4510 Series

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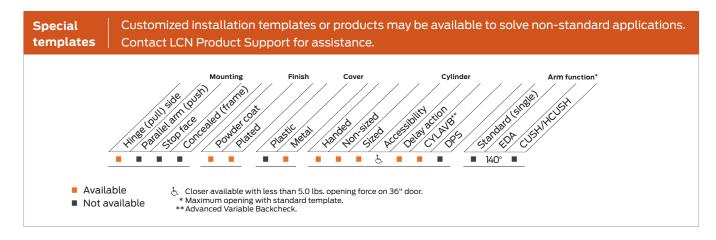


The 4510 Smoothee Series is a heavy duty, high security closer with special components to minimize tampering and vandalism. Forged steel double lever arms and heavy gauge metal security covers are designed for correctional, vandal prone, institutional and other high traffic applications. A choice of finishes and cylinder functions meet correctional and vandal resistant requirements.

Features

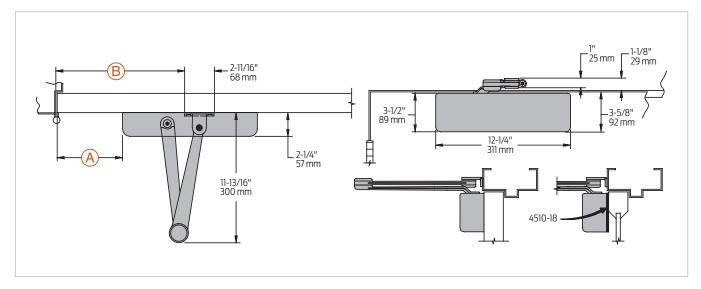
Certifications	Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act	
	Note: 4511 cylinder meets ADA.	
Body construction	 Cast iron body Full complement bearing 1½" Diameter piston ½" diameter double heat treated pinion journal 	
Fluid	All weather fluid	
Handing	Handed	
Size	Sized 1-5; Adjustable, exterior, interior and vestibule	
Warranty	15 years	

Cover	Metal Cover (MC)
Fasteners	Torx Machine Screws (TORX)
Mounting	Hinge (pull side)
Arms	Extra heavy duty, non-hold open
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 onlyOptional plated finishes



Mounting details

Hinge (pull side) mounting



Butt hinges	Should not exceed 5" (127 mm) in width
Auxiliary stop	Recommended where a door cannot swing 140°
Reveal	Reveal should not exceed 1/8" (3 mm)
Clearance	2 ½" (57 mm) behind door required for installation
Top rail	 Less than 3 ½" (89 mm), requires plate 4510-18 Plate requires 2" (51mm) minimum top rail
Head frame	Less than 1" (25 mm), consult factory
Arm clearance	Above door 1 ½ (29 mm) required
Delay action	 Add suffix "CYLDEL" to selected cylinder Not available with 4516 cylinder Delays closing from maximum opening to approximately 70° Delays time adjustable up to approximately 1 minute
Advanced Variable Back Check	 Cylinder starts back check at approximately 45° instead of the normal 75° Add suffix "CYLAVB" to selected cylinder
Maximum opening	Can be templated for
	140°: A= 4³/16" (106 mm) B = 9 ⁷ /8" (251 mm)
Options	Delay Action cylinder (CYDEL) or Advanced Variable Back Check cylinder (CYLAVB)

Accessories

Cylinders

4510 Series



4511(6)-3071 Cast iron cylinder assembly (CYL)

- Handed
- Cast iron
- Standard

Covers



4510-72MC Metal Cover (MC)

- Handed
- Four point mounting for extra security
- Closer adjustments not accessible with cover installed
- Standard

Arms



4510-3077EDA Extra Duty Arm (EDA)

- Non-handed
- Solid forged steel main arm and forearm for potentially abusive installations
- Double slab arm/ pinion attachment for maximum strength
- Standard

Installation accessories



4510-18 Plate

- Required where top rail is less than $3^{1/2}$ " (89 mm)
- Requires minimum 2"(51 mm) top rail