

CR441 SERIES

ANSI A156.4 Grade 1, Full Cover Multi-Size, Full Feature Closer UL Listed, Conforms to Standards UL10C and UBC7-2-1997 BHMA Certified Lifetime Warranty



MEETS

The Buy American Act
(SPECIFY MADE IN KOREA WHEN ORDERING)

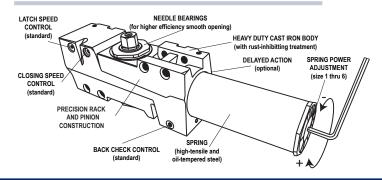




- Cal-Royal's Finest Hydraulic Door Closer Series
 Meeting the Highest Industry Standards, Grade 1
- Heavy-Duty Double Lever Arm with Extra Smooth Action
 Full Feature Multi-Size Commercial Door Closer for Use In Office
 Buildings, Shopping Centers and other Commercial Buildings
- Standard Back-Check Function
- Standard Packaging includes Full Plastic Cover with Sex Bolts and Screws. (Metal Optional)
- Optional Plated Metal Decorative Covers Including 32D
- Optional Adjustable Delayed Action / Barrier Free for Handicapped Or Elderly

FEATURES

- Universal Application. Non-Handed for Standard, Top Jamb or Parallel Arm Installation
- Non-Sized, 1 thru 6 FACTORY PRESET SIZE 3 Meets ADA
- Door Weights: 30-260 lbs
- Hydraulic Door Closer with Standard Adjustable Back-Check Function
- Adjustable Closing and Latching Speed by Two Separate Regulating Valves
- Optional Adjustable Delayed Action (DA)
 Preset at the Factory for Approximately 20 Seconds,
 Between 70° and 0°
 Delay Time Easily Adjusted up to 1 Minute. CR441 DA
- Standard Full Plastic Cover (CR441COV)
- Self-Tapping Screws and Closer Gauge for Easy Adjustment is Standard Feature
- Available in Alum, Duro, Gold, US3, 26, 26D, 10B and 32D



REDUCED OPENING FORCE CR441 DOOR CLOSERS

IMPORTANT Any door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is chosen, installed and adjusted based on ADA or other reduced opening force requirement may not provide sufficient power to close and latch a door. Location of door could also affect action and efficiency of door closer.

5	DOOR WIDTH	36"	42"	48"
	**8.5 lbs.	CR441	CR441	CR441
	**5.0 lbs.	CR441	CR441	CR441

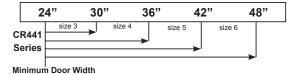
** Maximum Opening Force

TABLE OF SIZES

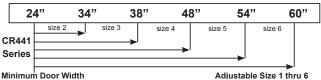
Closing power of CR441 closers may be adjusted 50%

Shows recommended range of door width for closer size.

EXTERIOR (and VESTIBULE) DOOR WIDTH



INTERIOR DOOR WIDTH



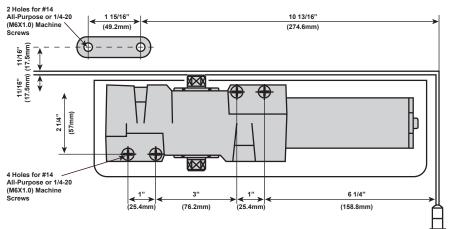
DESCRIPTION	SIZE	A ————————————————————————————————————
A. Length of Closer Body	11"	
B. Horizontal Mounting Holes	5"	Front View
C. Vertical Mounting Holes	1"	- -E=
D. Width of Closer Body	2 3/4"	
E. Projection from Door	2"	L End View



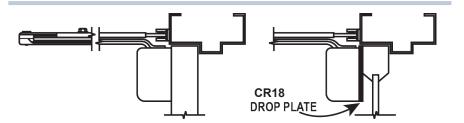
MOUNTING INFORMATION



CR441 SERIES: REGULAR ARM INSTALLATION (PULL SIDE)

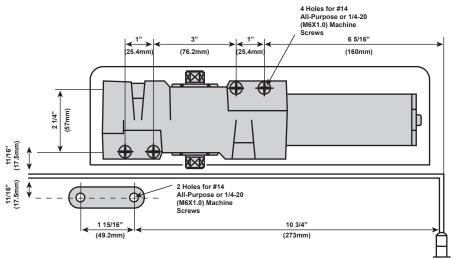


- Butt Hinges should not exceed 5" (127mm) in width.
- Auxiliary Stop is recommended at hold-open point or where a door cannot swing beyond 120°
- Reveal should not exceed ¾" (19mm) for regular arm or hold-open arm.
- **Top Rail** less than 3 ¾" (19mm) requires PLATE, **CR18**. Plate requires 2" (51mm) minimum.
- Clearance of 2 %" (60mm) behind door required for 90° installation.
- Delayed Action Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute
- See Optional Installation for ARMS and BRACKETS available on the next page.



- RIGHT HAND DOOR SHOWN
- SURFACE MOUNTED
- ADJUSTABLE AND PRE-SET BACKSET
- NON-HOLD OPEN / HOLD OPEN

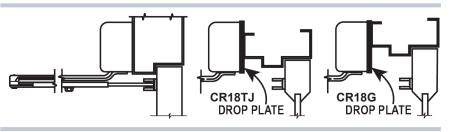
CR441 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)



- Butt Hinges should not exceed 5" (127mm) in width.
- Auxiliary Stop is recommended at hold-open point or where a door cannot swing beyond 120°
- Reveal of 2 ⁹/₁₆" (65mm) allows 120° opening for regular or standard hold-open arm. 8" (203mm) allows up to 120° opening with CR441EXT.
- Top Rail requires 1 ¼" (32mm) minimum.
 2 ¼" (57mm) minimum with closer on PLATE,
 CR18TJ. 3" (76mm) minimum with closer on PLATE,
 CR18G.
- Head Frame less than 3 ½" (89mm) requires PLATE, CR18TJ. With flush ceiling, use PLATE, CR18G. Either plate requires 1 ¾" (44mm) minimum.
- Delayed Action Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.
- See Optional Installation for ARMS and BRACKETS available on the next page.



- SURFACE MOUNTED
- ADJUSTABLE AND PRE-SET BACKSET
- NON-HOLD OPEN / HOLD OPEN

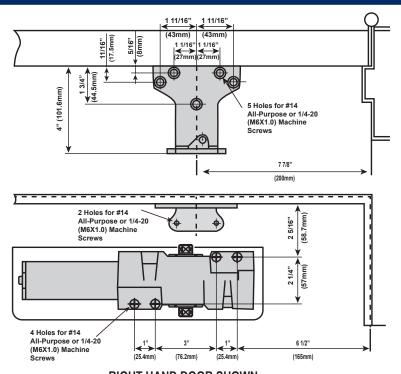




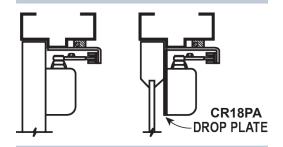
MOUNTING INFORMATION



CR441 SERIES: PARALLEL ARM INSTALLATION (PUSH SIDE)



- Butt Hinges should not exceed 5" (127mm) in width.
- Auxiliary Stop is recommended at hold-open point or where a door cannot swing beyond 180°. or where CR3077SPAS arm is not used.
- Top Rail less than 5 %" (137mm) measured from the stop requires PLATE, CR18PA. Plate requires 2" (51mm) minimum from the stop.
- Stop Width minimum 1" (25mm). CUSH arm requires minimum 1 ½" (38mm).
- Delayed Action Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute
- See Optional Installation for ARMS and BRACKETS available on the next page.

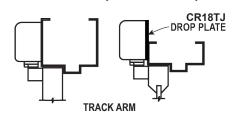


- RIGHT HAND DOOR SHOWN
- SURFACE MOUNTED
- ADJUSTABLE AND PRE-SET BACKSET
- NON-HOLD OPEN / HOLD OPEN

CR441 SERIES: OPTIONAL INSTALLATION

REGULAR ARM (PULL SIDE) CR18 DROP PLATE TRACK ARM

TOP JAMB (PUSH SIDE)



MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)

OPTIONAL INSTALLATION

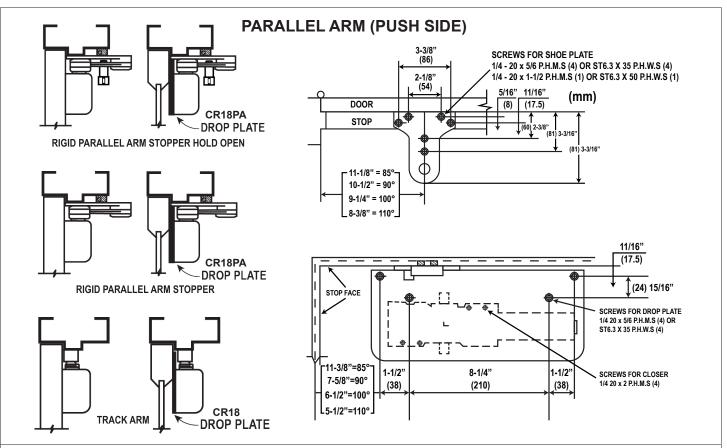
ARMS

- CR3049HO Non-Handed Hold Open Arm with Parallel Bracket
- CR441ARM Door Closer Arm (Main and Regular Forearm)
- CR441EXT Extended Long Arm (3" extension) for Top Jamb with reveals
- TRACK441 Slide Track Arm with Hold-Open
- CR18PA Drop Plate for Parallel Arm Mounting Top Rail is less than 5 ½"
 Measured from Stop. Plate Requires 2" Minimum Top Rail
- CR18 Drop Plate used where Top Rail is less than 3 3/4"
- CR18TJ Drop Plate for Top Jamb where Face is less than 3 ½"
- CR18G Drop Plate for Top Jamb Mounted Closer Flush with Top of Head Frame Face in Flush Ceiling Condition. Plate Requires 1 3/4" Minimum Head Frame





CR441 SERIES: OPTIONAL INSTALLATION



MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)

OPTIONAL INSTALLATION ARMS

- CR3049HO Non-Handed Hold Open Arm with Parallel Bracket
- CR441ARM Door Closer Arm (Main and Regular Forearm)
- CR441EXT Extended Long Arm (3" Extension) for Top Jamb with Reveals
- TRACK441 Slide Track Arm with Hold-Open
- CR3049HOSPRING Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Spring Loaded Stop in Soffit Shoe
- CR3077SPRING Super Rigid Non-Handed Parallel Arm with Spring Loaded Stop in the Soffit Shoe
- CR3049HOSRPS Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Stop in Soffit Shoe
- CR3049SPAS Super Rigid Parallel Arm Stopper, Non-Handed with Stop in Soffit Shoe
- CR3077HDAR Non-Handed Parallel Arm Features Forged, Solid Steel Main and Forearm for Potentially Abusive Installations

BRACKETS

- CR18PA Drop Plate for Parallel Arm Mounting Top Rail is less than 5 ½" Measured from Stop. Plate Requires 2" Minimum Top Rail
- CR18 Drop Plate Used Where Top Rail is less than 3 ¾
- CR18TJ Drop Plate for Top Jamb where Face is less than 3 ½"
- CR18G Drop Plate for Top Jamb Mounted Closer Flush with Top of Head Frame Face in Flush Ceiling Condition.
 Plate Requires 1 3/4" Minimum Head Frame
- CR441PA Parallel Arm Bracket





CONCR441 - DUAL CLOSER CONNECTOR KIT

CONCR441KIT

Includes:

Steel Connector, Sleeve Nut, Steel Mounting Plate, Screws and Primary Closer Cover

(Does not include closers)





CR441 / TNDM

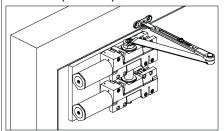
Includes: CONCR441KIT, 2 x CR441 Door Closers (Includes 2 complete boxes of regular door closers)

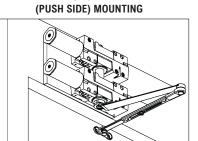


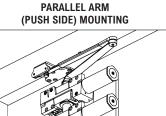
TOP JAMB



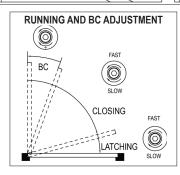
REGULAR ARM (PULL SIDE) MOUNTING

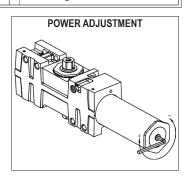






POWER ADJUSTMENT AND DOOR WIDTH					
X WIDTH	ADJUSTING NUT AND TURNS				
INTERIOR					
5 lb-f	-5 (counter clockwise)				
34" (864)	-2 (counter clockwise)				
38" (962)	0				
48" (1219)	+5 (clockwise)				
54" (1372)	+10 (clockwise)				
60" (1524)	+15 (clockwise)				
	IX WIDTH INTERIOR 5 lb-f 34" (864) 38" (962) 48" (1219) 54" (1372)				





When a single door closer is not strong enough to close a door weighing $260 \sim 520$ lbs, the **CONCR441KIT** allows two CR441 Series Grade 1 Door Closers to work as one, by connecting them together with the high-tensile strength steel connector sleeve nut on a steel mounting plate, doubling the strength and the door weight capacity while maintaining the opening force.

FEATURES

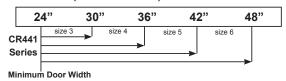
- Connects Two CR441 Series Door Closers
- For Doors 260 ~ 520 lbs Weight
- Can be Used for Regular Arm, Top Jamb or Parallel Arm Mounting
- Easy Mounting
- High Tensile Strength Steel Connector Sleeve Nut
- 12 1/8" x 7" x 3/16" Steel Mounting Plate
- 4" x 1/4 20" x 2 1/8" Mounting Screws

TABLE OF SIZES

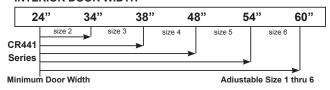
Closing power of CR441 closers may be adjusted 50%

Shows recommended range of door width for closer size.

EXTERIOR (and VESTIBULE) DOOR WIDTH



INTERIOR DOOR WIDTH







CR441EHO - CR441 WITH ELECTRONIC HOLD-OPEN TRACK

DOOR CLOSER BODY FEATURES

- Full Cover Multi-size
- · Full Feature Closer
- ANSI A156.4 Grade 1
- UL Listed, Conforms to Standards
- UL10C and UBC7-2-1997
- BHMA Certified Lifetime Warranty
- Electronic Hold-Open Track

CR441 EHO FEATURES

- Heavy Duty Electronic Closer / Holder Track for CR441 Door Closers
- Designed for Single Point Hold-Open for Fire and Smoke Barrier Doors
- Designed to Hold Doors Open in Normal Use and Close Under Fire Conditions
- · Adjustable Hold-Open Force
- Functions as a Full Rack and Pinion Closer when Hold-Open is Not Engaged or Current is Interrupted
- Door Opening can be Adjusted on the Track Arm
- Concealed or Surface Wiring
- Interfaces with Alarm Systems
- Mounts on Either Head Frame or Stop
- Non-Handed
- Non-Sized
- 24V AC / DC Input for Holding Solenoid
- Includes Test Switch for Integrity Cycle Test





The **CR441EHO** is a Grade 1 heavy duty door closer with electrically controlled hold-open track arm. It is designed to provide adjustable hold-open for fire and smoke barrier doors.

Door is held open until current interruption releases mechanism and the door closes. It can also be interfaced to any alarm systems and has a built-in switch for integrity cycle testing.

Single lever (track) arm closer is specifically designed for interior doors.

The **CR441EHO** series door closer body is UL & cUL listed for smoke barrier or labeled fire doors. Tested and certified under ANSI Standard A156.15. Conforms to life safety code, NFPA 101. **BHMA** Certified Lifetime Warranty.

CR271PC - CR441 POCKET DOOR CLOSER APPLICATION

FEATURES

- Cal-Royal's EXTRA POWERFUL Hydraulic Door Closer Series
- Meeting The Highest Industry Standards
- ANSI A156.4, Grade 1, UL and cUL Listed
- Cast Iron, Non-Handed
- High Performance Hydraulic Fluid
- Higher Tensioned Steel Spring
- High-Demand Performance Applications
- Heavy Duty Double Lever Forged Steel Arm with Extra Smooth Action



NOT FOR USE with conventional hinges or latching hardware

CR271PC is the CR441 Series' Pocket Door Closer. It is the same CR441 (cylinder) body specially re-engineered for pocket door closer applications. It uses a higher tensioned steel spring, combined with a high-performance hydraulic fluid to withstand high-demand performance applications. Due to the higher force required to open the door 180 degrees, a heavy duty lever forged steel arm was designed 1" longer than the standard CR441 arm for an extra smooth action.

