Product selection guide

Surface mounted 4000 Series LCN closers feature a modern design engineered for each application, easy installation, and superior performance. This guide is based on the desired mounting of the closer.

**EXTERIOR DOOR**

- **PUSH SIDE MOUNTED**
  - **DOUBLE LEVER ARM**
    - 4020
    - 4020 XP
    - 4110
    - 4210
    - 4050

- **PULL SIDE MOUNTED**
  - **DOUBLE LEVER ARM**
    - 4010
    - 4040 XP
    - 4510
    - 4050

**INTERIOR DOOR**

- **PUSH SIDE MOUNTED**
  - **DOUBLE LEVER ARM**
    - 4010
    - 4040 XP
    - 4510
    - 4510 T
    - 4050
  - **SINGLE LEVER ARM**
    - 4110 T
    - 4040 XPT
    - 4210 T

- **PULL SIDE MOUNTED**
  - **DOUBLE LEVER ARM**
    - 4020
    - 4040 XP
    - 4510
    - 4050
  - **SINGLE LEVER ARM**
    - 4000 T
    - 4010 T
    - 4020 T
    - 4030 T

*INDICATES HIGH SECURITY CLOSER. REFER TO THAT SECTION OF THE CATALOG.

Product comparison

This chart shows a basic comparison of 4000 Series closers. Refer to the specific closer chapter for complete details.

**AVAILABLE**  **NOT AVAILABLE**

- Closer available with less than 5.0 lbs. opening force on 36” door.
- Maximum opening/hold-open point with standard template. See individual closer series for degrees of opening per installation.
- **Advanced Variable Backcheck.**
- **Delay Action** for 4040 XP incorporates standard 4041 cylinder.
4000 Series mounted closers

APPLIcATIONS
- For aluminum, hollow metal, or wood swinging doors and frames.
- Can be used with hinge or pivot mounted door.
- Adapter plates and other installation accessories available for unusual conditions.

FEATURES COMMON TO 4000 SERIES
- Each closer (except 4050, 4040XP, 4040XPT, 4030, 4030T) is designed for a specific mounting; hinge side, top jamb, or parallel arm. 4040XP closer with regular or hold-open arm mounts hinge side or top jamb. 4030, 4040XP and 4050 regular parallel arm closers include 62PA SHOE required to parallel arm mount either regular or hold-open arm.
- Handled for right or left swinging doors, except for 4000T, 4030, 4030T, 4040XP, 4050 and 4040XPT.
- Closers to meet ADA reduced opening force requirements except 4000T.
- Adjustable hydraulic backcheck cushions opening swing prior to 90°.
- Separate regulation of general closing speed and latching speed.
- Joints in regular arm and shoe adapt to uneven trim.
- Reversible shoe to boost latching power on double lever arms.
- Available in a wide range of standard or optional custom powder coat finishes to blend with door and frame.
- Plated finishes available to accent door and frame.
- Not designed for exterior mounting or exposed to elements.

DESIGN ASSISTANCE
LCN has been providing reliable solutions to unique door control problems since 1925. Design and specification assistance are only a phone call away.

Contact LCN for assistance or technical information at 877-671-7011 or FAX 800-248-1460 (Order Entry). Fax 815-679-1495 for Product Support.

WARRANTY
30 year limited warranty; 25 year limited warranty (4050). See General Information Section for complete warranty details.

SPECIFICATIONS
Refer to “SPECIFICATIONS” section for suggested architectural specifications.

MATERIALS
- High strength cast iron or cast aluminum (4050) cylinder.
- Forged steel main arms.
- One piece forged steel piston.
- Double heat treated pinion.
- LCN’s all weather “Liquid X” fluid performs to temperature ranges from 120°F (49°C) to -30°F (-35°C) without any seasonal adjustment.
- LCN’s standard all weather fluid performs to temperature ranges from 120°F (49°C) to -30°F (-35°C).
- High efficiency, full complement, low friction bearings.
- Tamper resistant regulating screws.
- Full rack and pinion hydraulic action.
- Quiet, low friction track and roller combination for all single lever arm (track style) closers.

FINISHES
- Available in six standard or optional custom powder coat finishes to blend with door and frame.
- LCN's powder coat finishes surpass 100 hours of salt spray which is over four times the ANSI standard for corrosion resistance.
- For installations where a higher level of corrosive resistance is required, LCN offers an optional special rust inhibiting (SRI) pre-treatment. Closers that combine the exclusive LCN powder coat finish and the SRI pre-treatment exceed the ANSI standard for corrosion resistance even further.
- Plated finishes are available as an option to accent door and frame. (SRI not available with plated finishes).

LISTINGS & APPROVALS
UL listed for self-closing doors without hold-open under “SWINGING DOOR CLOSERS”(GVEV) file R1943.
Tested and certified under ANSI Standard A156.4 Grade One. Consult factory for details.
Consult factory for other listings such as; cUL, California State Fire Marshal, Bureau of Standards and Appeals.

POSITIVE PRESSURE
LCN closers have been certified for three hours by UL to be in compliance with UL 10C. Contact LCN for specific details on door closer fire ratings.

FASTENERS
4010, 4010T, 4020, 4020T, 4040XP, 4040XPT, 4050, 4110, 4110T Series closers are shipped with: A standard SELF-REAMING and TAPPING SCREW (SRT) pack that contains Philips head SRT screws to install the closer. 
4000T Series closers are shipped with: A standard WOOD and MACHINE SCREW (WMS) pack that contains Philips head wood and machine screws to install the closer. 4030, 4030T Series closers are shipped with: A standard WOOD and SELF-REAMING MACHINE SCREW (WMS) pack that contains Phillips head wood and self-tapping machine screws to install the closer. 
Standard LCN thru bolts (TB) can be installed on 1-3/4” (44 mm) thick doors with 1/4-20 machine screws. Optional thru bolt (TB) sizes are available for 1-5/8” (41 mm) or 1-3/8” (35 mm) door thickness, but this must be specified when ordering.

MAINTENANCE
Closers mounted according to LCN installation instructions require no periodic maintenance or adjustments.

Notes:
1. For Thru Bolts, specify door thickness if other than 1-3/4” (44mm), represented in diagram as dimension “X”.
2. Phillips head, metric machine screws are available, please specify.
3. LCN recommends the use of wood screws, available in optional WMS screw packs, for wood door applications.

Drill 25/64” for steel doors or Drill 3/8” for wood doors

LCN Door Control Catalog
The 4010 is LCN’s best performing heavy duty closer designed specifically for institutional and other rugged high traffic applications.

### Certifications
- Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act

### Body Construction
- Cast Iron Body
- Full Complement Bearing
- 1-1/2” Diameter Piston
- 11/16” Diameter Double Heat Treated Pinion Journal

### Fluid
- All Weather Fluid

### Handing
- Handed

### Templating
- Peel-n-Stick templates - 2-1/2” x 6” Mounting Hole Pattern

### Size
- Adjustable 1-5 or Sized 6

### Warranty
- 30 years

### Cover
- Plastic, Standard
- Metal, Optional

### Fasteners
- Self Reaming and Tapping Screws (SRT)

### Mounting
- Hinge (Pull Side)

### Arms
- Regular Arm

### Finishes/Colors/
- Powder Coat
- Aluminum (689)
- Statuary Bronze (690)
- Light Bronze (691)
- Black (693)
- Dark Bronze (695)
- Brass (696)
- Custom colors optional

Optional SRI primer - powder coat only
Optional plated finishes

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**Features**

4010 Series

**4010 Series**

**Features**

**Certificate**
Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act

**Body Construction**
- Cast Iron Body
- Full Complement Bearing
- 1-1/2” Diameter Piston
- 11/16” Diameter Double Heat Treated Pinion Journal

**Fluid**
All Weather Fluid

**Holding**
Handed

**Templating**
Peel-n-Stick templates - 2-1/2” x 6” Mounting Hole Pattern

**Size**
Adjustable 1-5 or Sized 6

**Warranty**
30 years

**Cover**
- Plastic, Standard
- Metal, Optional

**Fasteners**
- Self Reaming and Tapping Screws (SRT)

**Mounting**
- Hinge (Pull Side)

**Arms**
- Regular Arm

**Finishes/Colors/ Powder Coat**
- Aluminum (689)
- Statuary Bronze (690)
- Light Bronze (691)
- Black (693)
- Dark Bronze (695)
- Brass (696)
- Custom colors optional

Optional SRI primer - powder coat only
Optional plated finishes

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**Special Templates**
Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

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**AVAILABILITY**
- Closer available with less than 5.0 lbs. opening force on 36” door.
- * Maximum opening/hold-open point with standard template.
- ** Advanced Variable Backcheck.

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LCN Door Control Catalog
Butt Hinges  Should not exceed 5˝ (127 mm) in width

Auxiliary Stop  Recommended at hold-open point or where a door cannot swing 140°

Reveal  Should not exceed 3/4˝ (19 mm). Should not exceed 1/8˝ (3 mm) for Fusible link arm

Top Rail  
- Less than 3-3/4˝ (95 mm) requires PLATE, 4010-18
- Plate requires 2˝ (51 mm) minimum
- Clearance of 2-1/4˝ (57 mm) behind door required for 90° installation

Delayed Action  
- Add suffix “DEL” to selected cylinder
- Not available with 4016 cylinder
- Delays closing from maximum opening to approximately 70°.
- Delay time adjustable up to approximately 1 minute

Maximum Opening  Can be templated for:

100°:  
- A = 5-15/16˝ (151 mm)
- B = 11-15/16˝ (303 mm)

140°:  
- A = 4-3/16˝ (106 mm)
- B = 10-3/16˝ (259 mm)

Hold-open points up to maximum opening with hold-open arm

Arm Clearance  
- Regular arm:  
  C = 1-1/16˝ (27 mm)
- Hold-open arm:  
  C = 1-3/8˝ (35 mm)
- Fusible link arm requires:  
  C = 1-5/8˝ (41 mm)

Note:  
- Hold-open points up to maximum opening with hold-open arm
### Cylinders

<table>
<thead>
<tr>
<th>4011(6)-3071</th>
<th>Cast Iron Cylinder Assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handed</td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td></td>
</tr>
</tbody>
</table>

### Covers

<table>
<thead>
<tr>
<th>4010-72</th>
<th>Plastic Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handed</td>
<td>Non-handed</td>
</tr>
<tr>
<td>Standard</td>
<td>Standard</td>
</tr>
</tbody>
</table>

### Installation Accessories

<table>
<thead>
<tr>
<th>4010-72MC</th>
<th>Metal Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handed</td>
<td>Required for plated finishes and custom powder coat finishes</td>
</tr>
<tr>
<td></td>
<td>Optional</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4010-3077</th>
<th>Regular Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-handed</td>
<td></td>
</tr>
</tbody>
</table>

### Arms

<table>
<thead>
<tr>
<th>4010-3049</th>
<th>Hold-Open Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provides hold-open function, adjustable at elbow</td>
<td></td>
</tr>
<tr>
<td>Optional</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4010-3049FL</th>
<th>Fusible Link Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handed</td>
<td></td>
</tr>
<tr>
<td>Releases hold-open function when exposed to temperatures above 165° F. 1/8˝ (3 mm) maximum reveal</td>
<td></td>
</tr>
<tr>
<td>Optional</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Check local codes before specifying FL arms. NOT a life safety product!
How-to-order 4010 Series closers

1. Select cylinder size
   - 4011 (adjustable from size 1 to 5)
   - 4016 (DEL not available)
2. Specify hand
   - RH
   - LH
3. Select finish
   - Standard Powder Coat
     Aluminum, Dark Bronze, Statuary, Light Bronze, Black, Brass.

Closer options

- **Cylinder**
  - Delayed Action (DEL)
- **Cover**
  - Metal (MC)
- **Arm**
  - Hold-Open (H)
  - Fusible Link, 165°F (FL)
- **Finish**
  - Custom Powder Coat (RAL)
  - Plated Finish, US
  - SRI primer (use with powder coat finishes only)

Screw Pack

- TB* & SRT Screw (TB_SRT)
- Wood & Machine Screw (WMS)
- TB*, Wood & Machine Screw (TBWMS)
- TORX Machine Screw (TORX)
- TB* & TORX Machine Screw (TB_TRX)
  * Specify door thickness if other than 1-3/4”

Installation Accessories

- Plate, 4010-18
- Special Template
  - ST- _______

Table of sizes

- Select closer based on width of door
- The spring power of non-sized 4011 cylinder is adjustable from size 1 through size 5 and is shipped set to size 3
- Sized 4010 Series cylinders available in size 6
- Delayed action not available with 4016 cylinder

<table>
<thead>
<tr>
<th>Exterior (And Vestibule) Door Width</th>
<th>24”</th>
<th>30”</th>
<th>36”</th>
<th>42”</th>
<th>48”</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>610mm</td>
<td>762mm</td>
<td>914mm</td>
<td>1067mm</td>
<td>1219mm</td>
</tr>
<tr>
<td>4011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4016</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum door width</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Indicates recommended range of door width for closer size.
* Adjustable Size 1 thru 5.

<table>
<thead>
<tr>
<th>Interior Door Width</th>
<th>24”</th>
<th>34”</th>
<th>38”</th>
<th>48”</th>
<th>54”</th>
<th>60”</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>610mm</td>
<td>864mm</td>
<td>965mm</td>
<td>1219mm</td>
<td>1372mm</td>
<td>1524mm</td>
</tr>
<tr>
<td>4011</td>
<td>size 2</td>
<td>size 3</td>
<td>size 4</td>
<td>size 5</td>
<td>size 6</td>
<td></td>
</tr>
<tr>
<td>4016</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum door width</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Reduced opening force 4010 Series closers

**CAUTION!** Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to POWER OPERATORS section for information on systems that meet reduced opening force requirements without effecting closing power.

<table>
<thead>
<tr>
<th>Door Width</th>
<th>36”</th>
<th>42”</th>
<th>48”</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.5 lbs.</td>
<td>4011</td>
<td>4011</td>
<td>4011</td>
</tr>
<tr>
<td>5.0 lbs.</td>
<td>4011</td>
<td>4011</td>
<td>4011</td>
</tr>
</tbody>
</table>

* Maximum opening force.
The 4010T is LCN’s best performing heavy duty track closer designed specifically for interior doors in institutional and other rugged high traffic applications.

<table>
<thead>
<tr>
<th>Features</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4010T Series</td>
<td></td>
</tr>
<tr>
<td><strong>Certifications</strong></td>
<td>Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act</td>
</tr>
<tr>
<td><strong>Body Construction</strong></td>
<td></td>
</tr>
<tr>
<td>Cast Iron Body</td>
<td></td>
</tr>
<tr>
<td>Full Complement Bearing</td>
<td></td>
</tr>
<tr>
<td>1-1/2” Diameter Piston</td>
<td></td>
</tr>
<tr>
<td>11/16” Diameter Double Heat Treated Pinion Journal</td>
<td></td>
</tr>
<tr>
<td><strong>Fluid</strong></td>
<td>All Weather Fluid</td>
</tr>
<tr>
<td><strong>Handing</strong></td>
<td>Handed</td>
</tr>
<tr>
<td><strong>Templating</strong></td>
<td>Peel-n-Stick templates - 2-1/2” x 6” Mounting Hole Pattern</td>
</tr>
<tr>
<td><strong>Size</strong></td>
<td>Sized 1, 3 or 4</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>30 years</td>
</tr>
<tr>
<td><strong>Cover</strong></td>
<td>Plastic, Standard</td>
</tr>
<tr>
<td>Metal, Optional</td>
<td></td>
</tr>
<tr>
<td><strong>Fasteners</strong></td>
<td>Self Reaming and Tapping Screws (SRT)</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>Hinge (Pull Side)</td>
</tr>
<tr>
<td><strong>Arms</strong></td>
<td>Standard Arm and Track with Roller</td>
</tr>
<tr>
<td><strong>Finishes/Colors/ Powder Coat</strong></td>
<td>Aluminum (689)</td>
</tr>
<tr>
<td>Statuary Bronze (690)</td>
<td></td>
</tr>
<tr>
<td>Light Bronze (691)</td>
<td></td>
</tr>
<tr>
<td>Black (693)</td>
<td></td>
</tr>
<tr>
<td>Dark Bronze (695)</td>
<td></td>
</tr>
<tr>
<td>Brass (696)</td>
<td></td>
</tr>
<tr>
<td>Custom colors optional</td>
<td></td>
</tr>
<tr>
<td>Optional SRI primer - powder coat only</td>
<td></td>
</tr>
<tr>
<td>Optional plated finishes</td>
<td></td>
</tr>
</tbody>
</table>

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

![Diagram of mounting options](image)

- **Available**
- **Not Available**

Closer available with less than 5.0 lbs. Opening force @ 36”

* Maximum opening/hold-open point with standard template.
### Butt Hinges
Should not exceed 5" (127 mm) in width

### Auxiliary Stop
Recommended at hold-open point or where a door cannot swing 180°
*Note: Optional track bumper assembly assists backcheck in cushioning the opening swing of the door. It is not intended to replace an auxiliary stop*

### Reveal
- Should not exceed 1/8" (3 mm) for standard arm
- Should not exceed 3-5/16" (84 mm) for double egress arm

### Top Rail
- Less than 3-3/4" (95 mm) requires PLATE, 4010T-18
  *Note: Plate requires 2" (51 mm) minimum*

### Head Frame
Requires 1-1/2" (38 mm) minimum

### Clearance
- 2-1/4" (57 mm) behind door required for 90° or 180° installation

### Maximum Opening
- Templating allows 180° with standard arm, limited to 120° when optional bumper is installed
- Consult factory if door will be held open at 180°
- Variable hold-open angles with infinite options

**Notes:**
- Many track style door closers are capable of allowing 180° of door swing
- The majority of track style closers are at their weakest closing force in the 180° – 130° range
- Consult factory for applications where door must swing 180°
### Cylinders

- **4011T(3)(4)-3071**
  - Cast Iron Cylinder Assembly
  - Handed
  - Standard

- **4010T-72**
  - Plastic Cover
  - Non-handed
  - Standard

- **4010T-72MC**
  - Metal Cover
  - Handed
  - Required for plated finishes and custom powder coat finishes (Optional)

### Covers

- **4010T-3077T**
  - Standard Arm
  - Non-handed
  - Non hold-open
  - With hold-open clip and/or bumper assembly
  - Standard

- **4010T-3077DE**
  - Double Egress Arm
  - Handed
  - For double egress doors and frames
  - Does not include track roller
  - Maximum reveal is 3 5/16˝ (84mm)
  - Optional

- **4010T-3038**
  - Standard Track
  - Non-handed
  - Non hold-open
  - Will accept hold-open clip and/or bumper assembly

- **4010T-3038B**
  - Standard Track with Bumper
  - Non-handed
  - Non hold-open
  - With bumper assembly installed
  - Will accept hold-open clip
  - Optional

- **4010T-3038H**
  - Hold-Open Track
  - Non-handed
  - With hold-open clip installed
  - Will accept bumper assembly
  - Optional

- **4010T-3038HB**
  - Hold-Open Track with Bumper
  - Non-handed
  - With hold-open clip and bumper assembly installed
  - Optional
**4010T Series**

**Installation Accessories**

4010T-18 Plate
- Required where top rail is less than 3-3/4” (95 mm)
- Requires minimum 2” (51 mm) top rail

4010T-169 Track Bumper
- Mounts in track to assist backcheck, does not replace auxiliary stop
- Limits maximum opening
- Consists of bumper, bumper post, and mounting screw

4010T-3054 Hold-Open Clip
- Mounts in track to provide hold-open function
- Hold-open point controlled by clip location
- Consists of clip and mounting screws
- Requires 4010T-3034H Track Roller

4010T-3034H Track Roller
- Quiet, low friction roller assembly
- Shoulder dimension “X” = 1/16” (2mm)
- Spring-loaded hold-open mechanism

4010T-3034 Track Roller
- Quiet, low friction roller assembly
- Shoulder dimension “X” = 1/16” (2mm)
How-to-order 4010T Series closers

1. Select cylinder size
   - 4011T (ADA)
   - 4013T
   - 4014T

2. Specify hand
   - RH
   - LH

3. Select finish
   - Standard Powder Coat
     Aluminum, Dark Bronze, Statuary, Light Bronze, Black, Brass.

Closer will be shipped with:
- Standard cylinder
- Standard cover
- Standard arm
- Track roller
- Standard track
- Self-reaming and tapping screws unless options listed below are selected.

Closer options

Cover
- Metal (MC)

Arm
- Double Egress (DE)**

Track
- Regular with Bumper (BUMPER)
- Hold-Open (HO)
- Hold-Open with Bumper (HBLUMPER)

Finish
- Custom Powder Coat (RAL) (handed metal cover required)
- Plated Finish, US (handed metal cover required)
- SRI primer (use with powder coat finishes only)

Screw Pack
- TB* & SRT Screw (TBSRT)
- Wood & Machine Screw (WMS)
- TB*, Wood & Machine Screw (TBWMS)
- TORX Machine Screw (TORX)
- TB* & TORX Machine Screw (TBTRX)
  * Specify door thickness if other than 1-3/4”

Installation Accessories
- Plate, 4010T-18
- Special Template
  - ST-_____

** Note: Using this closer on double-egress doors and frames requires the closer to be ordered with a “DE” suffix (i.e., 4014T DE). Standard “DE” option will accommodate pull side reveals up to 3-5/16". For deeper reveals, consult factory.

Table of sizes

- Select closer based on width of door
- Sized 4010T Series cylinders available in size 1, 3 or 4
- Closing power of all 4010T Series closers may be increased 15%

<table>
<thead>
<tr>
<th>Interior door width</th>
</tr>
</thead>
<tbody>
<tr>
<td>26” 660mm</td>
</tr>
<tr>
<td>34” 864mm</td>
</tr>
<tr>
<td>38” 965mm</td>
</tr>
<tr>
<td>48” 1219mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size</th>
<th>4011T*</th>
<th>4013T</th>
<th>4014T</th>
</tr>
</thead>
<tbody>
<tr>
<td>26”</td>
<td>size 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>34”</td>
<td>size 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>38”</td>
<td>size 4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Minimum door width. To meet ADA, refer to chart below.

Indicates recommended range of door width for closer size.

** Note: Using this closer on double-egress doors and frames requires the closer to be ordered with a “DE” suffix (i.e., 4014T DE). Standard “DE” option will accommodate pull side reveals up to 3-5/16”. For deeper reveals, consult factory.

Reduced opening force 4010T Series closers

CAUTION! Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to AUTOMATIC OPERATORS section for information on systems that meet reduced opening force requirements without effecting closing power.

<table>
<thead>
<tr>
<th>DOOR WIDTH</th>
<th>36”</th>
<th>42”</th>
<th>48”</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.5* lbs.</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>5.0* lbs.</td>
<td>4011T</td>
<td>4011T</td>
<td>4011T</td>
</tr>
</tbody>
</table>

* Maximum opening force.
The 4020 is LCN's best performing heavy duty closer designed specifically for institutional and other rugged high traffic applications.

<table>
<thead>
<tr>
<th>Certifications</th>
<th>Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act</th>
</tr>
</thead>
</table>
| Body Construction | Cast Iron Body  
| | Full Complement Bearing  
| | 1-1/2” Diameter Piston  
| | 11/16” Diameter Double Heat Treated Pinion Journal |
| Fluid | All Weather Fluid |
| Handing | Handed |
| Templating | Peel-n-Stick templates - 2 1/2” x 6” Mounting Hole Pattern |
| Size | Adjustable 1-5 or Sized 6 |
| Warranty | 30 years |

| Cover | Plastic, Standard  
| | Metal, Optional |
| Fasteners | Self Reaming and Tapping Screws (SRT) |
| Mounting | Top Jamb (Push Side) |
| Arms | Regular arm |
| Finishes/Colors/ Powder Coat |  
| | Aluminum (689)  
| | Statuary Bronze (690)  
| | Light Bronze (691)  
| | Black (693)  
| | Dark Bronze (695)  
| | Brass (696)  
| | Custom colors optional  
| | Optional SRI primer - powder coat only  
| | Optional plated finishes |

**Special Templates**  
Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

### Features

- **4020 Series**
- LCN's best performing heavy duty closer designed specifically for institutional and other rugged high traffic applications.
- **Certifications**
  - Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act
- **Body Construction**
  - Cast Iron Body
  - Full Complement Bearing
  - 1-1/2” Diameter Piston
  - 11/16” Diameter Double Heat Treated Pinion Journal
- **Fluid**
  - All Weather Fluid
- **Handing**
  - Handed
- **Templating**
  - Peel-n-Stick templates - 2 1/2” x 6” Mounting Hole Pattern
- **Size**
  - Adjustable 1-5 or Sized 6
- **Warranty**
  - 30 years

### Special Templates

- Customized installation templates or products may be available to solve unusual applications.
- Contact LCN Product Support for assistance.

**Available**

- Close available with less than 5.0 lbs. opening force on 36” door.
- Maximum opening/hold-open point with standard template.
- **Advanced Variable Backcheck.**
### Mounting details

**Top Jamb (Push) Side Mounting**

- **Butt Hinges**: Should not exceed 5” (127 mm) in width
- **Auxiliary Stop**: Recommended at hold-open point or where the door cannot swing 180°
- **Reveal**: 2-9/16” (65 mm) allows 180° opening with regular arm  
  4-13/16” (122 mm) allows up to 140° opening with regular arm  
  8” (203 mm) allows up to 140° opening with LONG ARM where standard rod and shoe is replaced with optional long rod and shoe (4020-79LR)
- **Head Frame**: Less than 3-7/16” (87 mm) requires PLATE, 4020-18 Use PLATE, 4020-18G for flush ceiling condition. Either plate requires 1-3/4” (44 mm) frame minimum.
- **Top Rail**: Requires minimum 1-1/2” (38 mm)  
  Closer on 4020-18 plate requires 2” (51 mm) minimum  
  Closer on 4020-18G plate requires 2-3/4” (70 mm) minimum
- **Delayed Action**: Add suffix “DEL” to selected cylinder.  
  Not available with 4026 cylinder  
  Delays closing from maximum opening to approximately 75°  
  Delay time adjustable up to approximately 1 minute
- **Maximum Opening**: Can be templated for: 
  100°: A = 6” (152 mm)  
  B = 12 3/8” (314 mm)  
  140°: A = 4” (102 mm)  
  B = 10 3/8” (264 mm)  
  180°: A = 2” (51 mm)  
  B = 8 3/8” (213 mm)

**Notes:**
- Hold-open points up to maximum opening or 140° whichever is less, for hold-open or fusible link arm
- For hold-open beyond 140°, use 4110 Series closer
### Cylinders

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4021(6)-3071</td>
<td>Cast Iron Cylinder Assembly</td>
</tr>
<tr>
<td></td>
<td>Handed</td>
</tr>
<tr>
<td></td>
<td>Standard</td>
</tr>
</tbody>
</table>

### Covers

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4020-72</td>
<td>Plastic Cover</td>
</tr>
<tr>
<td></td>
<td>Handed</td>
</tr>
<tr>
<td></td>
<td>Standard</td>
</tr>
<tr>
<td>4020-72MC</td>
<td>Metal Cover</td>
</tr>
<tr>
<td></td>
<td>Handed</td>
</tr>
<tr>
<td></td>
<td>Required for plated finishes and custom powder coat finishes</td>
</tr>
<tr>
<td></td>
<td>Optional</td>
</tr>
</tbody>
</table>

### Arms

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4020-3077</td>
<td>Regular Arm</td>
</tr>
<tr>
<td></td>
<td>Non-handed</td>
</tr>
<tr>
<td>4020-3077L</td>
<td>Long Arm</td>
</tr>
<tr>
<td></td>
<td>Non-handed</td>
</tr>
<tr>
<td></td>
<td>Includes 4020-79LR for deep reveals. (see page 14 for allowable reveals)</td>
</tr>
<tr>
<td></td>
<td>Optional</td>
</tr>
<tr>
<td>4020-3049</td>
<td>Hold-Open</td>
</tr>
<tr>
<td></td>
<td>Handed</td>
</tr>
<tr>
<td></td>
<td>Provides hold-open function, adjustable at elbow</td>
</tr>
<tr>
<td></td>
<td>5-3/4” (146 mm) maximum reveal, 140° hold open</td>
</tr>
<tr>
<td></td>
<td>Optional</td>
</tr>
<tr>
<td>4020-3049FL</td>
<td>Fusible Link</td>
</tr>
<tr>
<td></td>
<td>Handed</td>
</tr>
<tr>
<td></td>
<td>Releases hold-open function, adjustable at shoe, when exposed to temperatures above 165° F</td>
</tr>
<tr>
<td></td>
<td>3-7/8” (98 mm) maximum reveal</td>
</tr>
<tr>
<td></td>
<td>Optional</td>
</tr>
</tbody>
</table>

**NOTE:** Check local codes before specifying FL arms. NOT A life safety product!

### Installation Accessories

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4020-18</td>
<td>Plate</td>
</tr>
<tr>
<td></td>
<td>Required where head frame is less than 3-7/16” (87 mm)</td>
</tr>
<tr>
<td></td>
<td>Requires minimum 1-3/4” (44 mm) minimum head frame and 2” (51 mm) top rail</td>
</tr>
<tr>
<td></td>
<td>3-7/8” (98 mm) maximum reveal</td>
</tr>
<tr>
<td>4020-18G</td>
<td>Plate</td>
</tr>
<tr>
<td></td>
<td>For flush ceiling condition</td>
</tr>
<tr>
<td></td>
<td>Requires minimum 1-3/4” (44 mm) minimum head frame and 2-3/4” (70 mm) top rail</td>
</tr>
</tbody>
</table>

---

**LCN Door Control Catalog**

How-to-order 4020 Series closers

1. Select cylinder size
   - 4021 (adjustable from size 1 to 5)
   - 4026 (DEL not available)

2. Specify hand
   - RH
   - LH

3. Select finish
   - Standard Powder Coat
   - Aluminum, Dark Bronze, Statuary, Light Bronze, Black, Brass.

Closer options

- Cylinder
  - Delayed Action (DEL)

- Cover
  - Metal (MC)

- Arm
  - Hold-Open (H)
  - Fusible Link, 165°F (FL)

- Finish
  - Custom Powder Coat (RAL) (handed metal cover required)
  - Plated Finish, US (handed metal cover required)
  - SRI primer (use with powder coat finishes only)

Screw Pack

- T8* & SRT Screw (TBSRT)
- Wood & Machine Screw (WMS)
- T8* Wood & Machine Screw (TBWMS)
- TORX Machine Screw (TORX)
- T8* & TORX Machine Screw (TBTRX)

* Specify door thickness if other than 1-3/4”

Installation Accessories

- Plate, 4020-18
- Plate, 4020-18G

Special Template

- ST-

Table of sizes

- Select closer based on width of door
- The spring power of non-sized 4021 cylinder is adjustable from size 1 through size 5 and is shipped set to size 3
- Sized 4020 Series cylinders available in size 6
- Delayed action not available with 4026 cylinder

Exterior (and Vestibule) door width

<table>
<thead>
<tr>
<th>Size</th>
<th>24” 610mm</th>
<th>30” 762mm</th>
<th>36” 914mm</th>
<th>42” 1067mm</th>
<th>48” 1219mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>4021</td>
<td>size 3</td>
<td>size 4</td>
<td>size 5</td>
<td>size 6</td>
<td></td>
</tr>
<tr>
<td>4026</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Interior door width

<table>
<thead>
<tr>
<th>Size</th>
<th>24” 610mm</th>
<th>34” 864mm</th>
<th>38” 965mm</th>
<th>48” 1219mm</th>
<th>54” 1372mm</th>
<th>60” 1524mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>4021</td>
<td>size 2</td>
<td>size 3</td>
<td>size 4</td>
<td>size 5</td>
<td>size 6</td>
<td></td>
</tr>
</tbody>
</table>

Minimum door width

Indicates recommended range of door width for closer size.

* Adjustable Size 1 thru 5.

Reduced opening force 4020 Series closers

CAUTION! Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to AUTOMATIC OPERATORS section for information on systems that meet reduced opening force requirements without effecting closing power.

<table>
<thead>
<tr>
<th>DOOR WIDTH</th>
<th>36”</th>
<th>42”</th>
<th>48”</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.5 lbs.</td>
<td>4021</td>
<td>4021</td>
<td>4021</td>
</tr>
<tr>
<td>5.0 lbs.</td>
<td>4021</td>
<td>4021</td>
<td>4021</td>
</tr>
</tbody>
</table>

* Maximum opening force.
The **4020T** is LCN’s best performing heavy duty track closer designed specifically for interior doors in institutional and other high traffic applications.

**Certifications**
- Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act

**Body Construction**
- Cast Iron Body
- Full Complement Bearing
- 1-1/2” Diameter Piston
- 11/16” Diameter Double Heat Treated Pinion Journal

**Fluid**
- All Weather Fluid

**Handing**
- Handed

**Templating**
- Peel-n-Stick templates - 2-1/2” x 6” Mounting Hole Pattern

**Size**
- Sized 1, 3 or 4

**Warranty**
- 30 years

**Cover**
- Plastic, Standard
- Metal, Optional

**Fasteners**
- Self Reaming and Tapping Screws (SRT)

**Mounting**
- Top Jamb (Pull Side)

**Arms**
- Standard arm, track with roller

**Finishes/Colors/Powder Coat**
- Aluminum (689)
- Statuary Bronze (690)
- Light Bronze (691)
- Black (693)
- Dark Bronze (695)
- Brass (696)
- Custom colors optional
- Optional SRI primer - powder coat only
- Optional plated finishes

---

**Special Templates**
Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

---

Floor & Pulsing
Top Jamb (Pull)
Top Jamb (Push)
Parallel Arm
Stop Face
Powder Coat
Plastic
Metal
Non-Handed
Non-Sized
Accessibility
Delayed Action
NLR

Cylinders
- Regular (Single)
- Standard (Single)
- MUL (PUSH)
- FlexLink
- EDH (PUSH)
- SCUSH (PUSH)
- DOUBLE EXPRESS

**Arm Function**
- 180°
- 100°

© AVAILABLE
○ NOT AVAILABLE

Closer available with less than 5.0 lbs. opening force on 36” door.

* Maximum opening/hold-open point with standard template.

** Advanced Variable Backcheck.
### Mounting details

#### Top Jamb (Pull Side) Mounting

- **Butt Hinges**: Should not exceed 5˝ (127 mm) in width
- **Auxiliary Stop**: Recommended at hold-open point or where a door cannot swing 180°
  *Note: Optional track bumper assembly assists backcheck in cushioning the opening swing of the door. It is not intended to replace an auxiliary stop*
- **Reveal**: Should not exceed 1/8˝ (3 mm)
- **Head Frame**: *
  - Less than 3-7/8˝ (98 mm), requires PLATE, 4020T-18
  - Plate requires 1-3/4˝ (44 mm) minimum
- **Clearance**: 1-1/2˝ (38 mm) behind door required for 90° or 180° installation
- **Maximum Opening**: *
  - Templating allows 180° with standard track arm, limited to 100° with optional bumper installed
  - Consult factory if door will be held open at 180°
  - Variable hold-open angles with infinite options

**Notes:**
- Many track style door closers are capable of allowing 180° of door swing
- The majority of track style closers are at their weakest closing force in the 180° – 130° range
- Consult factory for applications where door must swing 180°
**Cylinders**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Handed</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>4021T(3)(4)-3071</td>
<td>Cast Iron Cylinder Assembly</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4020T-72</td>
<td>Plastic Cover</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4020T-72MC</td>
<td>Metal Cover</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Covers**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Handed</th>
<th>Standard</th>
<th>Required for plated finishes and custom powder coat finishes</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>4020T-3077T</td>
<td>Standard Arm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4020T-3038</td>
<td>Standard Track</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4020T-3038B</td>
<td>Standard Track with Bumper</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4020T-3038H</td>
<td>Hold-Open Track</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4020T-3038HB</td>
<td>Hold-Open Track with Bumper</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Arms**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Handed</th>
<th>Roller not included with arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>4020T-3077T</td>
<td>Standard Arm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Tracks**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Non-handled</th>
<th>Non hold-open</th>
<th>Will accept hold-open clip and/or bumper assembly</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>4020T-3038</td>
<td>Standard Track</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4020T-3038B</td>
<td>Standard Track with Bumper</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4020T-3038H</td>
<td>Hold-Open Track</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4020T-3038HB</td>
<td>Hold-Open Track with Bumper</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
4020T Series

Installation Accessories

4020T-18 Plate
- Required where head frame is less than 3-7/8” (98 mm)
- Requires minimum 1-3/4” (44 mm) frame face

4020T-169 Track Bumper
- Mounts in track to assist backcheck, does not replace auxiliary stop
- Limits maximum opening
- Consists of bumper, bumper post, and mounting screw

4020T-3054 Hold-Open Clip
- Mounts in track to provide hold-open function
- Hold-open point controlled by clip location
- Consists of clip and mounting screws
- Requires 4020T-3034H Track Roller

4020T-3034H Track Roller
- Quiet, low friction roller assembly
- Shoulder dimension “X” = 1/16” (2mm)
- Spring-loaded hold-open mechanism

4020T-3034 Track Roller
- Quiet, low friction roller assembly
- Shoulder dimension “X” = 1/16” (2mm)
How-to-order 4020T Series closers

1. Select cylinder size
   - 4021T (ADA)
   - 4023T
   - 4024T

2. Specify hand
   - RH
   - LH

3. Select finish
   - Standard Powder Coat
     - Aluminum, Dark Bronze, Statuary, Light Bronze, Black, Brass.

Closer will be shipped with:
- Standard cylinder
- Standard cover
- Standard arm
- Track roller
- Standard track
- Self-reaming and tapping screws unless options listed below are selected.

Closer options

Cover
- Metal (MC)
- Track
- Standard with Bumper (BUMPER)
- Hold-Open (HO)
- Hold-Open with Bumper (HBUMPER)

Finish
- Custom Powder Coat (RAL) (handed metal cover required)
- Plated Finish, US (handed metal cover required)
- SRI primer (use with powder coat finishes only)

Screw Pack
- TB* & SRT Screw (TBSRT)
- Wood & Machine Screw (WMS)
- TB*, Wood & Machine Screw (TBWMS)
- TORX Machine Screw (TORX)
- TB* & TORX Machine Screw (TBTRX)
- * Specify door thickness if other than 1-3/4”

Installation Accessories
- Plate, 4010T-18
- Special Template
- ST- ________

Table of sizes

- Select closer based on width of door
- 4020T Series cylinders available in size 1, 3 or 4
- Closing power of all 4020T Series closers may be increased 15%
- Specify next higher size closer where strong drafts exist

Interior door width

<table>
<thead>
<tr>
<th>Size</th>
<th>600mm</th>
<th>864mm</th>
<th>965mm</th>
<th>1219mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>26”</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34”</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>38”</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>48”</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Indicates recommended range of door width for closer size.
The 4030 is a cast iron, universal closer designed specifically for doors in moderate traffic conditions. This versatile closer compliments the rest of the heavy duty 4000 Series and offers the choice of three mountings and multiple arm options.

Certifications
- Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act

Body Construction
- Cast Iron Body
- Full Complement Bearing
- 1-1/8” Diameter Piston
- 1/2” Diameter Single Heat Treated Pinion Journal

Fluid
- All Weather Fluid

Handling
- Non-Handed

Templating
- Peel-n-Stick templates - 1-23/32” x 6-17/16” Mounting Hole Pattern

Size
- Adjustable Spring Size 1-4

Warranty
- 30 years

Cover
- Metal, Standard

Fasteners
- Self Reaming and Tapping Screws (SRT)

Mounting
- Hinge (Pull Side), Top Jamb (Push Side), Parallel Arm (Push Side)

Arms
- Regular arm

Finishes/Colors/Powder Coat
- Aluminum (689)
- Statuary Bronze (690)
- Light Bronze (691)
- Black (693)
- Dark Bronze (695)
- Brass (696)
- Custom colors optional
- Optional SRI primer - powder coat only
- Optional plated finishes

Special Templates
- Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.
**4030 Series**

**Mounting details**

**Hinge (Pull) Side Mounting**

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Butt Hinges</strong></td>
<td>Should not exceed 5” (127 mm) in width</td>
</tr>
<tr>
<td><strong>Auxiliary Stop</strong></td>
<td>Recommended at hold-open point or where a door cannot swing 180°</td>
</tr>
<tr>
<td><strong>Reveal</strong></td>
<td>Should not exceed 3/16” (5 mm) for regular arm or 3/16” (5 mm) for hold-open arm</td>
</tr>
<tr>
<td><strong>Top Rail</strong></td>
<td>Requires 2-7/8” (73 mm) minimum</td>
</tr>
<tr>
<td><strong>Clearance</strong></td>
<td>1-3/4” (44 mm), behind door required for installation</td>
</tr>
<tr>
<td><strong>Maximum Opening</strong></td>
<td>- Can be templated for 180°</td>
</tr>
<tr>
<td></td>
<td>- Hold-open points up to maximum opening with hold-open arm</td>
</tr>
</tbody>
</table>
Butt Hinges Should not exceed 5” (127 mm) in width

Auxiliary Stop Recommended at hold-open point or where the door cannot swing 180°

Reveal
- up to 3-1/2” (89 mm) allows 180° opening
- up to 7-1/2” (191 mm) with long arm allows for 140° opening

Top Rail Requires 1-1/2” (38 mm) minimum from stop

Head Frame
- Less than 2-1/4” (57 mm) requires PLATE, 4030-18TJ
- Plate requires 1-1/2” (38 mm) minimum

Maximum Opening
- Can be templated for 180°
- Hold-open points up to maximum opening with hold-open arm
**4030 Series**

**Mounting details**

Parallel arm (Push Side) and EDA mounting

### Parallel arm mount

- **1-3/4” (44 mm)**
- **5” (127 mm)**
- **18” (457 mm)**

### EDA mount

- **4” (102 mm)**
- **8-1/4” (210 mm)**

---

**Butt Hinges**

- Should not exceed 5” (127 mm) in width

**Auxiliary Stop**

- Recommended at hold-open point or where a door cannot swing maximum opening

**Clearance**

- For 4030-62PA shoe is 4” (102 mm) from door face
- EDA arm is 5-1/2” (140 mm) from door face

**Top Rail**

- Less than 5” (127 mm) measured from the stop requires PLATE, 4030-18PA
- Plate requires 1-3/4” (44 mm) minimum

**Stop Width**

- Minimum 1” (25 mm)

**Head Frame**

- Flush or single rabbed requires PA SHOE ADAPTER, 4030-419

**Blade Stop**

- Clearance, requires 1/2” (13 mm) BLADE STOP SPACER, 4030-61

**Auxiliary Shoe**

- 4030-62A allows installation of regular arm with overhead holder/stop
- Special templating required

**EDA Arm**

- Requires SHOE SUPPORT, 4030-30 for fifth screw anchorage where reveal is less than 3-1/16” (78 mm)

**Maximum Opening**

- REGULAR or HOLD-OPEN arms can be templated for 180°
- EDA template allows 110° maximum opening
- Hold-open points up to maximum opening with hold-open arm

---

**Notes:**

- 4030 closer mounted with EDA arms include 4030-201 FIFTH HOLE SPACER to support the shoe
- REGULAR or HOLD-OPEN arm mounting requires PA SHOE, 4030-62PA for regular or HOLD-OPEN arms. Add prefix “P” to closer description (eg. P4031)
- P4031 closer includes 4030-201 FIFTH HOLE SPACER to support PA SHOE
Clearance
For CUSH or SPRING CUSH shoe is 5-1/2" (140 mm) from door face

Head Frame
Flush or rabbed requires CUSH FLUSH PANEL ADAPTER, 4030-419

CUSH or Spring CUSH ARM
Requires SHOE SUPPORT, 4030-30 for fifth screw anchorage where reveal is less than 3-1/16" (78 mm)

Maximum opening
CUSH and SPRING CUSH arms can be templated for maximum opening/hold-open point at:

<table>
<thead>
<tr>
<th>Angle</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>85°</td>
<td>3-5/8 (92 mm)</td>
<td>9-3/4&quot; (248 mm)</td>
</tr>
<tr>
<td>90°</td>
<td>3&quot; (76 mm)</td>
<td>9-1/8&quot; (232 mm)</td>
</tr>
<tr>
<td>100°*</td>
<td>1-7/8&quot; (48 mm)</td>
<td>8&quot; (203 mm)</td>
</tr>
</tbody>
</table>

*100° mounting will not work with swing clear hinges.

- 4031 closers ordered with CUSH or SPRING CUSH arms include 4030-201 FIFTH HOLE SPACER to support the shoe
### Accessories

#### Cylinders

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>4031-3071</td>
<td>Cast Iron Cylinder Assembly</td>
<td>Non-handed, Standard</td>
</tr>
<tr>
<td>4030-72MC</td>
<td>Metal Cover</td>
<td>Non-handed, Standard</td>
</tr>
</tbody>
</table>

#### Installation Accessories

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>4030-18TJ</td>
<td>Plate</td>
<td>Required for top jamb mounting where head frame is less than 2-1/4” (57 mm) or flush ceiling condition exists. Requires 1-1/2” (38 mm) minimum.</td>
</tr>
<tr>
<td>4030-18PA</td>
<td>Plate</td>
<td>Required for parallel arm mounting where top rail is less than 5” (127 mm), measured from the stop. Requires 1-3/4” (44 mm) minimum.</td>
</tr>
<tr>
<td>4030-30</td>
<td>CUSH Shoe Support</td>
<td>Provide anchorage for fifth screw used with CUSH arms where reveal is less than 3-1/16” (78 mm).</td>
</tr>
<tr>
<td>4030-61</td>
<td>Blade Stop Spacer</td>
<td>Lowers parallel arm shoe to clear 1/2” (13 mm) blade stop.</td>
</tr>
<tr>
<td>4030-62A</td>
<td>Auxiliary Shoe</td>
<td>Requires a top rail of 7” (178 mm). Replaces -62PA for parallel arm mounting of regular arm with some overhead holder/stop. Optional.</td>
</tr>
<tr>
<td>4030-419</td>
<td>PA Flush Panel Adapter</td>
<td>Provides horizontal mounting surface for PA or CUSH shoe on single rabbed or flush frame.</td>
</tr>
<tr>
<td>4030-62PA</td>
<td>PA Shoe</td>
<td>Required for parallel arm mounting.</td>
</tr>
</tbody>
</table>

### 4030 Series

- **Accessories**
  - **Cylinders**
    - 4031-3071: Cast Iron Cylinder Assembly
      - Non-handed
      - Standard
    - 4030-72MC: Metal Cover
      - Non-handed
      - Standard
  - **Installation Accessories**
    - 4030-18TJ: Plate
      - Required for top jamb mounting where head frame is less than 2-1/4” (57 mm) or flush ceiling condition exists
      - Requires 1-1/2” (38 mm) minimum
    - 4030-18PA: Plate
      - Required for parallel arm mounting where top rail is less than 5” (127 mm), measured from the stop
      - Requires 1-3/4” (44 mm) minimum
    - 4030-30: CUSH Shoe Support
      - Provide anchorage for fifth screw used with CUSH arms where reveal is less than 3-1/16” (78 mm)
    - 4030-61: Blade Stop Spacer
      - Lowers parallel arm shoe to clear 1/2” (13 mm) blade stop
    - 4030-62A: Auxiliary Shoe
      - Requires a top rail of 7” (178 mm)
      - Replaces -62PA for parallel arm mounting of regular arm with some overhead holder/stop
      - Optional
    - 4030-419: PA Flush Panel Adapter
      - Provides horizontal mounting surface for PA or CUSH shoe on single rabbed or flush frame
    - 4030-62PA: PA Shoe
      - Required for parallel arm mounting
**Arms**

**4030-3077**  
Regular Arm  
- Non-handed  
- Mounts hinge side or top jamb  
- P4031 closer includes PA SHOE, 4030-62PA is required for parallel arm mounting

**4030-3077LD**  
Light Duty Arm  
- Non-handed  
- Mounts hinge side, top jamb or parallel arm (62PA required)  
- Optional

**4030-3077L**  
Long Arm  
- Non-handed  
- Includes LONG ROD AND SHOE, 4030-79LR for top jamb mount with deep reveals  
- Optional

**4030-3049**  
Hold-Open Arm  
- Non-handed  
- Mounts hinge side, top jamb or parallel arm (62PA required)  
- Hold-open adjustable at shoe  
- Optional

**4030-3049L**  
Long Hold-Open Arm  
- Non-handed  
- Includes LONG HEAD AND TUBE, 4030-3048L for top jamb mount with deep reveals  
- Optional

**4030-3077EDA**  
Extra Duty Arm  
- Non-handed  
- Extra duty arm features solid forged steel main and forearm for potentially abusive installations  
- Optional

**4030-3049EDA**  
Hold-Open EDA Arm  
- Handed  
- Arm, provides hold-open function adjustable at shoe  
- Optional

**4030-3077CNS**  
Cush-n-Stop® Arm  
- Non-handed  
- Solid forged steel main arm and forearm with stop in soffit shoe  
- Optional

**4030-3049CNS**  
Hold-Open CUSH Arm  
- Non-handed  
- Provides hold-open function with templated stop/hold-open points  
- Handle controls hold-open function  
- Optional

**4030-3077SCNS**  
Spring CUSH Arm  
- Non-handed  
- Features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe  
- Handle controls hold-open function  
- Optional

**4030-3049SCNS**  
Spring HCUSH Arm  
- Non-handed  
- For abusive applications  
- Features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe  
- Handle controls hold-open function  
- Optional
How-to-order 4030 Series closers

1. Select finish
   - Standard Powder Coat
   - Aluminum, Dark Bronze, Statuary
   - Light Bronze, Black, Brass.

Closer options

Finish
- Custom Powder Coat (RAL)
- Plated Finish, US
- SRI primer (use with powder coat finishes only)

Arm
- Regular w/62PA (Rw/PA)
- Regular w/62A (R/62A)
- Long (LONG)
- Hold-Open (H)
- Hold-Open w/62PA (Hw/PA)
- Long Hold-Open (HLONG)
- Light Duty (LD)
- Light Duty w/62A (LD/62A)
- Light Duty w/62PA (LD/PA)
- Light Duty Long (LDL)
- EDA
- HEDA (specify right or left hand)
- Cush-N-Stop (CUSH)
- HCush-N-Stop (HCUSH)
- Spring Cush (SCUSH)
- Spring HCush (SHCUSH)

Optional Screw Packs
- TB*, Wood & Machine Screw (TBWMS)
  * Specify door thickness if other than 1-3/4”.

Installation Accessories
- Plate, 4030-18TJ
- Plate, 4030-18PA
- CUSH Shoe Support, 4030-30
- Blade Stop Spacer, 4030-61
- Auxiliary Shoe, 4030-62A
- PA Flush Panel Adapter, 4030-419

Special Template
- ST-__________

Table of sizes

- Non-sized 4031 cylinder is adjustable from sizes 1 to 4 and is shipped set to size 3.

![Door Width Table]

Reduced opening force 4030 Series closers

CAUTION! Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to AUTOMATIC OPERATORS section for information on systems that meet reduced opening force requirements without effecting closing power.

![Door Width Table with Reduced Opening Force]
The 4031T is a single lever (track) arm, surface mounted closer designed for interior use on narrow head frames and top rails. The choice of three mountings and ease of installation offer a versatile solution to door control in moderate traffic applications. The 4030T compliments the heavy duty 4000 Series.

**Features**

* 4030T Series

The 4031T is a single lever (track) arm, surface mounted closer designed for interior use on narrow head frames and top rails. The choice of three mountings and ease of installation offer a versatile solution to door control in moderate traffic applications. The 4030T compliments the heavy duty 4000 Series.

**Certifications**

- Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act

**Body Construction**

- Cast Iron Body
- Full Complement Bearing
- 1-1/8" Diameter Piston
- 1/2" Diameter Single Heat Treated Pinion Journal

**Fluid**

- All Weather Fluid

**Handing**

- Non-Handed

**Size**

- Adjustable Spring Size 1-3

**Warranty**

- 30 years

**Cover**

- Metal, Standard

**Fasteners**

- Self Reaming and Tapping Screws (SRT)

**Mounting**

- Pull side on door, pull side on frame and push side on door

**Arms**

- Standard arm and track

**Finishes/Colors/Powder Coat**

- Aluminum (689)
- Statuary Bronze (690)
- Light Bronze (691)
- Black (693)
- Dark Bronze (695)
- Brass (696)
- Custom colors optional
- Optional SRI primer - powder coat only
- Optional plated finishes

**Special Templates**

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

---

Available

Not Available

Closer available with less than 5.0 lbs. opening force on 36” door.

* Maximum opening/hold-open point with standard template. See individual closer series for degrees of opening per installation.
### 4030T Series

#### Mounting details

**Hinge (Pull Side) Mounting**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Butt Hinges</strong></td>
<td>Should not exceed 5” (127 mm) in width</td>
</tr>
<tr>
<td><strong>Auxiliary Stop</strong></td>
<td>Recommended at hold-open point or where a door cannot swing 180°</td>
</tr>
<tr>
<td><strong>Reveal</strong></td>
<td>Should not exceed 7/32” (6 mm)</td>
</tr>
<tr>
<td><strong>Top Rail</strong></td>
<td>Requires 2-7/8” (73 mm) minimum</td>
</tr>
<tr>
<td><strong>Clearance</strong></td>
<td>1-3/4” (44 mm), behind door required for installation</td>
</tr>
<tr>
<td><strong>Maximum Opening</strong></td>
<td>Can be templated for 180°</td>
</tr>
<tr>
<td></td>
<td>Consult factory if door will be held open at 180°</td>
</tr>
<tr>
<td></td>
<td>Hold-open points up to maximum opening point with hold-open option</td>
</tr>
</tbody>
</table>

#### Notes:
- Many track style door closers are capable of allowing 180° of door swing.
- The majority of track style closers are at their weakest closing force in the 180°-130° range.
- Consult factory for applications where door must swing 180°
Butt Hinges: Should not exceed 5” (127 mm) in width

Auxiliary Stop: Recommended at hold-open point or where the door cannot swing 180°

Reveal: Should not exceed 1/8” (3 mm)

Top Rail: Requires 1” (25 mm) minimum

Head Frame: Requires 2-7/8” (73 mm) minimum

Maximum Opening:
- Can be templated for 180°
- Consult factory if door will be held open at 180°
- Hold-open points up to Maximum opening point with hold-open option

Notes:
- Many track style door closers are capable of allowing 180° of door swing.
- The majority of track style closers are at their weakest closing force in the 180°-130° range.
- Consult factory for applications where door must swing 180°.
4030T Series

Mounting details

Stop Face (Push) Side Mounting

<table>
<thead>
<tr>
<th>Butt Hinges</th>
<th>Should not exceed 5” (127 mm) in width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auxiliary Stop</td>
<td>Recommended at hold-open point or where a door cannot swing 110°</td>
</tr>
<tr>
<td>Reveal</td>
<td>Should not exceed 1-3/4” (44 mm)</td>
</tr>
<tr>
<td>Top Rail</td>
<td>Requires 4-1/8” (105 mm) minimum measured from the stop</td>
</tr>
<tr>
<td>Head Frame</td>
<td>Minimum 1-1/4” (32 mm)</td>
</tr>
<tr>
<td>Maximum opening</td>
<td>Can be templated for 110°</td>
</tr>
<tr>
<td></td>
<td>Hold-open points up to maximum opening with hold-open option</td>
</tr>
</tbody>
</table>

Notes:
- Many track style door closers are capable of allowing 180° of door swing.
- The majority of track style closers are at their weakest closing force in the 180°-130° range.
- Consult factory for applications where door must swing 180°.
**Cylinders**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4031T-3071</td>
<td>Cast Iron Cylinder Assembly</td>
<td>Non-handed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Standard</td>
</tr>
</tbody>
</table>

**Covers**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4030T-72MC</td>
<td>Metal Cover</td>
<td>Non-handed</td>
</tr>
</tbody>
</table>

**Arms**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4030T-3077T</td>
<td>Standard Arm</td>
<td>Non-handed, Single lever mounts hinge side, top jamb or stop face, Track roller included</td>
</tr>
</tbody>
</table>

**Tracks**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4030T-3038</td>
<td>Standard Track</td>
<td>Non-handed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non hold-open track mounts on either side of the door, Will accept hold-open clip, Standard</td>
</tr>
<tr>
<td>4030T-3038H</td>
<td>Hold-Open Track</td>
<td>Non-handed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hold-open track mounts on either side of the door, Comes with 4030T-3054 Hold-open clip, Optional</td>
</tr>
</tbody>
</table>

**Installation Accessories**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4030T-3054</td>
<td>Hold-Open Clip</td>
<td>Mounts in track to provide hold-open function, Hold-open point controlled by clip location, Requires 4030T-3034H</td>
</tr>
</tbody>
</table>
How-to-order 4030T Series closers

1. Select finish
   - Standard Powder Coat
     Aluminum, Dark Bronze, Statuary, Light Bronze, Black, Brass.
   - Custom Powder Coat (RAL)
   - Plated Finish, US
   - SRI primer (use with powder coat finishes only)

Closer will be shipped with:
- Standard cylinder
- Standard metal cover
- Standard track
- Standard arm
- Track roller
- Wood and self-tapping machine screw pack unless options listed below are selected.

Optional Screw Packs
- TB*, Wood & Machine Screw (TBWMS)

Closer options

Finish
- Custom Powder Coat (RAL)
- Plated Finish, US
- SRI primer (use with powder coat finishes only)

Track
- Hold-open (H)

How-to-order 4030T Series closers

Closer options

Finish
- Custom Powder Coat (RAL)
- Plated Finish, US
- SRI primer (use with powder coat finishes only)

Track
- Hold-open (H)

Optional Screw Packs
- TB*, Wood & Machine Screw (TBWMS)

Table of sizes

- Non-sized 4031T cylinder is adjustable from sizes 1 to 3 and is shipped set to size 3.

Reduced opening force 4030T Series closers

CAUTION! Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to AUTOMATIC OPERATORS section for information on systems that meet reduced opening force requirements without effecting closing power.

<table>
<thead>
<tr>
<th>DOOR WIDTH</th>
<th>36”</th>
<th>42”</th>
<th>48”</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.5 lbs.</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>5.0 lbs.</td>
<td>4031T</td>
<td>4031T</td>
<td>4031T</td>
</tr>
</tbody>
</table>

* Maximum opening force.
The 4040XP is LCN's most durable and flexible heavy duty closer designed for institutional and other demanding high traffic applications.

### Features

<table>
<thead>
<tr>
<th>Certifications</th>
<th>Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Body Construction</strong></td>
<td>- Cast Iron Body</td>
</tr>
<tr>
<td></td>
<td>- Full Complement Bearings</td>
</tr>
<tr>
<td></td>
<td>- 1-1/2” Diameter Piston</td>
</tr>
<tr>
<td></td>
<td>- 3/4” Diameter Double Heat Treated Pinion Journal</td>
</tr>
<tr>
<td><strong>Fluid</strong></td>
<td>All Weather Liquid X Fluid</td>
</tr>
<tr>
<td><strong>Handing</strong></td>
<td>Non-Handed</td>
</tr>
<tr>
<td><strong>Templating</strong></td>
<td>Peel-n-Stick templates - 2-1/4” x 5” Mounting Hole Pattern</td>
</tr>
<tr>
<td><strong>Size</strong></td>
<td>Adjustable Spring Size 1-6, includes Patented Green Dial</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>30 years</td>
</tr>
</tbody>
</table>

### Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

### Cover

- Plastic, Standard
- Metal, Optional

### Fasteners

Self Reaming and Tapping Screws (SRT)

### Mounting

Hinge (Pull Side), Top Jamb (Push Side), Parallel Arm (Push Side)

### Arms

Regular Arm

### Finishes/Colors/

- Aluminum (689)
- Statuary Bronze (690)
- Light Bronze (691)
- Black (693)
- Dark Bronze (695)
- Brass (696)
- Custom colors optional
- Optional SRI primer - powder coat only
- Optional plated finishes
### Butt Hinges
- Should not exceed 5” (127 mm) in width

### Auxiliary Stop
- Recommended at hold-open point or where a door cannot swing beyond 120°

### Reveal
- Should not exceed 3/4” (19 mm) for regular arm or hold-open arm

### Top Rail
- Less than 3-3/4” (95 mm) requires PLATE, 4040XP-18. Plate requires 2” (51 mm) minimum

### Clearance
- 2-3/8” (60 mm) behind door required for 90° installation

### Delayed Action
- Incorporates standard 4041 cylinder, without XP cylinder
- Delays closing from 120° to 70°
- Delay time adjustable up to approximately 1 minute

### Maximum Opening
- Templating allows up to 120°.
- Hold-open points 90° up to 120° with hold-open arm.
### Butt Hinges
Should not exceed 5” (127 mm) in width

### Auxiliary Stop
Recommended at hold-open point or where a door cannot swing beyond 120°

<table>
<thead>
<tr>
<th>Reveal</th>
<th>Arm Type</th>
<th>Reveal</th>
<th>Max Opening</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Regular Arm</td>
<td>2-9/16”</td>
<td>Up to 120°</td>
</tr>
<tr>
<td></td>
<td>Long</td>
<td>4-13/16”</td>
<td>Up to 120°</td>
</tr>
<tr>
<td></td>
<td>Hold-Open</td>
<td>2-9/16”</td>
<td>Up to 120°</td>
</tr>
<tr>
<td></td>
<td>Long Hold-Open Arm</td>
<td>8”</td>
<td>Up to 120°</td>
</tr>
</tbody>
</table>

### Top Rail
- Requires 1-1/4” (32 mm) minimum
- 2-1/4” (57 mm) minimum with closer on PLATE, 4040XP-18TJ
- 3” (76 mm) minimum with closer on PLATE, 4040XP-18G

### Head Frame
- Less than 3-1/2” (89 mm) requires PLATE, 4040XP-18TJ
- With flush ceiling, use PLATE, 4040XP-18G. Either plate requires 1-3/4” (44 mm) minimum

### Maximum Opening
- Templating allows up to 120°.
- Hold-open points 85° up to 120° with hold-open arm.

### Delayed Action
- Incorporates standard 4041 cylinder, without XP cylinder
- Delays closing from 120° to 70°
- Delay time adjustable up to approximately 1 minute
### Butt Hinges
Should not exceed 5” (127 mm) in width

### Auxiliary Stop
Recommended at hold-open point, where the door cannot swing 180°, or where CUSH-N-STOP arm is not used

### Reveal
Should not exceed 7/32˝ (6 mm)

### Top Rail
Less than 5-3/8˝ (137 mm) measured from the stop requires PLATE, 4040XP-18PA. Plate requires 2˝ (51 mm) minimum from the stop

### Head Frame
Flush or rabbed requires PA SHOE ADAPTER, 4040XP-419

### Stop Width
Minimum 1˝ (25 mm). CUSH arm requires minimum 1-1/2˝ (38 mm)

### Blade Stop
Clearance requires 1/2˝ (13mm) BLADE STOP SPACER, 4040XP-61.

### Clearance
- 4040XP-62PA shoe is 4” (102 mm) from door face.
- EDA shoe projects 5-1/2˝ (140 mm) from door face.
- CUSH shoe projects 6˝ (152 mm) from door face

### Delayed Action
- Incorporates standard 4041 cylinder, without XP cylinder
- Delays closing from 120° to 70°.
- Delay time adjustable up to approximately 1 minute.

### Maximum Opening
- 180° opening/hold-open points with all except CUSH arms
- 110° opening/hold-open with CUSH arms

### Notes:
- Optional mounting requires PA SHOE, 4040XP-62PA for regular or HOLD-OPEN arms
- Add prefix “P” to closer description (eg. P4040XP)
- P4040XP closer includes 4040XP-201 FIFTH HOLE SPACER to support PA SHOE
Clearance
4040XP-62EDA is 5-1/2” (140 mm) from door face. 6” (152 mm) for CUSH

Head Frame
Flush or rabbed requires CUSH FLUSH PANEL ADAPTER, 4040XP-419

CUSH ARM
Requires SHOE SUPPORT, 4040XP-30 for fifth screw anchorage for narrow frames

Delayed Action
- Incorporates standard 4041 cylinder, without XP cylinder.
- Delays closing from maximum opening to: 115° with 180° template, 95° with 110° template, 85° with 100° template, 75° with 90° template. Delay time adjustable up to approximately 1 minute.

Maximum Opening
EDA arm can be templated for points at:
110°:
A = 6-3/8” (162 mm)
B = 7-3/4” (197 mm)
or 180°:
A = 2-7/8” (73 mm)
B = 4-1/4” (108 mm)

Hold-open points up to maximum opening with HEDA arm

CUSH arms can be templated for opening/hold-open point at:
85°:
A = 7-15/16” (202 mm)
B = 9-1/8” (232 mm)
or 90°:
A = 7-3/16” (183 mm)
B = 8-1/2” (216 mm)

100°:
A = 6-1/16” (154 mm)
B = 7-3/14” (184 mm)
or 110°:
A = 5-1/16” (129 mm)
B = 6-3/8” (162 mm)

Notes:
- 4040XP Series closers ordered with EDA or CUSH arms include 4040XP-201 FIFTH HOLE SPACER to support the shoe
- Spring Cush stop points are approximately 5” more than templated stop point
- Hold open at templated stop points
### Cylinders

**4040XP-3071**
- Cast Iron Cylinder Assembly
- Non-handed
- Heavy duty

**4041-3071 DEL**
- Cast Iron Cylinder Assembly
- Used for delayed action closing
- Non-handed
- Heavy duty

### Covers

**4040XP-72**
- Plastic Cover
- Includes 4040XP-54 snap-on cover clip
- Non-handed
- Standard

**4040XP-72MC**
- Metal Cover
- Handed
- Required for plated finishes and custom powder coat finishes
- Optional

### Installation Accessories

**4040XP-18**
- Plate
  - Required for hinge side mount where top rail is less than 3-3/4” (95 mm)
  - Requires minimum 2” (51 mm) minimum top rail

**4040XP-18G**
- Plate
  - Locates top jamb mounted closer flush with top of head frame face in flush ceiling condition
  - Requires 1-3/4” (44 mm) minimum head frame

**4040XP-18TJ**
- Plate
  - Centers top jamb mounted closer vertically on head frame where face is less than 3-1/2” (89 mm).
  - Plate requires 1-3/4” (44 mm) minimum head frame

**4040XP-18PA**
- Plate
  - Required for parallel arm mounting where top rail is less than 5-1/2” (140 mm), measured from the stop
  - Requires 2” (51 mm) minimum top rail

**4040XP-62PA**
- PA Shoe
  - Required for parallel arm mounting
Arms

**4040XP-3077**
Regular Arm
- Non-handed
- Mounts pull side or top jamb with shallow reveal. P4041 closer includes PA SHOE. 4040XP-62PA required for parallel arm mounting.

**4040XP-3049**
Hold-Open Arm
- Non-handed
- Mounts pull side or top jamb with shallow reveal, hold-open adjustable shoe. 4040XP closer includes 4040XP-62PA shoe required for parallel arm mounting.

**4040XP-3077L**
Long Arm
- Non-handed
- Includes LONG ROD AND SHOE. 4040XP-79LR for top jamb mount.

**4040XP-3077ELR**
Extra Long Arm
- Non-handed
- Includes EXTRA LONG ROD AND SHOE. 4040XP-79ELR for top jamb mount with deep reveal.

**4040XP-3049L**
Long Hold-Open Arm
- Non-handed
- Includes LONG HEAD AND TUBE. 4040XP-3048L for top jamb mount.

**4040XP-3077EDA/62G**
Extra Duty Arm with 62G
- Non-handed
- Features forged, solid steel main and forearm for potentially abusive installations.
- 62G shoe provides additional blade stop clearance.

**4040XP-3049EDA/62G**
Extra Duty Arm with 62G
- Non-handed
- Features forged, solid steel main and forearm for potentially abusive installations.
- 62G shoe provides additional blade stop clearance. Hold-open function is adjusted at the shoe.

**4040XP-3049EDA**
Extra Duty Arm
- Non-handed
- Features forged, solid steel main and forearm for potentially abusive installations.
- Hold-open function is adjusted at the shoe.

**4040XP-3077EDA**
Extra Duty Arm
- Non-handed
- Features forged, solid steel main and forearm for potentially abusive installations.

**4040XP-3077SCNS**
Spring CUSH Arm
- Non-handed
- For abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe.

**4040XP-3049SCNS**
Spring CUSH Arm
- Non-handed
- For abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe.
- Handle controls hold-open function.

**4040XP-3049CNS**
HCUSH Arm
- Non-handed
- Hold-open function with templated stop/hold-open points.
- Handle controls hold-open function.

### Installation Accessories cont.

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>4040XP-30</strong></td>
<td>CUSH Shoe Support</td>
</tr>
<tr>
<td></td>
<td>Provides anchorage for fifth screw used with CUSH arms, where reveal is less than 3-1/16&quot; (78 mm)</td>
</tr>
<tr>
<td></td>
<td>Optional</td>
</tr>
<tr>
<td><strong>4040XP-61</strong></td>
<td>Blade Stop Spacer</td>
</tr>
<tr>
<td></td>
<td>Required to lower parallel arm shoe to clear 1/2&quot; (13 mm) blade stop</td>
</tr>
<tr>
<td></td>
<td>Optional</td>
</tr>
<tr>
<td><strong>4040XP-419</strong></td>
<td>PA Flush Panel Adapter</td>
</tr>
<tr>
<td></td>
<td>Provides horizontal mounting surface for parallel arm shoe on single rabbeded or flush frame</td>
</tr>
<tr>
<td></td>
<td>Optional</td>
</tr>
<tr>
<td><strong>4040XP-62A</strong></td>
<td>Auxiliary Shoe</td>
</tr>
<tr>
<td></td>
<td>Requires a top rail of 7&quot; (178 mm)</td>
</tr>
<tr>
<td></td>
<td>Shoe replaces -62PA for parallel arm mounting of regular arm with overhead holder/stop</td>
</tr>
<tr>
<td></td>
<td>Optional</td>
</tr>
<tr>
<td><strong>4040XP-54</strong></td>
<td>Snap-On Cover Clip</td>
</tr>
<tr>
<td></td>
<td>Used to secure 4040XP-72 Plastic Cover to cylinder body</td>
</tr>
</tbody>
</table>
How-to-order 4040XP Series closers

1. Select finish
   - Standard Powder Coat __________
     Aluminum, Dark Bronze, Statuary,
     Light Bronze, Black, Brass.

Closer options

Cylinder
   - Delayed Action (4041 DEL)

Cover
   - Metal (specify right or left hand) (MC)

Finish
   - Custom Powder Coat (RAL) __________
     (handed metal cover required)
   - Plated Finish, US __________
     (handed metal cover required)
   - SRI primer (use with powder coat finishes only)

Arm
   - Regular (REG)
   - Regular w/62PA (Rw/PA)
   - Regular w/62A (R/62A)
   - Long (LONG)
   - Extra Long (XLONG)
   - Hold-Open (H)
   - Hold-Open w/62PA (Hw/PA)
   - Long Hold-Open (LONGLONG)
   - Extra Duty Arm (EDA)
   - Extra Duty Arm with 62G (EDA/62G)
   - Hold Open Extra Duty Arm (HEDA)
     (Handed)
   - Hold Open Extra Duty Arm with 62G
     (HEDA/62G)(Handed)
   - Cush-N-Stop (CUSH)
   - HCush-N-Stop (HCUSH)
   - Spring Cush (SCUSH)
   - Spring HCush (SHCUSH)

Optional Screw Packs
   - TB* w/Self-Reaming and Tapping (TBSRT)
   - Wood & Machine Screw (WMS)
   - TB* Wood & Machine Screw (TBWMS)
   - TORX Machine Screw (TORX)
   - TB* & TORX Machine Screw (TBTRX)
     * Specify door thickness if other than
     1-3/4”.

Installation Accessories
   - Plate, 4040XP-1B
   - Plate, 4040XP-1BT J
   - Plate, 4040XP-1BG
   - Plate, 4040XP-1BPA
   - CUSH Shoe Support, 4040XP-30
   - Blade Stop Spacer, 4040XP-61
   - Auxiliary Shoe, 4040XP-62A
   - PA Flush Panel Adapter, 4040XP-419

Special Template
   - ST- _________

Table of sizes

- 4040XP cylinders are adjustable from size 1 through size 6 and is shipped set to size 3
- Closing power of 4040XP Series closers may be adjusted 50%

<table>
<thead>
<tr>
<th>Exterior (and vestibule) door width</th>
<th>Interior door width</th>
</tr>
</thead>
<tbody>
<tr>
<td>24” 610mm</td>
<td>24” 610mm</td>
</tr>
<tr>
<td>30” 762mm</td>
<td>30” 762mm</td>
</tr>
<tr>
<td>36” 914mm</td>
<td>36” 914mm</td>
</tr>
<tr>
<td>42” 1067mm</td>
<td>42” 1067mm</td>
</tr>
<tr>
<td>48” 1219mm</td>
<td>48” 1219mm</td>
</tr>
<tr>
<td>*4040XP size 3</td>
<td>*4040XP size 2</td>
</tr>
<tr>
<td>size 4</td>
<td>size 3</td>
</tr>
<tr>
<td>size 5</td>
<td>size 4</td>
</tr>
<tr>
<td>size 6</td>
<td>size 5</td>
</tr>
<tr>
<td>Minimum door width</td>
<td>Minimum door width</td>
</tr>
</tbody>
</table>

Indicates recommended range of door width for closer size. * Adjustable Size 1 thru 6.

Reduced opening force 4040XP Series closers

CAUTION ! Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to POWER OPERATORS section for information on systems that meet reduced opening force requirements without effecting closing power.

<table>
<thead>
<tr>
<th>DOOR WIDTH</th>
<th>36”</th>
<th>42”</th>
<th>48”</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.5 lbs.</td>
<td>4040XP</td>
<td>4040XP</td>
<td>4040XP</td>
</tr>
<tr>
<td>5.0 lbs.</td>
<td>4040XP</td>
<td>4040XP</td>
<td>4040XP</td>
</tr>
</tbody>
</table>

* Maximum opening force.
The 4040XPT is LCN’s most flexible heavy duty track closer designed specifically for interior doors in institutional and other rugged high traffic applications.

**Certifications**
- Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act

**Body Construction**
- Cast Iron Body
- Full Complement Bearings
- 1-1/2” Diameter Piston
- 3/4” Diameter Double Heat Treated Pinion Journal

**Fluid**
- All Weather Liquid X Fluid

**Handing**
- Non-Handed

**Size**
- Adjustable Spring Size 1-4

**Warranty**
- 30 years

**Cover**
- Plastic, Standard
- Metal, Optional

**Fasteners**
- Self Reaming and Tapping Screws (SRT)

**Mounting**
- Pull side on door, pull side top jamb, push side on door

**Arms**
- Standard Arm and Track with Roller

**Finishes/Colors/Powder Coat**
- Aluminum (689)
- Statuary Bronze (690)
- Light Bronze (691)
- Black (693)
- Dark Bronze (695)
- Brass (696)
- Custom colors optional
- Optional SRI primer - powder coat only
- Optional plated finishes

**Features**
- Special Templates
- Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

**Special Templates**

- Closer available with less than 5.0 lbs. opening force on 36” door.
- Maximum opening/hold-open point with standard template.

---

LCN Door Control Catalog
**4040XPT Series**

**Mounting details**

**Hinge (Pull Side) Mounting**

<table>
<thead>
<tr>
<th>Width</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-3/16&quot;</td>
<td>27 mm</td>
</tr>
<tr>
<td>3-1/2&quot;</td>
<td>94 mm</td>
</tr>
<tr>
<td>2-1/4&quot;</td>
<td>57 mm</td>
</tr>
<tr>
<td>7/16&quot;</td>
<td>11 mm</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>32 mm</td>
</tr>
</tbody>
</table>

**Butt Hinges**

Should not exceed 5" (127 mm) in width

** Auxiliary Stop**

- Recommended at hold-open point or where a door cannot swing 120°
- Optional track bumper assembly assists backcheck in cushioning the opening swing of the door
- It is not intended to replace an auxiliary stop

**Reveal**

Should not exceed 1/8" (3 mm) for standard arm

**Top Rail**

Less than 3-3/4” (95 mm) requires PLATE, 4040XPT-18. Plate requires 1-13/16” (44 mm) minimum

**Head Frame**

Requires 1-1/4” (32 mm) minimum

**Clearance**

2-1/4” (57 mm) behind door required for 90° installation

**Maximum Opening**

- Templating allows 120° with standard arm, limited to 110° when optional bumper is installed
- Hold-open points at 85°, 90°, 95°, 100°, 105°, or 110°, depending on the clip location in track

**Notes:**
- Many track style door closers are capable of allowing 180° of door swing
- The majority of track style closers are at their weakest closing force in the 180° – 130° range
- Consult factory for applications where door must swing 180°
### Butt Hinges
- Should not exceed 5” (127 mm) in width

### Auxiliary Stop
- Recommended at hold-open point or where a door cannot swing 180°
- Optional track bumper assembly assists backcheck in cushioning the opening swing of the door
- It is not intended to replace an auxiliary stop

### Reveal
- Should not exceed 1/8” (3 mm)

### Head Frame
- Less than 3-7/8” (98 mm), requires PLATE, 4040XPT-18TJ. Plate requires 1-3/4” (44 mm) minimum clearance.

### Maximum Opening
- Templating allows 180° with standard track arm, limited to 110° with optional bumper installed
- Consult factory if door will be held open at 180°
- Hold-open points at 85°, 90°, 95°, 100°, 105° or 110° with hold-open tracks

### Notes:
- Many track style door closers are capable of allowing 180° of door swing.
- The majority of track style closers are at their weakest closing force in the 180° – 130° range
- Consult factory for applications where an exterior or large/heavy door must swing 180°
Butt Hinges Should not exceed 5\" (127 mm) in width

Auxiliary Stop
- Recommended at hold-open point or where a door cannot swing 120°
- Optional track bumper assembly assists backcheck in cushioning the opening swing of the door
- It is not intended to replace an auxiliary stop

Clearance Projects 2-1/4\" (57 mm) from face of door

Top Rail
- Less than 5-1/4\" (133 mm) measured from the stop, requires PLATE, 4040XPT-18
- Plate requires 3-1/2\" (89 mm) minimum

Stop Width Minimum 1-1/4\" (32 mm)

Maximum Opening
- Templating allows 120° with standard track arm, limited to 110° with optional bumper tracks
- Hold-open points at 85°, 90°, 95°, 100°, 105° or 110° with hold-open tracks

Notes:
- Many track style door closers are capable of allowing 180° of door swing
- The majority of track style closers are at their weakest closing force in the 180° – 130° range
- Consult factory for applications where door must swing 180°
### Cylinder

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>4040XPT-3071</td>
<td>Cast Iron Cylinder Assembly</td>
<td>Non-handed, Standard</td>
</tr>
<tr>
<td>4040XPT-3077T</td>
<td>Standard Arm</td>
<td>Non-handed, Arm does not include track roller</td>
</tr>
</tbody>
</table>

### Covers

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>4040XPT-72</td>
<td>Plastic Cover</td>
<td>Non-handed, Snap-on, Standard</td>
</tr>
<tr>
<td>4040XPT-72MC</td>
<td>Metal Cover</td>
<td>Handed, Required for plated finishes and custom powder coat finishes, Optional</td>
</tr>
</tbody>
</table>

### Arms

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>4040XPT-3077</td>
<td>Standard Arm</td>
<td>Non-handed</td>
</tr>
<tr>
<td>4040XPT-3077DE</td>
<td>Double Egress Arm</td>
<td>Handed, For double egress doors and frames, Does not include track roller, Maximum reveal is 2-11/16” (68mm), Optional</td>
</tr>
</tbody>
</table>

### Tracks

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>4040XPT-3038</td>
<td>Standard Track</td>
<td>Non-handed, Non hold-open, Will accept hold-open clip and/or bumper assembly, Standard</td>
</tr>
<tr>
<td>4040XPT-3038B</td>
<td>Standard Track with Bumper</td>
<td>Non-handed, Non hold-open, Will accept hold-open clip, Optional</td>
</tr>
<tr>
<td>4040XPT-3038H</td>
<td>Hold-Open Track</td>
<td>Non-handed, With hold-open clip installed, Will accept bumper assembly, Optional</td>
</tr>
<tr>
<td>4040XPT-3038HB</td>
<td>Hold-Open Track with Bumper</td>
<td>Non-handed, With hold-open clip and bumper assembly installed, Optional</td>
</tr>
</tbody>
</table>
Installation Accessories

4040XPT-18 Plate
- Required for pull side (door mount) installations where top rail is less than 3-3/4” (95 mm)
- Requires minimum 1-3/4” (44 mm) top rail
- Required for push side (door mount) installations where top rail is less than 5-1/4” (133 mm) measured from the stop
- Requires minimum 3-1/2” (89 mm) top rail

4040XPT-18TJ Plate
- Required for pull side top jamb installations where head frame is less than 3-7/8” (98 mm)
- Requires minimum 1-3/4” (44 mm) head frame

4040XPT-169 Track Bumper
- Mounts in track to assist backcheck, does not replace auxiliary stop
- Limits maximum opening.
- Consists of bumper, bumper post, and mounting screw

4040XPT-3054 Hold-Open Clip
- Mounts in track to provide hold-open function
- Hold-open point controlled by clip location
- Consists of clip and mounting screws
- Requires 4040XPT-3034H Hold-Open Track Roller

4040XPT-18 Track Roller
- Quiet, low friction roller assembly
- Shoulder dimension “X” = 1/8” (3mm)

4040XPT-3034H Hold-Open Track Roller
- Quiet, low friction roller assembly
- Shoulder dimension “X” = 1/8” (3mm)
How-to-order 4040XPT Series closers

1. Select finish
   - Standard Powder Coat
     Aluminum, Dark Bronze, Statuary, Light Bronze, Black, Brass.

Closer will be shipped with:
- Standard cylinder
- Standard cover
- Standard arm
- Track roller
- Standard track
- Self-reaming and tapping screws unless options listed below are selected.

Specific Screw Pack
- TB* w/Self-Reaming and Tapping Screws (TBSRT)
- Wood & Machine Screw (WMS)
- TB*, Wood & Machine Screw (TBWMS)
- TORX Machine Screw (TORX)
- TB* & TORX Machine Screw (TBTORX)
* Specify door thickness if other than 1-3/4”.

Installation Accessories
- Plate, 4040XPT-18
- Plate, 4040XPT-18TJ

Cover
- Metal (specify right or left hand) (MC)

Finish
- Custom Powder Coat (RAL) (handed metal cover required)
- Plated Finish, US (handed metal cover required)
- SRI primer (use with powder coat finishes only)

Track
- Regular with Bumper (BUMPER)
- Hold-Open (HO)
- Hold-Open with Bumper (HBUMPER)

Table of sizes
- Non-Sized 4040XPT cylinder is adjustable from sizes 1 thru 4 and is shipped set to size 3

<table>
<thead>
<tr>
<th>Interior door width</th>
<th>26” 660mm</th>
<th>34” 864mm</th>
<th>38” 965mm</th>
<th>48” 1219mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>4040XPT</td>
<td>size 2</td>
<td>size 3</td>
<td>size 4</td>
<td></td>
</tr>
</tbody>
</table>

Minimum door width

Indicates recommended range of door width for closer size.

Reduced opening force 4040XPT Series closers

CAUTION! Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to POWER OPERATORS section for information on systems that meet reduced opening force requirements without effecting closing power.

<table>
<thead>
<tr>
<th>DOOR WIDTH</th>
<th>36”</th>
<th>42”</th>
<th>48”</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.5* lbs.</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>5.0* lbs.</td>
<td>4040XPT</td>
<td>4040XPT</td>
<td>4040XPT</td>
</tr>
</tbody>
</table>

* Maximum opening force.
The 4050 Series cast aluminum closer is engineered for durability and built tough to excel in the harsh environments of high frequency, high abusive traffic areas. Ideal for commercial building applications and competitive specification situations that demand a combination of quality, reliability and value. The cast aluminum door closer offers premium features like powder coating, full complement bearing, All Weather Fluid and a 25 year warranty.

<table>
<thead>
<tr>
<th>Certifications</th>
<th>Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act</th>
</tr>
</thead>
</table>
| Body Construction | Cast Aluminum Body  
 Full Complement Bearings  
 1-1/2˝ Diameter Piston  
 11/16˝ Diameter Double Heat Treated Pinion Journal |
| Fluid | All Weather Liquid X Fluid |
| Handing | Non-Handed |
| Templating | Peel-n-Stick templates - 2-3/8” x 6-3/4” Mounting Hole Pattern |
| Size | Adjustable spring size 1-6 |
| Warranty | 25 years |

| Cover | Plastic, Standard  
 Metal, Optional |
| Fasteners | Self Reaming and Tapping Screws (SRT) |
| Mounting | Hinge (Pull Side), Top Jamb (Push Side), Parallel Arm (Push Side) |
| Arms | Standard Regular Arm |
| Finishes/Colors/ Powder Coat | Aluminum (689)  
 Statuary Bronze (690)  
 Light Bronze (691)  
 Black (693)  
 Dark Bronze (695)  
 Brass (696)  
 Custom colors optional  
 Optional SRI primer - powder coat only  
 Optional plated finishes |

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

- Closer available with less than 5.0 lbs. opening force on 36” door.
- Maximum opening/hold-open point with standard template.
### 4050 Series

#### Mounting details

**Hinge (Pull Side) Mounting**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butt Hinges</td>
<td>Should not exceed 5&quot; (127 mm) in width</td>
</tr>
<tr>
<td>Auxiliary Stop</td>
<td>Recommended at hold-open point or where a door cannot swing beyond templated maximum opening</td>
</tr>
<tr>
<td>Reveal</td>
<td>Should not exceed 3/4&quot; (19 mm) for regular arm or hold-open arm</td>
</tr>
</tbody>
</table>
| Top Rail      | - Less than 3-7/8" (98 mm) requires PLATE, 4050-18.  
                - Plate requires 1-13/16" (44 mm) minimum |
| Clearance     | 2-13/16" (72 mm) behind door required for 90° installation |
| Delayed Action| Delays closing from 180°-70°. Delay time adjustable up to approximately 1 minute |
| Maximum Opening|  
                - Templating allows up to 180°  
                - Hold-open points up to maximum opening with hold-open arm  
                - To 100°: A = 6-15/16" (176 mm)  
                              B = 12-5/8" (321 mm)  
                - 100° to 120°: A = 5-15/16" (151 mm)  
                                B = 11-5/8" (295 mm)  
                - 120° to 150°: A = 3-15/16" (100 mm)  
                                B = 9-5/8" (244 mm)  
                - 150° to 180°: A = 3-7/16" (87 mm)  
                                B = 9-1/8" (232 mm) |
The 'A' dimension refers to the edge of the closer body to the center line of pivot or hinge.
The 'B' dimension refers to the edge of the closer shoe bracket to the center line of pivot or hinge.

| Butt Hinges | Should not exceed 5˝ (127 mm) in width |
| Auxiliary Stop | Recommended at hold-open point or where a door cannot swing beyond templated maximum opening |
| Reveal | Arm Type | Reveal | Max Opening |
| Regular Arm | 4˝ | Up to 180° |
| Long | 9˝ | Up to 150° |
| Hold-Open | 4˝ | Up to 170° |
| Long Hold-Open Arm | 8-3/4˝ | Up to 155° |
| Top Rail | Requires 2˝ (51 mm) minimum. |
| Head Frame | Less than 3-7/8˝ (98 mm) requires plate. |
| Delayed Action | Delay closing from 180° to 70°. Delay time adjustable up to approximately 1 minute. |
| Maximum Opening | |
| | Templating allows up to 180° |
| | Hold-open points up to maximum opening with hold-open arm |
| To 100°: | A = 6-7/8˝ (175 mm) |
| | B = 12-11/16˝ (322 mm) |
| 100° to 120°: | A = 5-7/8˝ (149 mm) |
| | B = 11-1/16˝ (297 mm) |
| 120° to 150°: | A = 3-7/8˝ (98 mm) |
| | B = 9-11/16˝ (246 mm) |
| 150° to 180°: | A = 3-3/8˝ (86 mm) |
| | B = 9-3/16˝ (233 mm) |
### Parallel Arm (Push) Side Mounting

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Butt Hinges</strong></td>
<td>Should not exceed 5&quot; (127 mm) in width</td>
</tr>
<tr>
<td><strong>Auxiliary Stop</strong></td>
<td>Recommended at hold-open point, where the door cannot swing beyond templated maximum opening, or where CUSH-N-STOP arm is not used</td>
</tr>
<tr>
<td><strong>Top Rail</strong></td>
<td>Less than 5-3/4&quot; (146 mm) measured from the stop requires PLATE, 4050-18PA. Plate requires 2-1/4&quot; (57 mm) minimum from the stop</td>
</tr>
<tr>
<td><strong>Clearance</strong></td>
<td>For 4050-62PA shoe is 4-1/8&quot; (105 mm) from door face</td>
</tr>
<tr>
<td><strong>Head Frame</strong></td>
<td>Flush or rabbed requires PA SHOE ADAPTER, 4050-419</td>
</tr>
<tr>
<td><strong>Stop Width</strong></td>
<td>Minimum 1-3/16&quot; (30 mm)</td>
</tr>
<tr>
<td><strong>Blade Stop</strong></td>
<td>Clearance requires 1/2&quot; (13 mm) BLADE STOP SPACER, 4050-61</td>
</tr>
<tr>
<td><strong>Delayed Action</strong></td>
<td>Delays closing from 180°-70°. Delay time adjustable up to approximately 1 minute</td>
</tr>
<tr>
<td><strong>Auxiliary Shoe</strong></td>
<td>4050-62A allows installation of regular arm with overhead holder/stop</td>
</tr>
<tr>
<td><strong>Maximum Opening</strong></td>
<td></td>
</tr>
<tr>
<td>To 100°</td>
<td>A = 8-1/16&quot; (205 mm) B = 8-5/8&quot; (219 mm)</td>
</tr>
<tr>
<td>100° to 130°</td>
<td>A = 6-9/16&quot; (167 mm) B = 7-1/8&quot; (181 mm)</td>
</tr>
<tr>
<td>130° to 150°</td>
<td>A = 5-9/16&quot; (141 mm) B = 6-1/8&quot; (156 mm)</td>
</tr>
<tr>
<td>150° to 180°</td>
<td>A = 4-9/16&quot; (116 mm) B = 5-1/8&quot; (130 mm)</td>
</tr>
</tbody>
</table>

**Note:**
- Optional mounting requires PA SHOE, 4050-62PA for regular or HOLD-OPEN arms

---

The ‘A’ dimension refers to the edge of the closer body to the center line of pivot or hinge. The ‘B’ dimension refers to the edge of the closer shoe bracket to the center line of pivot or hinge.
**Clearance**

4050-62EDA is 5-11/16” (145mm) from door face. 5-11/16” (145mm) for CUSH

**Head Frame**
Flush or rabatted requires FLUSH PANEL ADAPTER, 4050-419

**CUSH ARM**
Requires CUSH SHOE SUPPORT, 4050-30 for fifth screw anchorage for narrow frames

**Delayed Action**
Delays closing from 180° to approximately 70°. Delay time adjustable up to approximately 1 minute.

**Maximum Opening**

EDA arm can be templated for points at: 100°

<table>
<thead>
<tr>
<th>Angle</th>
<th>A Dimension</th>
<th>B Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>100°</td>
<td>8-1/16” (205 mm)</td>
<td>8-5/8” (219 mm)</td>
</tr>
<tr>
<td>100° to 130°</td>
<td>6-9/16” (167 mm)</td>
<td>7-1/8” (181 mm)</td>
</tr>
<tr>
<td>130° to 150°</td>
<td>5-9/16” (141 mm)</td>
<td>5-1/8” (156 mm)</td>
</tr>
<tr>
<td>150° to 180°</td>
<td>4-9/16” (116 mm)</td>
<td>5-1/8” (130 mm)</td>
</tr>
</tbody>
</table>

CUSH arms can be templated for opening/hold-open point at:

<table>
<thead>
<tr>
<th>Angle</th>
<th>A Dimension</th>
<th>B Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>85°</td>
<td>9-13/16” (250 mm)</td>
<td>10-1/2” (267 mm)</td>
</tr>
<tr>
<td>90°</td>
<td>8-15/16” (227 mm)</td>
<td>9-5/8” (244 mm)</td>
</tr>
<tr>
<td>95°</td>
<td>8-5/16” (212 mm)</td>
<td>9” (229 mm)</td>
</tr>
<tr>
<td>100°</td>
<td>7-11/16” (196 mm)</td>
<td>8-3/8” (213 mm)</td>
</tr>
<tr>
<td>105°</td>
<td>7-1/4” (184 mm)</td>
<td></td>
</tr>
</tbody>
</table>

Hold-open points up to maximum opening with HEDA arm

<table>
<thead>
<tr>
<th>Angle</th>
<th>A Dimension</th>
<th>B Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>110°</td>
<td>6-9/16” (167 mm)</td>
<td>7-1/4” (184 mm)</td>
</tr>
</tbody>
</table>

Notes:
- Spring Cush dead stop points are approximately 5° more than templated stop point
- Hold open at templated stop points
- 4050 Series closers ordered with EDA or CUSH arms include 4050-201 FIFTH HOLE SPACER to support the shoe

---

The 'A' dimension refers to the edge of the closer body to the center line of pivot or hinge.
The 'B' dimension refers to the edge of the closer shoe bracket to the center line of pivot or hinge.
4050 Series

Cylinders

4050-3071 Cast Aluminum Cylinder Assembly
- Non-handed
- Heavy duty

4050-3071 DEL Cast Aluminum Cylinder Assembly
- Cylinder used for delayed action closing
- Non-handed
- Heavy duty

Covers

4050-72 Plastic Cover
- Non-handed
- Standard

4050-72MC Metal Cover
- Non-handed
- Required for plated finishes and custom powder coat finishes
- Optional

Installation Accessories

4050-18 Plate
- Required for hinge side mount where top rail is less than 3-7/8” (98 mm)
- Requires minimum 1-3/4” (44 mm) top rail

4050-18G Plate
- Locates top jamb mounted closer flush with top of head frame face in flush ceiling condition
- Contact LCN Product Support for minimum head frame requirement.

4050-18PA Plate
- Required for parallel arm mounting where top rail is less than 5-3/4” (146 mm), measured from the stop
- Requires 2-1/4” (57 mm) minimum top rail

4050-61 Blade Stop Spacer
- Required to lower parallel arm shoe to clear 1/2” (13 mm) blade stop

4050-419 Flush Panel Adapter
- Provides horizontal mounting surface for parallel arm shoe on single rabbeded or flush frame

4050-62A Auxiliary Shoe
- Requires a top rail of 7-13/16” (198 mm)
- Replaces -62PA for parallel arm mounting of regular arm with overhead holder/stop
- Optional

4050-62PA PA Shoe
- Required for parallel arm mounting
### Arms

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Features</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4050-3077</td>
<td>Regular Arm</td>
<td>- Non-handed</td>
<td>Mounts pull side or top jamb with shallow reveal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Includes PA SHOE, 4050-62PA required for parallel arm mounting</td>
<td></td>
</tr>
<tr>
<td>4050-3077L</td>
<td>Long Arm</td>
<td>- Non-handed</td>
<td>Includes LONG ROD AND SHOE, 4050-79LR for top jamb mount</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Optional</td>
<td></td>
</tr>
<tr>
<td>4050-3049</td>
<td>Hold-Open Arm</td>
<td>- Non-handed</td>
<td>Mounts pull side or top jamb with shallow reveal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Hold-open adjustable shoe</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Includes 4050-62PA shoe required for parallel arm mounting</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Optional</td>
<td></td>
</tr>
<tr>
<td>4050-3077L</td>
<td>Long Hold-Open Arm</td>
<td>- Non-handed</td>
<td>Hold-open adjustable shoe</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Includes LONG HEAD AND TUBE, 4050-3048L for top jamb mount</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Optional</td>
<td></td>
</tr>
<tr>
<td>4050-3049</td>
<td>Hold-Open Extra Duty Arm</td>
<td>- Handed</td>
<td>Features forged, solid steel main and forearm for potentially abusive installations</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Hold-open function is adjusted at the shoe</td>
<td></td>
</tr>
<tr>
<td>4050-3049L</td>
<td>Long Hold-Open Arm</td>
<td>- Non-handed</td>
<td>Hold-open adjustable shoe</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Includes 4050-3048L for top jamb mount</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Optional</td>
<td></td>
</tr>
<tr>
<td>4050-3077EDA/62G</td>
<td>Extra Duty Arm With 62G</td>
<td>- Non-handed</td>
<td>Features forged, solid steel main and forearm for potentially abusive installations</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- 62G shoe provides additional blade stop clearance for use with additional door hardware such as an overhead holder</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Hold-open function is adjusted at the shoe</td>
<td></td>
</tr>
<tr>
<td>4050-3049EDA/62G</td>
<td>Hold-Open Extra Duty Arm With 62G</td>
<td>- Handed</td>
<td>Features forged, solid steel main and forearm for potentially abusive installations</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- 62G shoe provides additional blade stop clearance for use with additional door hardware such as an overhead holder</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Hold-open function is adjusted at the shoe</td>
<td></td>
</tr>
<tr>
<td>4050-3077CNS</td>
<td>Cush-N-Stop® Arm</td>
<td>- Non-handed</td>
<td>Features solid forged steel main and forearm with stop in soffit shoe</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Hold-open function is adjusted at the shoe</td>
<td></td>
</tr>
<tr>
<td>4050-3049CNS</td>
<td>HCUSH Arm</td>
<td>- Provides hold-open function with templated stop/hold-open points</td>
<td>Handle controls hold-open function</td>
</tr>
</tbody>
</table>
**Arms cont.**

4050-3077SCNS  
Spring CUSH Arm  
- Non-handed  
- For abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe  
- Optional

4050-3049SCNS  
Spring HCUSH Arm  
- Non-handed  
- For abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe  
- Handle controls hold-open function  
- Optional
How-to-order 4050 Series closers

1. Select finish
   - Standard Powder Coat ___________
     Aluminum, Dark Bronze, Statuary, Light Bronze, Black, Brass.

Closer will be shipped with:
- Standard cylinder
- Standard cover
- Tri pack arm (Rw/PA)
- Self-reaming and tapping screws unless options listed below are selected.

Cylinder
- Delayed Action (4050 DEL)

Cover
- Metal (specify right or left hand) (MC)

Finish
- Custom Powder Coat (RAL) ___________
  (handed metal cover required)
- Plated Finish, US ___________
  (handed metal cover required)
- SRI primer (use with powder coat finishes only)

Arm
- Regular (REG)
- Long (LONG)
- Hold-Open (H)
- Hold-Open w/62PA (Hw/PA)
- Long Hold-Open (HLONG)
- Extra Duty Arm (EDA)
- Extra Duty Arm with 62G (EDA/62G)
- Hold Open Extra Duty Arm (HEDA) (Handed)
- Hold Open Extra Duty Arm with 62 (HEDA/62G) (Handed)
- Cush-N-Stop (CUSH)
- HCush-N-Stop (HCUSH)
- Spring Cush (SCUSH)
- Spring HCush (SHCUSH)

Optional Screw Packs
- TB* w/Self-Reaming and Tapping (TBSRT)
- Wood & Machine Screw (WMS)
- TB*, Wood & Machine Screw (TBWMS)
- TORX Machine Screw (TORX)
- TB* & TORX Machine Screw (TBTRX)
  * Specify door thickness if other than 1-3/4”.

Installation Accessories
- Plate, 4050-18
- Plate, 4050-18G
- Plate, 4050-18PA
- CUSH Shoe Support, 4050-30
- Blade Stop Spacer, 4050-61
- Auxiliary Shoe, 3050-62A
- Flush Panel Adapter, 4050-419

Special Template
- ST- _________

Table of sizes
- 4050 cylinders are adjustable from size 1 through size 6 and is shipped set to size 3
- Closing power of 4050 Series closers may be adjusted 50%

Exterior (and vestibule) door width

<table>
<thead>
<tr>
<th>24˝ 610mm</th>
<th>30˝ 762mm</th>
<th>36˝ 914mm</th>
<th>42˝ 1067mm</th>
<th>48˝ 1219mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>size 3</td>
<td>size 4</td>
<td>size 5</td>
<td>size 6</td>
<td></td>
</tr>
</tbody>
</table>

*4050 Minimum door width

Indicates recommended range of door width for closer size.

Interior door width

<table>
<thead>
<tr>
<th>24˝ 610mm</th>
<th>34˝ 864mm</th>
<th>38˝ 965mm</th>
<th>48˝ 1219mm</th>
<th>54˝ 1372mm</th>
<th>60˝ 1524mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>size 2</td>
<td>size 3</td>
<td>size 4</td>
<td>size 5</td>
<td>size 6</td>
<td></td>
</tr>
</tbody>
</table>

*4050 Minimum door width

Reduced opening force 4050 Series closers

CAUTION ! Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to POWER OPERATORS section for information on systems that meet reduced opening force requirements without effecting closing power.

<table>
<thead>
<tr>
<th>DOOR WIDTH</th>
<th>36˝</th>
<th>42˝</th>
<th>48˝</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.5 lbs.</td>
<td>4050</td>
<td>4050</td>
<td>4050</td>
</tr>
<tr>
<td>5.0 lbs.</td>
<td>4050</td>
<td>4050</td>
<td>4050</td>
</tr>
</tbody>
</table>

* Maximum opening force.
The 4110 is LCN’s best performing heavy duty closer designed specifically for institutional and other rugged high traffic applications.

### Certifications
- Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act

### Body Construction
- Cast Iron Body
- Full Complement Bearing
- 1-1/2” Diameter Piston
- 11/16” Diameter Double Heat Treated Pinion Journal

### Fluid
- All Weather Fluid

### Handing
- Handed

### Templating
- Peel-n-Stick templates - 2-1/2” x 6” Mounting Hole Pattern

### Size
- Adjustable Spring Size 1-5, or Sized 6, Includes Patented Green Dial

### Warranty
- 30 years

### Cover
- Plastic, Standard
- Metal, Optional

### Fasteners
- Self Reaming and Tapping Screws (SRT)

### Mounting
- Parallel Arm (Push Side)

### Arms
- Extra-Duty arm

### Finishes/Colors/Powder Coat
- Aluminum (689)
- Statuary Bronze (690)
- Light Bronze (691)
- Black (693)
- Dark Bronze (695)
- Brass (696)
- Custom colors optional
  - Optional SRI primer - powder coat only
  - Optional plated finishes

### Special Templates
Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

<table>
<thead>
<tr>
<th>MOUNTING</th>
<th>FINISH</th>
<th>COVER</th>
<th>CYLINDER</th>
<th>*ARM FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>IME/PULLSE</td>
<td>TOP JAMB (PULL)</td>
<td>PARALLEL ARM</td>
<td>STAND</td>
<td>REGULAR/DOUBLE</td>
</tr>
<tr>
<td>PARALLEL ARM</td>
<td>TOP JAMB (PUSH)</td>
<td>STOP FACE</td>
<td>METAL</td>
<td>STANDARD/SINGLE</td>
</tr>
<tr>
<td>STOP FACE</td>
<td>POPOVER/DOOR</td>
<td>PLATED</td>
<td>PLASTIC</td>
<td>ACCESSIBILITY</td>
</tr>
<tr>
<td>PLATED</td>
<td>NON-HAND</td>
<td>ASSISTED ACTION</td>
<td>AVB</td>
<td>DELAYED ACTION</td>
</tr>
<tr>
<td>METAL</td>
<td>ACCESSIBILITY</td>
<td>AVB</td>
<td>AVB</td>
<td>ACCESSIBILITY</td>
</tr>
<tr>
<td>PLASTIC</td>
<td>AVB</td>
<td>AVB</td>
<td>AVB</td>
<td>DELAYED ACTION</td>
</tr>
<tr>
<td>NON-HAND</td>
<td>ACCESSIBILITY</td>
<td>AVB</td>
<td>AVB</td>
<td>AVB</td>
</tr>
<tr>
<td>AVB</td>
<td>AVB</td>
<td>AVB</td>
<td>AVB</td>
<td>AVB</td>
</tr>
</tbody>
</table>

- Closer available with less than 5.0 lbs. opening force on 36” door.
- Maximum opening/hold-open point with standard template.
**4110 Series**

**Parallel Arm (Push Side) Mounting**

**Butt Hinges**
Should not exceed 5” (127 mm) in width

**Auxiliary Stop**
Recommended at hold-open point, where a door cannot swing 180°, or where CUSH-N-STOP arm is not used

**Clearance**
EDA, or CUSH shoe is 5-1/2” (140 mm) from door face

**Top Rail**
- Less than 5-1/8” (130 mm) measured from stop requires PLATE, 4110-18
- Plate requires 2” (51 mm) minimum measured from the stop

**Stop Width**
Minimum 1” (25 mm)

**Head Frame**
Flush or rabbetted requires CUSH FLUSH PANEL ADAPTER, 4110-419

**Reveal**
Less than 2-3/4” (70 mm), use CUSH SHOE SUPPORT, 4110-30 with CUSH arms

**Blade Stop Spacer**
4110-61 required to clear 1/2” (13 mm) blade stop

**Crush Arm**
Requires CUSH SHOE SUPPORT, 4110-30 for fifth screw anchorage with CUSH arms

**Delayed Action**
- Add suffix “DEL” to selected cylinder (eg. 4111 DEL)
- Not available with 4116 cylinder. Delays closing from maximum opening to approximately 70°
- Delay time adjustable up to approximately 1 minute

**Advanced Variable Backcheck**
- Cylinder starts backcheck at approximately 45° instead of the normal 75°
- Add suffix “AVB” to selected cylinder

**Maximum opening**
EDA or Fusible Link arm can be templated for

<table>
<thead>
<tr>
<th>Degree</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>100°</td>
<td>5-15/16” (151 mm)</td>
<td>7-1/4” (184 mm)</td>
</tr>
<tr>
<td>140°</td>
<td>4-7/16” (113 mm)</td>
<td>5-3/4” (146 mm)</td>
</tr>
<tr>
<td>or 180°</td>
<td>2-15/16” (75 mm)</td>
<td>2-15/16” (75 mm)</td>
</tr>
</tbody>
</table>

CUSH arm can be templated for maximum opening at

<table>
<thead>
<tr>
<th>Degree</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>85°</td>
<td>8-5/16” (211 mm)</td>
<td>9-5/8” (244 mm)</td>
</tr>
<tr>
<td>90°</td>
<td>7-11/16” (195 mm)</td>
<td>9” (229 mm)</td>
</tr>
<tr>
<td>110°</td>
<td>5-9/16” (141 mm)</td>
<td>6-7/16” (175 mm)</td>
</tr>
</tbody>
</table>

- Hold-open points up to maximum opening with HEDA or Fusible Link arm
- Hold-open point at maximum opening with HCUSH arm
- Spring Cush hold-open points are approximately 5’’ less than templated stop point

LCN Door Control Catalog
Cylinder

4111(6)-3071
Cast Iron Cylinder Assembly
- Handed
- Standard

Covers

4110-72
Plastic Cover
- Non-handed
- Standard

4110-72MC
Metal Cover
- Handed
- Required for plated finishes and custom powder coat finishes
- Optional

Arms

4110-3049EDA
Hold-Open Arm
- Handed
- Optional
- Provides hold-open function, adjustable at shoe

4110-3049FL
Fusible Link Arm
- Handed
- Releases hold-open function adjustable at shoe when exposed to temperatures above 165°F
- Optional

NOTE: Check local codes before specifying FL arms. NOT A life safety product!

4110-3077EDA
Extra Duty Arm
- Non-handed
- Features forged, solid steel main and forearm for potentially abusive installations

4110-3077EDA/ 62G
Extra Duty Arm
- Non-handed
- Features forged, solid steel main and forearm for potentially abusive installations
- Optional 4110-62G thick hub shoe for blade stop clearance

4110-3077CNS
Cush-N-Stop Arm
- Non-handed
- Features solid forged steel main arm and forearm with built-in stop in soffit shoe

4110-3077EDA
Extra Duty Arm
- Non-handed
- Features forged, solid steel main and forearm for potentially abusive installations

4110-3077EDA/ 62G
Extra Duty Arm
- Non-handed
- Features forged, solid steel main and forearm for potentially abusive installations
- Optional 4110-62G thick hub shoe for blade stop clearance
4110-3049CNS  
HCUSH Arm  
- Non-handed  
- Provides hold-open function with templated stop/hold-open points.  
- Handle controls hold-open function

4110-3077CNS  
Spring CUSH Arm  
- Non-handed  
- For abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe  
- Optional

4110-3049SCNS  
Spring HCUSH Arm  
- Non-handed  
- For abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe  
- Handle controls hold-open function  
- Optional

**Installation Accessories**

4110-18  
Plate  
- Required for push side mount where top rail is less than 5-1/8” (130 mm), measured from the stop  
- Requires minimum 2” (51 mm) minimum top rail

4110-30  
CUSH Shoe Support  
- Provides anchorage for fifth screw used with CUSH arm, where reveal is less than 3-1/16” (78 mm)

4110-61  
Blade Stop Spacer  
- Lowers parallel arm shoe to clear 1/2” (13 mm) blade stop

4110-419  
PA Flush Panel Adapter  
- Provides horizontal mounting surface for CUSH shoe on single rabbed or flush frame
How-to-order 4110 Series closers

1. Specify cylinder size
   - 4111 (adjustable from size 1 to 5)
   - 4116 (DEL, SHCUSH or HCUSH arm not available)

2. Specify hand
   - RH
   - LH

3. Select finish
   - Standard Powder Coat
     - Aluminum, Dark Bronze, Statuary, Light Bronze, Black, Brass

Closer will be shipped with:
- Standard cylinder
- Standard cover
- Extra duty arm
- Self-reaming and tapping screws unless options listed below are selected.

Closer options

Cylinder
- Delayed Action (DEL) (not available with 4116)
- Advanced Variable Backcheck (AVB)

Cover
- Metal (MC)

Finish
- Custom Powder Coat (RAL) (handed metal cover required)
- Plated Finish, US (handed metal cover required)
- SRI primer (use with powder coat finishes only)

Specify Arm
- Hold-Open Extra Duty (HEDA)
- Fusible Link,165° F (FL)
- Cush-N-Stop (CUSH)
- H-Cush-N-Stop (n/a with 4116 cylinder) (HCUSH)
- Spring Cush (SCUSH)
- Spring H-Cush (n/a with 4116 cylinder) (SHCUSH)
- Extra Duty (EDA)
- H-Extra Duty (HEDA)

Screw Packs
- TB*, Self-Reaming & Tapping (TBSRT)
- Wood & Machine Screw (WMS)
- TB* Wood & Machine Screw (TBWMS)
- TORX Machine Screw (TORX)
- TB* & TORX Machine Screw (TBTRX)
  * Specify door thickness if other than 1-3/4”.

Installation Accessories
- Plate, 4110-18
- CUSH Shoe Support, 4110-30
- Blade Stop Spacer, 4110-61
- PA Flush Panel Adapter, 4110-419

Special Template
- ST- ________

Table of sizes

- Select closer based on width of door.
- The spring power of non-sized 4111 cylinder is adjustable from size 1 through size 5 and is shipped set to size 3.
- Sized 4116 series cylinders 6.
- Delayed action not available with 4116 cylinder
- H - CUSH and SPRING H-CUSH arm not available with 4116 cylinder.

<table>
<thead>
<tr>
<th>Exterior (and vestibule) door width</th>
<th>Interior door width</th>
</tr>
</thead>
<tbody>
<tr>
<td>28” (711mm)</td>
<td>28” (711mm)</td>
</tr>
<tr>
<td>30” (762mm)</td>
<td>34” (864mm)</td>
</tr>
<tr>
<td>36” (914mm)</td>
<td>38” (965mm)</td>
</tr>
<tr>
<td>42” (1067mm)</td>
<td>48” (1219mm)</td>
</tr>
<tr>
<td>48” (1219mm)</td>
<td>54” (1372mm)</td>
</tr>
<tr>
<td>4111</td>
<td>4111</td>
</tr>
<tr>
<td>4116</td>
<td>4116</td>
</tr>
</tbody>
</table>

Minimum door width

Indicates recommended range of door width for closer size. * Adjustable Size 1 thru 5.

Reduced opening force 4110 Series closers

CAUTION ! Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to AUTOMATIC OPERATORS section for information on systems that meet reduced opening force requirements without effecting closing power.

<table>
<thead>
<tr>
<th>DOOR WIDTH</th>
<th>36”</th>
<th>42”</th>
<th>48”</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.5* lbs.</td>
<td>4111</td>
<td>4111</td>
<td>4111</td>
</tr>
<tr>
<td>5.0* lbs.</td>
<td>4111</td>
<td>4111</td>
<td>4111</td>
</tr>
</tbody>
</table>

* Maximum opening force.
The 4110T is LCN’s best performing heavy duty track closer designed specifically for interior doors in institutional and other high traffic applications.

**Certifications**
- Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act

**Body Construction**
- Cast Iron Body
- Full Complement Bearing
- 1-1/2” Diameter Piston
- 11/16” Diameter Double Heat Treated Pinion Journal

**Fluid**
- All Weather Fluid

**Handing**
- Handed

**Size**
- Adjustable Spring Size 1-5, or Sized 6. Includes Patented Green Dial

**Warranty**
- 30 years

**Cover**
- Plastic, Standard
- Metal, Optional

**Fasteners**
- Self Reaming and Tapping Screws (SRT)

**Mounting**
- Stop Face (Push Side)

**Arms**
- Standard Arm and Track with Roller

**Finishes/Colors/ Powder Coat**
- Aluminum (689)
- Statuary Bronze (690)
- Light Bronze (691)
- Black (693)
- Dark Bronze (695)
- Brass (696)
- Custom colors optional
- Optional SRI primer - powder coat only
- Optional plated finishes

**Features**
- Closer available with less than 5.0 lbs. opening force on 36” door.
- Maximum opening/hold-open point with standard template.

**Special Templates**
Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.
**4110T Series**

**Mounting details**

**Stop face (Push Side) Mounting**

**4110T-18 butt Hinges**

- Should not exceed 5” (127 mm) in width

**Auxiliary Stop**

- Recommended at hold-open point or where a door cannot swing 110°.
- Optional track bumper assembly assists backcheck in cushioning the opening swing of the door
- It is not intended to replace an auxiliary stop

**Clearance**

- Projects 2-1/4” (57 mm) from face of door

**Top Rail**

- Less than 5-1/4” (133 mm) measured from the stop, requires PLATE, 4110T-18
- Plate requires 2-1/4” (57 mm) minimum

**Stop Width**

- Minimum 1-1/4” (32 mm)

**Maximum Opening**

- Templating allows 110° with standard track arm, limited to 100° with optional bumper tracks
- Variable hold-open angles with infinite options

**Notes:**

- Many track style door closers are capable of allowing 180° of door swing
- The majority of track style closers are at their weakest closing force in the 180° – 130° range
- Consult factory for applications where door must swing 180°
**4110T Series**

### Accessories

#### Cylinder

- **4111(6)T-3071** Cast Iron Cylinder Assembly
  - Handed
  - Standard

#### Covers

- **4110T-72** Plastic Cover
  - Non-handed
  - Standard

- **4110T-72MC** Metal Cover
  - Handed
  - Required for plated finishes and custom powder coat finishes
  - Optional

#### Arm

- **4110T-3077T** Standard
  - Handed
  - Roller not included with arm

#### Tracks

- **4110T-3038** Standard Track
  - Non-handed
  - Non hold-open
  - Will accept hold-open clip and/or bumper assembly
  - Standard

- **4110T-3038B** Standard Track with Bumper
  - Non-handed
  - Non hold-open
  - With bumper assembly installed
  - Will accept hold-open clip
  - Optional

- **4110T-3038H** Hold-Open Track
  - Non-handed
  - With hold-open clip installed
  - Will accept bumper assembly
  - Optional

- **4110T-3038HB** Hold-Open Track with Bumper
  - Non-handed
  - With hold-open clip and bumper assembly installed
  - Optional
4110T Series

Installation Accessories

4110T-18 Plate
- Required where top rail, when measured from the stop, is less than 5-1/4˝ (133 mm)
- Requires minimum 2-1/4˝ (57 mm) minimum top rail

4110T-169 Track Bumper
- Mounts in track to assist backcheck, not replace auxiliary stop
- Limits maximum opening. Consists of bumper, bumper post, and mounting screw

4110T-3054 Hold-Open Clip
- Mounts in track to provide hold-open function
- Hold-open point controlled by clip location
- Consists of clip and mounting screws
- Requires 4110T-3034H Track Roller

4110T-3034 Track Roller
- Quiet, low friction roller assembly
- Shoulder dimension “X” = 1/16˝ (2 mm)
- Spring-loaded hold-open mechanism

4110T-3034H Track Roller
- Quiet, low friction roller assembly
- Shoulder dimension “X” = 1/16˝ (2 mm)
- Spring-loaded hold-open mechanism

LCN Door Control Catalog
How-to-order 4110T Series closers

1. Specify cylinder size
   - 4111T (ADA)
   - 4113T
   - 4114T

2. Specify hand
   - RH
   - LH

3. Select finish
   - Standard Powder Coat ________
   - Aluminum, Dark Bronze, Statuary, Light Bronze, Black, Brass

Closer options

Cover
   - Metal (MC)

Finish
   - Custom Powder Coat (RAL) ________
     (handed metal cover required)
   - Plated Finish, US __________
     (handed metal cover required)
   - SRI primer (use with powder coat finishes only)

Specify Track
   - Standard with Bumper (BUMPER)
   - Hold-Open (HO)
   - Hold-Open with Bumper (HBUMPER)

Specify Screw Packs
   - TB* w/Self-Reaming and Tapping (TBSRT)
   - Wood & Machine Screw (WMS)
   - TB* Wood & Machine Screw (TBWMS)
   - TORX Machine Screw (TORX)
   - TB* & TORX Machine Screw (TBTRX)
     * Specify door thickness if other than 1-3/4”.

Installation Accessories
   - Plate, 4110T-18

Special Template
   - ST________

Table of sizes

- Select closer based on width of door
- Sized 4110T series cylinders available in size 1, 3 or 4
- Closing power of all 4110T Series closers may be increased 15%
- Specify next higher size closer where strong drafts exist

<table>
<thead>
<tr>
<th>Door Width</th>
<th>26”</th>
<th>34”</th>
<th>38”</th>
<th>48”</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>660mm</td>
<td>864mm</td>
<td>965mm</td>
<td>1219mm</td>
</tr>
<tr>
<td>4113T</td>
<td>size 1</td>
<td>size 3</td>
<td>size 4</td>
<td></td>
</tr>
<tr>
<td>4114T</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Minimum door width

Indicates recommended range of door width for closer.

Reduced opening force 4110T Series closers

CAUTION! Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to POWER OPERATORS section for information on systems that meet reduced opening force requirements without effecting closing power.

<table>
<thead>
<tr>
<th>DOOR WIDTH</th>
<th>36”</th>
<th>42”</th>
<th>48”</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8.5* lbs.</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>4111T</td>
<td>4111T</td>
<td>4111T</td>
<td></td>
</tr>
<tr>
<td>4114T</td>
<td>4114T</td>
<td>4114T</td>
<td></td>
</tr>
</tbody>
</table>

* Maximum opening force.
The 4000T is a heavy duty closer to reliably control fire and smoke barrier doors with maximum swing of 90°. Designed for use with an SEM 7850 wall magnet.

<table>
<thead>
<tr>
<th>Certifications</th>
<th>Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid</td>
<td>All Weather Fluid</td>
</tr>
<tr>
<td>Handing</td>
<td>Non-Handed</td>
</tr>
<tr>
<td>Size</td>
<td>Sized 3 or 4</td>
</tr>
<tr>
<td>Warranty</td>
<td>30 years</td>
</tr>
</tbody>
</table>

**Features**

- Special Templates
  - Customized installation templates or products may be available to solve unusual applications.
  - Contact LCN Product Support for assistance.

**Specifications**

- **Body Construction**
  - Cast Iron Body
  - Full Complement Bearing
  - 1-1/2” Diameter Piston
  - 3/4” Diameter Double Heat Treated Pinion Journal

- **Fluid**
  - All Weather Fluid

- **Handing**
  - Non-Handed

- **Size**
  - Sized 3 or 4

- **Warranty**
  - 30 years

**Cover**

- Plastic, Standard
- Metal, Optional

**Fasteners**

- Wood and machine screw pack

**Mounting**

- In a wall pocket, hinge side

**Arms**

- Standard Arm and Track with Roller

**Finishes/Colors/Powder Coat**

- Aluminum (689)
- Statuary Bronze (690)
- Light Bronze (691)
- Black (693)
- Dark Bronze (695)
- Brass (696)
- Custom colors optional
- Optional SRI primer - powder coat only
- Optional plated finishes

**Special Templates**

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

- **MOUNTING**
  - Available
  - Not Available

- **FINISH**
  - Plastic, Metal

- **COVER**
  - Non-Handed
  - Non-Sized
  - Accessibility
  - Delayed Action

- **CYLINDER**
  - Regular/Double
  - Standard/Single
  - Hold-Open
  - Fusible Link

- **ARM FUNCTION**
  - 90°
**Butt Hinges**
- Pocket Pivot, Total Door Hinge or Center Pivot are door mounting options
- Should not exceed 5” (127 mm)

**Pocket Depth**
- See above table for distance required between door and closer mounting location
- This dimension is measured from the cylinder mounting surface to the pull side face of the door at 90°

**Wall Magnet**
- SEM 7850 is recommended. Use of other magnets may require special construction to alter the depth of the pocket at the magnet location
- See Fire Life Safety Section

**Dimension 1**
- The distance from the centerline of the closer shaft to the centerline of the hinge or pivot
  - For pocket pivot or total door hinge, 9-1/2” (241 mm)
  - For butt hinge 8” (203 mm)
  - For center pivot 10” (254 mm)

**Dimension 2**
- The distance from the centerline of the pivot or hinge to the cylinder mounting surface
  - For pocket pivot 4-1/2” (114 mm)
  - For total door hinge 3-7/8” (98mm)
  - For butt hinge 2-7/8” (73 mm)
  - For center pivot 4-1/2” (114 mm)

**Dimension 3**
- The distance from the centerline of the pivot or hinge to end of the track
  - For pocket pivot or total door hinge, 3-7/8” (98mm)
  - For butt hinge 2-3/8” (60mm)
  - For center pivot 4-5/8” (117mm)

**Maximum Opening**
- Templating allows 90° only
- Hold-open point 90° with magnet

**Notes:**
- Cylinder mounts on wall
- Track mounts on hinge side of door
## Cylinder

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4003(4)T-3071</td>
<td>Cast Iron Cylinder Assembly</td>
<td>Non-handed, Standard</td>
</tr>
</tbody>
</table>

## Covers

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4000T-72</td>
<td>Plastic Cover</td>
<td>Non-handed, Standard</td>
</tr>
<tr>
<td>4000T-72MC</td>
<td>Metal Cover</td>
<td>Handed, Required for plated and custom powder coat finishes, Optional</td>
</tr>
</tbody>
</table>

## Arm

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4000T-3077T</td>
<td>Standard Arm</td>
<td>Non-handed, Roller not included with arm</td>
</tr>
</tbody>
</table>

## Tracks

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4000T-3038</td>
<td>Standard Track</td>
<td>Non-handed, Non hold-open, Will not accept hold-open clip or bumper assembly, Standard</td>
</tr>
<tr>
<td>4000T-3034</td>
<td>Track Roller</td>
<td>Quiet, low friction roller assembly, Shoulder Dimension “X” = 1/8” (3 mm)</td>
</tr>
</tbody>
</table>
How-to-order 4000T Series closers

1. Select cylinder size
   □ 4003T
   □ 4004T

2. Select finish
   □ Standard Powder Coat _________
      Aluminum, Dark Bronze, Statuary, Light Bronze, Black, Brass

Closer will be shipped with:
- Standard cylinder
- Standard cover
- Standard arm
- Track roller
- Standard track
- Self-reaming and tapping screws
  unless options listed below are selected.

Closer options

Cover
   □ Metal (MC)

Finish
   □ Custom Powder Coat (RAL) _________
      (handed metal cover required)
   □ Plated Finish, US ____________
      (handed metal cover required)
   □ SRI primer (use with powder coat finishes only)

Specify Screw Packs
   □ TB*, Wood & Machine Screw (TBWMS)
   □ TORX Machine Screw (TORX)
   □ TB* & TORX Machine Screw (TBTRX)
     * Specify door thickness if other than 1-3/4”.

Special Template
   □ ST- ________

Specify Screw Packs
   □ TB*, Wood & Machine Screw (TBWMS)
   □ TORX Machine Screw (TORX)
   □ TB* & TORX Machine Screw (TBTRX)
     * Specify door thickness if other than 1-3/4”.

Table of sizes

- Select closer based on width of door
- 4000T Series cylinders available in size 3 or 4
- Closing power of 4000T Series closers is not adjustable

Interior door width

<table>
<thead>
<tr>
<th>28”</th>
<th>34”</th>
<th>38”</th>
<th>42”</th>
<th>48”</th>
</tr>
</thead>
<tbody>
<tr>
<td>71mm</td>
<td>864mm</td>
<td>965mm</td>
<td>1067mm</td>
<td>1219mm</td>
</tr>
</tbody>
</table>

4003T

4004T

Minimum door width

Indicates recommended range of door width for closer size.