



## NS400P Pneumatic Deadlatch

### Product Model Information

Drive	Builders Hardware
Release	Swinging
Security	Medium / Minimum

### Specify Keying as Follows:

NS402P	Keyed one side
NS406P	Keyed two sides

### Description

NS400P Series Deadlatches are pin tumbler, pneumatically operated locks for swinging doors.

### 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 the 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 the 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. 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 Torx 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, with hardened steel inserts to prevent sawing.
- **Finish** - US32D, satin stainless steel
- **Indication switch** - an internal switch to monitor the positions of the deadlock actuator. Signals deadlocked condition.

**Note:** When door is open, deadlock actuator may be manually depressed, thereby giving a false indication that the door is locked. This can be eliminated by installing a door position 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. deadlock actuator is depressed,
2. deadbolt is extended and deadlocked, and
3. door is closed.

Interlocking of doors requires special wiring and/or adaptations in control consoles.

## Optional Features

- **Manual air release system** - Allows for the manual release of door or groups of doors from 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 NS400P 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 Folger Adam Security Inc. in any case, but are required with LEK feature and cylinder extensions. Customer is responsible for supplying the appropriate spacer rings(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 cancelled from a remote control console.
- Inmate push button - Allows operation of the lock from inside the room or cell, may be cancelled 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 consult factory for pricing and availability.

## Available Models

Model	Operation	Latchback	Indication Switch	LEK Available	MARS Available
NS400P-01	1	YES	YES	YES	YES
NS400P-04	2	NO	YES	YES	YES

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## 120P Pneumatic Deadlatch

### Product Model Information

DriveMogul

ReleaseSwinging

SecurityMaximum / Medium

### Specify Keying as Follows:

121 Keyed case side

122 Keyed cover side

122 Keyed both sides

### Description

120P Series Deadlatches are pin-tumbler, pneumatically operated locks for swinging doors.

### Applications

Series 120P Deadlatches are suited for virtually any 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 120P Series locks.

These jamb mounted locks are designed to be controlled by an electronic controls 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 momentary contact switch. Once unlocked, the latchbolt is held mechanically retracted until the door is opened. It extends automatically. Two additional variations on this operation are offered in 120P Series locks.

**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 without any adverse effects to the lock.

**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 latch bolt extension and its deadlocked condition.
- **Pneumatic solenoid voltage** - 24DC
- **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** - 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** - Ease 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 has hardened inserts to resist sawing. When latchbolt is engaged in strike, bevel is concealed to prevent picking.
- **Mechanical unlocking by keys** - Specify Folger Adam Security Maxi-Mogul high security cylinders.
- **Investment cast stainless steel strike** - Furnished with four Torx tamper resistant screws.
- **Finish** - Standard USP primed.

## Optional Features

- **Local electric key (LEK)** - A unique function which uses two types of keys. 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 anytime via a three position switch. For applications where inmates carry their own keys, but supervision is necessary. 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.
- **Finish** - Galvanized
- **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** - 10 gauge steel
- **Latchbolt** - Investment cast stainless steel with hardened inserts, 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:** 24DC, 1.8 watts power consumption
- **Indication Switch Rating:** 15 amps @ 125 or 250 VAC

### Available Models

Model	Operation	Latchback	Indication Switch / Deadlatch	LEK Available	MARS Available
120P-1-01	Standard(1)	YES	YES	YES	YES
120P-1-04	Standard(1a)	YES	YES	YES	YES
120P-2-01	Knob Release(2)	YES	YES	YES	YES
120P-2-04	Knob Release(2a)	YES	YES	YES	YES



## 50P Pneumatic Deadlatch

### Product Model Information

Drive	Prison Paracentric
Release	Swinging
Security	Maximum

### Specify Keying as Follows:

52P	Keyed one side
56P	Keyed two sides

### Description

Series 50P Deadlatches are lever tumbler, pneumatically operated locks for swinging doors.

### Applications

50P 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 without any adverse effects to the lock. 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. The holdback lever has not notch to hold the latchbolt mechanically retracted. The latchbolt extends in the locked position regardless of the position of the door.

### Standard Features

- **Pneumatic solenoid voltage** - 24DC
- **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.
- Choice of five or six tumbler models.
- **Indication switch** - A lock status indication switch which monitors the extension of the latchbolt and the dead-locked condition is included.
- **Rugged construction** - Case and cover are 7 gauge steel.
- **Solid steel latchbolt** - Latchbolt is galvanized steel, concealed pins resist sawing.
- **Deadlock actuator** - Roller type, galvanized steel, adjustable for variations in door to jamb clearance.
- **Finish** - Standard is USP primed

### Optional Features

- **Bolt projection** - Standard 1/4" when retracted. 3/4" bolt throw. Consult factory for other projections.
- No-notch the holdback lever has not 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.
- **Finish** - Galvanized

### Specifications

- **Case and cover** - 7 gauge steel
- **Latchbolt** - Solid steel, with hardened steel roller pins.
- **Deadlock actuator** - Galvanized 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** - 24DC with 1.8 watts power consumption
- **Indication Switches Rating** - SPDT, UL listed - 15 amps @ 125 or 250 VAC

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