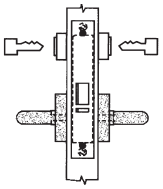
Not Available



D9371 – Deadlatch
- Deadlatch operated by key outside.
- Auxiliary deadlatch.

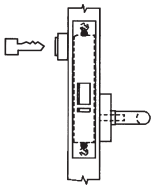
SHADED HANDLE DENOTES RIGID.

OUTSIDE INSIDE

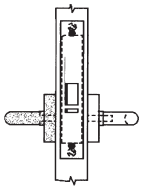


D9372 – Deadlatch
- Deadlatch operated by key both sides.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.

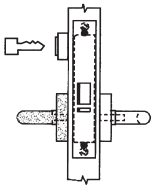


D9373 – Deadlatch
- Deadlatch operated by key outside, handle inside.
- Auxiliary deadlatch.



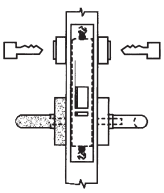
D9374 – Deadlatch
- Deadlatch operated by handle or knob inside. Outside handle rigid.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.



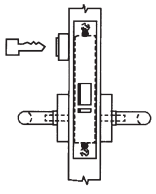
D9375 – Deadlatch
- Deadlatch operated by key outside.
- Key locks inside handle. Outside handle rigid.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.



D9376 – Deadlatch
- Deadlatch operated by key both sides.
- Key locks inside handle. Outside handle rigid.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.



D9377 – Deadlatch
- Deadlatch operated by key outside.
- Key locks both handles.
- Auxiliary deadlatch.

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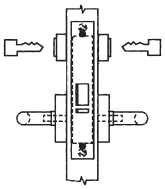
Key: Mogul
Door: Swinging
Security Level: Minimum/Medium

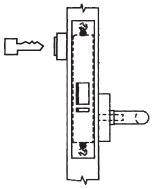
D9300 MAXI-MORTISE™

D9300 Series Lock Functions

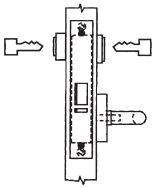
OUTSIDE INSIDE



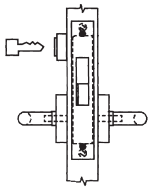
D9378 – Deadlatch
- Deadlatch operated by key both sides.
- Key locks both handles.
- Auxiliary deadlatch.



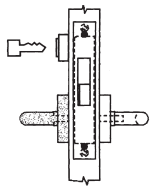
D9379 – Deadlatch
- Deadlatch operated by key outside.
- Key locks inside handle.
- No outside handle.
- Auxiliary deadlatch.



D9380 – Deadlatch
- Deadlatch operated by key both sides.
- Key locks inside handle.
- No outside handle.
- Auxiliary deadlatch.



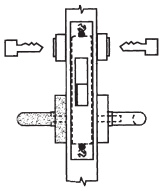
D9361 – Latch and Deadbolt
- Deadbolt operated by key outside.
- Latch operated by both handles.



D9362 – Latch and Deadbolt
- Deadbolt operated by key outside.
- Latch operated by inside handle.

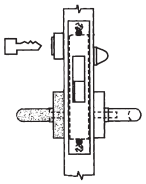
SHADED HANDLE DENOTES RIGID.

OUTSIDE INSIDE



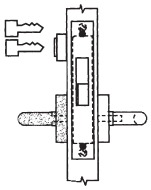
D9363 – Latch and Deadbolt
- Deadbolt operated by key both sides.
- Latch operated by inside handle.

SHADED HANDLE DENOTES RIGID.



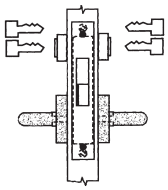
D9364 – Latch and Deadbolt
- Deadbolt operated by key outside.
- Deadbolt operated by thumbturn inside.
- Latch operated by inside handle.

SHADED HANDLE DENOTES RIGID.



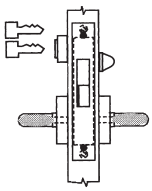
D9365 – Latch and Deadbolt
- Deadbolt operated by key and LCK* cylinder outside.
- Latch operated by inside handle.

SHADED HANDLE DENOTES RIGID.



D9366 – Latch and Deadbolt
- Deadbolt and latch operated by key and LCK* cylinder both sides.

SHADED HANDLE DENOTES RIGID.



D9367 – Latch and Deadbolt
- Deadbolt and latch operated by key and LCK* cylinder outside.
- Deadbolt and latch operated by thumbturn inside.

SHADED HANDLE DENOTES RIGID.

*LCK - Limited Control Key used by inmate. See next page for more information.

For more information, please call 210.533.1231.

D9300 MAXI-MORTISE™

Key: Mogul
Door: Swinging
Security Level: Minimum/Medium

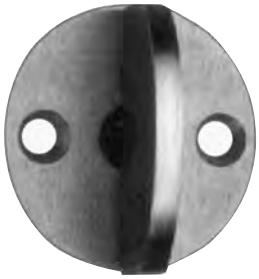
Cylinder Data

- **Maxi-Mogul® key cylinders –** D9300 Series Mortise Locks are provided with Maxi-Mogul® key Cylinders, six pin tumbler. Keys are sold separately and registered at the factory.
- **Cylinder collar –** An adjustable cylinder collar will be provided to suit the cylinder length and door thickness when both locks and cylinders are ordered. If not specified, rings will be for 1-3/4" thick doors.
- **Trim / cylinder accessories –** The following trim items will be provided per the lock function specified.
- **LCK (limited control key) –** Modification for Models D9336, D9365, D9366, D9367. Factory provided cylinder is modified to allow change key a limited rotation to retract the latchbolt. Master key is unlimited and will operate both latch and deadbolt.
- **Thumbturn and escutcheon –** Furnished with Models D9304, D9313, D9317, D9320, D9321, D9335, D9364 and D9367.

  Removable thumbturn furnished with Model D9319.

  Supplied with tamper-resistant No. 6 x 3/8" screws.

Maxi-Mogul® Key Cylinder


Thumbturn with Escutcheon


Maxi-Mogul® Key

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Key: Mogul
Door: Swinging
Security Level: Minimum/Medium

D9300 MAXI-MORTISE™

Strikes

D9300 Series Locks are supplied with a curved lip strike having a 1-1/4" lip length for use with doors 1-3/4" to 2" thick. Buffed stainless steel finish only.

- **Strike with indication switch –** For electric monitoring.
- **Strike box –** Wrought steel, zinc plated, reversible for installation with flat or curved-lip strike.
- **Special lip lengths –** Strikes are installed 3/8" above the vertical centerline of the lock. 1-1/4" lip length is standard. 1-1/2" lip length is optional for doors from 2-1/8" to 2-1/4" thick.

Handing

Handing of locks should be indicated when ordering. Guidelines shown on page C46 will assist in determining the hand. Door must be addressed from the key side, the cylinder side or the secured side.

How to Order

Specify:

1) Trim
   a. KR, Knob and rose set. (Safety knob available "SK", specify side).
   b. LT, LeverTrak® Guide with handle and rose.
   c. LTE, LeverTrak® Guide with handle, rose and escutcheon.
2) Lock Model D93___.
3) Function (see function descriptions) D9309.
4) Handing (RH, LH, RHR, LHR)
5) Cylinder
   a. With cylinder(s)
   b. Less cylinders(s)
6) Door material/thickness
7) Strike lip length
   918 – 1-1/4" lip(s)
   914 – 1-1/2" lip(s)
8) Strike switch(es), if required

EXAMPLE:
LT-D9309 LH Less cyl. 2"HM x 918-LS

The above is a public entrance lock with LeverTrak® Handle Guide, left hand, for use with customer-supplied cylinder, on a 2" hollow metal door, equipped with strike-mounted switch.


918-D-S
Strike switch


918-L ANSI
Latchbolt-only strike
RH/LHR shown


918-LD ANSI
Latchbolt/ deadbolt strike
RH/LHR shown


918-D ANSI
Deadbolt strike
RH/LHR shown


918-DNL
Deadbolt strike without lip


900-BOX
Dust box

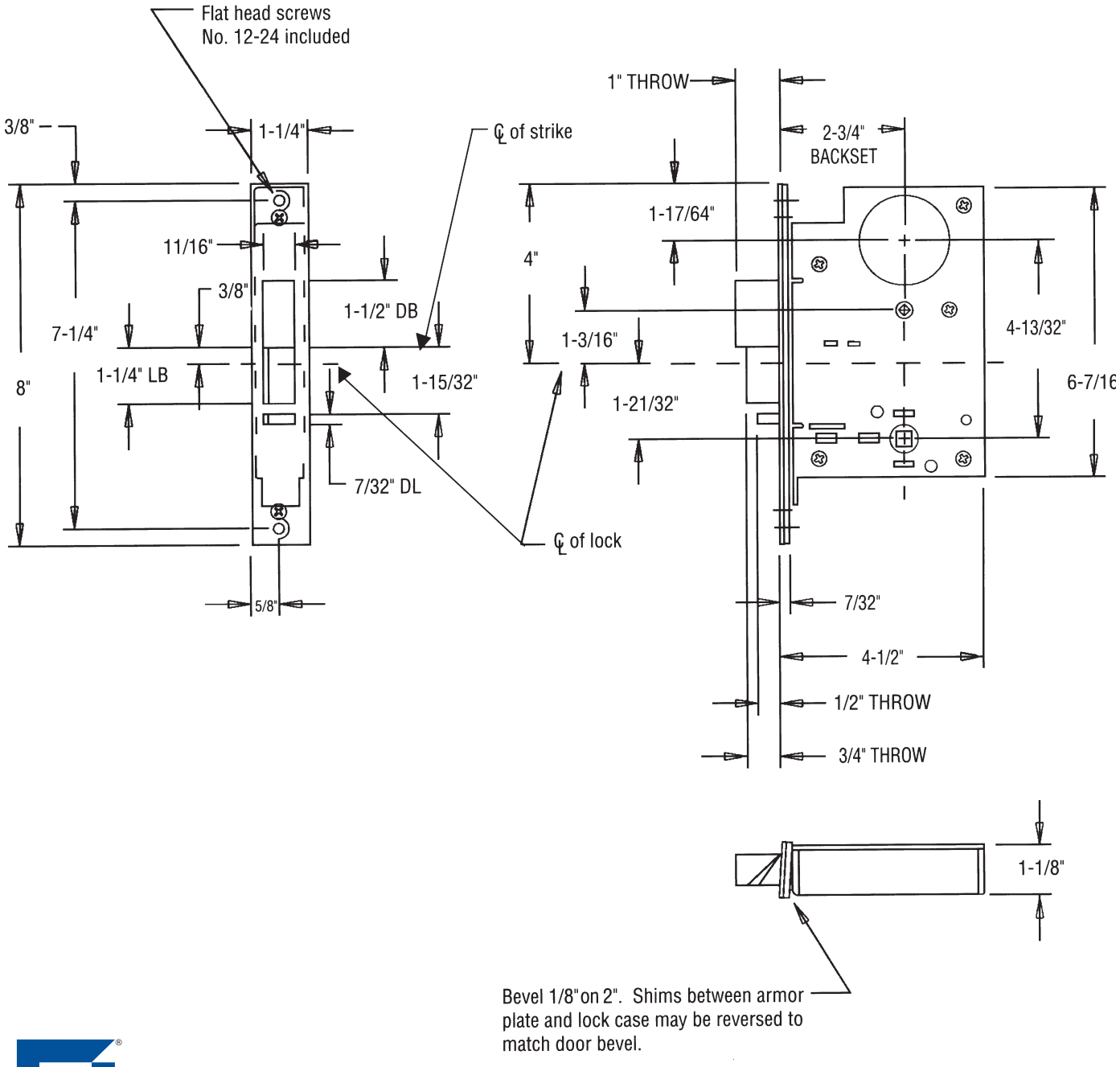
For more information, please call 210.533.1231.

D9300 MAXI-MORTISE™

Key: Mogul
Door: Swinging
Security Level: Minimum/Medium

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.



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Key:	**Builders Hardware**
Door:	**Swinging**
Security Level:	**Minimum**

A9300 MAXI-MORTISE™

Description

Series A9300 locks are pin tumbler mortise locks for swinging doors.

Applications

An extra heavy-duty mortise lock for use on swinging doors in minimum security cell or public areas of detention facilities. Available in a variety of latchbolt, deadbolt and deadlocking latchbolt styles.

Standards Compliance

UL10B listed as Fire Door Accessory, 4 hour rating.

ANSI/BHMA 156.13 Grade 1

ASTM F-1577 Grade 1 – Impact

Shown without LeverTrak®

Standard Features

- **Fits ANSI door preparation –** Standardized installation in hollow metal doors modified to accommodate lock body thickness of 1-1/8".
- **Door thickness –** Doors must be 1-3/4" to 2-1/2" thick.
- **Armored front –** 8" x 1-1/4" steel, 10 gauge.
- **High strength case and cover –** 12 gauge.
- **Corrosion-resistant working parts –** Internal working parts are stainless steel or zinc chromated steel.
- **Durable hubs –** Solid stainless steel construction, on the square.
- **Spindle –** 11/32" cold drawn steel.
- **Latchbolt –** One-piece investment cast 17-4 stainless steel, hardened, 3/4" throw.
- **Deadbolt –** One-piece investment cast 17-4 stainless steel, hardened, 1" throw.
- **Latchbolt size –** 11/16" x 1-1/4".
- **Deadbolt size –** 11/16" x 1-1/2".
- **Reversible –** Locks are field reversible. Handing should be specified upon ordering.
- **Key cylinder –** Furnished with Builders Hardware 6-pin tumbler key high security cylinders.
- **Screws –** Tamper-resistant mounting screws.
- **Tamper-resistant –** All bolts, including the auxiliary latchbolt, are fully tunneled to help prevent jamming of the mechanism with foreign material.
- **Strike –** Supplied with curved-lip strike having 1-1/4" lip length and dust box. Buffed stainless steel finish only.
- **Trim finish –** US32D.

Optional Features

- **Strike switch –** Strike-mounted indication switch for electrically monitored systems.

For more information, please call 210.533.1231.

A9300 MAXI-MORTISE™

Key: Builders Hardware
Door: Swinging
Security Level: Minimum

Trim Design

- **Knobs –** standard trim US26D.

  Specify KR for knob and rose trim with lock.

  Dimensions: 2-1/4" diameter.

  Safety knob: Specify "SK" knob and side installed on.

- **Lever handles –** all lever handles must be installed with track.

  Material: Stainless steel.

  Dimensions: 3/4" diameter x 4-11/16" long.

- **LeverTrak® Handle Guide Sets –**

  LT and LTE Handle Guide Sets must be specified. The track prevents damage to mortise locks from over-travel of the handle.

  Material: Stainless steel.

- **Roses**

  Material: Stainless steel.

  Dimensions: 2-11/16" diameter, concealed trim design.

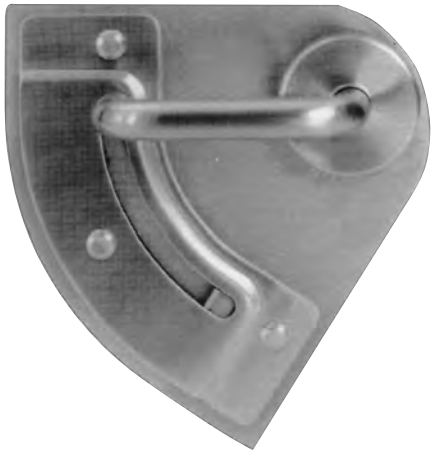
- **Secure escutcheon –** SV 1/4" solid stainless steel trim plates throughbolt the door. Offered only with Builders Hardware cylinder and A9300 Series Lock.

  EXAMPLE: SV-A9361 x SK inside

  IMPORTANT NOTE: The secure escutcheon trim package shown here is available only with a Builders Hardware cylinder (A9300 Series Lock). This trim package is not available with a Maxi-Mogul® Cylinder.

KR – Knob and rose set

LT – Lever handles and track set
The "Lemont"



LTE – Lever handles, track set and escutcheon
The "Limited"

SV – Secure escutcheon
The "Stateville"
with KR – knob handle and rose

SV – Secure escutcheon (inside) with SK – safety knob and rose

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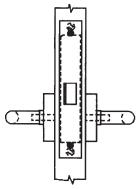
Key: Builders Hardware
Door: Swinging
Security Level: Minimum

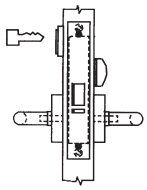
A9300 MAXI-MORTISE™

A9300 Series Lock Functions

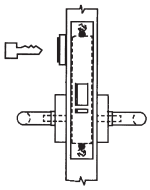
OUTSIDE INSIDE



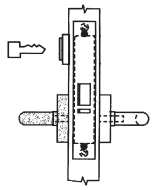
A9301 (F01) – Passage or closed latch
- Either handle operates the latchbolt at all times.



A9304 (F04) – Entry lock
- Latchbolt operated by handle either side except when outside handle is made inoperative by inside thumbturn.
- When outside handle is locked, latchbolt operated by key outside, handle inside.
- Auxiliary deadlatch.

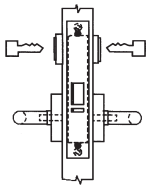


A9305 (F05) – Classroom lock
- Latchbolt operated by handle either side, except when outside handle is locked by key outside.
- Inside handle is always operative.
- Auxiliary deadlatch.

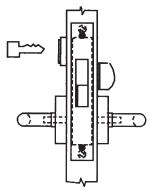


A9307 (F07) – Storeroom or closet lock
- Latchbolt operated by key outside, handle inside.
- Outside handle inoperative at all times.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGIDS.

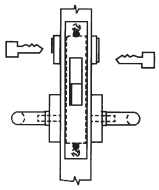


A9309 (F09) – Apartment, exit or toilet lock
- Latchbolt operated by handle either side except when outside handle is locked by key from inside.
- When outside handle is locked, latchbolt is operated by key outside, handle inside.
- Auxiliary deadlatch.

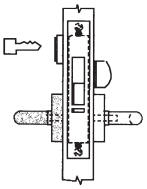


A9313 (F13) – Dormitory or exit lock
- Latchbolt operated by handle from either side.
- Deadbolt projected by key outside, and thumbturn inside.
- Both bolts retracted by inside handle.

OUTSIDE INSIDE

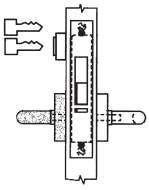


A9314 (F14) – Store door lock
- Latchbolt operated by handles either side.
- Deadbolt operated by key both sides.



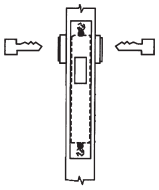
A9335 (F15 Mod.) – Modified hotel guest lock
- Latchbolt operated by handle inside, or by key outside.
- Deadbolt operated by thumbturn inside, or by key outside.
- Outside handle always inactive.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.

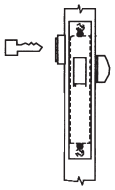


A9336 – Inmate keyed lock
- LCK cylinder outside.
- LCK operates latchbolt only.
- Master key operates latch and deadbolt from outside.
- Outside handle always inactive.
- Auxiliary deadlatch.

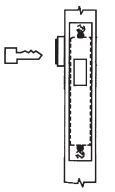
SHADED HANDLE DENOTES RIGID.



A9316 (F16) – Deadlock
- Deadbolt is operated by key either side.



A9317 (F17) – Deadlock
- Deadbolt is operated by key outside, thumbturn inside.



A9318 (F18) – Deadlock
- Deadbolt is operated by key from outside only.

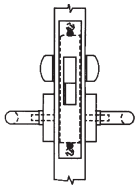
For more information, please call 210.533.1231.

A9300 MAXI-MORTISE™

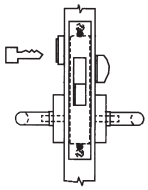
Key: Builders Hardware
Door: Swinging
Security Level: Minimum

A9300 Series Lock Functions

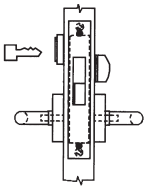
OUTSIDE INSIDE



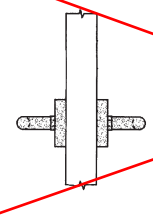
A9319 (F19) – Privacy, bedroom or bath lock
- Latchbolt operated by handle either side.
- Deadbolt operated by thumbturn inside, emergency release outside.
- Inside handle retracts both bolts.



A9320 (F20) – Apartment corridor door lock
- Latchbolt operated by lever either side, except when deadbolt is projected.
- Deadbolt operated by key outside or thumbturn inside.
- Key operates both bolts.
- Lever inside retracts both bolts.
- Latchbolt is deadlocked when deadbolt is projected.
- When deadbolt is retracted, lever is unlocked.

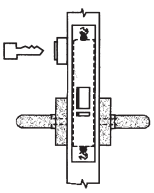


A9321 (F21) – Entrance or storeroom door lock
- Latchbolt is operated by handle either side.
- Deadbolt operated by key outside, thumbturn inside.



DLT-2OFF
Dummy trim for single or pairs of doors
- Push or pull only.
- Handles rigid at all times, trim not operational.
- Full dummy trim, through-bolted.

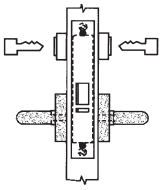
Not Available



A9371 – Deadlatch
- Deadlatch operated by key outside.
- Auxiliary deadlatch.

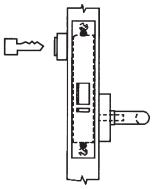
SHADED HANDLE DENOTES RIGID.

OUTSIDE INSIDE

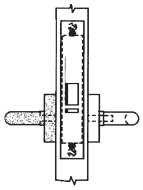


A9372 – Deadlatch
- Deadlatch operated by key both sides.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.

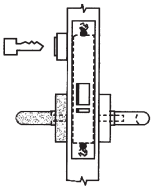


A9373 – Deadlatch
- Deadlatch operated by key outside, handle inside.
- Auxiliary deadlatch.



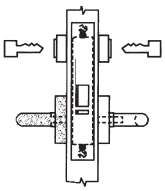
A9374 – Deadlatch
- Deadlatch operated by handle or knob inside. Outside handle rigid.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.



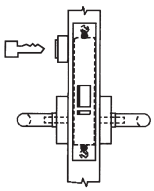
A9375 – Deadlatch
- Deadlatch operated by key outside.
- Key locks inside handle. Outside handle rigid.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.



A9376 – Deadlatch
- Deadlatch operated by key both sides.
- Key locks inside handle. Outside handle rigid.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.



A9377 – Deadlatch
- Deadlatch operated by key outside.
- Key locks both handles.
- Auxiliary deadlatch.

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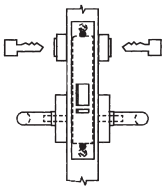
Key: Builders Hardware
Door: Swinging
Security Level: Minimum

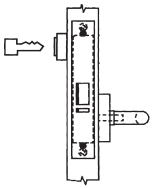
A9300 MAXI-MORTISE™

A9300 Series Lock Functions

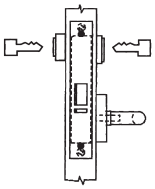
OUTSIDE INSIDE



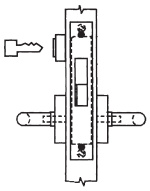
A9378 – Deadlatch
- Deadlatch operated by key both sides.
- Key locks both handles.
- Auxiliary deadlatch.



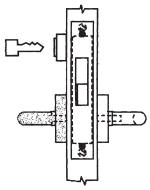
A9379 – Deadlatch
- Deadlatch operated by key outside.
- Key locks inside handle.
- No outside handle.
- Auxiliary deadlatch.



A9380 – Deadlatch
- Deadlatch operated by key both sides.
- Key locks inside handle.
- No outside handle.
- Auxiliary deadlatch.



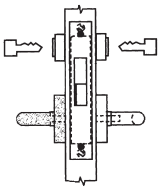
A9361 – Latch and Deadbolt
- Deadbolt operated by key outside.
- Latch operated by both handles.



A9362 – Latch and Deadbolt
- Deadbolt operated by key outside.
- Latch operated by inside handle.

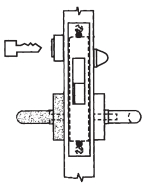
SHADED HANDLE DENOTES RIGID.

OUTSIDE INSIDE



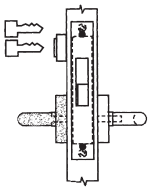
A9363 – Latch and Deadbolt
- Deadbolt operated by key both sides.
- Latch operated by inside handle.

SHADED HANDLE DENOTES RIGID.



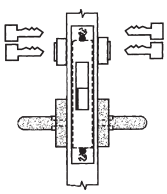
A9364 – Latch and Deadbolt
- Deadbolt operated by key outside.
- Deadbolt operated by thumbturn inside.
- Latch operated by inside handle.

SHADED HANDLE DENOTES RIGID.



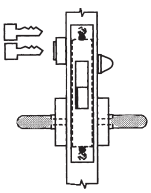
A9365 – Latch and Deadbolt
- Deadbolt operated by key and LCK* cylinder outside.
- Latch operated by inside handle.

SHADED HANDLE DENOTES RIGID.



A9366 – Latch and Deadbolt
- Deadbolt and latch operated by key and LCK* cylinder both sides.

SHADED HANDLE DENOTES RIGID.



A9367 – Latch and Deadbolt
- Deadbolt and latch operated by key and LCK* cylinder outside.
- Deadbolt and latch operated by thumbturn inside.

SHADED HANDLE DENOTES RIGID.

*LCK - Limited Control Key used by inmate. See next page for more information.

For more information, please call 210.533.1231.

A9300 MAXI-MORTISE™

Key: Builders Hardware
Door: Swinging
Security Level: Minimum

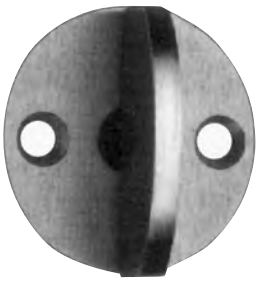
Cylinder Data

- **Standard cylinders –** A9300 Series Mortise Locks are provided with high security six-pin tumbler mortise cylinders 1-1/8" long. Provided with two keys.
- **Customer-supplied cylinders and compression ring –** Customer-provided cylinders must be equipped with a Schlage "L" type (clover-leaf) Cam and must be 1-1/8" long.
- **Cylinder and blocking rings –** Will be provided to suit the cylinder length and door thickness when both locks and cylinders are ordered. If not specified, rings will be for 1-3/4" door thickness.
- **LCK (limited control key) –** Modification for Models A9336, A9365, A9366, A9367. Factory provided cylinder is modified to allow change key a limited rotation to retract the latchbolt. Master key is unlimited and will operate both latch and deadbolt. NOTE: LCK not available with removable core cylinders.
- **Optional feature –** Removable core cylinders available on request.
- **Trim accessories –** The following trim items will be provided:
- **Thumbturn and escutcheon –** Furnished with Models A9304, A9313, A9317, A9320, A9321, A9335, A9364 and A9367.

  Removable thumbturn furnished with Model A9319.

  Supplied with tamper-resistant No. 6 x 3/8" screws. Wood screws also available on request.

Mortise key cylinder



Thumbturn with escutcheon

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Web: www.SouthernFolger.com ■ Email: info@southernfolger.com

Key:	**Builders Hardware**
Door:	**Swinging**
Security Level:	**Minimum**

A9300 MAXI-MORTISE™

Strikes

A9300 Series Locks are supplied with ANSI curved lip strikes having a 1-1/4" lip length, for use with doors 1-3/4" to 2" thick. Buffed stainless steel finish only. Strike is handed to match lock and door. When ordering strikes separately, specify handing of lock.

- **Strike with indication switch –** For electrical monitoring.
- **Strike box –** Wrought steel, zinc plated, reversible for installation with flat or curved-lip strike.
- **Special lip lengths –** Strikes are installed 3/8" above the vertical centerline of the lock. 1-1/4" lip length is standard. 1-1/2" lip length is optional for doors from 2-1/8" to 2-1/4" thick.

918-D-S
Strike switch

918-L ANSI
Latchbolt-only strike
RH/LHR shown

918-LD ANSI
Latchbolt/ deadbolt strike
RH/LHR shown

918-D ANSI
Deadbolt strike
RH/LHR shown

918-DNL
Deadbolt strike without lip

900-BOX
Dust box

Handing

Handing of locks should be indicated when ordering. Guidelines shown on page C46 will assist in determining the hand. Door must be addressed from the key side, the cylinder side or the secured side.

How To Order

Specify:

1) Trim
   a. KR, Knob and rose set. (Safety knob available "SK", specify side).
   b. LT, LeverTrak® Guide with handle and rose.
   c. LTE, LeverTrak® Guide with handle, rose and escutcheon.
   d. SV – "Stateville" escutcheon plates with knob and rose sets.
2) Function (see function descriptions) A9309.
3) Handing (RH, LH, RHR, LHR).
4) Cylinder
   a. With cylinder(s) – include keying information.
   b. Less cylinders(s) – must use a Schlage "L" type cam (see previous page).
5) Door material/thickness
6) Strike lip length
   918 - 1-1/4" lip (s)
   914 - 1-1/2" lip (s)
7) Strike Switch(es)

EXAMPLE:
LT-A9309 LH Less cyls. 2"HM x 918-LS

The above is a public entrance lock with LeverTrak® Handle Guide, left hand, for use with customer-supplied cylinders, on a 2" hollow metal door, equipped with strike-mounted switch.

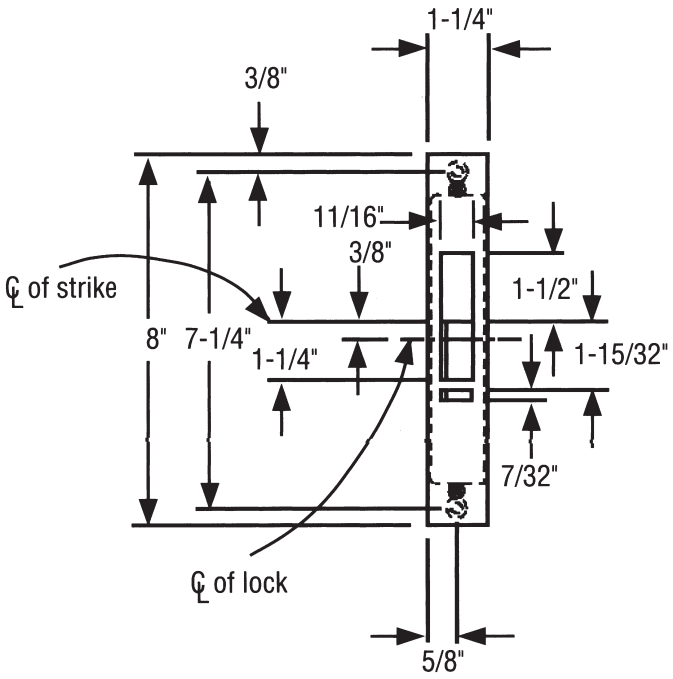
For more information, please call 210.533.1231.

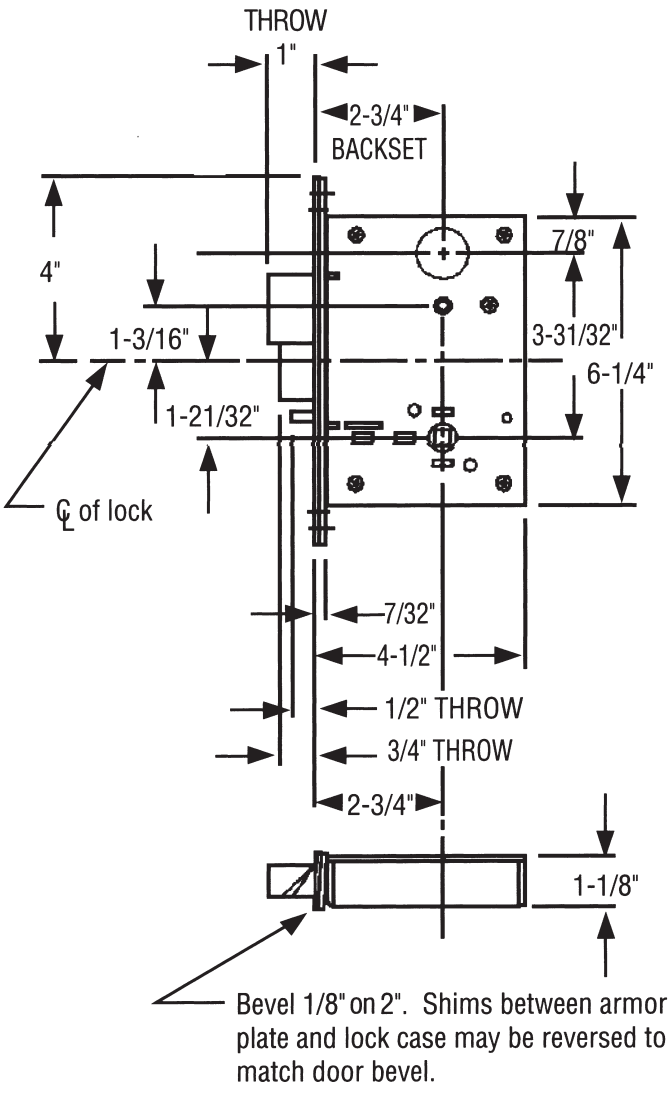
A9300 MAXI-MORTISE™

Key:	Builders Hardware
Door:	Swinging
Security Level:	Minimum

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.





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9300 LOCK CONVERSION CHART

FANSI NUMBER	FANSI NAME	LATCH-BOLT	DEAD-BOLT	DEAD-LATCH	HANDLE	OUTSIDE KEY CYLINDER	HANDLE	INSIDE KEY CYLINDER	THUMBTURN
GROUP 3 – LATCH AND DEADBOLT									
9361	(112K Lock)	X	X		Active	Operates Deadbolt	Active		
9362	(102-10 Lock)	X	X		Inactive	Operates latch & deadbolt	Active		
9363	(112-10 Lock)	X	X		Inactive	Operates latch & deadbolt	Active	Operates latch & deadbolt	
9364	(112-11 Lock)	X	X		Inactive	Operates latch & deadbolt	Active		Operates latch & deadbolt
9365*	(112-12 Lock)	X	X		Inactive	MK operates latch & deadbolt	Active		
9366*	(112-13 Lock)	X	X		Inactive	MK operates latch & deadbolt	Inactive	MK operates latch & deadbolt	
9367*	(112-14 Lock)	X	X		Inactive	MK operates latch & deadbolt	Inactive		Operates latch & deadbolt
GROUP 4 – DEADLOCKING LATCH									
9371	(125-1-07 Lock)	X		X	Inactive	Operates latch	Inactive		
9372	(125-1-08 Lock)	X		X	Inactive	Operates latch	Inactive	Operates latch	
9373	(125-1-09 Lock)	X		X	No outside trim	Operates latch	Active		
9374	(125-1-11 Lock)	X		X	Inactive	No cylinder	Active	No cylinder	
9375	(125-4-01 Lock)	X		X	Inactive	Operates latch & locks out knob	Active – Unlocked & locked by key		
9376	(125-4-02 Lock)	X		X	Inactive	Operates latch & locks out knob	Active – Unlocked & locked by key	Operates latch & locks out knob	
9377	(125-4-03 Lock)	X		X	Active – Unlocked & locked by key	Operates latch & locks out knob	Active – Unlocked & locked by key		
9378	(125-4-04 Lock)	X		X	Active – Unlocked & locked by key	Operates latch & locks out knob	Active – Unlocked & locked by key	Operates latch & locks out knob	
9379	(125-4-09 Lock)	X		X	No outside trim	Operates latch & locks out knob	Active – Unlocked & locked by key		
9380	(125-4-10 Lock)	X		X	No outside trim	Operates latch & locks out knob	Active – Unlocked & locked by key	Operates latch & locks out knob	

*LCK - Change key operates latchbolt only. Master key operates latchbolt and deadbolt.

For more information, please call 210.533.1231.

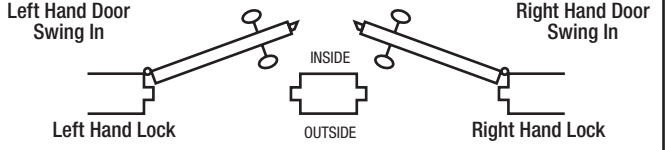
FOLGER ADAM MECHANICAL LOCKS

Key: Builders Hardware
Door: Swinging
Security Level: Minimum

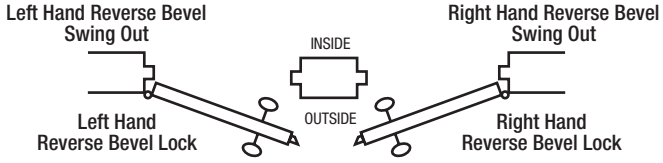
D9300/A9300 MAXI-MORTISE™

Specify circled swing number when ordering.

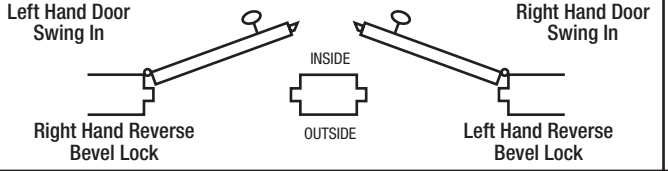
1 KEYED BOTH SIDES 2



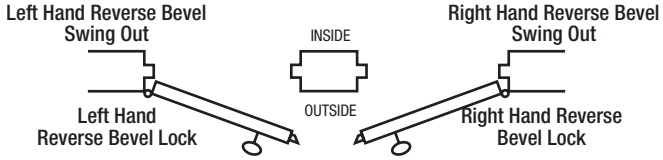
7 KEYED BOTH SIDES 8



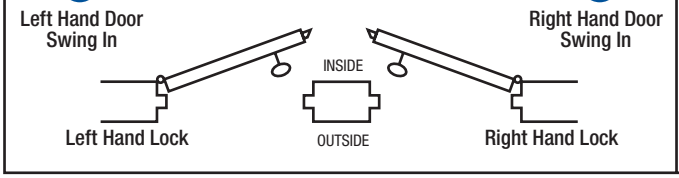
3 KEYED HINGE SIDE 4



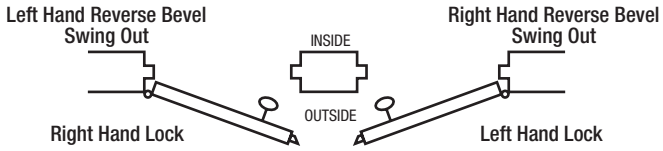
9 KEYED HINGE SIDE 10



5 KEYED STOP SIDE 6



11 KEYED STOP SIDE 12



= Indicates keyed side (or sides)
= Hollow metal jamb
= Symbolizes latch bolt

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INTRODUCTION

Definition

Locking Devices are mechanisms to control sliding doors on cell or corridor applications.

Drive Systems

Folger Adam locking devices are manufactured with a variety of dependable drive systems suitable for a range of applications and user preferences.

Application Benefits

Securing inmate cell or room doors with remotely operated locking devices offers a variety of benefits over key-operated locks. The following also apply to corridor operators:

- **Safety –** Doors are operated from a secure location, minimizing staff and inmate contact.
- **Security –** Locking components and mechanisms are inaccessible to inmates.
- **Efficiency –** Fewer staff members are needed for maintaining security and inmate movement.
- **Space-saving –** Sliding doors do not take up valuable corridor space and improve traffic flow.
- **Flexibility –** Combined with optional electric controls, these devices allow selective operation of single doors, groups of doors or all doors.
- **Life Safety –** Devices are normally equipped with emergency manual operation to provide egress in event of power failure or emergency.

Construction Notes

Although specific models are shown, locking devices are fabricated to specific requirements, using standard components for ease of maintenance. Floor plans should be reviewed, the security system analyzed, and the mechanism or series of mechanisms constructed to the building's needs. Advance coordination can help assure your satisfaction with devices and operators. Consult with us regarding the number of doors to be controlled, and other pertinent data so that we may make specific recommendations. Locking devices are shipped as a set of components and assemblies, ready to be installed. Prior to shipment, all units are tested. Motors and drive assemblies are operated, switches are electrically tested and pre-set (they may require adjustment on site), and surfaces are primed with rust inhibitors.

Qualification of Security Levels

The security level of a locking device or corridor operator is determined by its ability to endure in the specific environment in which it is used, the level of supervision within the area where it is installed, and a variety of other factors. These devices carry level-of-security designations. These designations are Southern Folger's evaluation of the ability of the product to withstand the rigors probable in that particular security level. The terms, minimum, medium and maximum, are used to describe the relative relationship of products to one another. Because of the number of variables affecting security level, the designations in this catalog should be considered as guidelines only.

Keys/Keying Security

Selected models of locking devices may be equipped with a front column containing optional operational features for local electric or mechanical control. All keys for these locks are registered prior to shipment to permit prompt, accurate response to requests for additional or replacement keys. Requests for keys may require authorization by the using facility. Keys are always sold separately and not included in the price of the lock, column, or device.

- Keys should be handled only by staff personnel.
- Keys should be stored in a locked cabinet, in the charge of an executive officer.
- Staff personnel should conceal the bitted end from the view of inmates. Key shields available.
- Keys should never be left in a lock cylinder or out of the reach of the officer.
- Doors should be closed and locked after use, and locks checked frequently for tampering and vandalism. Doors left open for extended periods should be subject to lock and bolt keeper inspection. This precludes obstructions which may interfere with proper operation.

Electrical Indication

Electrical indication, or monitoring of door status, is an important aspect of security. All Folger Adam locking devices incorporate the monitoring switches necessary to provide visual or other indication of door status at a remote cabinet or control panel. In a typical electrical control panel, operation switches are accompanied by indication lamps designed to clearly show door status. When ordered separately, mechanical, electrical, or a combination of both control methods may be supplied.

For more information, please call 210.533.1231.

LOCKING DEVICE SELECTION GUIDE AND SECTION INDEX

DOOR TYPE	DRIVE TYPE	RELEASE TYPE	SECURITY LEVEL	MODEL/ FEATURE	PAGE
Indoor cell or corridor	Manual	Mechanical	Maximum	102	D7-D8
Indoor/cell sliding	Roller Chain	Remote electric and mechanical	Maximum	2B.3 (2) (4)	D9-D11
Indoor/cell sliding	Rack & Pinion	Individual or gang	Maximum	3B.2 (2) (4)	D13-D15
Indoor/cell sliding	Manual	Individual or gang	Medium	KR.3 (1) (2) (4)	D17-D19
				Mechanical Control Cabinets	D21-D22
Indoor/corridor exterior gate sliding	Roller Chain	Remote electric local mechanical	Maximum	D (2) (3)	D23-D24
Indoor/corridor sliding	Roller Chain	Remote electric local mechanical	Maximum	D2B.3 (1) (2)	D25-D26
Indoor/corridor sliding	Rack & Pinion	Remote electric local mechanical	Maximum	D3B.2 (1) (2)	D27-D28
Indoor/corridor sliding	Roller Chain	Remote electric local electric and local mechanical	Maximum	D5B (2) (3)	D29-D30
Indoor/corridor sliding	Manual	Remote electric local mechanical	Medium/ Maximum	DKR.3 (2) (3)	D31-D32
Exterior/entry door/gate sliding	Roller Chain	Remote electric local mechanical	Maximum Maximum	G Bi-parting G (3)	D33-D34
Exterior/vehicle sliding	Roller Chain	Remote electric local mechanical	Medium	J (3)	D35-D36

Feature (1) Optional Front Column. (2) Deadlocks at two concealed points at the rear edge of the door. Locking components are not exposed at the front edge of the door and, therefore, not subject to tampering. (3) Standard Front Column provided. (4) Normally used in conjunction with a mechanical control cabinet.

The above is a general guideline. To determine specific models required for your application, refer to product pages for detailed descriptions.

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LOCKING DEVICE/DOOR OPERATOR APPLICATION GUIDELINES

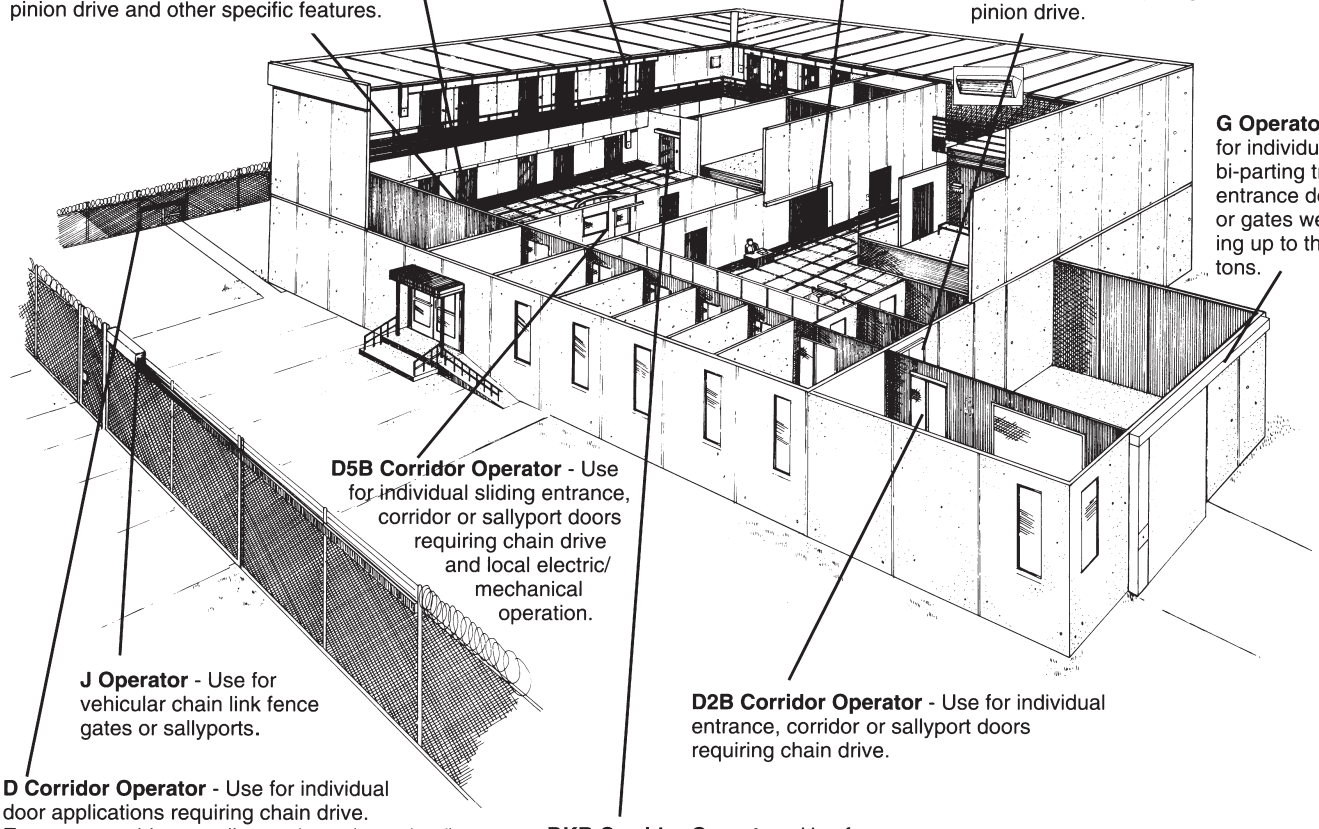
KR Locking Device - Use for any multiple, sliding cell door application with manual opening and closing of doors.

2B Locking Device - Use for all multiple, sliding cell door applications calling for chain drive and other specific features.

D Corridor Operator - Use for individual door applications requiring chain drive. Entrance, corridor, or sallyport doors (oversized), or pedestrian gates. Also heavy, high-usage doors.

3B Locking Device - Use for any multiple, sliding cell door application calling for rack and pinion drive and other specific features.

D3B Corridor Operator - Use for individual entrance, corridor, or sallyport doors requiring rack and pinion drive.



G Operator - Use for individual or bi-parting truck entrance doors, or gates weighing up to three tons.

D5B Corridor Operator - Use for individual sliding entrance, corridor or sallyport doors requiring chain drive and local electric/ mechanical operation.

J Operator - Use for vehicular chain link fence gates or sallyports.

D2B Corridor Operator - Use for individual entrance, corridor or sallyport doors requiring chain drive.

D Corridor Operator - Use for individual door applications requiring chain drive. Entrance, corridor or sallyport doors (oversized), or pedestrian gates. Also heavy, high-usage doors.

DKR Corridor Operator - Use for any individual sliding corridor or entrance door application with manual opening and closing of doors.

IMPORTANT NOTE: The above are guidelines and not specific recommendations. The security of a particular door or group of doors depends upon not only hardware employed, but also supervision both direct and indirect. For questions on application of a particular lock, contact the Southern Folger Marketing Department or your Regional Manager.

For more information, please call 210.533.1231.

LOCKING DEVICE APPLICATION GUIDELINES

Installation Overview

The purpose of this section is to provide an outline of the considerations involved in specifying a locking device. Complete installation information is issued on a per-job basis, so that the installer is able to perform efficiently. The data presented here is intended to assist the specifier in defining product functions for preparing specifications for locking device systems.

Electrical Wiring

Provision should be made for conduit connections to locking devices and operators, whether for interior or exterior application. All devices are shipped with motors and switches factory wired to a terminal strip. Additional field wiring may be required. The custom nature of locking device systems – number of doors, length of run, number of units, etc. – precludes total pre-wiring at the factory. Optional cell line cable is available, which provides simplified connection of the device drive system to the emergency release cabinet or as specified.

Devices recommended for indoor cells are provided with an internal wiring tray. This tray provides a routing path for wire and helps to keep wires away from the drive system of the device.

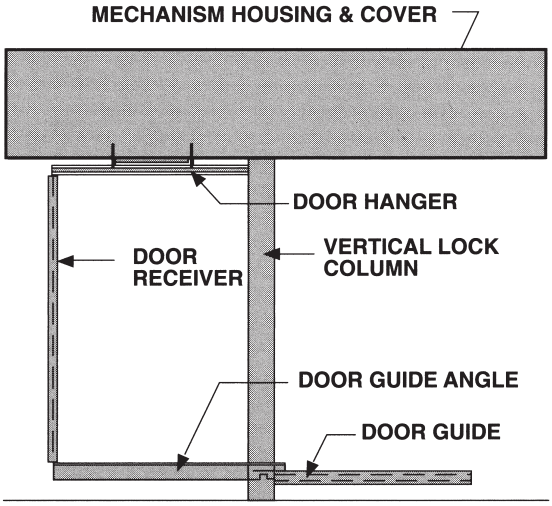
Physical Installation

A locking device is shipped from the factory in component assemblies for erection within the facility. A typical locking device consists of a mechanism housing, vertical lock column, door receiver, door hanger, door guide and guide angle, and control cabinet. The list of components may vary depending upon the specific device ordered.

Hardware Interface

Other hardware will be needed to install the devices, which is not provided by Southern Folger. Doors, frames and embedded items, such as mounting angles, anchors and bolts (in the case of masonry walls) must be ordered to allow attachment of the locking device or operator to the wall in accordance with our installation instructions. Coordination between the specifier of a locking device system and the factory is essential to ensure trouble-free installation. Consult with us early in the planning stages for assistance.

Southern Folger offers technical and design services to the specifier which are backed by over a century of experience in the detention equipment industry. For any question of application or operation of a specific device or operator, contact the factory for further information.



TYPICAL DEVICE LEFT HAND SHOWN

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GUIDE TO SPECIFICATION PREPARATION

Considerations

1. Application
   a. Multiple cell doors
   b. Individual corridor door
2. Location of door(s)
   a. Interior
   b. Exterior
3. Overall number of doors to be controlled
4. Door model/size/weight
5. Wall type
   a. Masonry
   b. Concrete
   c. Plate
6. Drive type
   a. Chain
   b. Rack and Pinion
   c. Manual
7. Control required
   a. Mechanical
      1. Mechanical at the door
      2. Mechanical remote gang unlocking
   b. Electrical
      1. Electrical at the door
      2. Electrical remote
      3. Electrical inmate
   c. Customized system
   d. Control location
      1. Adjacent to door
      2. End of cell run
      3. Remote control room
8. Optional features required
   a. Front release column
   b. Key switch operation
   c. Mechanical release system
   d. Wire harness (2B, 3B, KR)
   e. Deadlock-open feature (2B, KR, DKR)
   f. Three light indication (2B, KR)

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Drive:	**Manual**
Release:	**Individual**
Security Level:	**Maximum**

102 TRACK AND HANGER SETS

Description

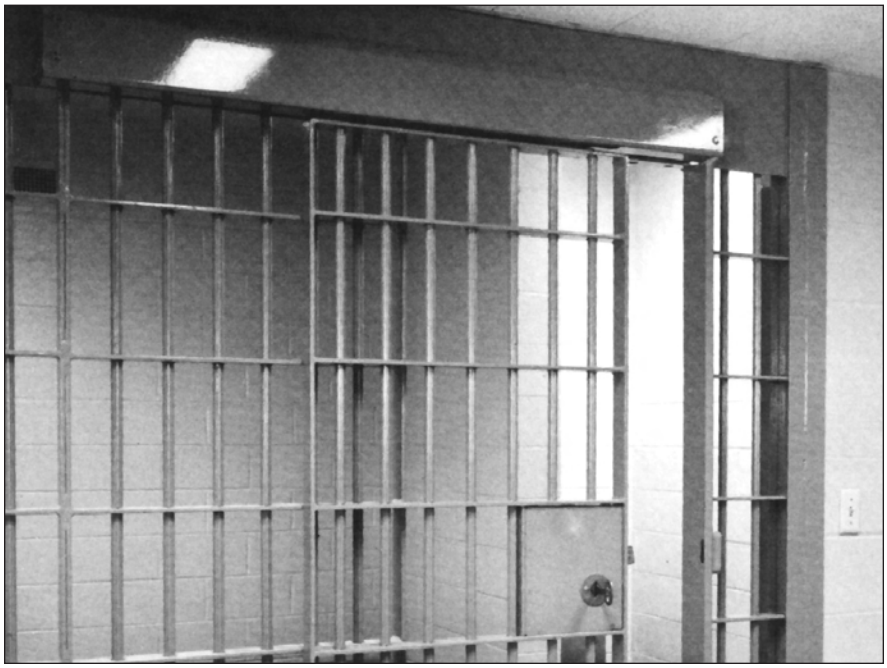
Track and hanger sets are overhead supporting devices for manually-operated sliding doors ranging in width from 2'0" to 3'6" up to a maximum weight of 350 pounds.

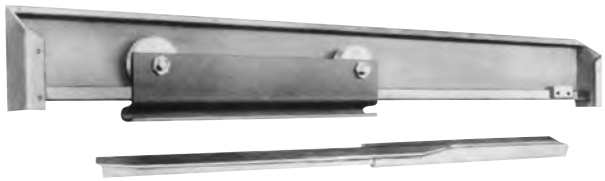
Applications

Track and hanger sets may be used for cell or corridor doors on grille, masonry or plate wall construction. Three standard housing sizes suit most door sizes and applications. Specify type of wall for guide mounting.

Standard Features

- **Self-contained –** Each set consists of a track box and cover, door hanger with adjustable rollers for leveling, door guide and door guide angle.
- **Heavy housing construction –** 10-gauge steel with cold-finished steel track.
- **Sloped-top housing –** 10-gauge steel, sloped to prevent hiding of contraband.
- **Corrosion-resistance –** Working parts resist rust and corrosion.
- **Tamper-resistance –** Cover provided with tamper-resistant screws.
- **Adjustable door rollers –** Eccentric bushings permit adjustment to level the door.
- **Smooth operation –** Door rollers 3-3/4" x 1" thick, zinc plated steel with sealed, anti-friction bearings.
- **Adjustable door stop –** Steel block attached to track with setscrews.
- **Non-handed –** Reversible for doors sliding to right or left.





- **Finish –** USP Primed for painting.
- **Rubber bumper –** Attached to doorstop, cushions door in the open position to reduce noise.

Optional Features

- **Indication switch –** An internal switch monitors position of the door indicating either open or closed status. Add suffix "L" when ordering.
- **Door starter –** A spring-loaded plunger to push a door slightly open after unlocking. Used with remote controlled electric locks or mechanical locks to move door open once unlocked. Add suffix "S" when ordering.
- **Custom sizes –** Sets may be constructed for wider and heavier doors. Consult the factory with your specific application.
- **Continuous housing –** Sets may be built to suit the width of a group of cells and may contain a wire tray for cell line cable connecting locks to a common point at the end of a cell run.

For more information, please call 210.533.1231.

Drive:	Manual
Release:	Individual
Security Level:	Maximum

102 TRACK AND HANGER SETS

- **Door receivers or electric lock columns –** Receivers may be supplied to capture the front edge of the door. Lock columns provide a method of mounting a lock, protecting the wiring and installing the door receiver.

Electrical Characteristics

(Indication switch)

Single-pole, double-throw (SPDT), 15 amps @ 125 or 250 VDC.

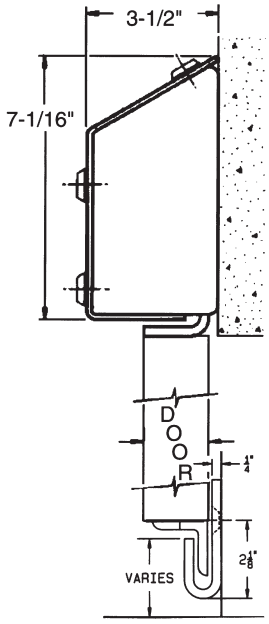
Dimensional Data

Note: Dimensions are for information and planning purposes only and should not be used as templates.

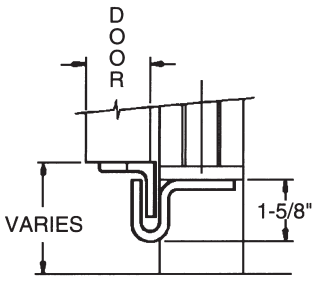
Models Available

Model	Description	Door Width	Cell Structure	Weight (lbs.)
102-1G	Track/hanger set	2'-0" – 2'-6"	Grille	95
102-1M	Track/hanger set	2'-0" – 2'-6"	Masonry	95
102-2G	Track/hanger set	2'-6" – 3'-0"	Grille	110
102-2M	Track/hanger set	2'-6" – 3'-0"	Masonry	110
102-3G	Track/hanger set	3'-0" – 3'-6"	Grille	125
102-3M	Track/hanger set	3'-0" – 3'-6"	Masonry	125

NOTE: When a door width falls between two track set sizes, specify the smaller size.



Masonry installation



Grille installation

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

2B.3 SLIDING DOOR LOCKING DEVICE

Description

Type 2B.3 locking devices are high security, motorized sliding cell door operating and locking systems for use with any doors not exceeding 300 pounds.

Applications

2B.3 devices are applicable to any multiple cell or inmate room door situation. Optional controls provide selective operation of single or groups of doors simultaneously.

Functions

Unit unlocks, opens and deadlocks open, or closes and deadlocks closed, pre-selected individual doors or door groups, via optional electric controls. Gang release is by mechanical release cabinet.

Door movement may be stopped in mid-travel. The door is not free-wheeling in the electrical mode. Pressure exerted by a door in travel is factory set at approximately 40 pounds. Force is adjustable between 20 and 50 pounds.

Direction of travel of any individual or selected group of doors may be reversed without interrupting the operation of other doors.

When a single door is blocked, there is no interruption in the operation of any other door in the group. On removal of the blockage, the door will automatically continue movement to the open or closed position.

In event of emergency or power failure, any door may be unlocked manually at the door, and moved by hand without changing the locked status of any other doors.

In event of power failure, doors may be manually opened or closed by sliding the door.

Locking System

Upon closure, each door automatically deadlocks at two concealed points at the rear edge of the door. Upon opening, each door automatically deadlocks open at the front edge of the door. Locking components are not exposed at the front edge of the door and, therefore, not subject to tampering. Components do not project into the door opening.

Testing

Type 2B Series has been in service since 1962, and this system has been tested at 500,000 cycles.

Standard Features

- **Motor voltage –** 120 VAC.
- **Plug-type connectors –** Simplified wire harness installation.
- **Rugged chain drive –** Provides consistent action of the door under a variety of conditions and installation variables.
- **Heavy duty construction –** 2B.3 devices are built for the rigors of maximum security applications.

For more information, please call 210.533.1231.

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

2B.3 SLIDING DOOR LOCKING DEVICE

- **Tamper-resistance –** Openings in housings are baffled to resist inmate tampering.
- **Selective operation –** Single or groups of doors may be simultaneously opened or closed and deadlocked.
- **Adjustable torque limiter –** Simple adjustment of force exerted by the door. May be set between 20 and 50 pounds.
- **Sloped-top housing –** Resists hiding of contraband. Flat-top housing provided where device must install close to ceiling.
- **Fixed hinge cover –** Allows maintenance without the need to lift heavy covers off the device.
- **Cover lock –** Device mechanisms are concealed by an outer cover and unlocked from the release cabinet.
- **Automatic deadlocking –** When fully closed or open, independent top and bottom locking points on the rear of each door automatically deadlock.
- **Indication switch –** Monitors the deadlocked condition of both locking points.
- **Gang release –** From mechanical release cabinet.
- **Self-contained –** A continuous, surface-mounted housing contains the drive and mechanical release mechanisms and wiring.
- **Removable end battens –** Simplify installation of wire harnesses.
- **Full length wire tray –** Simplifies routing of electrical wire/harnesses. Runs the full length of the housing.

Optional Features

- **Key switches –** May be added in columns or nearby for local electric control.
- **Two point locking mechanical release cabinet –** A three-position lever handle or crank handle is provided.
  Lever provides:
  1. Electric operation – Door control from a remote location.
  2. Release ports open – Opening of individual release ports. Doors to be individually released at the door with a removable handle. Covers are also individually released from the port.
  3. Emergency unlock – Gang release of all doors in event of emergency or power failure.
- **Electrical/mechanical control cabinet –** Electrical switches may be ordered to provide control of each door in addition to mechanical function. These switches may be built into the same cabinet as the mechanical levers, or located remotely as required. The following switch functions are available:

  Three-position operating switches – (OPEN-GROUP-CLOSE).

  Group switch – Provides group control (OPEN-OFF-CLOSE).

  Power cut-off switch – Cuts off electrical current to controls.

  Indication lamps – Red and green indicator lamps may be installed with switches to show deadlocked, closed, or open status of each door.
- **Special indication lamps –** An additional (amber) lamp is available. When used, indication is as follows:

  Red - Locked open.

  Green - Deadlocked closed.

  Amber - Moving, or stopped in mid-travel.
- **Custom graphic controls –** In many cases, it may be desirable to separate electric controls from the mechanical release cabinet located near the cells. For larger installations, or those with particular needs, custom-built control consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.
- **Wire harness –** For applications using a series of locking devices, a wire harness(es) may be specified to interconnect terminal strips in the mechanical control/release cabinet to a plug connector at the door operating unit. Simplifies routing of wire, and saves installation cost and time.
- **G90 galvanized finish available.**

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

2B.3 SLIDING DOOR LOCKING DEVICE

Specifications

- **Drive system –**

  Rate of travel: Opens or closes a 30" door in approximately 6 seconds.

  Motor: 120 VAC, 60 HZ, 1/20 HP.

  Roller chain: #41 size.

  Hanger and guides: 1/4" thick steel.

  Rollers: Cold formed steel. Rollers are mounted on hardened ball bearings protected by internal grease shields.

  Finish: USP.

- **Mechanism housing/covers –**

  Housing: 7-gauge steel.

  Housing covers: 10-gauge steel, hinged to housing.

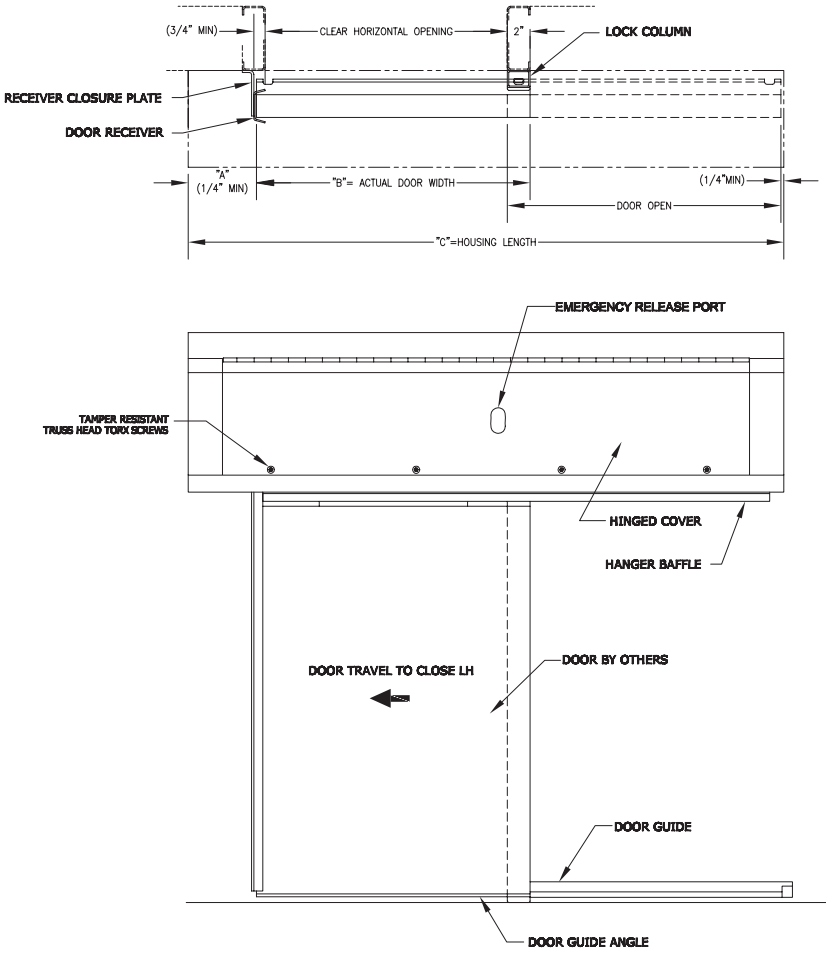
  Vertical lock column housing: 1-1/2" x 2" x 11 gauge steel tubing on solid steel cast bottom.

  Wire tray: 16-gauge steel tray.

  Front receiver column (optional): 10-gauge steel.

  Finish: USP primed.

Typical 2B.3 slope-top elevation.
Left hand (LH) as shown.
Right hand (RH) opposite as shown.



Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

The illustration shown is intended for general information and planning purposes only. Folger Adam locking devices are fabricated to the design of the facility.

For more information, please call 210.533.1231.

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Drive:	**Rack and Pinion**
Release:	**Individual and/or Gang**
Security Level:	**Maximum**

3B.2 SLIDING DOOR LOCKING DEVICE

Description

Type 3B.2 locking devices are high security, motorized cell door operating and locking systems for use with doors not exceeding 300 pounds.

Applications

3B.2 devices are applicable to multiple cell or inmate room situation. Optional controls provide selective operation of single or groups of doors simultaneously.

Functions

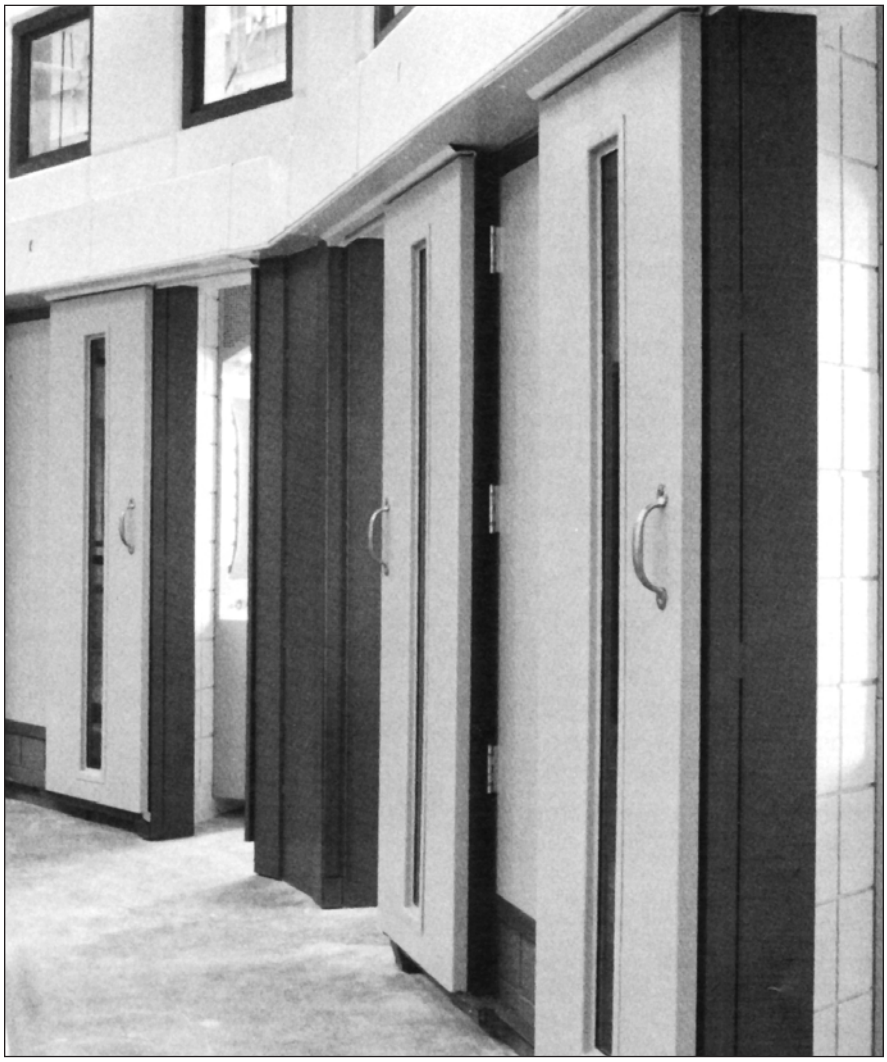
Unit unlocks, opens or closes and locks closed pre-selected individual doors or door groups, via optional electric controls. Gang release is via mechanical release cabinet.

Door movement may be stopped in mid-travel, leaving the door in a fixed (non-movable) position. The door must be moved (restarted) electrically or mechanically to the open or closed position to lock.

Direction of movement of any individual door may be reversed without interrupting the movement of any other door in the group.

When a single door is blocked, there is no interruption in operation of any other door in the group. On removal of the blockage, the door will automatically continue to the open or closed position.

In event of emergency, all doors may be unlocked from the mechanical release cabinet. In mechanical mode, the motor is disengaged from the rack, and doors may be unlocked or relocked using a special tool.



In event of power failure, all doors remain in a fixed position, and must be operated mechanically. Doors are free-wheeling when released.

Locking System

Upon closure, each door automatically locks at two concealed points at the rear edge of the door. No locking components are exposed at the front edge of the door where they might be subject to tampering. Components do not project into the door opening.

Testing

Type 3B Series have been in service since 1972 and has been tested to 500,000 cycles.

For more information, please call 210.533.1231.

Drive:	**Rack and Pinion**
Release:	**Individual and/or Gang**
Security Level:	**Maximum**

3B.2 SLIDING DOOR LOCKING DEVICE

Standard Features

- **Motor voltage –** 120 VAC.
- **Rack and pinion gear drive.**
- **Heavy duty construction –** 3B.2 devices are built for the rigors of maximum security applications.
- **Tamper-resistance –** Openings in housings are baffled to preclude inmate tampering.
- **Selective operation –** Single or groups of doors may be simultaneously opened, or closed and locked.
- **Sloped-top housing –** Resists hiding of contraband. Flat-top housing is provided where the device must install close to the ceiling.
- **Automatic locking –** When fully closed, top and bottom locking points on the rear of each door are forced down into the deadlocked position.
- **Indication switch –** Monitors the locked condition of both locking points.
- **Gang release –** From mechanical release cabinet.
- **Self-contained –** A continuous, surface-mounted housing contains the drive and mechanical release mechanisms and wiring.
- **Full length wire tray –** Simplifies routing of electrical wire/harnesses. Runs the full length of the housing.
- **Terminal strips –** All internal components are pre-wired to a terminal strip. The strip is also used for ease of field wiring.

Optional Features

- **Mechanical release cabinet –** See page D21-22.
- **Key switches –** May be added in columns or nearby for local electric control.
- **Electrical/mechanical controls –** Electrical switches may be specified to provide control of each door in addition to mechanical function. These switches may be built into the same cabinet as the mechanical levers, or located at a remote console, as needs dictate. The following switch functions are available:

  Three-position operating switches – (OPEN-GROUP-CLOSE).

  Group switch – Provides group control (OPEN-OFF-CLOSE).

  Power cut-off switch – Cuts off electrical current to controls.

  Indication Lamps – Red and green indicator lamps may be installed in conjunction with switches to show locked, closed, or open status of each door. When used, the indication is as follows:

  Red – Unlocked, moving or stopped in mid-travel.

  Green - Locked closed.

- **Custom graphic consoles –** In many cases, it may be desirable to separate electric controls from the mechanical release cabinet located near the cells. For larger installations, or those with particular needs, custom-built control consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.
- **Cell line cable –** For applications using a series of locking devices, a cell line cable may be specified to interconnect to terminal strips in the mechanical control/release cabinet. Simplifies routing of wire and saves installation cost and time.
- **G90 galvanized finish available.**

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Drive: Rack and Pinion
Release: Individual and/or Gang
Security Level: Maximum

3B.2 SLIDING DOOR LOCKING DEVICE

Specifications

- **Drive system –**

  Type: Rack and Pinion.

  Rate of travel: Opens or closes a 2'4" door in 5 seconds.

  Motor: 120 VAC, 60 HZ, 1/20 HP.

  Hanger and guides: 1/4" thick steel.

  Rollers: Steel with ball bearings.

  Finish: USP.

- **Mechanism housing/covers –**

  Housing: 7-gauge steel.

  Housing covers: 10-gauge steel.

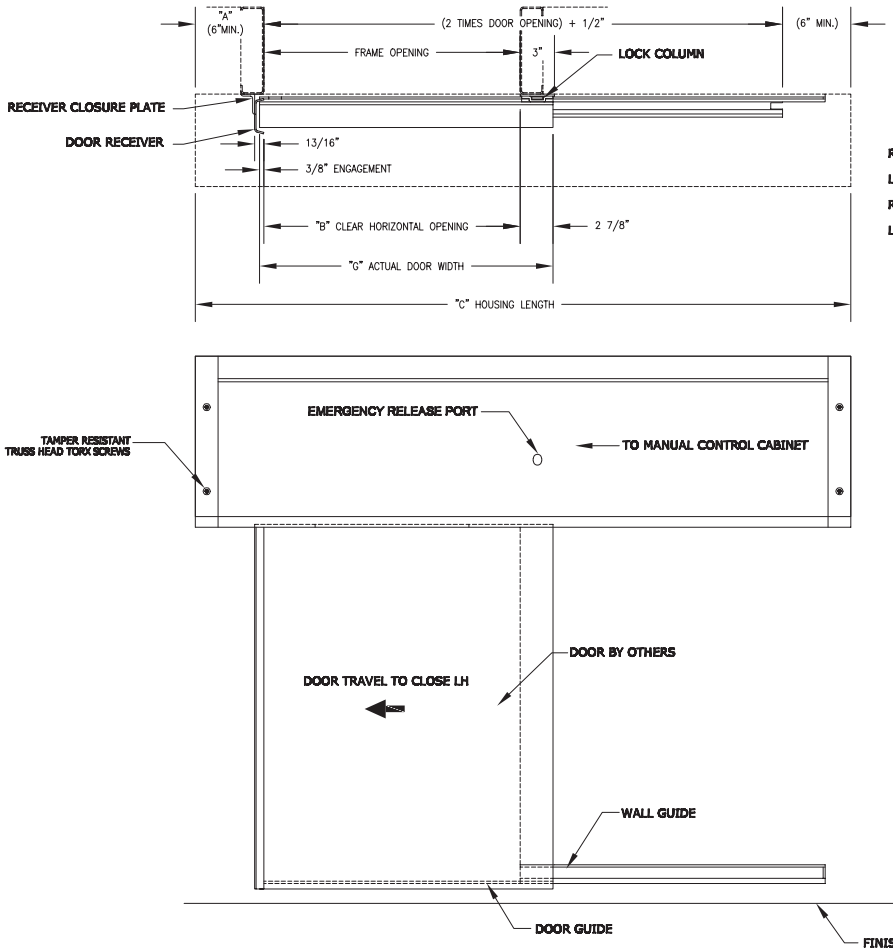
  Vertical lock column housing: 7-gauge steel.

  Wire tray: 16-gauge steel tray.

  Front receiver column (optional): 7-gauge steel.

  Finish: USP.

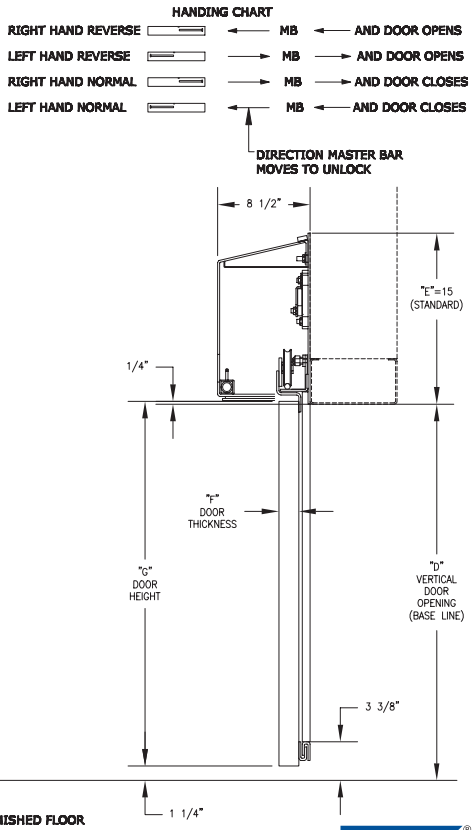
Typical 3B.2 slope-top elevation.
Left hand normal (LHN) as shown.
Right hand normal (RHN) opposite as shown.



Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

The illustration shown is intended for general information and planning purposes only. Folger Adam locking devices are fabricated to the design of the facility.



For more information, please call 210.533.1231.

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Drive:	**Manual**
Release:	**Individual and/or Gang**
Security Level:	**Medium**

KR.3 SLIDING DOOR LOCKING DEVICE

Description

Type KR.3 devices are medium security, sliding cell door locking devices for use with doors not exceeding 300 pounds.

Applications

KR.3 devices are applicable to any multiple cell or inmate room door situation requiring selective, remote, electrical unlocking and manual movement of the door either open or closed.

Functions

Unit unlocks selected individual doors from a remote push button. A door starter then opens the door(s) a few inches.

Doors opened or closed manually automatically snaplock and deadlock.

In event of emergency or power failure, gang unlocking is accomplished in a remote, mechanical release cabinet. Doors are then opened the remainder of the way by hand.

Locking System

Upon closure, each door automatically deadlocks at two concealed points at the top and bottom rear edge of the door. Upon opening, each door automatically deadlocks open at the front edge of the door. Locking components are not exposed or subject to tampering. Components do not project into the door opening.

Testing

Type KR Series have been in service since 1962, and has been tested to 500,000 cycles.

Standard Features

- **Motor voltage –** 120 VAC.
- **Plug-type connectors –** Simplified wire harness installation.
- **Individual motor unlocking –** Each door is unlocked by its own motor.

For more information, please call 210.533.1231.

KR.3 SLIDING DOOR LOCKING DEVICE

Drive:	**Manual**
Release:	**Individual and/or Gang**
Security Level:	**Medium**

- **Heavy duty construction –** KR.3 devices are ruggedly built for a range of detention environments.
- **Tamper-resistance –** All openings in housings are baffled to resist inmate tampering.
- **Selective unlocking –** Each door may be unlocked by an individual control switch, group-unlocked with an all-door switch, or individually released through a port.
- **Sloped-top housing –** Resists hiding of contraband.

  Flat-top housing is provided where the device must install close to the ceiling.
- **Fixed hinge cover –** Allows maintenance without lifting heavy covers off the device.
- **Automatic deadlocking –** When fully closed or open, independent top and bottom locking points on the rear of each door automatically deadlock.
- **Indication switch –** Monitors the deadlocked condition of both locking points and mid-travel.
- **Two point locking mechanical release cabinet –** A three-position lever handle or crank handle is provided.
  Lever provides:
  1. Electric operation – Door control from a remote location.
  2. Release ports open – Opening of individual release ports. Doors to be individually released at the door with a removable handle. Covers are also individually released from the port.
  3. Emergency unlock – Gang release of all doors in event of emergency or power failure.
- **Full length wire tray –** Simplifies routing of electrical wire/harnesses. Runs the full length of the housing.
- **Removable end battens –** Simplify installation of wire harnesses.
- **Locked open feature –** Permits doors to be held open and immovable.

Optional Features

- **Motor voltage –** 24 VDC.
- **Mechanical release column –** A release column containing a No. 82 Deadlock may be added to provide local mechanical locking and unlocking by paracentric prison key.
- **Two-position motor (MC) –** Unlocks the door by an electric switch. Once unlocked, the mechanism remains in the unlocked position until electrically selected to relock. The door may then be deadlocked in either the open or closed position.
- **Key switch –** An electric key switch may be added to the above column for local electric control.
- **Inmate control feature –** Release columns may be equipped with an inmate push button on the cell side, and a key cylinder on the outside. Inmates may exit by pressing the push button, and reenter using a key. Feature may be canceled at a remote console or other control point.
- **Electrical/mechanical control cabinet –** Electrical switches may be ordered to provide control of each door in addition to mechanical function. These switches may be built into the mechanical release cabinet, or located remotely as needs dictate.
  1. Individual Push Button Unlocking.
  2. Group Switch – Provides group unlocking.
  3. Power Cut-off Switch – Cuts electric current to controls.

  Indication lamps may be installed in conjunction with switches to show deadlocked closed or open status of each door. When used, indication is as follows:

  Red – Open or locked open.

  Green – Deadlocked closed.
- **Custom graphic consoles –** In many cases, it may be desirable to separate electric controls from the mechanical cabinet located near the cells. For larger installations, or those with particular needs, custom-built consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.
- **Cell line cable –** For applications using a series of locking devices, a cell line cable may be specified to interconnect terminal strips in the mechanical control/release cabinet to a plug connector at the door operating unit. Simplifies routing of wire, and saves installation cost and time.
- **G90 galvanized finish available.**

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Drive:	**Manual**
Release:	**Individual and/or Gang**
Security Level:	**Medium**

KR.3 SLIDING DOOR LOCKING DEVICE

Specifications

- **Unlocking system –**

  Type: Manual door movement.

  Motor: 120 VAC, 60 HZ, or 24 VDC.

  Hanger and guides: 1/4" thick steel.

  Rollers: Cold formed steel. Rollers are mounted on hardened ball bearings protected by internal grease shields.

  Finish: USP.

- **Mechanism housing/covers –**

  Housing: 7-gauge steel.

  Housing covers: 10-gauge steel, hinged to cover.

  Vertical lock column housing: 7-gauge steel.

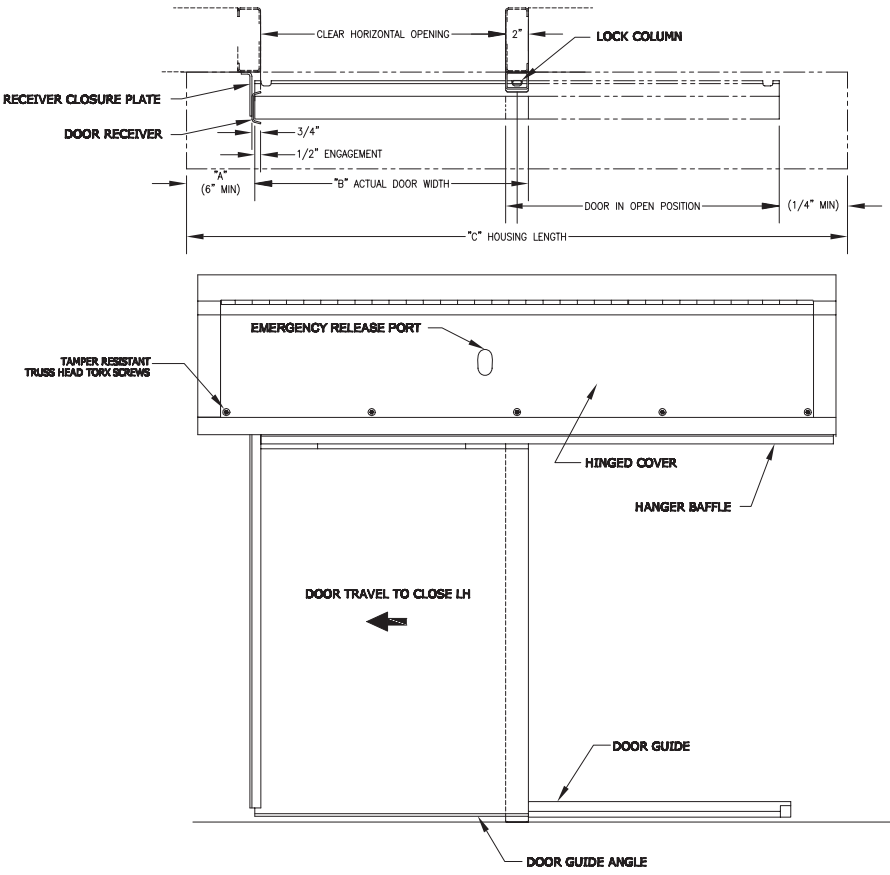
  Mechanical release column (optional): 7-gauge steel.

  Wire tray: 16-gauge steel tray.

  Front receiver: 10-gauge steel.

  Finish: USP.

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



Dimensional Data

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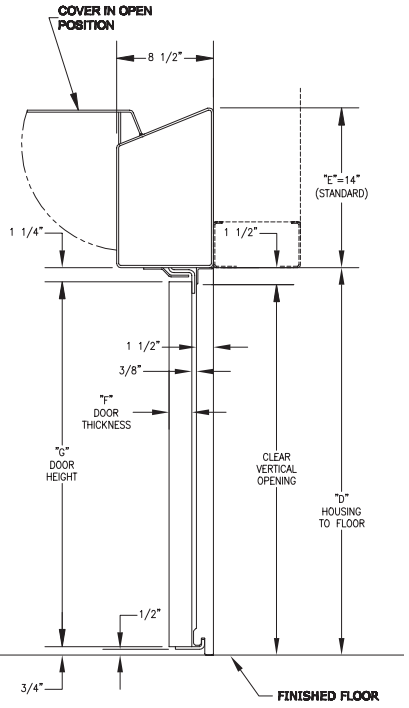
The illustration shown is intended for general information and planning purposes only. Folger Adam locking devices are fabricated to the design of the facility.



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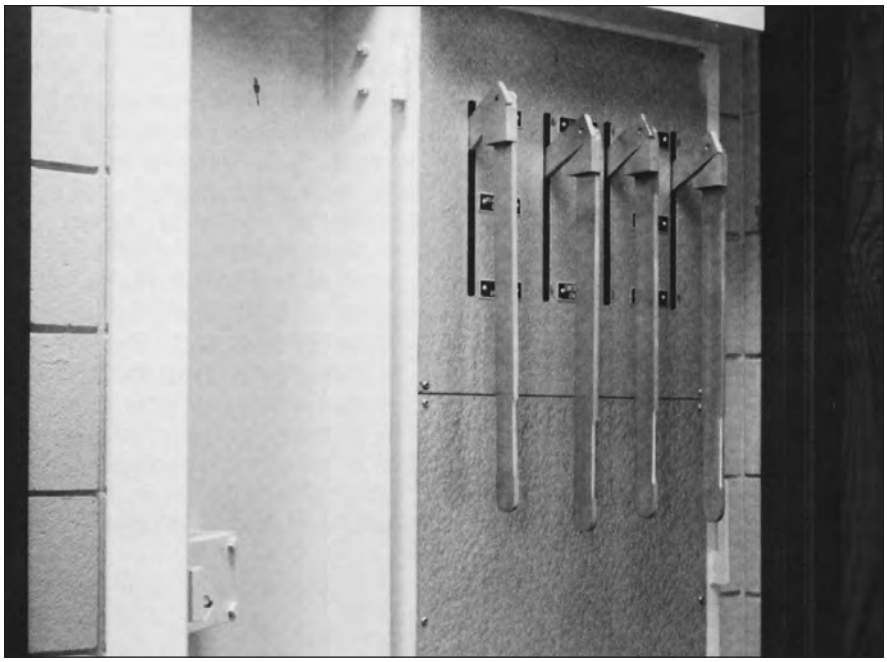
MECHANICAL CONTROL CABINETS

Introduction

In most cell door locking device systems, a combination of electrical and mechanical controls are needed to provide day-to-day operation and permit inmate movement. Electrical controls offer selective operation under normal circumstances and should be specified separately from locking devices or operators. To provide operation in event of emergency or power failure, mechanical release cabinets are offered. These permit release of rows or tiers of cell doors for manual opening and allow egress. In designing a security system, mechanical cabinets should be located in a secure area, contiguous to the cell run or tier to be controlled.



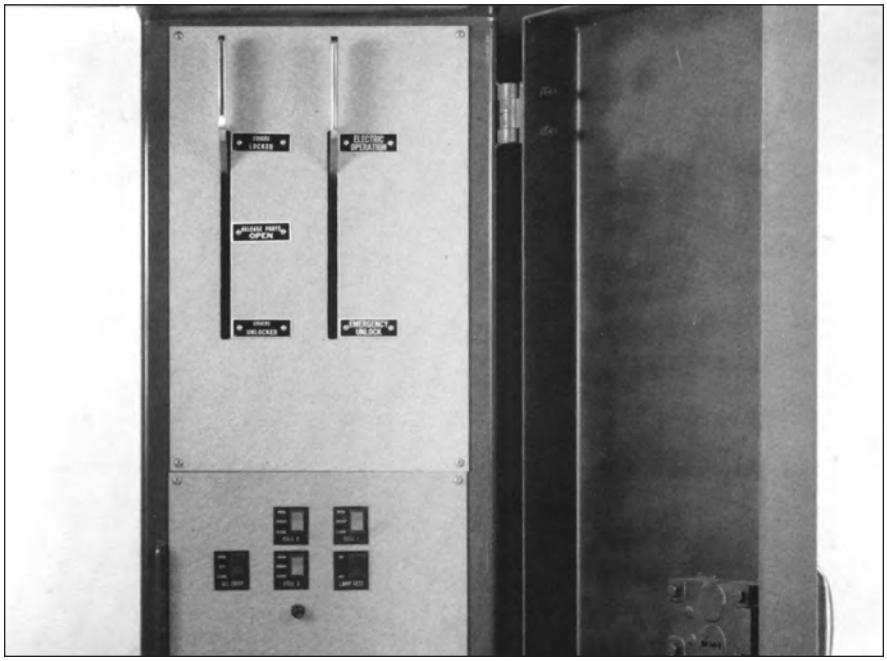
Mechanical Release Cabinet with folding telescopic handles (shown with door open). Release lever handles vary with the number of devices they release.

Functions

Mechanical Only

In a basic mechanical cabinet, a single lever control allows staff to unlock a group of cell doors. In the locked position, the locking mechanism of the overhead device is engaged and all doors are locked. When the lever is in the unlocked position, the mechanisms are disengaged and doors may be opened manually. Consult the product pages in this section for the method applicable to the device you are specifying.

In a basic cabinet, one lever locks or unlocks the locking system of a group of doors. Cabinet size and configuration may easily be customized to your specific application. In situations requiring control of multiple cell runs or tiers, additional lever controls may be



Electromechanical Control Cabinet with electrical switching (door open).

(continued)

For more information, please call 210.533.1231.

MECHANICAL CONTROL CABINETS

(continued from previous page)

added to allow single location operation. A maximum of eight levers may be combined into a single mechanical cabinet. With the cabinet described above, electric operation, or opening and closing of the individual cell doors, would be accomplished by electrical switch, key switch, push button, or other actuation method external to the cabinet.

NOTE: In cases where a mechanical cabinet is not specified to accompany locking devices, the devices are provided with special covers and housings which permit access to the mechanism for manual unlocking of each individual door.

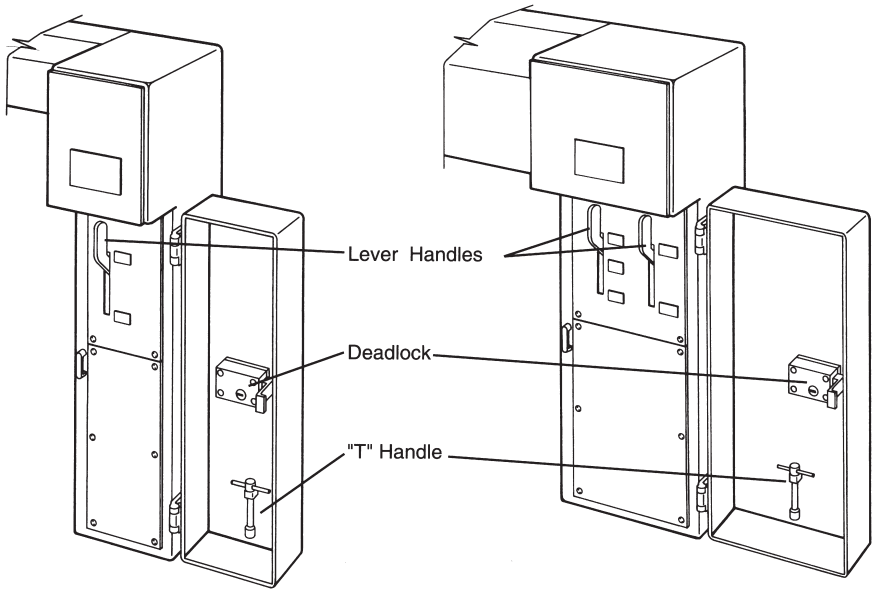
For individual mechanical operation in emergency or power failure, the cell release ports are opened from the mechanical cabinet. These ports provide access to a manual release system which is operated by a "T" handle, and releases individual doors. Refer to product pages as this feature is not available on all locking devices.

Mechanical/Electrical Operation

The custom nature of control cabinets allows the facility planner to combine electrical controls and mechanical release in the same cabinet. In this way, control/operation, and door status indication are centralized for staff safety and convenience, and the mechanical operation serves as a gang release or emergency release. Cabinets with electrical and mechanical controls offer operational versatility. When electrical controls are built into the same cabinet as the mechanical controls, each cell run or tier has two levers assigned. The first is the lock/unlock lever, the second selects mechanical operation in one position, and electrical operation in the other. Long runs of cells may require the addition of breech handles, or a crank and gear box to the cabinet. Release cabinets can be built for virtually any application. Consult with us early in the planning stages of your project for assistance.

Additional Data

Mechanical control cabinets are constructed of heavy duty materials, and the cabinet doors are secured by detention-quality, lever tumbler locks. Specifications are given on product pages in this section. The following illustrations show typical mechanical control cabinets and provide general information. This information is for reference only. Please contact us with your specific application requirements.



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

D CORRIDOR DOOR OPERATOR

Description

Type D Operators are high security, motorized door operating systems for use with doors weighing up to 450 pounds.

NOTE: Units may be adapted to operate doors up to 1,000 pounds

Applications

Type D Operators should be specified for entrances, security vestibules, or corridor doors in maximum security areas. May also be specified for exterior pedestrian gate applications.

Functions

Unit unlocks, opens and locks open; or unlocks, closes and deadlocks closed, an individual door.

Movement of a door may be stopped in mid-travel to reverse its direction. When interrupted, the door is not free-wheeling.

Interlocking: Any door not closed and deadlocked will also prevent electric operation of all other interlocked doors.

Manual emergency locking, unlocking and operation is accomplished by a clutch release and crank located in the locking column.

Locking System

The door automatically deadlocks closed at two concealed points at the rear edge of the door. Locking components are not exposed at the front edge of the door and, therefore, not subject to tampering. No components project into the door opening.

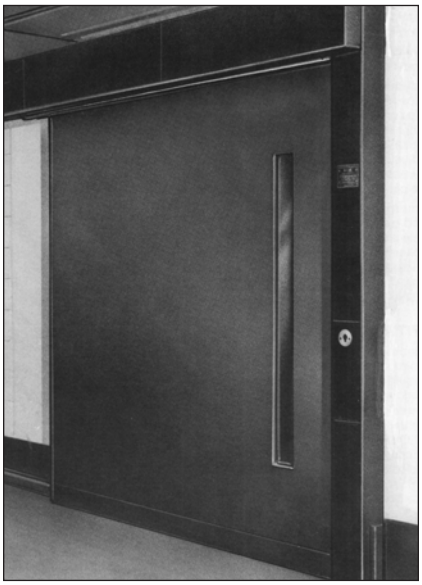
Testing

Type D Operators have been in service since 1949, and tested to 500,000 cycles.

Standard Features

- **Motor voltage –** 208 VAC.
- **Rugged chain drive –** Provides consistent action of the door under a variety of conditions and installation variables.
- **Heavy duty construction –** Type D Operators are ruggedly built for a range of detention environments.
- **Tamper-resistance –** All openings in housings are baffled to preclude inmate tampering.
- **Sloped-top housing –** Resists hiding of contraband.

  Flat-top housing is provided where operator must install close to ceiling.
- **Automatic deadlocking –** Doors automatically deadlock at two concealed points at the rear of the door on closure.
- **Indication switch –** An internal switch monitors deadlocked condition of both locking points
- **Terminal strip –** All internal components are pre-wired to a terminal strip. The strip is also used for ease of field wiring.
- **Adjustable friction clutch –** In case of door blockage, clutch slips until obstruction is removed. If not removed, power to the motor is cut to avoid damage. Adjustment is provided to compensate for various sizes and weights of doors.



- **Emergency manual unlocking and operation –** In event of power failure, unlocking the column provides access to the release mechanism. The door may then be operated by hand crank.
- **G90 galvanized finish.**

Optional Features

- **Electrical control cabinet –** Control cabinets may be furnished to house all wiring and switches for each door controlled. Three push buttons are provided for each door, labeled: OPEN-CLOSE-STOP. Two indicator lamps above the push buttons indicate door position:

  Red – OPEN.
  Green – CLOSED and deadlocked.

For more information, please call 210.533.1231.

D CORRIDOR DOOR OPERATOR

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

- **Electrical interlocking –** Wiring and adaptations may be made to permit interlocking of two or more doors in a sallyport or vestibule application. Prevents electric operation of any other interlocked door.
- **Custom graphic consoles –** In many cases, corridor operators are merely one part of a complete security system. For larger installations, or those with particular needs, custom-built control consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.
- Tandem wheel assemblies for doors over 500 lbs. or excess width.

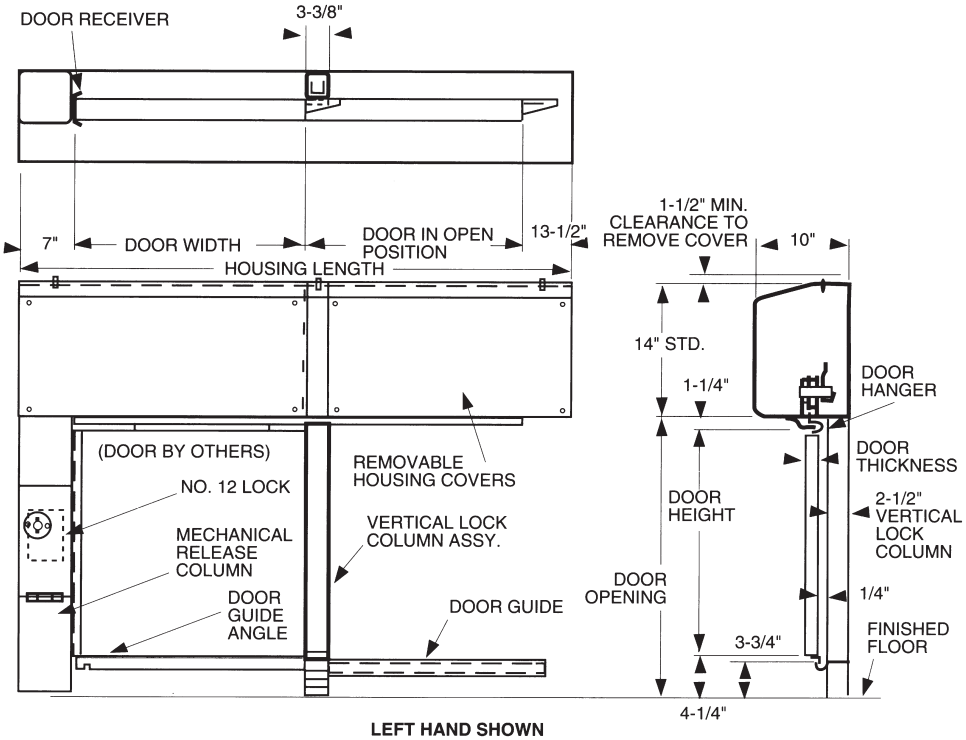
Specifications

- **Drive system –**
  - **Type:** Roller chain.
  - **Motor:** 208 VAC, 60 HZ, 1/4 HP.
  - **Roller chain:** #41 size.
  - **Hanger and guides:** 1/4" thick steel.
  - **Rollers:** Anti-friction ball bearing with hardened members and grease shield.
  - **Roller studs:** High alloy 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 covers:** 10-gauge steel.
  - **Mechanical release column:** 7-gauge steel.
  - **Front receiver:** 10-gauge steel.

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

The illustration shown is intended for general information and planning purposes only. Folger Adam locking devices are fabricated to the design of the facility.



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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.

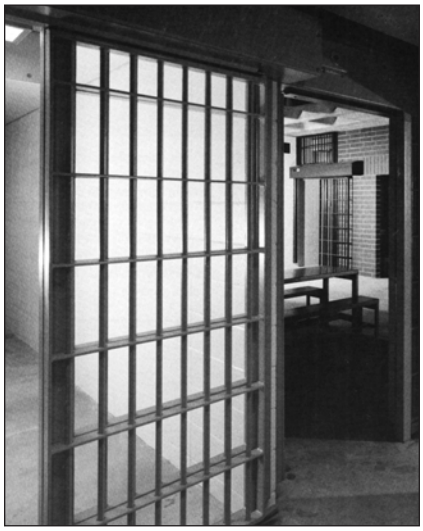
Testing

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.**

For more information, please call 210.533.1231.

D2B.3 CORRIDOR DOOR OPERATOR

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

- **Electrical interlocking –** Wiring and adaptations may be made to permit interlocking two or more doors in a sallyport or vestibule application. Prevents electric operation of any other interlocked door.
- **Custom graphic consoles –** In many cases, corridor operators are merely one part of a complete security system. For these larger installations, or those with particular needs, custom-built consoles may easily be provided with floor plan graphics screened on the control panel, and an array of specialized features.

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.

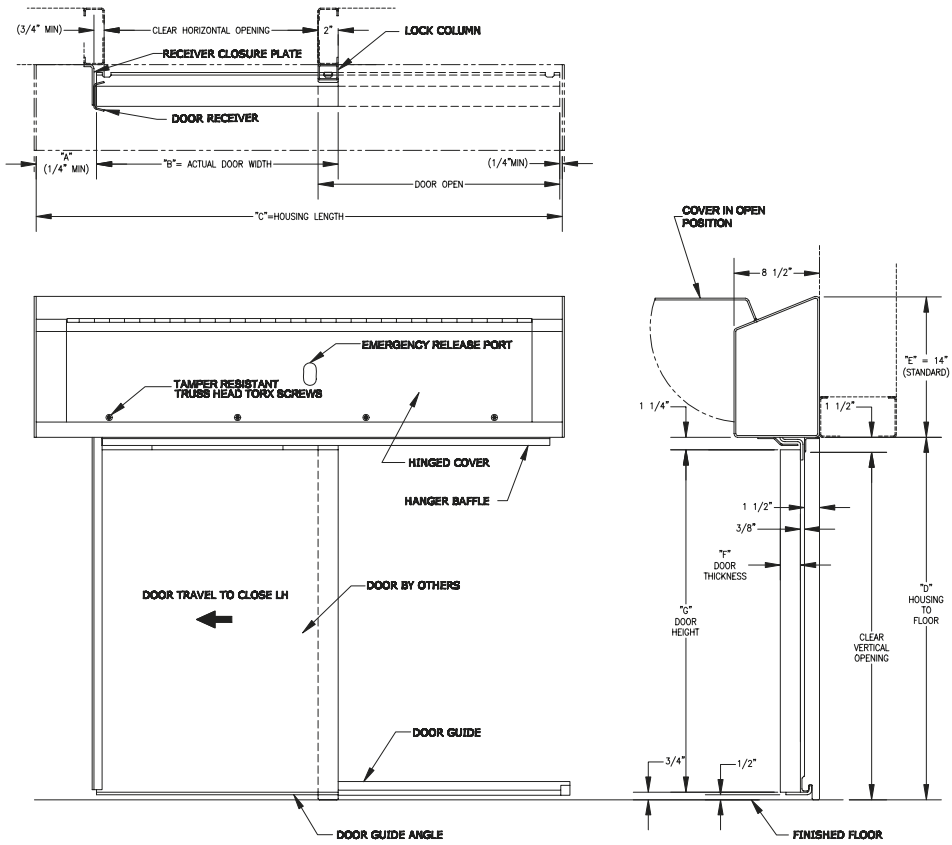
Dimensional Data

NOTE: If the optional mechanical release column is used, the 3" minimum at the front of the door is increased to the 7" width of the mechanical release column and the "No. 12 lock access to mechanical operation" is omitted from the removable housing cover.

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

The illustration shown is intended for general information and planning purposes only. Folger Adam locking devices are fabricated to the design of the facility.

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



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Drive: Rack and Pinion
Release: Remote Electric, Local Mechanical
Security Level: Maximum

D3B.2 CORRIDOR DOOR OPERATOR

Description

Type D3B.2 Operators are high security locking and operating systems for individual sliding doors to a maximum weight of 350 pounds.

Applications

D3B.2 Operators should be specified for security entrances, corridor doors, safety vestibules, or sallyports where remote electric control and precise rack and pinion drive are desirable.

Functions

Unit unlocks, opens and locks open; or unlocks, closes and deadlocks closed, an individual 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 prevents 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.

Blockage of a door will not cause motor damage. When obstruction is removed, the door continues movement to the open or closed position.

Individual doors may be mechanically unlocked at the door.

Locking System

The door automatically deadlocks closed, and locks open at two points on the rear edge of the door. Locking components are concealed, and not subject to inmate tampering. Components do not project into the door opening.

Testing

D3B Series Operators have been in service since 1972, and tested to 500,000 cycles.

Standard Features

- **Motor voltage –** 120 VAC.
- **Precise, rack and pinion gear drive.**
- **Heavy duty construction –** D3B.2 Operators are ruggedly built for the detention environment.
- **Tamper-resistance –** All openings in housings are baffled to preclude inmate tampering.
- **Sloped-top housing –** Eliminates hiding of contraband. Flat-top housing is provided where operator must install close to ceiling.
- **Automatic deadlocking –** When fully closed, top and bottom locking points on the rear of each door are forced down into deadlock.
- **Indication switch –** An internal 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 disengage motor. The door may then be manually moved to open or closed position.

Optional Features

- **Door receiver column –** Provides for location of mechanical release mechanism approximately 3'6" from the floor, and provides rod release for disengagement of rack and pinion for manual door movement.
- **Electrical control console –** 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.
- **Interlocking –** Wiring and adaptations may be made to permit interlocking two or more doors in a sallyport or vestibule application. Prevents electrical operation of any other interlocked door.
- **Custom graphic consoles –** In many cases, corridor operators are merely one part of a complete security

(continued)

For more information, please call 210.533.1231.

Drive: Rack and Pinion
Release: Remote Electric, Local Mechanical
Security Level: Maximum

D3B.2 CORRIDOR DOOR OPERATOR

(continued from previous page)

system. For these larger installations, or those with particular needs, custom-built consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.

- G90 galvanized finish available.

Dimensional Data

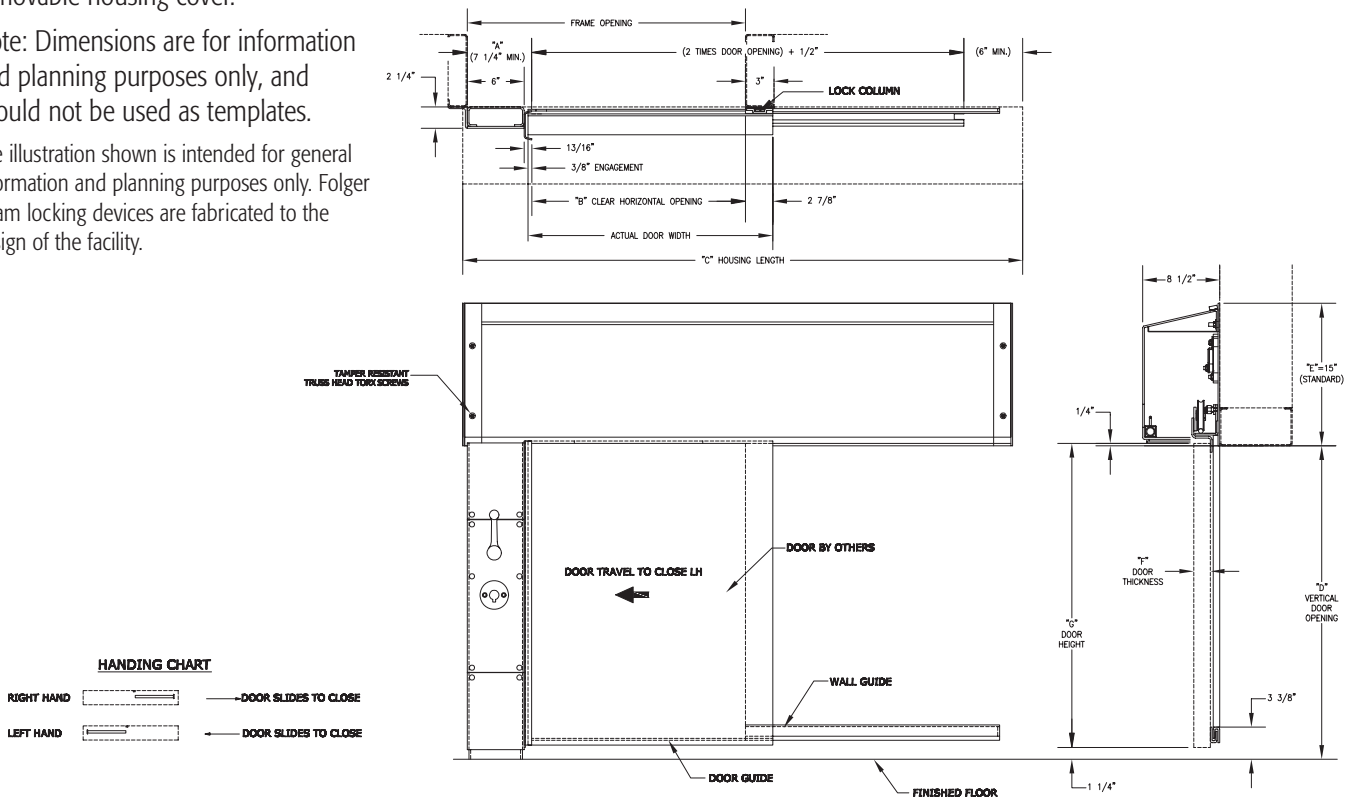
NOTE: If the optional mechanical release column is used, the 3" minimum at the front of the door is increased to the 7" width of the mechanical release column and the "No. 12 lock access to mechanical operation" is omitted from the removable housing cover.

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

The illustration shown is intended for general information and planning purposes only. Folger Adam locking devices are fabricated to the design of the facility.

Specifications

- Drive system –
  - **Type:** Rack and Pinion.
  - **Gear motor:** 120 VAC, 60 HZ, 1/10 HP.
  - **Hanger 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.
  - **Door receiver column (optional):** 7-gauge steel, equipped with 12 Series lock.
  - **Front receiver:** 10-gauge steel.
  - **Finish:** USP.



TYPICAL D3B.2 SLOPE-TOP ELEVATION
LEFT HAND (LH) AS SHOWN
RIGHT HAND (RH) OPPOSITE AS SHOWN

P.O. Box 2021, San Antonio, TX 78297 ■ Ph: 210.533.1231 ■ Fx: 210.533.2211
Web: www.SouthernFolger.com ■ Email: info@southernfolger.com

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

D5B CORRIDOR DOOR OPERATOR

Description

Type D5B Operators are high security, motorized locking and operating mechanisms for individual sliding doors not exceeding 450 pounds.

Applications

D5B Operators may be specified for use in safety vestibules, corridors, or entrances requiring both remote and local control, together with reliable chain drive. Recommended for high-usage entryways or corridors.

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 toward the open or closed position. Pressure exerted by a door in travel is factory set to approximately 40 pounds.

In event of power failure, door may be released from a column at the door location by use of a paracentric key. The door may then be moved manually to an open position.

NOTE: The same key will operate the door electrically under normal conditions.

Locking System

Doors automatically deadlock at two points at the rear of the door. Locking components are fully concealed, and not subject to inmate tampering.

Local mechanical/electrical control of the door is accomplished by an 80 Series lock in an adjacent column.

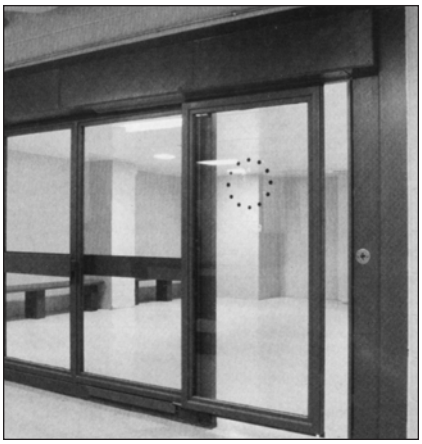
Testing

D5B Operators have been in service since 1978, and tested to 500,000 cycles.

Standard Features

- **Motor voltage –** 120 VAC.
- **Rugged chain drive –** Roller chain provides sure action of the door under a variety of conditions and installation variables.
- **Heavy duty construction –** D5B Operators are ruggedly built 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 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 unit must install close to ceiling.
- **Automatic locking –** Doors automatically lock at two points.
- **Indication switch –** Monitors deadlocked condition of both locking points.



- **Remote, electric unlocking –** Each door is controlled by a three-position switch: OPEN-OFF-CLOSE.
- **Local electric key operation –** Use of a paracentric key at the door column activates an electrical circuit opening the door. Turning the key one-quarter turn to the right opens the door; returning the key to center position closes the door.
- **Emergency mechanical unlocking –** In event of power failure, prison paracentric key unlocks the door with a full 180° turn. Door is then moved manually.

Optional Features

- **Interlocking –** Wiring and adaptations may be made to permit interlocking of two or more doors in a sallyport or vestibule application. Prevents electric operation of any other interlocked door.
- **G90 galvanized finish available.**

For more information, please call 210.533.1231.

D5B CORRIDOR DOOR OPERATOR

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

- **Custom graphic consoles –** In many cases, corridor operators are merely one part of a complete security system. For larger installations, or those with particular needs, custom-built consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.

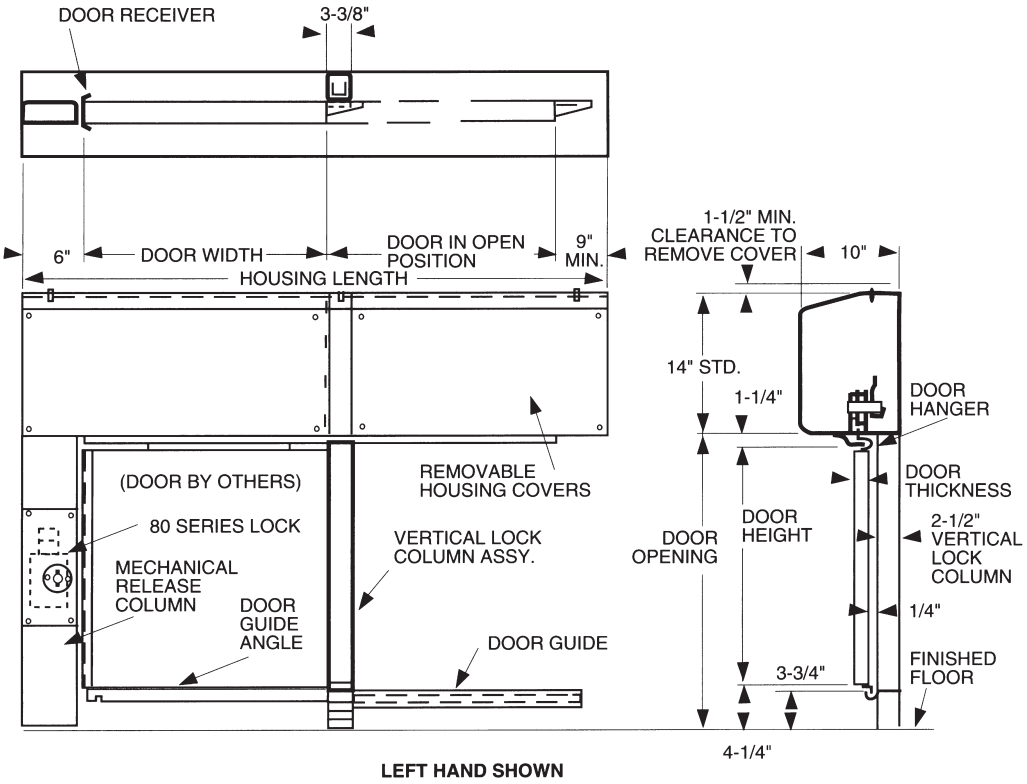
Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

The illustration shown is intended for general information and planning purposes only. Folger Adam locking devices are fabricated to the design of the facility.

Specifications

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



LEFT HAND SHOWN

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Drive: Manual
Release: Remote Electric & Local Mechanical
Security Level: Medium/Maximum

DKR.3 CORRIDOR OPERATOR

Description

Type DKR.3 Operators are medium security, unlocking systems for sliding corridor doors not exceeding 300 pounds.

Applications

DKR.3 Operators may be specified for any corridor or entrance door requiring remote electric unlocking with manual movement of the door to open or closed position.

Functions

Unit unlocks a door from a remotely located control console by push button, and the door starter pushes the door open a few inches. It may then be opened the rest of the distance manually.

Individual doors may be opened by prison paracentric key at the release column.

Locking System

Doors automatically snaplock and deadlock upon closure at two points on the top and bottom rear of the door. Locking components are completely concealed, and not subject to inmate tampering. Components do not project into door opening.

Testing

DKR Series Operators have been in service since 1978, and tested to 500,000 cycles.

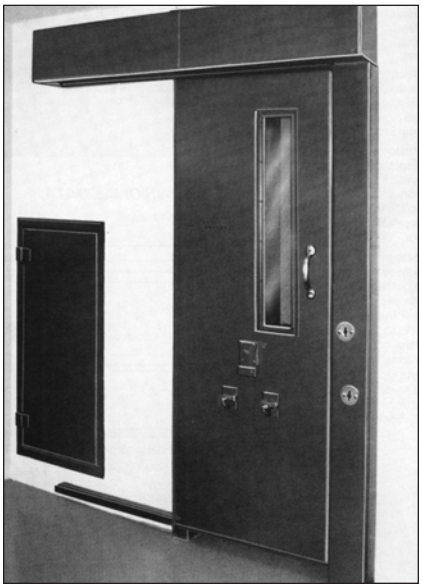
Standard Features

- **Motor voltage –** 120 VAC.
- **Individual motor operation –** Each door is unlocked by its own motor.
- **Heavy duty construction –** DKR.3 Operators are ruggedly built for the detention environment.
- **Tamper-resistance –** All housing openings are baffled to preclude inmate tampering.
- **Sloped-top housing –** Eliminates hiding of contraband.

  Flat-top housing is provided where operator must install close to ceiling.
- **Automatic deadlocking –** Units snaplock and automatically deadlock when closed.
- **Indication switch –** Monitors the deadlocked condition of both locking points.
- **Mechanical release –** A No. 12 Deadlock in the release column provides mechanical unlocking of the mechanism.

Optional Features

- **Key switch operation –** An electrically operated key switch may be added to the release column for local electric operation.
- **Electric controls –** A control console with push button switch, red and green indication lamps, and power cut-off switch may be provided.
- **Interlocking –** Wiring and adaptations may be made to permit interlocking of two or more doors in a sallyport or



vestibule application. Prevents electrical operation of any other interlocked door.

- **Custom graphic consoles –** In many cases, corridor operators are merely one part of a complete security system. For these larger installations, or those with particular needs, custom-built control consoles may easily be provided with floor plan graphics screened on the control panel, and an array of specialized features.
- **G90 galvanized finish available.**

For more information, please call 210.533.1231.

DKR.3 CORRIDOR OPERATOR

Drive: Manual
Release: Remote Electric & Local Mechanical
Security Level: Medium/Maximum

Specifications

- Unlocking system –

  Type: Manual.

  Motor: 120 VAC, 60 HZ.

  Hanger and guides: 1/4" thick steel.

  Rollers: Anti-friction ball bearings with hardened members and grease shield.

  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.

  Mechanical release column: 7-gauge steel with 10-gauge steel front receiver.

  Finish: USP.

Dimensional Data

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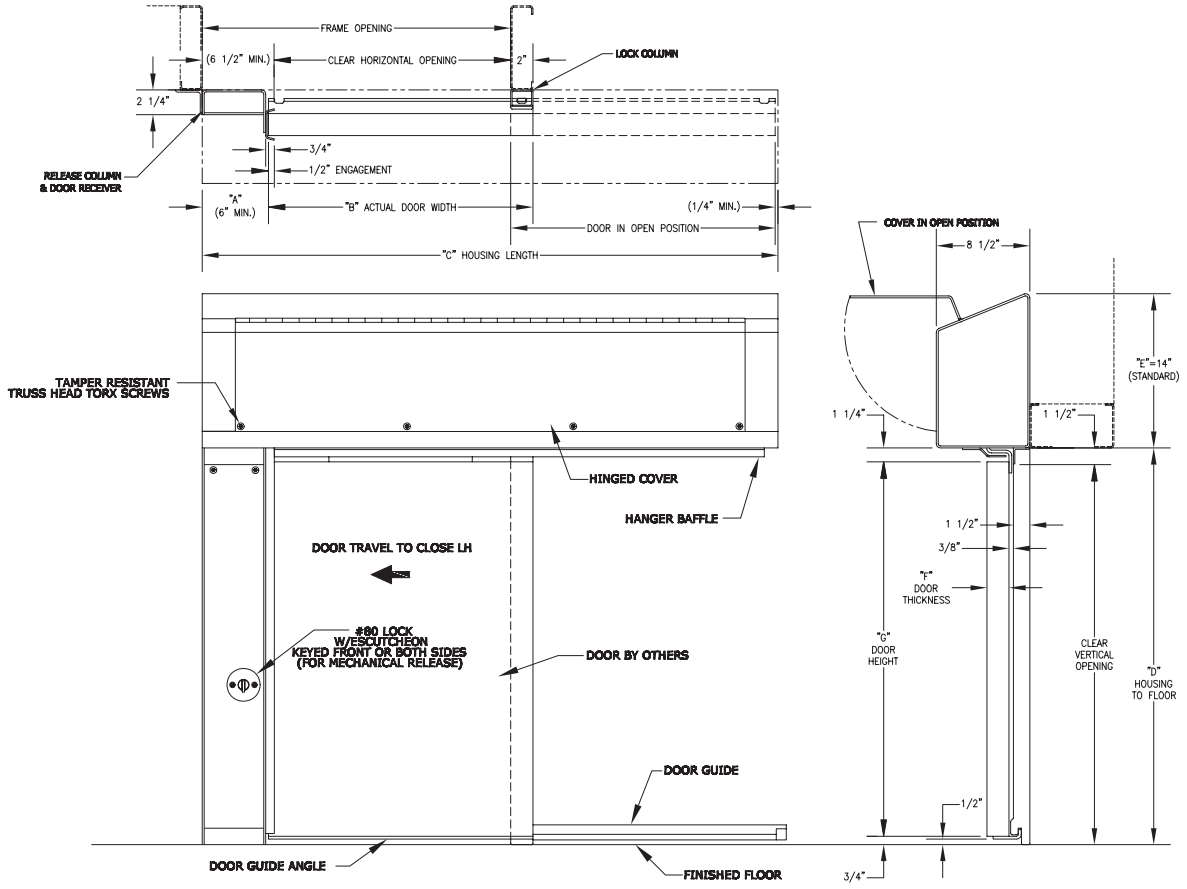

TYPICAL DKR.3 SLOPE-TOP ELEVATION
LEFT HAND (LH) AS SHOWN
RIGHT HAND (RH) OPPOSITE AS SHOWN

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

G OPERATORS

SINGLE AND BI-PARTING GATES

Description

Type G Operators are maximum security, motorized sliding gate operators for single or double (bi-parting) gates up to a maximum 24' width. Single gates should not exceed 6,000 pounds, double gates should not exceed 6,000 pounds total.

Applications

G Operators are applicable to any exterior entrance for passenger vehicles or trucks.

Functions

Unit unlocks and opens or closes and locks a single door from a set of remote push buttons: OPEN-CLOSE-STOP.

The bi-parting G Operator is manually locked or unlocked at the door by a cremone bolt located in the gates. The gates may then be operated from a remote set of push buttons: OPEN-CLOSE-STOP.

In event of emergency or power failure, doors may be mechanically unlocked by prison paracentric key and hand cranked to open or closed position.

Gate movement may be stopped in mid-travel and restarted in the desired direction by pressing the appropriate push button.

NOTE: When closed, it is impossible to move the gate except by electrical or mechanical methods.

Locking System

Single Door Model: Secured by an 800 Series lock located in a column at the front of the door. (See Electric Lock Section for details.)

Bi-parting Door Model: Secured by cremone bolts operated by prison paracentric key. (See Mechanical Lock Section for details.)

Testing

G Operators have been function tested, and in service since 1958.

Standard Features

- **Motor voltage –** 120/208 VAC.
- **Rugged chain drive –** Provides consistent action of the door under a variety of conditions and installation variables.
- **Heavy duty construction –** G Operators offer welded steel construction and rugged components for durability in exterior applications.
- **Self-supporting –** Heavy columns and beams combine to make the structure self-supporting.
- **Control station –** Three push buttons (OPEN-CLOSE-STOP) provide remote operation. Red and green indicator lights show open and closed condition (respectively) of gates.
- **Interlock feature –** Two or more operators may be electrically interlocked so that only one may be unlocked and operated at a time.

For more information, please call 210.533.1231.

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

G OPERATORS
SINGLE AND BI-PARTING GATES

- **Emergency mechanical operation –** In event of power failure unlocking the column provides access to the release mechanism. The door may then be opened by hand crank.

Optional Features

- **Custom graphic consoles –** In many cases, operators are merely one part of a complete security system. For these larger installations, or those with particular needs, custom-built consoles or touchscreen controls may be easily provided with floor plan and special feature graphics.

Dimensional Data

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The illustration shown is intended for general information and planning purposes only. Folger Adam locking devices are fabricated to the design of the facility.

Specifications

- **Drive system –**

  Type: Roller chain.

  Motor: 120/208 VAC, 60 HZ, 1-1/2 HP.

  Roller chain: #60 size.

  Trolley hangers: 3 ton capacity.

  Locking column: 7-gauge steel plate construction with swinging-type door equipped with two #3 hinges, and secured by an 80 Series Deadlock.

- **Mechanism housing/covers –**

  Mechanism cover: 7-gauge steel plate.

  Housing: 7-gauge steel plate.

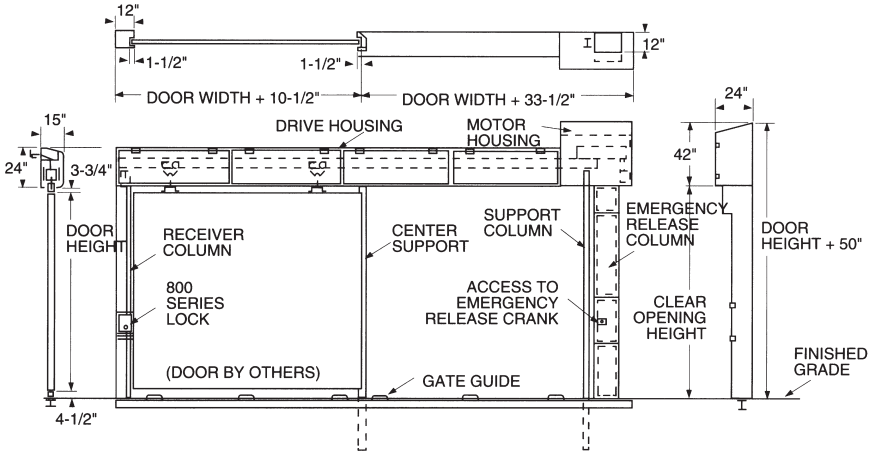
  Gate guides: 5" I-beam with forged and welded steel guides.

  Finish: USP except track, rollers and drive mechanism.

  Trolley track: 8" I-beam x 23 pounds.

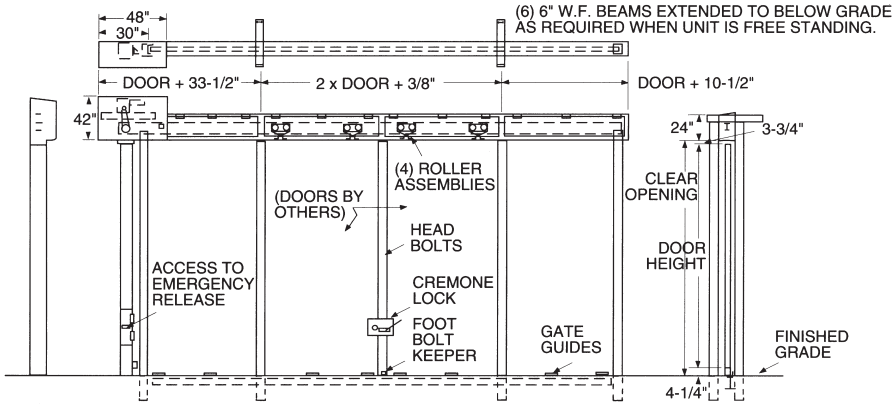
  Support beams: 6" WF beam x 20 pounds.

SINGLE GATE OPERATOR



LEFT HAND SHOWN

BI-PARTING GATE OPERATOR MOTOR HOUSING AND EMERGENCY RELEASE CAN BE LOCATED AT EITHER END.



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Drive:	**Roller Chain**
Release:	**Remote Electric & Local Mechanical**
Security Level:	**Medium**

J OPERATORS SLIDING FENCE GATE

Description

Type J Operator is a medium security operating and locking system for standard 14'H x 14'W chain link fence gates. Units may be supplied for gates to a maximum of 16'H x 30'W, maximum weight, 1,000 pounds. Medium security designation is applied for chain-link fence construction applications.

Applications

Type J Operators are applicable to vehicular entryways for perimeter control. Two or more operators may be installed and interlocked to create vehicular sallyports permitting a secure location for inspection of vehicles and passengers.

Functions

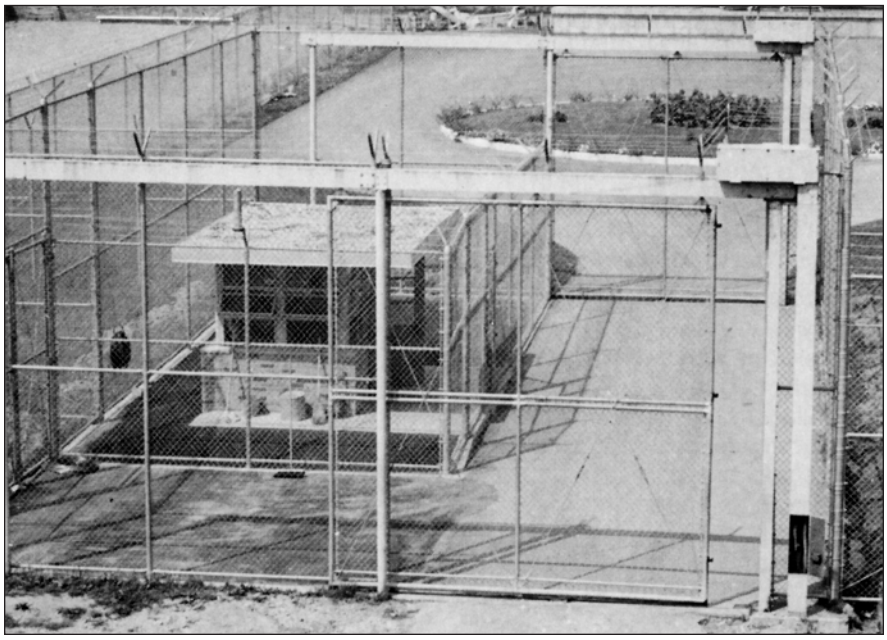
Unit unlocks, opens; or closes and deadlocks a gate electrically, from a remote push button station. When closed, it is impossible to move the gate except by electrical or mechanical methods.

Movement of a gate in either direction may be stopped and re-started by pressing the appropriate push button.

Mechanical movement of the gate is accomplished by a hand crank in the release column in the event of power failure or emergency.

Locking System

On closure, locking is accomplished by means of a keyless locking device which engages the gate at three locations in the locking column. In the open position, all openings in the locking column are completely closed to prevent tampering.



Testing

Type J Operators have been in service since 1955, and tested to 500,000 cycles.

Standard Features

- **Motor voltage –** 208 VAC.
- **Rugged chain drive –** Provides consistent action of the gate under a variety of conditions and installation variables.
- **Heavy duty construction –** Welded steel construction coupled with column and H-beam support assure durability.
- **Tamper-resistance –** Drive system is self-contained, mechanism is enclosed when the gate is open.
- **Adjustable friction clutch –** Protects the motor in the event of blockage. If obstruction is not removed, power to the motor is cut off. Adjustment is provided to compensate for various sizes and weights of gates.
- **Automatic deadlocking –** Occurs whenever the gate is closed electrically or manually.
- **Three-point locking –** Gate is locked along leading edge in three locations for security.
- **Weather-resistant construction –** Housings and covers are designed specifically for exterior application.
- **Corrosion-resistant working parts –** Critical operating parts are made of corrosion-resistant materials for reliability.

For more information, please call 210.533.1231.

Drive: Roller Chain
Release: Remote Electric & Local Mechanical
Security Level: Medium

J OPERATORS SLIDING FENCE GATE

- **Emergency manual operation –** In event of power failure, hand crank operation opens or closes the gate.
- **Interlocking –** When two or more operators are used, interlocking feature allows electrical opening of only one gate at a time.
- **Attachment points –** Standard pipe flanges atop the mechanism track permit attachment of barbed wire.

Optional Features

- **Operating voltage –** 120 VAC, 60 HZ, 1 phase
- **Gate width –** Operators may be specified for gate sizes up to 16' high and 30' wide.
- **Control station –** Three push buttons (OPEN-CLOSE-STOP) provide remote operation. Red and green indicator lights show open and closed condition (respectively) of gates.
- **Custom graphic consoles –** In many cases, operators are merely one part of a complete security system. For these larger installations, or those with particular needs, custom-built consoles or touchscreen controls may be easily provided with floor plan and special feature graphics.

Dimensional Data

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Specifications

- **Drive system –**

Type: Roller chain.

Roller chain: #40 size.

Motor: 208 VAC, 60 HZ, 3 phase 1/3 HP.

Motor housing: 7-gauge steel.

Cover: 10-gauge steel.

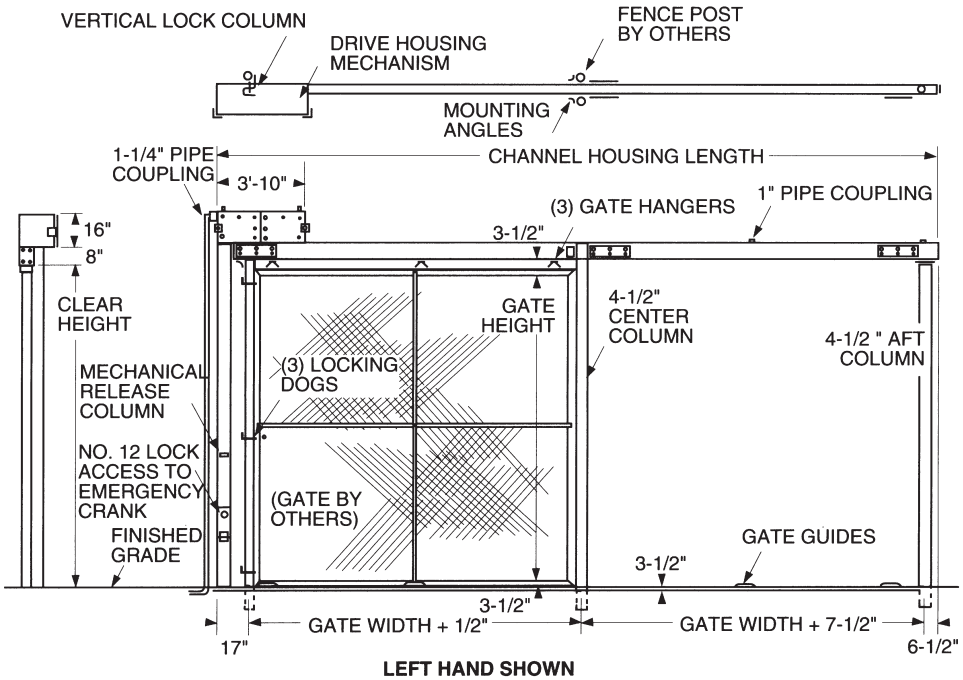
Support structure: Two 8" x 13.75" steel channels.

Center and aft support columns: 4-1/2" OD x 4" ID.

Locking column: 4" x 4" x 13" H-beam.

Emergency release column: 7-gauge steel, hinged access door equipped with No. 12 Deadlock.

Finish: USP.



LEFT HAND SHOWN

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INTRODUCTION

Folger Adam door hardware affords superior quality and durability. Applying advanced technologies in our engineering and manufacturing techniques, consistent strength and endurance under the abusive conditions prevalent in the detention environment is assured.

Qualification of Security Levels

The security level of any hardware item is determined by its ability to endure in the specific environment in which it operates, the level of supervision where it is installed, and other factors. No single standard exists in the industry today that clearly defines the various levels of security. The terms, minimum, medium and maximum, describe the relative relationship of products to one another.

Many products carry level-of-security designations or ranges. These designations are Southern Folger Detention Equipment Company's evaluation of the ability of the product to withstand the rigors probable in that particular security level. Physical strength, tamper-resistance, and construction features of the products are considered in reaching the published levels. Because a number of variables affect security level, the designations in this catalog should be considered as guidelines only.

Hardware Security

Proper care of door hardware helps to maintain total security. Hinges and door pulls should be periodically checked for tampering. Escutcheons and head/foot bolts should be examined for foreign materials that may affect operation. This is particularly important on doors left open for extended periods.

Templates

Templates are issued on job specific basis only. Southern Folger does not issue registered template books. Templates will be issued upon receipt of a valid purchase order and hardware schedule.

Southern Folger reserves the right to modify template information at any time and without prior notice. When a change in templates occurs, material will be shipped in accordance with the templates used for each specific job.

Dimensional drawings in this catalog are not to be used for template information.

Installation Notes

Door hardware items include mounting screws. The proper mounting screw is matched to the needs of the specific hardware item. Anchors, which may be necessary for installation of some items, are not provided, and must be obtained from others.

If screws are replaced, the user should ensure that fasteners of comparable security are installed.

ACCESSORIES SELECTION GUIDE AND SECTION INDEX

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ESCUTCHEON AND CYLINDER SHIELD

Escutcheon Description

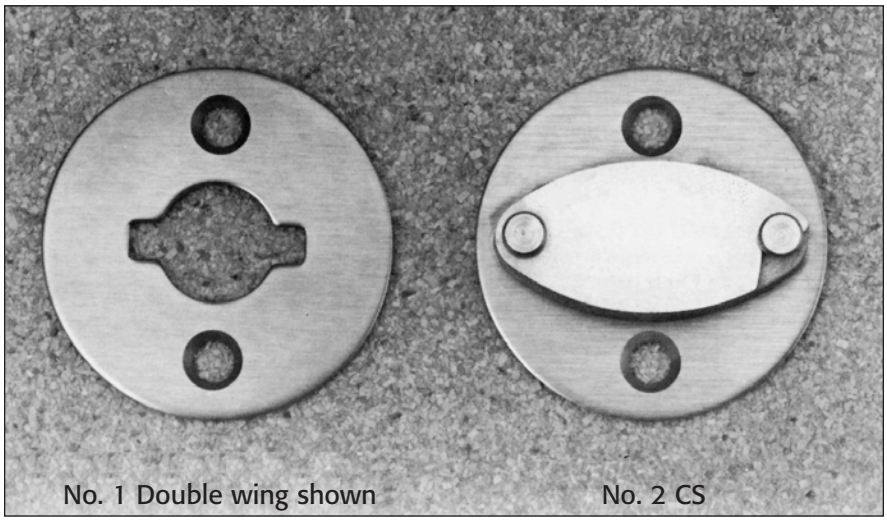
No. 1 Escutcheon: A heavy plate which ornaments and protects the door or frame around a lever tumbler lock.

Application

Helps to prevent wear at the cylinder edge, and helps the user visually locate the lock cylinder. Escutcheons are provided either single wing (key removable in one position) or double wing (key removable in two positions) as required by the lock functions.

Standard Features

- **Tamper-resistant screws –** Escutcheons and cylinder shields are provided with two security screws.
- **Finish –** US32D.



No. 1 Double wing shown No. 2 CS

Cylinder Shield Description

No. 2 CS Cylinder shield: A swinging, protective cover for a lever tumbler lock cylinder. Interchangeable with an escutcheon, the shield has an aluminum spacer and cover.

Standard Features

- **Finish –** US32D.

Application

Keeps foreign matter out of the cylinder. Used on exterior doors to keep cold air and dirt from blowing into the cylinder.

Dimensional Data

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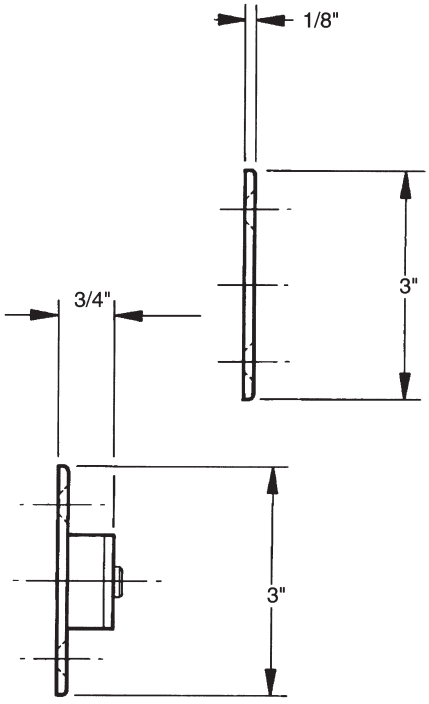

For more information, please call 210.533.1231.

DOOR PULLS

Description

Door pulls provide a hand grasp, and allow movement of swinging or sliding doors from one or both sides.

Application

Pulls may be used on doors equipped with jamb-mounted locks in inmate rooms, access panels, or any application where a pull is not an integral part of the lock. Flush pulls discourage inmate tampering because no part of the pull extends into the cell or dayroom door.

Standard Features

No. 2 Raised Pull

- **Durable –** Stainless steel.
- **Provided –** With tamper-resistant screws.
- **Finish –** US32D.

No. 4 Recessed Pull

- **Rugged material –** Stainless steel.
- **Finish –** US32D.

No. 2 Pull

No. 4 Pull

Models Available

No. 2

All-purpose, handle-type pull for swinging doors. Supplied with two 3/8"-16 x 5/8" tamper-resistant, oval head screws.

No. 4

Flush mounted pull. Model 4-1S, single direction finger grips, Model 4-1D, with bi-directional finger grips for sliding doors. Supplied with four 1/4"-20 x 1/2" tamper-resistant flat head screws.

Dimensional Data

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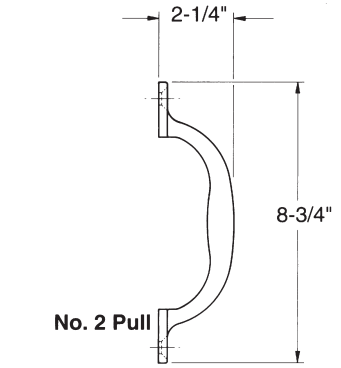

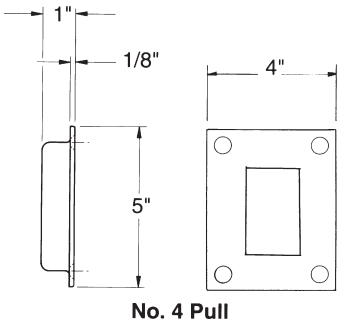

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PRISON HINGES

Description

Prison hinges are heavy weight for the detention environment. They are constructed for high abuse areas.

Applications

No. 5 Hinge (See Southern Folger 205)

Use on cell or corridor doors, security vestibule doors, and primary entrances. Also suitable for armories or drug storage areas, or access panels in high abuse situations.

No. 3 Hinge

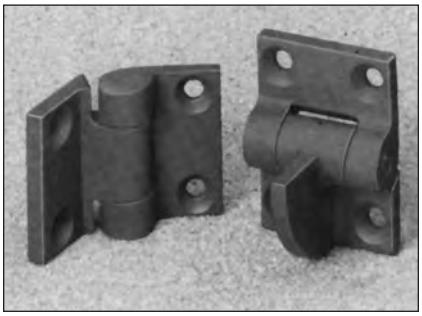
Use on moderate size doors, such as food-pass doors, control or key cabinet doors, and window grilles.

Standard Features

THE FOLGER ADAM NO. 5 HINGE HAS BEEN REPLACED BY SOUTHERN FOLGER #5 DETENTION HINGE. SEE FOLLOWING PAGE.

No. 3 With Fasteners

- **Cast, malleable-iron leaves –** 3/8" thick.
- **Knurled, hardened hinge pin –** 3/8" diameter, pressed into a blind hole.
- **Non-handed –** Reversible.
- **Mounting screws –** Provided with four 3/8"-16 x 3/4" flat head steel security screws.
- **Finish –** USP or zinc.



Optional Features

- **Welded application –** May be ordered without holes for welding.

No. 3FS

- **Finish –** USP.

Models Available

- **No. 3FS –** Full-surface hinge for access doors/panels.
- **No. 3FP –** Food-pass door hinge.

For more information, please call 210.533.1231.

PRISON HINGES

Load Bearing Data

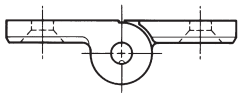
No. 3 Hinge

2 hinges: 150 lbs.with screws attached to door and frame.

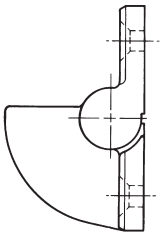
Dimensional Data

NOTE: Dimensions above are for general information and planning purposes only and should not be used as templates.

Model	Description	Height	Width	Weight (lbs.)
3FS	Full-surface hinge	3"	4"	4
3FP	Food pass hinge	3"	4"	4

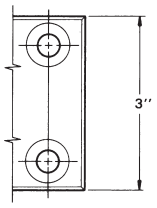


No. 3 Full surface



No. 3 Food pass

Folger Adam No. 5 Hinge has been replaced by Southern Folger 205 Hinge - see next page for full information



No. 3 Series

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205 HINGE

SOUTHERN FOLGER 205 HINGE

SF 205FS: FULL SURFACE HINGE
SF 205G: GAP HINGE

APPLICATION

Swinging doors at cells, corridors, plumbing chases, gates or other locations where a higher degree of security is required. Available in full surface or gap type configuration.

Leaf configuration can be any combination of solid leaf for weld-on or pre-drilled leaf for bolt-on.

Continuous non-removable hardened steel alloy pin. Smooth operating radial and thrust polymer bearings.

TECHNICAL DATA

Size:	5"H x 4-1/2" W x 1/2" TK (FS) 5"H x 6" W x 1/2" TK (GAP)
Weight:	5 lbs.
Pin Size:	5/8" diameter.
Barrel Size:	1-1/2" diameter.
Barrels/Leaves:	Cold rolled steel.
Finish:	USP.

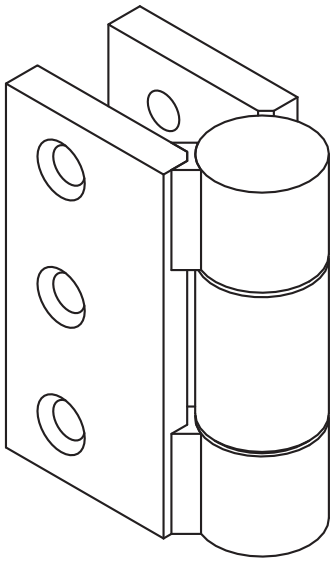
Exceeds all criteria for ASTM F1758 for detention hinges for Double Weight Grade 1.

Made in USA.

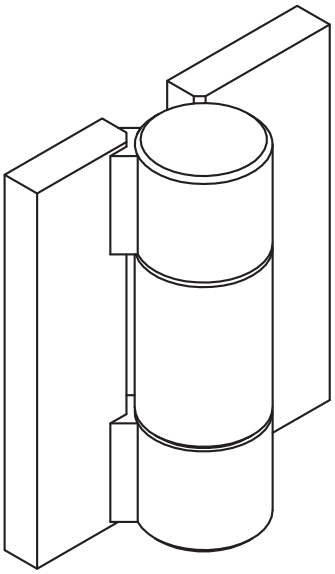
Weight capacity 800 pounds per weld-on hinge.

NOTE: These hinges are not direct replacements for the Folger Adam #5 Hinge or the Southern Steel 205 Hinge due to barrel size difference.

SF 205G:
GAP HINGE



SF 205FS:
FULL SURFACE HINGE



Southern Folger

4-1/2FM-ICS INSTITUTIONAL HINGES

Description

Institutional hinges are investment-cast, detention strength, full-mortise hinges for hollow metal doors and frames.

Application

Model 4-1/2FM-ICS Hinges are suitable for any detention door. Integral studs on each leaf add to abuse-resistance.

CAUTION: For inmate safety, cell doors should swing out, placing exposed hinge surfaces away from the inmate.

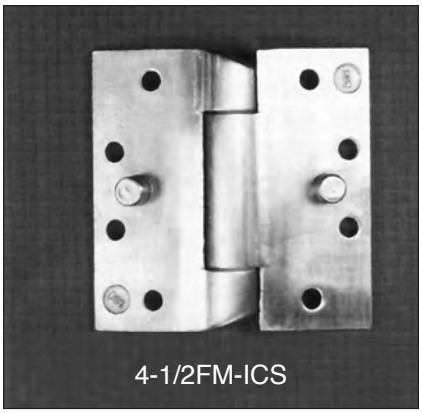
Standards Compliance

4-1/2FM-ICS:
ANSI/National Association of Architectural Metal Manufacturers (NAAMM) Standard HMMA 863-96 requiring the hinge to withstand 200 blows of 200 ft. lbs. each.

4-1/2FM-ICS hinges comply with requirements of NFPA 80.

Standard Features

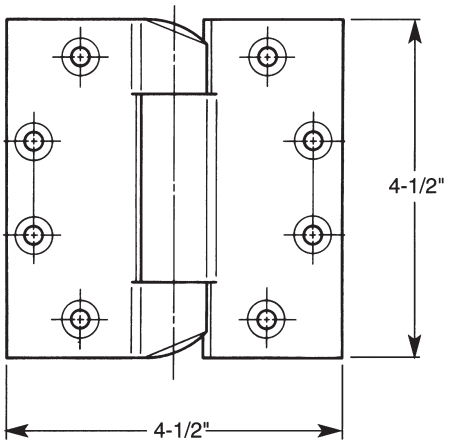
- **Investment-cast hinge leaves –** 4-1/2FM-ICS, investment-cast stainless steel with 15/32" diameter, 1/2" long studs on each leaf. Studs anchor the hinge to door and frame, and provide support even if screws are sheared.
- **Non-removable fully concealed pins –** Prevents tampering or removal.
- **Tamper-resistant mounting screws –** Eight 1/4-20 x 1/2" flat head stainless steel screws are provided in US32D.
- **Hospital tips –** Tapered barrel ends for inmate safety.
- **Permanent lubrication –** Eliminates field maintenance.
- **Reversible –** Non-handed. Screw hole locations conform to industry standards (ANSI A156.7).
- **Heavy door capacity –** Three hinges support a 300 lb. door.


4-1/2FM-ICS

Dimensional Data

Studs (4-1/2FM-ICS): 15/32" diameter, 1/2" long.

NOTE: Dimensions above are for general information and planning purposes only and should not be used as templates.



For more information, please call 210.533.1231.

4-1/2EH ELECTRIC HINGE

Description

Electric hinges are investment-cast, detention strength full-mortise hinges for hollow metal doors and frames. They are designed to transmit electric current from field wiring in a doorframe to an electric lock installed in the door.

Applications

Electric hinges may be specified for use in the detention environment on administration area doors, or cell doors. Hinge is non-load-bearing. Use with 3 ea. 4-1/2FM Institutional Hinges.

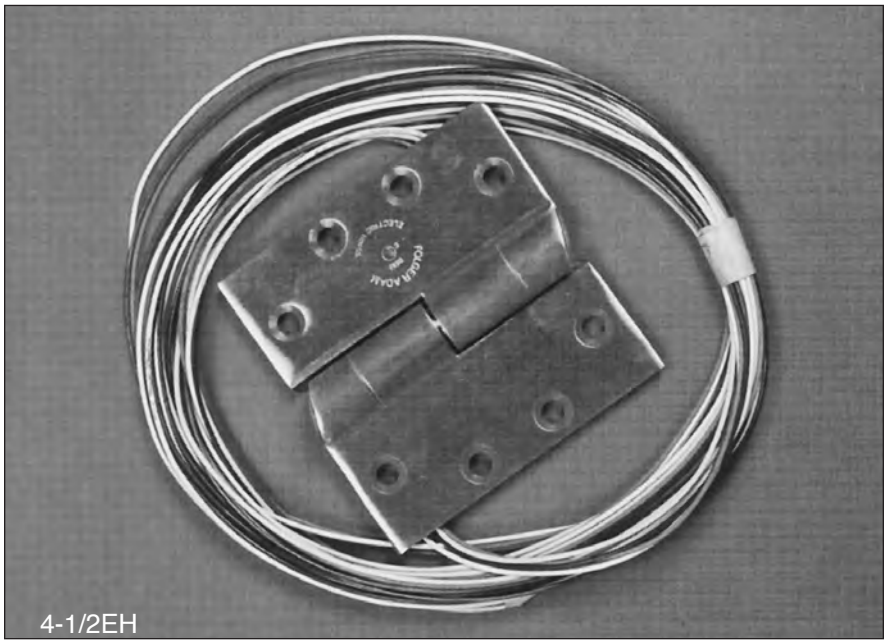
Standards Compliance

Meets UL634 requirements, Switches and Connectors. Uses UL recognized wire.

Screw hole locations conform to ANSI A156.7 standards.

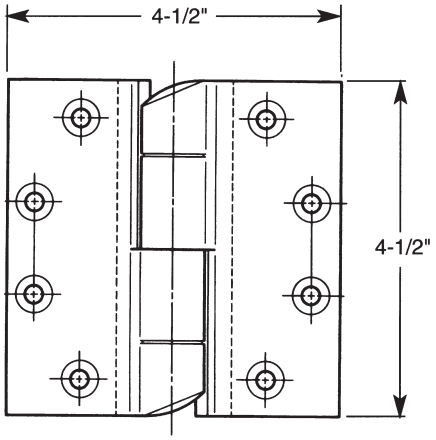
Standard Features

- **Investment-cast hinge leaves –** 0.188" thick, investment-cast stainless steel.
- **Supplied –** With eight 1/4-20 x 1/2" flat head tamper-resistant mounting screws. Stainless steel screws are provided for US32D finish.
- **Stainless steel tubular pin –** 9/16" diameter tubular pin allows wiring to pass from jamb to door.
- **Reversible –** Non-handed. Screw hole locations conform to industry standards.



Dimensional Data

NOTE: Dimensions above are for general information and planning purposes only, and should not be used as templates.



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HEAD AND FOOT BOLTS

Description

Head and foot bolts are manually operated deadbolts mounted into the top and bottom of the door. They are operated by a spanner-type key.

Application

Head and foot bolts are used to secure the inactive leaf of a pair of doors. They may be specified for hollow metal or grille type doors.

Standard Features

- **Malleable iron case –** For strength. (The 7-gauge steel covers are omitted for hollow metal doors, because the lock mechanism is protected by the door structure).
- **Corrosion-resistant working parts –** For durability.
- **3/4" throw, 1" diameter steel deadbolt –** Projects 3/8" from the case when retracted in grille model, 7/8" in hollow metal model.
- **Tension mechanism –** Prevents bolt from unlocking by vibration.
- **Non-handed –** Reversible.
- **Supplied –** With flat-head security screws. Model 105G supplied with 3/8"-16 x 3/4" screws; 105HM supplied with 1/4"-20 x 3/4" screws.
- **Finish –** Zinc plated.

Models Available

- **Model 105G –** For grille doors.
- **Model 105HM –** For hollow metal doors.

Accessories

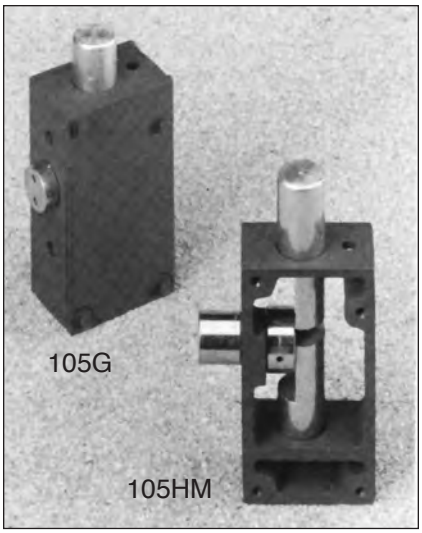
- **105-4B –** Mortise head bolt keeper – Forms a cavity to contain and protect the head bolt. Includes flat head security screws for mounting.
- **105-4BL –** Mortise head bolt keeper with switch – Same as above, with a switch for remote monitoring. Includes flat head security screws for mounting.
- **105-FBR –** Foot bolt receptacle – Receives and contains the foot bolt. Self-cleaning, spring-loaded mechanism, all brass construction.
- **105K –** Spanner key – Locks and unlocks bolts.

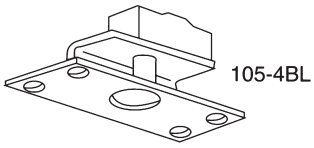
Accessory Standard Features

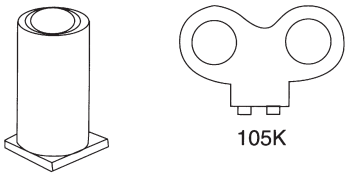
- **Finish –** Zinc plated.

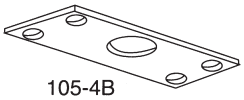
Dimensional Data

NOTE: Dimensions above are for general information and planning purposes only and should not be used as templates.









Model	Description	Height	Width	Depth	Weight
105G	For grille doors	5-3/8"	2-3/4"	1-7/8"	6
105HM	For hollow metal	5-3/8"	2-3/4"	1-1/2"	5
105-FBR	Foot bolt keeper	3-1/8"	1-5/8" diameter		1

For more information, please call 210.533.1231.

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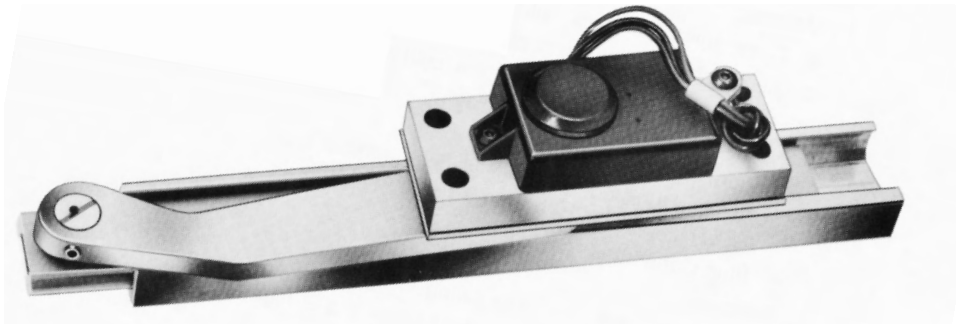
523 FULLY CONCEALED DOOR POSITION SWITCH



Description

A sensitive, door-actuated switch for monitoring the positions of a swinging door. It senses when a door is moved from its fully-closed position and allows a signal to be sent to a remote location – activating an alarm and/or indicating lights – or it can be used for electrical interlocking.

Applications

This switch is recommended for any indication/interlocking circuit, in conjunction with the indication switches for locks, for producing a "secure" signal that a door is closed and locked – primarily for medium/minimum-security doors.

Ideal for all in-swinging door conditions, and can be used on either interior or exterior doors.

Operation

The indication switch is factory set and trips when a 3'-0" wide door moves approximately 3/8" away from the doorstop. (A 1/4" allowance of door movement is built into this setting, eliminating a false indication which may be produced by shaking the door.) A fine adjustment for variations in field conditions is provided by an eccentric stud on the connecting arm.

As the door is opened, the slide conceals its opening in the track. When the door is closed, the unit is fully concealed.

Standard Features

- **Mortise installation –** Switch body mortises into the header of a standard, 2" high door frame and the track mortises into the top edge of a door.
- **Fully concealed –** Switch body and track are inaccessible when the door is closed.
- **Self-concealing slide and track –** low-friction, nylon slide and extruded, aluminum track with a natural finish.
- **Adjustable switch –** An eccentric stud on the connecting arm provides a fine adjustment of the switch for variations in field conditions.
- **Plug connector –** A two-piece, electrical connector which permits field wiring, without having the switch present, and allows removal of the switch, without disturbing the field wiring. The receptacle of this connector has 9" long wire leads and may be sent to the job site for pre-wiring of the opening. When the switch is installed, its connector simply plugs into the already-wired, field receptacle.
- **Tamper-resistant screws are used for exposed locations.**
- **Handed –** Specify either left hand (LH), for left-hand and right-hand-reverse doors; or right hand (RH), for right-hand and left-hand-reverse doors.
- **Supplied with mounting screws,** wiring diagram, template information and installation/operation instructions.

For more information, please call 210.533.1231.

523 FULLY CONCEALED DOOR POSITION SWITCH

Specifications

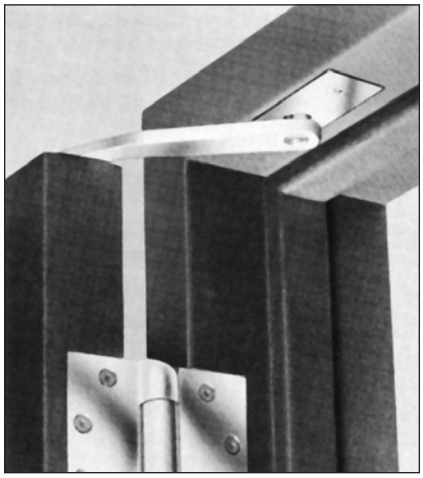
- **Switch-body case –** 1/2" thick, zinc plated cold-rolled steel with a 1/16" thick steel black zinc faceplate.
- **Connecting arm –** 5/16" thick stainless steel.
- **Maximum allowable butt size –** 4-1/2" open width.
- **Maximum door swing –** 180°.

Electrical Characteristics

- **Switch type and ratings –** UL listed, single-pole, double-throw type (SPDT); rated for 10 amps @ 125 or 250 VAC.
- **Color-coded wire leads –** 16" long.

Mounting Location

The unique, self-concealing slide and track mortise into the top edge of the door, while the switch body mortises into the header of a standard, 2" high door frame (see inset below).



Model 523 concealed, door-position switch shown installed on a hollow-metal door frame, with the door in its fully-open position.

How to Order

Specify:

1) Model number.

2) Handing.

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534 DOOR POSITION SWITCH

Description

Model 534 Door Position Switch is a mechanically operated monitoring device for swinging hollow metal, plate or grille doors. Specify for use in medium to maximum- security locations.

Application

Model 534 is designed for use as part of a remote electric unlocking and indication system. When wired in series with the indication switches of an electric lock, the switch provides a secure indication of door position at a remote control panel or control console. Fits a standard 2" frame header.

Standards Compliance

Switches and wiring are UL recognized.

Standard Features

- **Pre-set adjustment –** The switch is factory set to trip when a 2'-6" door moves 3/8" from its stop.
- **Adjustable trip point –** Simple adjustments permit use with various size doors.
- **Sloped-top design –** Precludes hiding of contraband.
- **Tamper-resistance –** Housing baffles combine with use of tamper-resistant and security screws.

- **Heavy duty construction –** Case and cover of 10-gauge hot rolled steel; switch actuator formed of 13-gauge, zinc plated cold rolled steel; baffle of 16-gauge hot rolled steel.
- **180 degree door swing.**
- **Universal mounting –** The surface actuator and unique trip mechanism work on all applications, and may be field reset if needed.
- **Lower cost installation –** Surface mounted door bracket mounts on a hollow metal door.
- **Plug connector –** Plug with 9" of wire allows pre-wiring of the junction box.
- **Finish –** Zinc plated.

For more information, please call 210.533.1231.

534 DOOR POSITION SWITCH

Specifications

- **Case and cover –** 11 gauge steel.
- **Actuator arm –** 1/4" x 1" x 2" with 3/8" diameter steel pin.
- **Actuator mounting assembly –** 1/4" x 7/8" x 2-1/2" with steel post.
- **Gauge line plate –** 11 gauge steel.
- **Switch actuator –** 13 gauge steel, zinc plated.

Electrical Characteristics

- **Switch –** SPDT type.
- **Rating –** 10 amps @ 125 VAC.

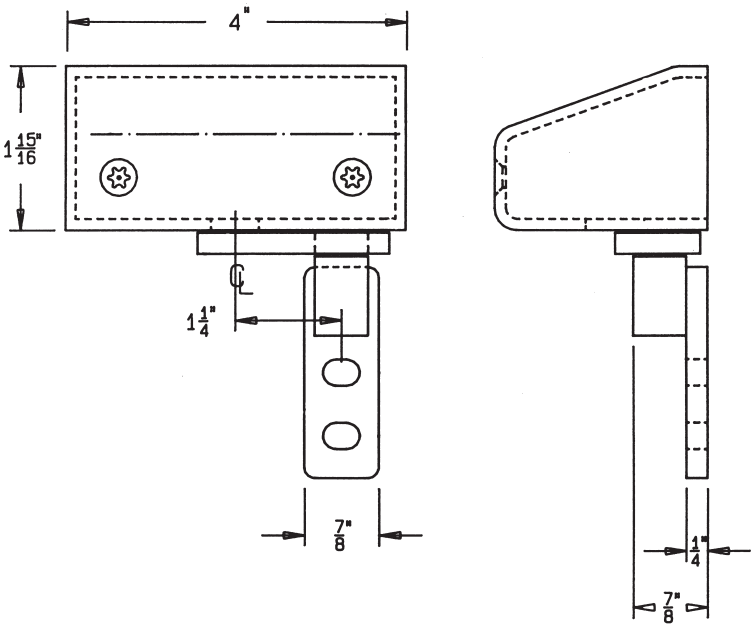
How to Order

Specify:

1) Model number.
2) Handing.
3) Hinge gauge line dimensions: 4-1/2" or 5" hinge.

Dimensional Data

Note: Dimensions are for information and planning purposes only and should not be used as templates.



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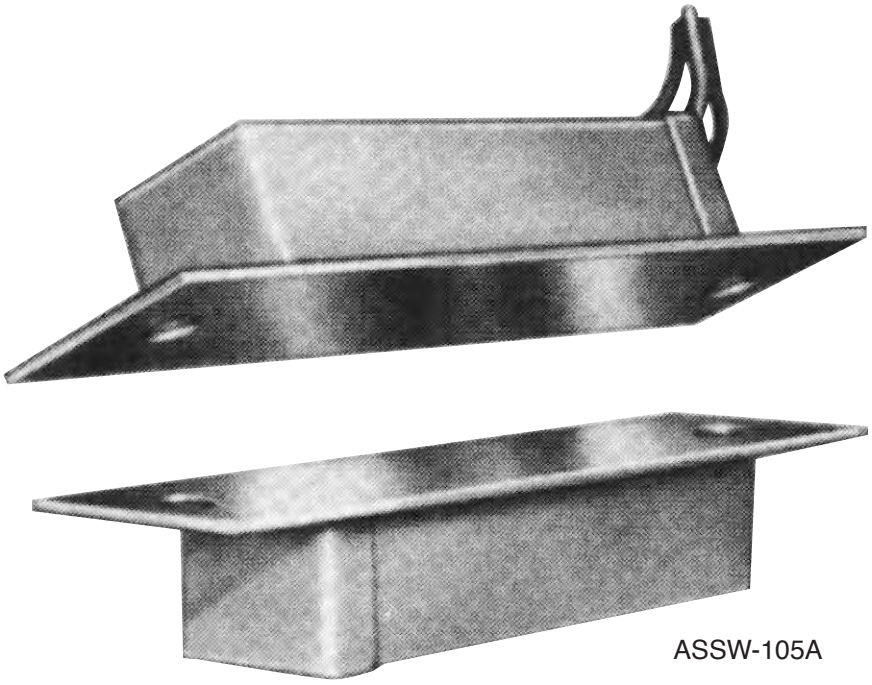
ASSW-105A MAGNETIC SWITCH

Descriptions

ASSW-105A Magnetic Switch:

A magnetically-actuated switch, serving primarily as a sensing device, which detects the opening action of a swinging or sliding door – can also be used on windows. The switch contacts mortise into an ANSI-sized cutout in the doorframe and its actuating magnet mortises into the edge of the door – fully concealed and physically inaccessible when door is closed. The contacts are activated when a door is within 1/4" of being fully closed, and switches modes when the door moves the magnet less than 1". The switch and magnet bodies are made of die-cast aluminum with a natural aluminum finish.



ASSW-105A

Electrical Characteristics

ASSW-105A	Single-pole, double-throw type (SPDT). Rated for 1 amp @ 24 VAC 5/8 amp @ 24 VDC. Color-coded, wire leads: 12" long.

For more information, please call 210.533.1231.

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SAFETY MIRRORS

SECURITY ONE-PIECE SAFETY MIRRORS

432 MIRROR

SIZE:
17-1/4” H x 11-1/4” W x 1/4” TK

Stainless steel face plate is polished to a mirror finish which approximates that of glass. One piece formed mirror and frame mount directly to wall. Mirrors are designed to accept 1/4-20 flat-head security fasteners.

OPTIONS:

STEEL EMBED PLATE: Can be supplied by special order for installation on poured concrete or masonry walls.

Southern Folger

SAFETY HOOK AND SHELF

407 SECURITY CLOTHES HOOK

SIZE: 4” H x 4” D x 2-21/2” W

This special hook is designed with a collapsible ball joint. Constructed of 14 gauge stainless steel, the 407 can be riveted to wall plates or steel walls, or it can be attached with the provided fasteners. US32D finish.

408 SHELF

SIZE: 6” H x 8” D x Specified Length
WEIGHT: varies
(5.4 LBS. for an 8” shelf)

Constructed of 12 gauge steel plate, the 408 Shelf is flanged and gusseted for strength and neat appearnce. It is available in 8”,16” and 24” lengths, with or without safety clothing hooks.

Specify:
408-8 for 8” shelf
408-16 for 16” shelf
408-24 for 24” shelf

If safety clothing hooks are required under shelves, add the suffix “S” to the above numbers (e.g. 408-24S). One hook is provided for each 8” of shelf length.

407 SAFETY HOOK

408 SHELF

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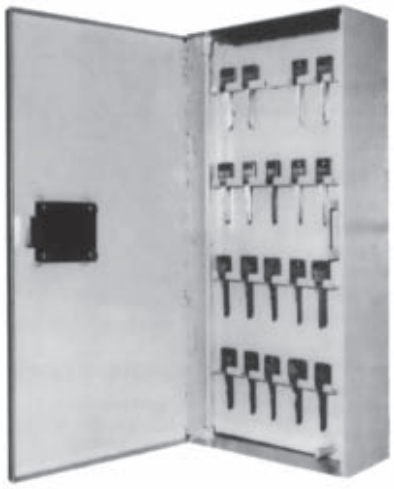
KEY CABINETS DOOR STOP

KEY CABINETS

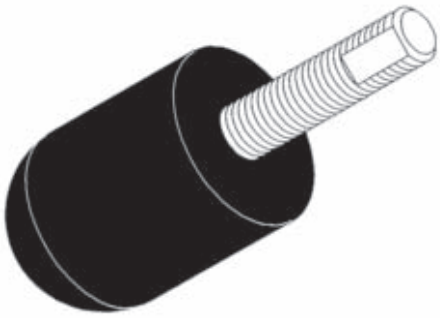
6-60 KEY CABINET
(60 key capacity)
6-300 KEY CABINET
(300 key capacity)
6-720 300 KEY CABINET
(720 key capacity)

SIZE: 16” W x 24” H x 6 5/8” D
WEIGHT: 6-60: 55 LBS.
6-300: 85 LBS.
6-720: 195 LBS.

Key cabinets provide security and control of a large number of paracentric prison keys, or Mogul-type keys. Cabinets may be provided for surface or recessed mounting. Keys are held on two sides of a swinging panel within the enclosure. A printed index is provided for recording the location of each key, and the lock it operates. Available with a Southern Steel 1010A or 1010AM lock.



420 DETENTION DOOR STOP



SIZE:	2” Dia. X 3 1/2” Bumper 5/8-11 X 2 1/2” Post
Material:	90 durometer silicone rubber body with threaded steel post
Style:	Wall or floor mount
Finish:	Black
Mounting:	Embed in concrete or masonry

Heavy duty detention-grade door stop for installation in either wall or floor with epoxy resin adhesive. Threaded steel anchor post.

Southern Folger

PISTOL LOCKERS

600 PISTOL LOCKER

SIZE: 1' 4" x 10" D x Length Required
WEIGHT: 35 lbs.
(FOR A 3-COMPARTMENT LOCKER)

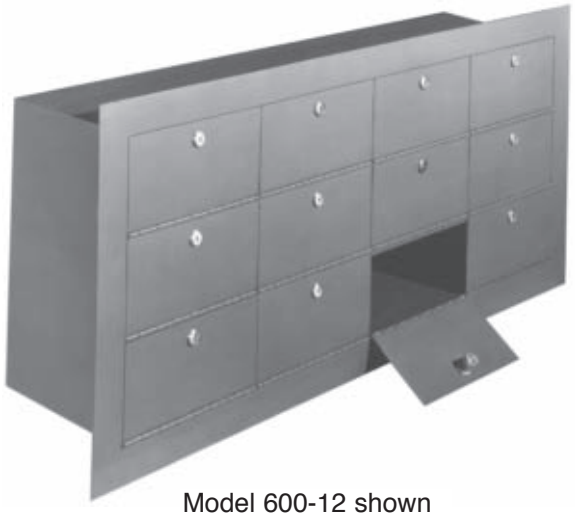
Pistol lockers are available in combinations of three compartments (up to a total of 12 compartments) in a single unit. Construction is 10 to 14 gauge steel. Each compartment is 5-1/4" H x 10" W x 10" D, bottom-lined with moth-proofed felt. Doors swing on continuous hinges and each has a separately keyed cam lock. Master keying is available by special order. These units can be surface mounted or built into a wall. Indicate type of mounting required. Prime painted.
Specify:
600-3: 3-compartment
600-6: 6-compartment
600-9: 9-compartment
600-12:F12-compartment

605 PISTOL LOCKER (TILT-OUT)

SIZE:
1' 10-1/2" H x 6" D x Length Required
WEIGHT: 48 LBS.
(FOR A 3-COMPARTMENT LOCKER)

Each compartment of the Model 605 tilts out for access on a continuous hinge. Construction is 7 to 10 gauge steel. Compartments are 6" H x 1' 1-1/2" W x 4-1/2" D, bottom-lined with moth-proofed felt and locked with an individual keyed snaplock. Master keying is available by special order. Can be surfaced mounted or built in. Indicate type of mounting required. Prime painted.
Specify:
605-3: 3-compartment
605-6: 6-compartment
605-9: 9-compartment
605-12: F12-compartment

600 PISTOL LOCKER



Model 600-12 shown

605 PISTOL LOCKER (TILT-OUT)

Model 605-6 shown

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UNIVERSAL TEST UNIT

SOUTHERN FOLGER TESTPRO

The Southern Folger TestPro test unit is a sturdy, portable unit for preventive maintenance checks. With easy-to-read indicator lights, this ergonomically designed test unit will operate all current models of Southern Steel and Folger Adam electric and pneumatic locks and locking devices. Controls are consolidated into a single set of switches for all lock functions.

Standard features include:

- Indication – Two sets of colored indication lights are included on each unit.
  - o Green Secure/Red Unsecure for DPS indication
  - o Green Secure/Red Unsecure for Auxiliary indication
- **Fuse Protection** – A 4-amp fuse is mounted on the front of the test unit for easy replacement. Spare fuse holder stores replacement fuse.
- Voltage Selector – A key-operated, multi-voltage selector switch allows operation of 24VDC and 120VAC units.
- Cycle Type Selector–A key-operated Cycle Type selector switch allows operation of Half Cycle and Full Cycle Devices.
- Three-position center-off control switch allows open/close type testing. The control switch is momentary contact, spring loaded to the center-off position.
- Case – Ergonomically designed steel case.
- **Power Connection** – all units are equipped with a 3-prong, industrial-rated 120VAC GFI power plug with integral test and reset controls.

Southern Folger

UNIVERSAL TEST UNIT

SOUTHERN FOLGER TESTPRO

TECHNICAL DATA

Part No:	76710852
Indication:	Door - Green Secure/Red Unsecured Auxiliary - Green Secure/Red Unsecured
Controls:	Keyed Voltage and Cycle Selection
Supply Voltage:	Standard 120 VAC Plug
Weight:	6 lbs
Dimensions:	8 1/2" x 5 3/8" x 4
Case:	Fabricated Steel Enclosure

Lock Termination:

- Integrated Lock Lead - 12-pin connector to test most 24VDC and 120VAC Folger Adam locks and devices.
- 12 Pin to Alligator Clip Adaptor – test locks and devices without Molex terminations.
- 12 Pin to 6 Pin Adaptor – test most Southern Steel Locks
- 12 Pin to 6 Pin Adaptor – test most Southern Steel Sliders
- 12 Pin to 12 Pin Adaptor – test Southern Steel 10300M
- 12 Pin to 12 Pin Adaptor – test Southern Steel 10300MD

Option: Custom Adaptors can be created to meet facility needs.

The TestPro Unit can be used on the products listed below and also works on most non-standard products. If necessary, custom adaptors can be developed for use in testing of other devices.

SOUTHERN STEEL BRAND

Locks	
24 VDC	120 VAC
1051M	1050D
1051P	1051E
10120AM	1051M
10300E	1058M
10300M	10120AE
10300P	10120AM
10600	

Sliding Devices	
24 VDC	120 VAC
8010L	3150LX
8050L	3165LX
8065L	4110L

FOLGER ADAM BRAND

Locks	
24 VDC	120 VAC
51M	51E
50HBM	51M
50P	120E/M/MC
120M/MC/P	120ED
NS400	120RUP
D9300	

Sliding Devices	
24 VDC	120 VAC
KR,KR.3	2B, 2B.3
KR.3P	3B, 3B.3
2B.3P	KR
D2B.3P	D2B
D3B,D3B.2	D5B

Southern Folger

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GLOSSARY

ABBREVIATIONS

AC	Alternating Current
ASSW	Architectural Security Switch
BH	Button Head
C	Half Cycle Function
CPS	Concealed Door Position Switch
DC	Direct Current
DPS	Door Position Switch
E	Solenoid
EED	Emergency Exit Device
EER	Emergency Exit Release
ELC	External Local Control
FH	Flat Head
FP	Food Pass
FS	Full Surface
G	Bar Grating
GAP	Full Surface Hinge Reversed to Mount on Grating Doors
HM	Hollow Metal
HS	Half Surface
K	Standard Knob
KCE	Key Cylinder Extender
KS	Key Switch
LEK	Local Electric Key Switch
M	Motor
MKH	Mechanical Key Hold Back
MLH	Maintained Latch Hold Back
MRA	Material Return Authorization
MRS	Magnetic Reed Switch
NA	Not Applicable
NC	No Charge
NL	No Latch
P	Plate
POR	Price on Request
SD	Dead Lock Indication
SK	Safety Knob
T6	Six Tumbler Paracentric Lock

STANDARD FINISHES

G90 Galvanized	Produced to ASTM A653
USP	Prime Painted
US26D	Satin Chrome Plated
US32D	Satin Stainless Steel
Zinc Plated*	Produced to ASTM B633

*The American Galvanizers Association recommends that, due to extremely thin zinc on the sheet, painting or other top coating improves the service life.

For more information, please call 210.533.1231.

GLOSSARY

GENERAL

Cylinder Extender: A device added to a cylinder to provide additional length.

Dead Lock Indication: Directional arrow indicates if lockbolt is extended or retracted.

Fail Safe: Upon loss of power, all electric locks will open.

Fail Secure: Upon loss of power, all electric locks will remain locked.

Fish Tail: Another term for a bottom door guide used on a sliding door.

Grating: A term used to describe a bar type partition, door and grill.

Hollow Metal: A term used to describe doors and frames which are made of a lighter gauge of material, usually 12 gauge or less.

J-Hook: Another term for a closure plate used on sliding door systems.

Jamb: A term used to describe the vertical members of a door frame.

Mortise: An opening made to receive a lock or other hardware.

Mylar®: Mylar® is a registered trademark of the DuPont Chemical Company.

Narrow Jamb Lock: A lock mounted in a two inch hollow metal frame.

Plate: A term for heavier gauge materials used to form doors and frames.

Plug Connector: A plastic female and male plug mechanism attached to the end of the wiring used in electric locks or other electric mechanisms for quick and easy disconnect.

Q-LON2®: Q-LON2® is a registered trademark of the Schlegel® Corporation.

Safety Knob: A cone shaped knob.

Sliding Door: A door which is hung on rollers and moves horizontally to open or close.

Swinging Door: A door which is hung on hinges or pivots.

Teflon®: Teflon® is a registered trademark of the DuPont Chemical Company.

UL®: UL® is a registered trademark of Underwriters Laboratory.

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Web: www.SouthernFolger.com ■ Email: info@southernfolger.com

GLOSSARY

BOLTS

Cremone Bolt:
A bolt designed to give locking at the head, foot and in the center of the door, providing a three point locking system for specialty-type doors in high security applications.

Extended Bolt:
Used for hollow metal or stop side mounting.

Head and Foot Bolt:
Bolts which are mortises at the top of the door and the bottom of the door, locking into the frame head and to the floor. These bolts can only be used on pairs of doors and Dutch doors.

ELECTRONICS

AMP (Ampere):
Units of measurement of the rate of flow of electrical current.

Backplane:
Printed circuit board.

BUS:
A conductor to which two or more circuits can be connected.

Continuous Duty:
Device is designed to operate 100% of the time.

Interlock:
A door control scenario that prohibits electrical operation of selected doors if a door in the defined group is open or unsecure.

LED:
Light emitting diode.

Maintained Switch:
A switch that stays in the contact position when actuated and released.

Momentary Switch:
A switch which makes contact only while being actuated and held.

HINGES

Electric:
A transfer hinge. This hinge transfers power from the jamb to an electric device that is normally mounted in or on the door.

Food Pass:
A hinge which has a 90 degree stop applied to be used with food pass doors.

Full Mortise:
Hinge leaves which are normally mortised flush–one into the door, and one into the frame.

Full Surface:
Hinge leaves which are both surface mounted on the door and the frame.

Full Surface/Gap:
A hinge designed to be used with bar grating doors and partitions.

Half Surface:
A hinge that has one leaf mortised into the frame and one leaf surface mounted on the door.

GLOSSARY

KEYS AND CYLINDERS

Mogul Cylinder:
A pin tumbler cylinder that is approximately 2 inches in diameter. Designed to operate certain types of detention locks.

Mogul Key:
Designed to activate the pin tumblers of a mogul cylinder.

Paracentric Cylinder:
A cylinder designed to accept a bit key and operate with wafer tumblers. Also referred to as a nose.

Paracentric Key:
A large bit type key that is normally used with maximum security detention locks using wafer tumblers to activate the lock mechanism.

Pin Tumblers:
Small cylindrically shaped pins used in the mogul cylinder to create the different key codes.

Steel Engaging Ball:
A small ball that is placed in the mogul cylinder, against which the key rides allowing the movement necessary to operate the cylinder.

Wafer Lever Tumbler:
Thin brass plates that are spring activated, functioning with the paracentric key and the paracentric cylinder to allow the lock to be unlocked or locked.

LOCKS

Deadlock:
A square bolt lock which is always either in the locked or the unlocked position.

Deadlock Actuator:
A mechanical means of tripping a deadlock cam on snaplocks.

Electro Mechanical:
Locks that are operated both manually and electrically.

Hook Bolt:
A bolt that is made into the shape of a hook that is normally used on locks for sliding doors.

Mechanical:
Locks that are only operated manually.

Mortise:
A lock which is installed into the edge of the door with the trim and cylinder being mounted into the lock through the face of the door.

Pneumatic:
A lock which is operated both manually and by compressed air.

Snaplatch:
A beveled bolt lock which latches upon closing the door.

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GLOSSARY

PLATES/MOUNTINGS

Cover Plate:
A plate used to cover the lock mounting pocket built into the jamb by the frame manufacturer.

"G" Mounting:
A box used to mount mechanical locks on bar grating.

HM Mounting Plate:
A plate used to mount mechanical locks in hollow metal doors.

"P" Mounting:
An encasement used to mount paracentric keyed mechanical locks on plate doors.

STRIKES/KEEPERS

Keeper:
A flat plate normally mortised into the jamb and used with square bolt deadlocks.

Keeper/Strike Switch:
A small switch mounted behind the keeper or strike, that gives monitoring indication when the bolts are projected into the strike or keeper.

Strikes:
Normally flat plates or cast items that are used with snap bolt locks. Some strikes have lips, whereas keepers do not.

SWITCHES

Key Switches:
Key operated switches normally used to activate the electrical or pneumatic functions of detention locks.

Push Button:
A contact switch which can be used to create a signal or activate the electrical or pneumatic functions of detention locks.

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