



1450 Series

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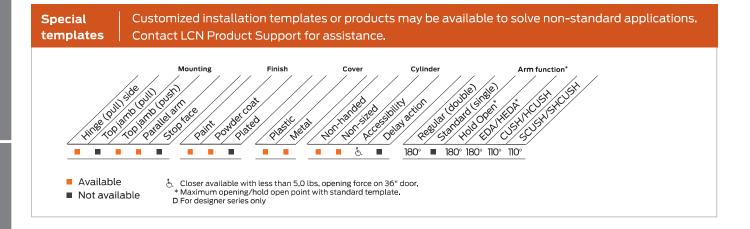


The 1450 Series cast aluminum closer was specially designed to deliver consistent, dependable, long-term performance in frequently-used, low-abusive traffic areas. With industry's most common hole pattern it can fit a range of applications like aftermarket replacement, aluminum storefronts and new construction projects.

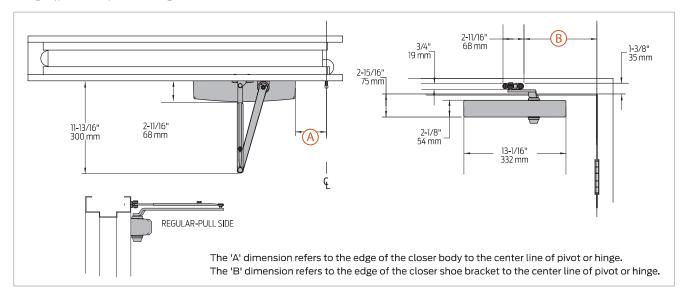
Features

Certifications	Grade 1 - ANSI A156.4, UL 10C, ADA, 100 hour salt spray, meets BAA - Buy American Act	
Body construction	 Cast aluminum body Full complement bearing 1½" diameter piston 5/8" diameter single heat treated pinion journal 	
Fluid	All weather fluid	
Handing	Non-handed	
Templating	Peel-n-Stick templates - 3/4" x 12" mounting hole pattern	
Size	Adjustable spring size 1-6	
Warranty	25 years	

Cover	Slim line plastic, standardFull plastic and metal, optional		
Fasteners	Universal screw pack (UNIV)		
Mounting	Hinge (pull side), top jamb (push side), parallel arm (push side)		
Arms	Standard regular pull side and top jamb		
Finishes/colors/ powder coat	 689 Aluminum 690 Statuary Bronze 691 Light Bronze 693 Black 695 Dark Bronze 696 Brass Custom colors optional Optional SRI primer - powder coat only 		



Hinge (pull side) mounting

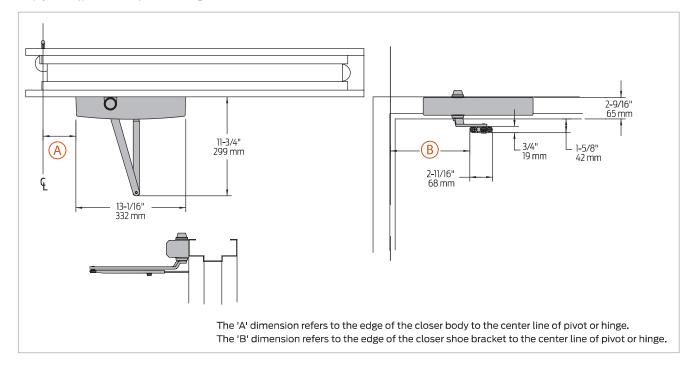


Butt hinges	Should not exc	Should not exceed 5" (127 mm) in width					
Auxiliary stop	Recommende	Recommended at hold open point or where a door cannot swing 180°					
Reveal	Should not exc	Should not exceed ³ / ₄ " (19 mm) for regular arm or ¹ / ₂ " (13 mm) for Hold Open Arm					
Top rail		Less than 2 $\frac{1}{2}$ " (64 mm) requires plate, 1450-18 With full cover, use plate, 1450-18FC. Plate requires 1 $\frac{1}{2}$ " (38 mm) minimum					
Clearance	2 ³ / ₈ " (60 mm) behind door required for installation					
Maximum opening	100°:	A = 7" (102 mm) B = 12 ³ / ₈ " (314 mm)					
	101º to 130º:	A=5 ½" (140 mm) B=10 ½" (276 mm)					
	131º to 180º:	A=4" (140 mm) B = $9\frac{3}{8}$ " (238 mm)					

Note: Hold open points up to maximum opening with Hold Open Arm. \ast Frame and trim permitting

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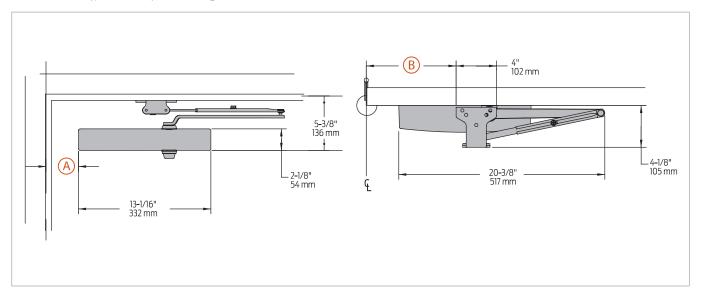
Top jamb (push side) mounting



Butt hinges	Should not excee	Should not exceed 5" (127 mm) in width					
Auxiliary stop	Recommended a	at hold open point o	r where a door canno	ot swing 180°			
Reveal	Arm type		Reveal	Max opening			
	Regular Arm		5"	Up to 170°			
	Regular Arm		3 3/4"	Up to 180°			
	Long Arm		8"	Up to 155°			
	Hold Open Arm		2 3/4"	Up to 180°			
	Hold Open Long Arm		47/8"	Up to 140°			
Top rail	Requires 2 1/8" (5	54 mm) minimum. 3	. 3 ³/8" (86 mm) minimum with closer on plate, 1450-18.				
Head frame	Less than 1 ³ / ₄ " (frame, use plate,		ate, 1450-18. For flush	n ceiling condition with 1 ³/4" (45 mm) head			
Maximum opening		A=7" (102 mm) 3 = 12 ³ /8" (314 mm)					
		A= 5 ½" (140 mm) B = 10 ½" (276 mm)					
		A= 4" (102 mm) B = 9 ³ / ₈ " (238 mm)					

Note: Hold open points up to maximum opening with Hold Open Arm. \ast Frame and trim permitting

Parallel arm (push side) mounting

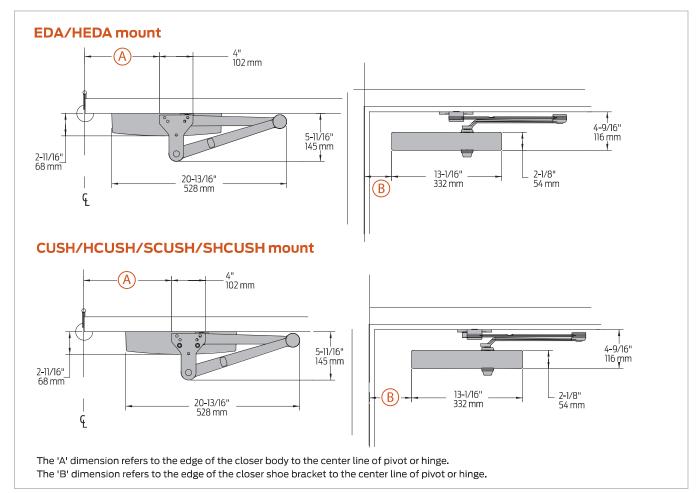


Butt hinges	Should not exceed 5"	(127 mm) in width					
Auxiliary stop	Recommended at hol	Recommended at hold open point, where a door cannot swing 180°, or where Cush-n-Stop Arm is not used					
Top rail	 Less than 5 ½" (133 mm) measured from the soffit requires Plate requires 1½" (32 mm) minimum. 						
	Cover	Minimum top rail (measured from soffit)	Plate required				
	Plastic	3 ½" (89 mm)	1450-18				
	Plastic	2 1/4" (57 mm)	1450-18PA				
	Metal	3 ½" (89 mm)	1450-18FC				
	Metat	2 1/4" (57 mm)	1450-18PAFC				
Clearance	1450-62PA shoe proje	ects 4 1/8" (105 mm) from door face					
Head frame	Flush or single rabbete	Flush or single rabbeted requires PA shoe adapter, 1450-418					
Stop width	Minimum 1" (25 mm)						
Blade stop	Clearance, requires 1/2	" (13 mm) blade stop spacer, 1450-61					
Auxiliary shoe	1450-62A allows insta	allation of regular arm with overhead h	nolder/stop				
Maximum opening	120°: A = 3	Arm can be templated to ³ /16" (81 mm) 7/8" (225 mm)					
		6" (17 mm) ³ /8" (162 mm)					

Note: Note: Hold open points up to maximum opening with Hold Open Arm. PA shoe is included with RWPA Arm. 1450 closer includes 1450-201 fifth hole spacer to support PA shoe.

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EDA and Cush-n-Stop mounting



Clearance	1450-62EDA or CUSH shoe projects 5 11/16" (144r	nm) from doo	r face				
Head frame	Flush or rabbeted requires CUSH flush panel ada	pter, 1450-419	9				
EDA or CUSH ARM	r CUSH ARM Requires soffit shoe support, 1450-30 for fifth screw anchorage where reveal is less than 3 1/16" (7						
SCUSH	Dead stop points are approximately 5° more than templated stop points						
Maximum opening	EDA template allows 1109 Hold open point up to maximum opening	CUSH arms can be templated for maximum opening/hold open point at 85°					
	120°: A = 8 ⁷ / ₈ " (225 mm) B = 3 ³ / ₁₆ " (81 mm)	85°:	A = 10 ³ / ₈ " (279 mm) B = 4 ¹⁵ / ₁₆ " (140 mm)				
	over 120°: $A = 6^{3}/s''$ (162 mm) $B = {}^{11}/{}_{16}''$ (17 mm)	90°:	A = 9 ⁵ / ₈ " (244 mm) B = 4 ³ / ₁₆ " (106 mm)				
		95°:	A = 8 ⁷ / ₈ " (225 mm) B = 3 ⁷ / ₁₆ " (87 mm)				
		100°:	A = 8 ½" (210 mm) B = 2 ½"/16" (71 mm)				
		105°:	A = 7 ⁵ / ₈ " (194 mm) B = 2 ³ / ₁₆ " (56 mm)				
		1100:	A = 7" (178 mm) B = 1 ⁹ /16" (40 mm)				

 $Note: 1450\ closers\ ordered\ with\ EDA, CUSH\ or\ SCUSH\ Arms\ include\ 1450-201\ fifth\ hole\ spacer\ to\ support\ the\ shoetoness and the support\ supp$

Introduction

Accessories

Cylinders



1450-3071 Cast aluminum cylinder (CYL)

- Non-handed
- Standard

Covers



1450-72 Slim line plastic cover (SLIMPC)

- Non-handed
- Standard



Left hand shown

1450-72MC Metal Cover (MC)

- Handed
- Optional



1450-72FC Full Plastic Cover (FPC)

- Non-handed
- Optional

Alternate cover



1450-72ALT Alternate cover

- Non-handed
- Optional, sold separately (not packed with closer)

Installation accessories



1450-18 / 1450-18FC Plate

- Required for hinge side mount where top rail is less than 2 ½" (64 mm)
- Required for top jamb mounting where head frame is less than 1³/₄" (44 mm) or flush ceiling condition exists
- Requires minimum 1 ½" (38 mm) minimum top rail or 1 ¼" (32 mm) head frame
- With full cover, use plate 1450-18FC



1450-18PA / 1450-18PAFC Plate

- Required for parallel arm mounting where top rail is less than 4 ³/₈" (111mm), measured from the stop
- Requires 1³/₄" (44 mm) minimum top rail
- With full cover, use plate 1450-18PAFC



1450-30 CUSH shoe support

 Provide anchorage for fifth screw used with CUSH arms where reveal is less than 3 1/16" (78mm)



1450-61 Blade stop spacer

 Lowers parallel arm shoe to clear ½" (13 mm) blade stop



1450-62PA PA shoe

 Required for parallel arm mounting



1450-62A Auxiliary shoe

 Requires a top rail of 7" (178mm). Optional shoe replaces -62PA for parallel arm mounting of regular arm with overhead holder/stop



1450-419 PA flush panel adapter

 Provides horizontal mounting surface for PA, EDA or CUSH shoe on single rabbeted or flush frame

Accessories



1450-3077 Regular Arm with Parallel Arm Bracket (RWPA)

- Non-handed
- Mounts hinge side or top jamb
- Includes PA shoe, 1450-62PA required for parallel arm mounting



1450-3077L Long Arm (LONG)

- Non-handed
- Includes long rod and shoe, 1450-79LR for top jamb mount with deep reveals
- Optional



1450-3049 Hold Open Arm with Parallel Arm Bracket (HWPA)

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



1450-3049L Hold Open Long Arm (HLONG)

- Non-handed
- Includes long head and tube, 1450-3048L for top jamb mount with deep reveals
- Optional



1450-3077EDA Extra Duty Arm (EDA)

- Non-handed
- Features solid forged steel main and forearm for potentially abusive installations
- Optional 1450-3077EDA/G for blade stop clearance



1450-3077EDA/62G Extra Duty Arm with 62G Thick **Hub Shoe (EDAW62G)**

- Non-handed
- Features solid forged steel main and forearm for potentially abusive installations
- Optional 1450-3077EDA/G for blade stop clearance



1450-3049EDA Hold Open Extra Duty Arm (HEDA)

- Handed
- Provides hold open function adjustable at shoe
- Optional



1450-3077CNS Cush-n-Stop Arm (CUSH)

- Non-handed
- Features solid forged steel main arm and forearm with stop in soffit shoe
- Optional



1450-3049CNS Hold Open Cush-n-Stop Arm (HCUSH)

- Non-handed
- Provides hold-open function with templated stop/hold open points
- Handle controls hold open function
- Optional



1450-3077SCNS Spring Cush-n-Stop Arm (SCUSH)

- Non-handed
- For abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe
- Optional



1450-3049SCNS Spring Hold Open Cush-n-Stop Arm (SHCUSH)

- 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

Ordering information

How-to-order 1450 Series closers

1. Select finish

☐ Standard powder coat Aluminum (689), Dark Bronze (695), Statuary Bronze (690), Light Bronze (691), Black (693), Brass (696).

Closer will be shipped with:

- Standard cylinder
- Standard cover
- Tripack arm (RWPA)
- Universal screw pack (unless options listed below are selected)

Closer options

Cover

- ☐ Full Plastic Cover (FPC)
- ☐ Metal Cover (MC)
- ☐ Alternate Cover (ALT) (sold separately from product)

Finish

- ☐ Custom powder coat (RAL) _ (metal cover required)
- □ SRI primer (use with powder coat finishes only)

Arm

- ☐ Regular Arm with Parallel Arm Bracket (RWPA)
- ☐ Long Arm (LONG)
- ☐ Regular Arm with 62A Auxiliary Shoe (RW62A)
- ☐ Hold Open with Parallel Arm Bracket (HWPA)

- ☐ Hold Open Long Arm (HLONG)
- ☐ Extra Duty Arm (EDA) (optional -62G)
- ☐ Hold Open Extra Duty Arm (HEDA) - specify handing
- ☐ Cush-n-Stop Arm (CUSH)
- ☐ Hold Open Cush-n-Stop Arm (HCUSH)
- ☐ Spring Cush-n-Stop Arm (SCUSH)
- ☐ Spring Hold Open Cush-n-Stop Arm (SHCUSH)

Optional screw packs

- ☐ Torx Machine Screw (TORX)
- ☐ Through Bolt¹ and Torx Machine Screw (TBTRX)

Installation accessories

- □ Plate. 1450-18
- □ Plate. 1450-18FC
- ☐ Plate, 1450-18PA
- ☐ Plate, 1450-18PAFC
- ☐ CUSH Shoe Support, 1450-30
- ☐ Blade Stop Spacer, 1450-61
- ☐ Auxiliary Shoe, 1450-62A
- ☐ PA Flush Panel Adapter, 1450-419

Special template

S	Т-	

Meets Buy American Act

□ BAA

1. Specify door thickness if other than 1 3/4".

Table of sizes

- Select closer based on width of door
- The spring power of a 1450 cylinder is field adjustable from size 1 through size 6 and is shipped adjusted to size 3

Exterior (and vestibule) door width



Interior door width

		4" mm	_	4" 4mm		8" 5mm		. 8" 9mm	_	4" 2mm	_	0" 4mm
61 1450	45O*	size	2	size	3	size	4	size	5	size	6	
		Minim	um d	oor wid	th							

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

Reduced opening force 1450 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 catalog for information on systems that meet reduced opening force requirements without effecting closing power.

E	Door wid
	8.5* lbs.
	5.0* lbs.

Door width	36"	42"	48"	_
8.5* lbs.	1450	1450	1450	
5.0* lbs.	1450	1450	1450	

* Maximum opening force.