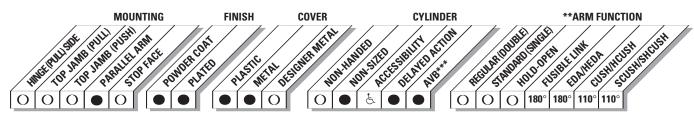


- Standard 4110 series closer is shipped with EXTRA DUTY arm, standard plastic cover, 4110-201 FIFTH SCREW SPACER and self reaming and tapping screws. See 4110 Series pages 61 & 62 for options.
- ➤ Sized cylinders adjustable for interior doors to 5'0" and exterior doors to 4'0".
- ► Non-sized cylinder adjustable for interior doors to 4′6″ and exterior doors to 3′6″
- ► Closer mounts parallel arm, specify right or left swinging door.
- ► 4111 cylinder meets ADA requirements. See 4110 Series page 63.
- Standard or optional custom powder coat finish.
- Optional plated finish on metal cover, arm and fasteners.
- Optional SRI primer for installations in corrosive conditions is available with powder coat only.
- ► The 4110 Series is UL and cUL listed for self-closing doors without holdopen.
- ► Tested and certified under ANSI Standard A156.4, grade one.

The 4110 SMOOTHEE® is LCN's best performing heavy duty closer designed specifically for institutional and other rugged high traffic applications.

- ► Ten Million Cycles
- Cast Iron
- Extra Duty Forged Steel Arm Standard
- Double Heat Treated Steel
 Pinion
- ► All Weather Fluid
- ► LCN® Fast™ Power Adjust
- ► Fast & Accurate Installation
- ► UL & cUL Listed





- AvailableNot 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

PARALLEL ARM (PUSH SIDE) MOUNTING

MAXIMUM OPENING

EDA or Fusible Link arm can be templated for 100°.

- (A) = 5.15/16" (151 mm)
- $(B) = 7 \frac{1}{4}$ " (184 mm)

140°

- (A) = 47/16" (113 mm)
- (B) = 5 3/4" (146 mm)

or 180°.

- (A) = 2.15/16" (75 mm)
- $B = 4 \frac{1}{4}$ " (108 mm)

Hold-open points up to maximum opening with HEDA or Fusible Link arm.

CUSH arm can be templated for maximum opening at 85°,

- \triangle = 8 5/16" (211 mm)
- (B) = 95/8" (244 mm)

90°

- $(A) = 7 \, 11/16'' \, (195 \, mm)$
- (B) = 9'' (229 mm)

100°.

- (A) = 67/16" (164 mm)
- (B) = 7 3/4" (197 mm)

or 110°.

- (A) = 5.9/16" (141 mm)
- (B) = 67/8" (175 mm)

Hold-open point at maximum opening with HCUSH arm.

Spring Cush hold-open points are approximately 5° less than templated stop point.

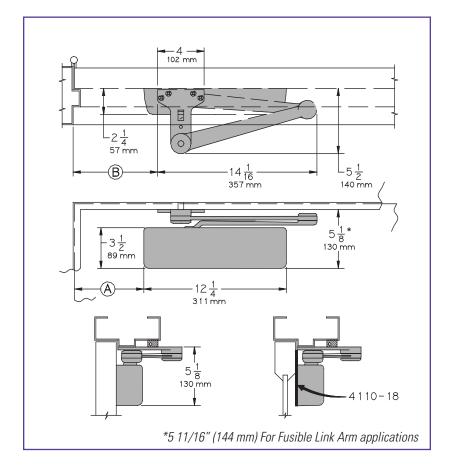
Options

- Sized or non-sized cylinder.
- Delayed Action and/or Advanced Variable Backcheck cylinder.
- HEDA, CUSH, HCUSH, SPRING CUSH, SPRING HCUSH or Fusible Link arm.
- ► Metal or lead lined cover.

Special Templates

Customized installation templates or products may be available to solve unusual applications.

Contact LCN for assistance.



- ▶ Butt Hinges should not exceed 5" (127 mm) in width.
- ► **Auxiliary Stop** is recommended at hold-open point, where a door cannot swing 180°. or where CUSH-N-STOP arm is not used.
- ► **Clearance** for 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 rabetted requires 4110-145 arm or PA SHOE ADAPTER, 4110-418, Use CUSH FLUSH PANEL ADAPTER, 4110-419 with CUSH arms.
- ► Reveal less than 2 3/4" (70 mm), use CUSH SH0E SUPPORT, 4110-30 with CUSH arms.
- ► Blade Stop Spacer, 4110-61 required to clear 1/2" (13 mm) blade stop.
- Cush Arm requires CUSH SH0E SUPPORT, 4110-30 for fifth screw anchorage with CUSH arms
- ► **Delayed Action** Add suffix "DEL" to selected cylinder (eg. 4114 DEL). Not available with 4115 or 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. When combined with Delayed Action consult factory for special template.



CYLINDERS

CYLINDER, 4110-3071

Standard, handed cast iron cylinder assembly. For various applications see "Table of Sizes" on 4110 Series page 63.

COVERS

COVER, 4110-72

Standard, non-handed plastic cover.

LEAD LINED COVER, 4110-72LL

Optional, non-handed plastic cover.

METAL COVER, 4110-72MC

Optional, handed cover. Required for plated finishes and custom powder coat finishes.

ARMS

EXTRA DUTY ARM, 4110-3077EDA, 4110-62G, 4110-145

Non-handed parallel arm features forged, solid steel main and forearm for potentially abusive installations.

Optional 4110-62G thick hub shoe for blade stop clearance. Optional 4110-145 flush transom shoe for single rabetted installations. Optional shoes require special templating.

HOLD-OPEN ARM 4110-3049EDA

Optional handed arm provides hold-open function, adjustable at shoe.

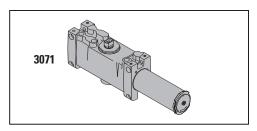
FUSIBLE LINK ARM, 4110-3049FL

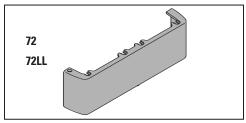
Optional, handed arm releases hold-open function adjustable at shoe when exposed to temperatures above 165° F.

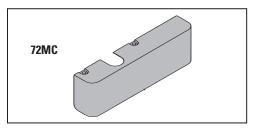
NOTE: Check local codes before specifing FL arms. NOT A LIFE SAFETY PRODUCT!

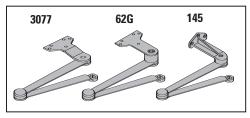
CUSH-N-STOP ARM, 4110-3077CNS

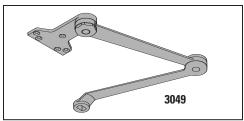
Optional, handed parallel arm features solid forged steel main arm and forearm with built-in stop in soffit shoe.

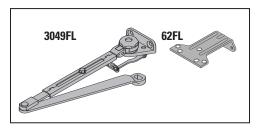


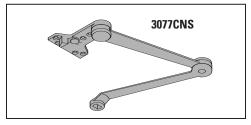












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H-CUSH ARM 4110-3049CNS

Optional handed arm provides hold-open function with templated stop/hold-open points.
Handle controls hold-open function.

SPRING CUSH ARM, 4110-3077SCNS

Optional, non-handed parallel arm for abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe.

SPRING H-CUSH ARM, 4110-3049SCNS

Optional, non-handed parallel arm for abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe. Handle controls hold-open function.

INSTALLATION ACCESSORIES

PLATE, 4110-18, 4110-18CUSH

Required for push side mount where top rail is less than 5 1/8" (130 mm), measured from the stop.

Plate requires minimum 2" (51 mm) minimum top rail. Plate also used with CUSH Arm installations.

CUSH SHOE SUPPORT, 4110-30

Provides anchorage for fifth screw used with CUSH arm, where reveal is less than 3 1/16" (78 mm).

BLADE STOP SPACER, 4110-61

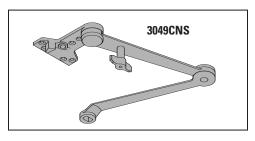
Lowers parallel arm shoe to clear 1/2" (13 mm) blade stop

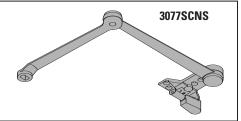
PA SHOE ADAPTER, 4110-418

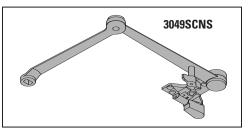
Provides horizontal mounting surface for parallel arm shoe on single rabetted or flush frame.

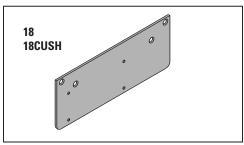
CUSH FLUSH PANEL ADAPTER, 4110-419

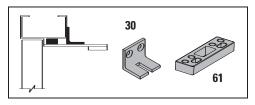
Provides horizontal mounting surface for CUSH shoe on single rabetted or flush frame.

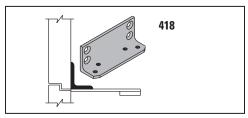


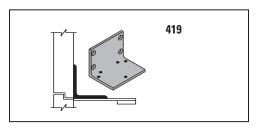












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TABLE OF SIZES Select closer based on width of door.

The spring power of non-sized 4111 cylinder is adjustable from size 1 through size 5 and is shipped set to size 3.

Sized 4110 series cylinders available in size 2, 3, 4, 5, or 6.

Closing power of all 4110 Series closers can be increased 50%.

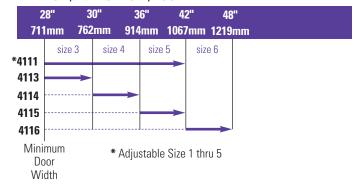
Specify next higher size closer where strong drafts exist.

Delayed action not available with 4115 or 4116 cylinder

H - CUSH and SPRING H-CUSH arm not available with 4116 cylinder.

Indicates recommended range of door width for closer size

EXTERIOR (and VESTIBULE) DOOR WIDTH



INTERIOR DOOR WIDTH

	8" mm	34" 864mm	38" 965mm	48' 1219ı	" 54" mm 1372n		ım
*4111	size 2	size	e 3	size 4	size 5	size 6	
4112 4113		→	→				
4114							
4115 4116							
Minii Do Wid	or	* Ad	justable	Size 1 thru 5			

REDUCED OPENING FORCE 4110 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.

	DOOR WIDTH	36"	42"	48"
E	8.5* lbs.	4111	4111	4111
	5.0* lbs.	4111	4111	4111

^{*} Maximum opening force

HUVV-IU-UNDEN
4110 SERIES CLOSERS
1. SELECT CYLINDER SIZE

	4111 (adjustable from size 1 to 5)
	4112
	4113
	4114
	4115 (DEL not available)
	4116 (DEL, SHCUSH or HCUSH arm not available)
2.	SPECIFY HAND
	RH
	LH
3.	SELECT FINISH
	Standard Powder Coat
	Aluminum, Dark Bronze , Tan, Statuary,
	Light Bronze, Black, Brass.
	Eight Bronze, Black, Brass.
	Closer will be shipped with:
	- STANDARD COVER,
	- FIFTH SCREW SPACER
	- EDA ARM,
	- SELF-REAMING and TAPPING SCREWS,
	unless options listed below are selected.
	ишезэ орионз нэгей регом аге зелестей.
41	110 CLOSER OPTIONS
	/LINDER
_	Delayed Action ((DEL), not available
	with 4115 or 4116)
П	Advanced Variable Backcheck (AVB)
	OVER
	Lead Lined (LL)
	Metal (MC)
	NISH
Ш	Custom Powder Coat (RAL)
_	(handed metal cover required)
Ш	Plated Finish, US
	(handed metal cover required)
	SRI primer
	PECIFY 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)
_	CREW PACK
	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".
	STALLATION ACCESSORIES
	Plate, 4110-18
	CUSH Shoe Support, 4110-30
	Blade Stop Spacer, 4110-61
	PA Shoe Adapter, 4110-418

☐ CUSH Flush Panel Adapter, 4110-419

SPECIAL TEMPLATE □ ST-