CAL-ROYAL PRODUCTS, INC.

6605 Flotilla St., City of Commerce, CA 90040-1614
TEL: (323) 888-6601 ◆ FAX: (323) 888-6699
Email: sales@cal-royal.com Website: www.cal-royal.com

To: Cal-Royal Customers

In our continuing effort to better serve our valued customers we are pleased to announce the implementation of order status and shipping information via email.

You can now receive the following information by email:

- **Purchase order confirmations**
- **Tracking numbers**
- **Product specials**
- **New product updates**

To sign up for this free service please fill out the form below and fax it back to Cal-Royal at 1-800-222-3316.

Please print all information below:

Cal-Royal Account Number:_____

Contact Name: _____

Company Name:_____

Address:_____

City:_____

State:_____

Zip:_____

Phone:_____

Fax: _____

Email Address:_____

(PLEASE PRINT)

At this time we can **only enter 1 email address per customer** into our system.
Please select a person in your organization who ca forward the information on to others.

Thank you for your business.

CAL-ROYAL PRODUCTS, INC.

NEW PRODUCTS UPDATE

February 2010

TO OUR VALUED CUSTOMERS:

We are pleased to announce the addition of two new products and designs to further enhance and expand our current line of fine architectural and residential builder's hardware.

We have also included in our website our Builders Hardware spec sheets for submittal purposes. You may download or print the items directly from our website at www.cal-royal.com, just click on the "SPECIFICATION SHEETS IMAGE" and it will let you choose among the different items we carry. Enclosed is a sample of the sheet for your reference.

LOCKSETS AND DEADBOLTS

CALYPSO SERIES

- New Extra Heavy Duty ANSI Grade (1) Cylindrical Lever set available in all functions including IC Core in US26D finish. Comparable to YALE, HAGER & PDQ

EPIC 800 SERIES

- New ANSI Grade (3) keyed function available with 5-pin Schlage C keyway, 2 ¾" backset and ASA Strike. Available in major US finishes.

POLYGON SERIES

- Heavy duty cylindrical locksets
- ANSI Standard A156.2, Grade 2 UL-Listed
- Equivalent to Schlage Plymouth Style Design
- US32D Stainless Steel In Stock
- Functions: Entrance, Storeroom, Classroom, Storelock, Communicating, Institution, Privacy, Passage, Single Dummy and Exit

CRCODE-101

- Heavy duty mechanical lock now available for 9800 and 9900 Series Grade (1) exit devices. Easy installation, entry can be by code or by key. Up to 8000 code combinations. No need to remove lock when changing code. Code can be changed easily.

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EXIT DEVICES

- 5000 Series Exit Lever Trims 8000L, 8000S and 8000/PAS has been redesigned with a larger rose & security studs 2 ¾" CTC & covers 161 prep.
- 9800 Series Escutcheon Lever trims are now available in two new designs in all finishes. Part # RLESC9800 & ATESC9800
- 9900,9800,2200 SERIES ENT00L Entrance & STR05L Storeroom lever trims are now available with Schlage Large Interchangeable core format in US26D & 10B finishes.

ITEM#	DESCRIPTION	FINISHES	LIST PRICE
ICSCENT00L 4	Clutch entrance, key locks / unlocks lever trim ANSI FUNCTION (08) – operates as classroom function	US10B, 26D	$ 109.18 EA
ICSCSTR05L 4	Clutch storeroom, key operates lever trim ANSI FUNCTION (04)		

- Overlapping strike and shim kits are now available for 9900 series exit devices for use on double doors

SURFACE OVERHEAD DOOR HOLDERS

- CR550 SERIES is now available with Stop Only (UL Listed) and with Hold Open and now available in 4 popular sizes and 2 major finishes. Comparable to Glynn Johnson, Rixon, Dorma & ABH

MISCELLANEOUS DOOR HARDWARE

- New Heavy Duty Magnetic Latch comparable to IVES #327 Magnetic Latch is now available. Part# HDMC 3270
- New Triple Pole Magnetic Latch comparable to IVES #323 Magnetic Latch is now available. Part # TPMC 3230
- New Adjustable Nylon Roller Latch comparable to IVES #335 Roller Latch is now available. Part # ARCT 3350
- Universal Dome Stop is now available in all major finishes. Part # UNDS 14

We wish to thank you for your business and support as we strive to expand and update our product line.

If you need additional copies of these inserts, please print it from our website www.cal-royal.com.

Yours Sincerely,

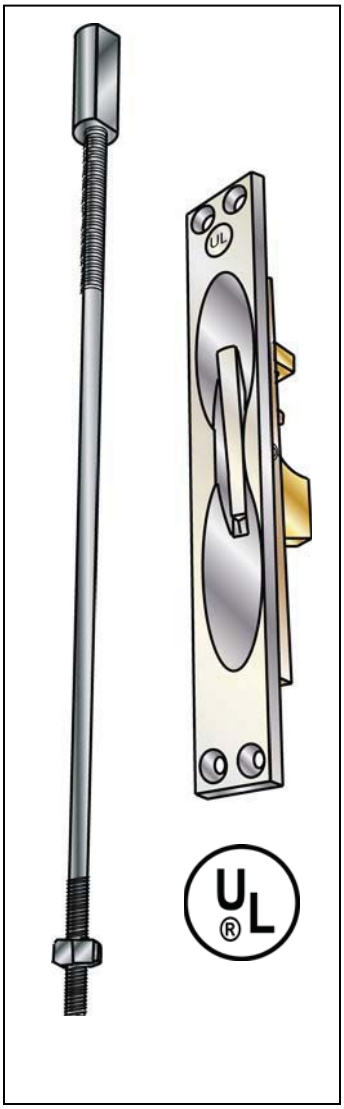
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ULFB634

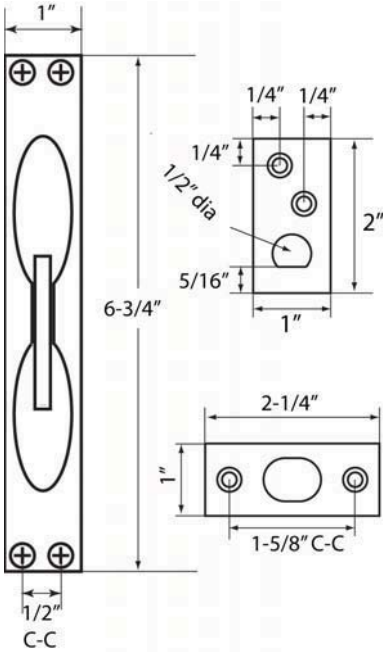
Manual Flush Bolt

The lever can be moved to the “UP” position whenever the active door is open, allowing for the retraction of the bolt and opening of the inactive leaf. To lock the closed inactive leaf, the lever can be moved to the “DOWN” position allowing the bolt to be projected into the strike securely.



Installation in metal frames requires only a punched hole. The guide is specially designed with a flat sided bolt tip to prevent rotation of the bolt. The use of strike is optional.

- Non-handed
- UL Listed for fire-rated doors
- Bolt tip is 1/2” Diameter
- Bolts have 5/8” throw with a bolt backset of 3/4”
- Standard Rod Length 12”, which is measured from the center of the flush bolt body to the bolt tip
- Conforms to ANSI/BHMA A156.16, L04251
- Optional Rod lengths available 18”, 24”, 36” and 48”
- Architectural finishes available



Dimensions	
Body Size:	1” Wide X 6 -3/4” Long X 1 -1/8” Deep
Guide Size:	1” Wide X 2” Long X 5/64” Thick
Strike Size:	1” Wide X 2 -1/4” Long X 5/64” Thick
Rod:	1/4”-20 Threaded Rod

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Phone: (323) 888-6601 • (800) 876-9258 • Fax: (323) 888-6699 • (800) 222-3316
Email: sales@cal-royal.com • Website:www.cal-royal.com

CORPORATE OFFICE
CAL-ROYAL PRODUCTS INC.
6605 Flotilla Street
Commerce, CA 90040-1614
Phone: 323-888-6601/ 800-876-9258 ✦ Fax: 323-888-6699 / 800-222-3316
Email: sales@cal-royal.com

SOUTH EAST DISTRIBUTION	NORTH EASTERN DISTRIBUTION	MIDWEST DISTRIBUTION
R & S MFG. REPRESENTATIVES 12632 – 59TH Way North Clearwater, FL 33760 Phone: 727-535-2020 / 888-449-3667 Fax: 727-539-8810 Email: susan@r-syourhmsource.com	TAB INDUSTRIES, LLC 176 Westbrook Drive Honeybrook, PA 13944 Phone: 610-273-7070 Fax: 610-273-9053 Website:www.tabindustries.com	THE SHUCK GROUP 1018 Avenue "M" Grand Prairie, TX 75050 Phone: 800-984-5024 972-660-3000 Fax: 972-660-3001 Email: gregshuck@theshuckgroup.com

TERMS AND CONDITIONS OF SALE

ORDERING: All orders must be faxed to Cal-Royal products for confirmation before shipment.

TERMS: Net 30 days.

FREIGHT: Shipments are F.O.B. Commerce warehouse, for orders of $1500.00 or more, excluding Alaska and Hawaii ($2500.00 for Western Canada, $3500.00 for Eastern Canada, $3000.00 for Puerto Rico, and $1200.00 for Washington and Oregon) are shipped prepaid within the continental United States and Canada. Orders less than these amounts will be shipped freight prepaid and added to the invoice.

CHANGES, CANCELLATIONS OR SPECIAL ORDERS: Canceled orders subject to 10% service charge. Changes or cancellations to an order must be in writing and may result in additional charges for labor and/or materials. Changes may result in a delay in the scheduled ship date. Additions to orders will be entered as separate stand-alone orders and must qualify for all terms of sale, including discounts, on an individual basis. Changes or deletions resulting in an order size of less than our minimum will not be accepted. **Orders for non-cataloged, special or nonstandard items may not be canceled.** Factory orders may not be changed within 30 days of the scheduled ship date.

CREDIT APPROVAL: Acceptance of all orders is subject to approval of Cal-Royal Products, Inc. Trade references and banking information must accompany orders from new accounts.

FREIGHT OR SHORTAGE CLAIMS: Customer assumes all delivery risks of loss or damage. If cartons are lost or damaged, immediately contact delivering carrier to make claim. If assistance is needed from Cal-Royal Products, Inc. please contact our Claims Department. Shortage claims must be made within **seven** working days from receipt of shipment. Cal-Royal Products, Inc. is not responsible or liable for any loss or shortage on merchandise to third party shipping.

RETURN OF MERCHANDISE: Claims for shortages and/or incorrectly filled orders must be filed with Cal-Royal Products, Inc. within 10 days of receipt of material. Price adjustments must also be made in writing to Cal-Royal within 30 days from receipt of invoice. No returned goods will be accepted without written approval from Cal-Royal. Credit will be based on upon the written authorization by Cal-Royal. Such returns must be prominently marked with the return goods authorization number and shipped prepaid. Returns, if approved, will subject to a minimum restocking charge of 20% for unopened cases of stock product and must be received in mint condition. Non stock materials are not returnable. Under no circumstances is Cal-Royal liable for incidental or consequential damages. Charge-backs will not be allowed. No cash refund given, only exchange or replacement only.

CAL-ROYAL PRODUCTS, INC.

MERCHANDISE WARRANTY: Goods are warranted against defects in manufacture for one year. The company makes no other warranty, and all implied warranties including any warranty of merchantability or fitness for a particular purpose are limited to the duration of the expressed warranty period as set forth above.

The company's maximum liability hereunder is limited to the purchase price of the products in no event shall the company be liable for any consequential, indirect, incidental or special damages of any nature arising from the sale or use of this product, whether in contract, tort, strict liability or otherwise.

Products will not be accepted for repair or replacement under this warranty unless we have given prior authorization for their return. Upon receipt of products returned for repair or replacement we will determine whether products qualify for repair or replacement under this warranty; if they do not, we will notify our customer of estimated costs of repair or replacement involved and will obtain authorization prior to proceeding. We have no liability to pay any costs of repair performed by anyone other than us, unless in each instance we have given prior written approval of such repair in which case we will pay what we consider to be the reasonable cost thereof.

All materials and finishes meet ANSI/BHMA standards at time of shipment. We do not warrant finishes exposed to hostile environments, such defect has been caused by corrosion or ordinary wear and tear.

Cal-Royal Lifetime Limited Warranty

The Cal-Royal Products listed below are warranted against defects in mechanical workmanship and 3 year finish warranty for the life of the opening into which they are installed. This warranty is valid only if the products are installed according to the manufacturers explicit directions, are the correct application for the opening in question (i.e.: a grade 2 lock is not acceptable in a school or university application) and those products that require adjustment at installation are adjusted correctly. It is assumed that if either the door or frame components in the opening has been violated and therefore the Warranty of those Cal-Royal products in that opening would be null and void. It is also assumed by this Warranty that those products that require periodic adjustment or maintenance are receiving that attention through the life of the opening.

This warranty DOES NOT COVER:

1. Abuse or vandalism
2. Products used in an incorrect application
3. Scratches or normal wear in a products finish (Does not cover US10B/613)
4. Products that have been improperly installed or adjusted
5. Any Product installed in a hostile environment causing premature corrosion, wear and tear
6. The cost incurred in removing and installing a replacement product. Upon return of defective product to CAL-Royal Products, Cal-Royal may repair or replace the product or refund the purchase price. Cal-Royal is not liable for incidental or consequential damages.

The products that are covered by the above Lifetime Limited Warranty are:

1. All commercial Grade Hinges.
2. All Grade 1 Locks – Mortise and Cylindrical Locksets.
3. Pioneer, Commander, Explorer and Barrington Grade 2 locksets.
4. All Grade 1 & 2 Deadbolts.
5. All Grade 1 Door Closers.
6. All Grade 1 Exit Devices.

STANDARD PACKAGING: We reserve the right to change order quantities to nearest standard package quantities. Broken boxes are subject to an additional 20% service charge.

AUTHORITY OF TERMS AND CONDITIONS: The terms mentioned herein are the only ones Cal-Royal Products, Inc. will honor, and any exceptions must be approved and confirmed by an officer of Cal-Royal Products, Inc. Terms and Conditions of buyer's purchase orders will not be honored unless an agreement is reached in writing beforehand. Cal-Royal Products Inc. has the right to refuse credit to anyone, or has the right to reuse to fulfill any orders. No representations, arrangements or agreements not appearing on the order shall be binding to Cal-Royal Products, Inc.

PRICES: Are subject to change without notice. All errors and omissions subject to correction.

MINIMUM ORDER: $50.00 net. Orders under $50.00 are subject to an $8.00 service charge.
NO EXCEPTIONS.

CAL-ROYAL PRODUCTS, INC.

May 15, 2008

To Whom It may Concern,

This is to verify that “Cal-Royal Products, Inc.” is a major supplier of door hardware field. We are currently supplying door hardware to many national hotel chains. Many architectural firms in the U.S. and International market have approved our door hardware products. We assure you our products are of the highest quality. All our products meet or exceed all ANSI and UL specification for the U.S. market.

The following list is sample of the hotels and U.S. government agencies, which our products were approved and are still quite satisfied with our product line. These hotels and government facilities are located in the international and domestic market.

Private, Government Organizations and Hotel List

Four Seasons Hotel	Egypt		
JW Marriott & Marriott Hotels	Worldwide	Monte Carlo Hotel	Las Vegas, NV
Sheraton Hotels	Worldwide	Circus Circus Hotel	Las Vegas, NV
Westin Hotels	Worldwide	MGM Hotel	Las Vegas, NV
Hilton & Double Tree Hotels	Worldwide	Sheraton Hotel	New Orleans, LA
Holiday Inn / Holiday Inn Exp	Worldwide	Oasis Hotel	Cancun, MX
Comfort Inns	Worldwide	Comfort Inn Suites	Duluth, GA
Red Rood Inns	Worldwide	West Side Church	Lexington, KY
Radison Hotels	Worldwide	Comfort Inn Suites	South Bend, IN
Sun Suite & Affiliates	Worldwide	Don Cesar Beach Resort	Florida
Embassy Suites	Worldwide	Whitney Manor	Cheshire, CT
San Stefano Four Seasons Hotel	Egypt	Sun Suites	Georgia
Sofitel Pyramid Hotel	Egypt	Spring Hill Suites	Ft. Lauderdale, FL
Cairo Airport	Egypt	Hawthorn Suites	Indianapolis, IN
Intercontinental Hotel	El Gouna, Egypt	First Assembly of God	Delphi, IN
Kuwait Embassy	Cairo, Egypt	Resolute Child Development	Indianapolis, IN
American Embassy	Maadi, Egypt	Christ the Savior Church	Indianapolis, IN
McGuire (Air Force Base)	Wrightstown, NJ	Far best Foods	Indianapolis, IN
US Federal Court Office Building	Washington D.C.	Free Methodist Church	Murfreesboro, KY
IRS Office Buildings	U.S.A.	Southport Christian Church	Southport, IN
Dover Air Force Base	Dover, Delaware	Country Inn & Suites	Marion, IN
International Trade Offices	Portsmouth, ME	Valley Mills Christian	Owensboro, KY
YMCA Offices	S. Portland, NH	First Lutheran Church	Louisville, KY
Pentagon Office Buildings	Washington D.C	Universal Towers	Orlando, FL
Beals Dept. Stores	Florida	Any Mohr Ford Dealership	Plainfield, IN
US Customs Office Buildings	Tampa, FL	Various Amusement Parks in Florida	Florida
Cook Building Office Buildings	Bloomington, IN	Auction Broadcasting Offices	Indianapolis, IN
Ohio State University	Columbus OH	AMLI @ Riverbed Rehab Offices	Indianapolis, IN
North State University	Denton, TX	Howard Johnson	Albany, GA
Philadelphia School District	JFK Center	Olympia Park Hotel	Salt Lake City, UT

We thank you for your interest in Cal-Royal Products, Inc. and we have we can serve you in the near future in all your hardware needs for the hotel and commercial buildings.

Yours truly,

Kaye Yashar
President

CAL-ROYAL PRODUCTS, INC.
6605 Flotilla Street, Commerce, CA 90040
Tel: 323-888-6601 ✦ Fax: 323-888-6699

Introduction to Cal-Royal Products, Inc.

Cal-Royal Products, Inc. was incorporated in California in 1983. From the beginning our management and staff have been dedicated to the needs of our customers. Cal-Royal currently has three (3) warehouses nationally. Our corporate office and main facility are located in Commerce, California additionally we have satellite warehouses in New Jersey and Georgia.

Cal-Royal has focused on providing "Innovative and Value Added" hardware products and accessories to the builders industry. In accepting this charter Cal-Royal has continued to be the leader in import hardware. Our product offering is designed to comply with the Americans with Disabilities Act (ADA) and to encompass all levels of ANSI classification, Grades 1, 2 and 3 as well as UL requirements.

In keeping with our tradition of innovation Cal-Royal is one of just three (3) manufacturers providing the (Genesys, Grade 1) Clutch System for lever locks. This system provides superior design and value by deterring damage to levers from misuse or vandalism. We offer a complete line of mortise locks, exit devices, door closers hinges and many other hardware and trim products.

Cal-Royal has provided hardware for many notable projects built or renovated in the past 10 years. The MGM Grand Hotel in Las Vegas, the Pentagon in Washington D.C. and several buildings of the Internal Revenue Service to name just a few. Additionally, we have provided products for Hilton and Marriott Hotels, several Federal courthouses and thousands of commercial buildings, hospitals, and retail stores.

For review and information, Cal-Royal Products, Inc. is the vision of its founders Mr. Sina Yashar and his sons Kaye and David. All three remain active in the daily operation of Cal-Royal. The senior Mr. Yashar was a prominent international businessman prior to founding Cal-Royal. Kaye was educated in England and received a degree in Computer Science with David taking the more traditional route and earning his degree in Business Marketing. Their combined drive, ambition and knowledge has propelled Cal-Royal to the position it holds today as a leader in manufactured and imported hardware.

Cal-Royals' commitment is to provide the highest quality service and value to our customers. Each member of our staff has been trained and is a knowledgeable professional. Please consider our company and team for your future hardware requirements.

Respectfully,

Cal-Royal, Products Inc.

CAL-ROYAL PRODUCTS, INC.

6605 Flotilla Street, CITY OF COMMERCE, CA 90040 U.S.A.
TEL: 323-888-6601 ◆ FAX: 323-888-6699

TO WHOM IT MAY CONCERN

It is our understanding that the "Buy American Act" is incorporated into government specifications. This act states that all products sold to the U.S. Government must be manufactured in the United States.

However, there is a general exemption to the "Buy American Act" that relates to all countries. Section 10A of the act exempts foreign products when the American product is unreasonable in price.

The "Buy American Act" was enacted to give preference to domestically produced goods purchased for use by the federal government. The act of March 3, 1933 (title 41 U.S.C. section 10 A-D), stipulates that federal agencies buy only goods mined, produced or manufactured in the United States except in cases where (1) U.S. goods are not available in sufficient quantity and subsequent executive orders 10582 and 11051 further define the preference provided for the "Buy American Act" as six percent preference in favor of U.S. goods.

Section 2A of executive order 11051 dated September 27, 1962, defined unreasonable costs of American products as when the American product sells more than 6% over the foreign product. If this is the case, any foreign product from any country is exempt from the "Buy American Act".

Cal-Royal products are competitively priced and in most cases offer greater than 6% savings over domestic products. In such circumstances it is our opinion that our products are exempt from the "Buy American Act".

One other important point is that most of today specifications are based on performance standards. Cal-Royal commercial grade products meet and/or exceed every ANSI definition of quality or requirement for performance standards.

It is with total confidence that Cal-Royal offers these products as equal in quality and the edge in quality and the edge in competitive pricing.

CAL-ROYAL PRODUCTS, INC.

ARMED SERVICES ASSOCIATION
WASHINGTON, D.C.

RE: United States Military Purchasing Directory

DATE: 6/18/04

VENDOR NUMBER: 152908349

Director of Government Sales
Cal-Royal Products Inc
6605 Flotilla St.,
Los Angeles, CA 90040

Dear Director of Government Sales:

Our records from the Defense Logistics Agency indicate that your company is currently registered in the Central Contracting Registry (CCR). Your registration qualifies you to do business with the Department of Defense (DoD), and makes you eligible to be listed in the United States Military Purchasing Directory.

The Directory is distributed to all purchasing offices throughout the DoD every fiscal year. Purchasing officers and DoD contracting personnel specifically use the Directory to locate vendors from whom they will buy goods and services .

Vendors registered with the CCR are eligible to be listed in the Directory, or place display ads, to further market themselves to military buyers. If you are interested in being listed in the Directory for the upcoming fiscal year, you can request information from our offices in Washington, D.C. by calling 1-800-981-3845 , Mon.-Fri., 9:00am-4:00pm, E.S.T.

The information will be faxed to you immediately.

Sincerely,

Michael Briggs

Michael J. Briggs
A.S.A. Vendor Relations Office

P.O. BOX 42186 WASHINGTON, D.C. 20015-0786 1-800-981-3845 FAX 1-800-981-3846

CAL-ROYAL PRODUCTS, INC.

6605 FLOTILLA STREET, CITY OF COMMERCE, CA 90040
TEL: (323) 888-6601 ♦ FAX: (323) 888-6699
(800) 876-9258 ♦ (800) 222-3316

CREDIT APPLICATION

DATE:_____

Company Name _____

BILLING ADDRESS: _____

CITY:_____ STATE:_____ ZIP:_____

Shipping Address _____

CITY:_____ STATE:_____ ZIP:_____

PHONE:_____ FAX:_____

Type of Business: _____ Years at present location:_____

Type of Organization

☐ Private Corporation ☐ Partnership ☐ Public Corporation
☐ Individual ☐ Other _____

Email Address _____

_____

_____

Principals

NAME	POSITION	HOME ADDRESS	PHONE#

Bank Reference

Bank: _____ Account # _____

Address: _____ Phone # _____

Trade References (Minimum of 3 With fax #)

NAME	ADDRESS	PHONE#	FAX#

Credit Limit Requested

NEED MONTHLY STATEMENT: ☐ **YES** ☐ **NO**

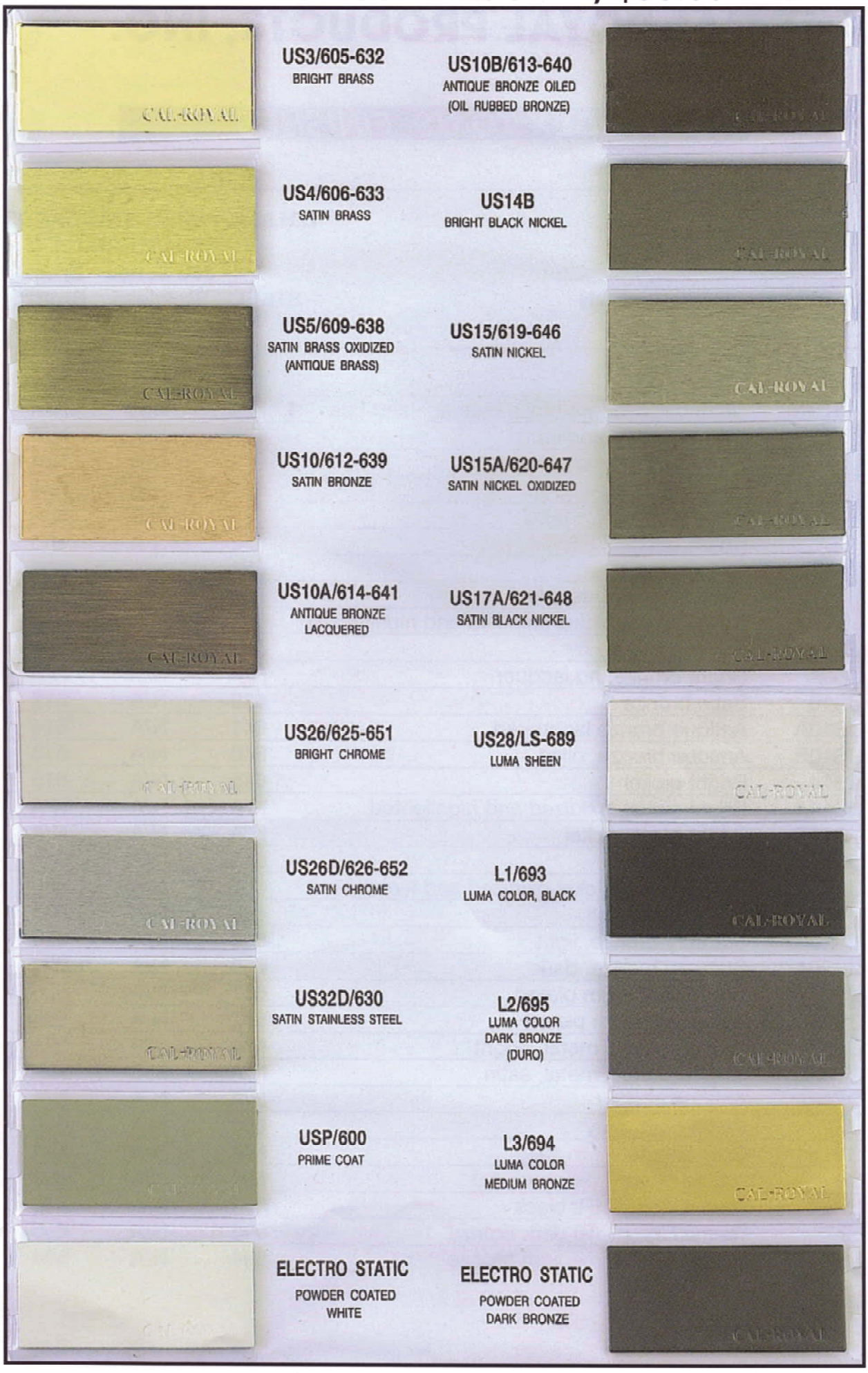
In making this application for credit, the customer agrees to pay all invoices within 30 days from date of invoice and to pay a service charge of 1.5% per month, which is an annual percentage rate of 18% on all overdue balances. n the event a suit is necessary to collect any amount, the customer agrees to pay the seller's reasonable attorney fees and costs including attorneys fees for appeal.

Signature ►►► ► _____ Title: _____ Date: _____

◆◆◆ OFFICE USE ONLY ◆◆◆

Credit limit $		Account #	
Date approved:		CR#	
Signature:		Discount:	
Reps Signature		Date	

ARCHITECTURAL FINISH GUIDE BOOKLET, $56.00 EACH LIST



CAL-ROYAL PRODUCTS, INC.

INDEX TO US. FINISHES

US	DESCRIPTION	B.H.M.A. FINISH STANDARDS BASE MATERIAL STEEL	300 Series Stainless Steel	Brass/ Bronze
US1B	Bright Japan	601	N/A	601
US1DM	Dead black-bright brass bearings and tips	N/A	N/A	N/A
US2C	Zinc plated, commercial	602	N/A	N/A
US2CD	Zinc Plated, satin	603	N/A	N/A
US2G	Zinc plated, gov, spec.	603	N/A	N/A
US2H	Hot dipped galvanized	N/A	N/A	N/A
US3	Bright brass	632	N/A	605
US4	Satin brass	633	N/A	606
US5	Satin brass, oxidized	638	N/A	609
US7	Bright brass, nickel oxidized and highlighted	636	N/A	610
US9	Bright bronze	637	N/A	611
US9A	Bright bronze, no lacquer	N/A	N/A	N/A
US10	Satin bronze	639	N/A	612
US10A	Antique bronze lacquered	641	N/A	614
US10B	Antique bronze, olied	640	N/A	613
US14	Bright nickel	645	N/A	618
US14A	Bright nickel, oxidized and highlighted	N/A	N/A	N/A
US14B	Bright black nickel	N/A	N/A	N/A
US15	Satin nickel	646	N/A	619
US15A	Satin, nickel, nickel oxidized and highlighted	647	N/A	620
US17A	Black nickel dull	648	N/A	621
US20	Statuary bronze, light	649	N/A	623
US20A	Statuary bronze, dark	650	N/A	624
US26	Bright chromium plated	651	N/A	625
US26D	Satin chromium plated	652	N/A	626
US32	Stainless steel metal, bright	N/A	629	N/A
US32D	Stainless steel metal, satin	N/A	630	N/A
OC	Antique copper	N/A	N/A	N/A
USP	Prime coat, grey	600	N/A	600
GY	Grey enamel	N/A	N/A	N/A
LS	"Luma Sheen" (R)	689	N/A	689
L1	"Luma Color" (R) black	693	N/A	693
L2	"Luma Color" (R) dark bronze	695	N/A	695
L3	* Luma Color" medium bronze	694	N/A	694

CAL-ROYAL
PRODUCTS, INC.



900 Series Door Closer

Full Cover Multi-size Full Feature Closer
ANSI 156.4 Grade 1

UL Listed. Conforms To Standards
UL10C and UBC7-2-1997

- CAL-ROYAL'S FINEST DOOR CLOSER SERIES MEETING THE HIGHEST INDUSTRY STANDARDS, GRADE 1
- HEAVY-DUTY FULL FEATURE MULTI-SIZE COMMERCIAL DOOR CLOSER FOR USE IN OFFICE BUILDINGS, SHOPPING CENTERS AND OTHER COMMERCIAL BUILDINGS
- STANDARD BACK-CHECK FUNCTION
- FULL PLASTIC COVER IS STANDARD FEATURE. (METAL OPTIONAL)
- DECORATIVE COVERS (US 3, US 26) ARE AVAILABLE
- OPTIONAL ADJUSTABLE DELAYED ACTION/BARRIER FREE FOR HANDICAPPED OR ELDERLY

Lifetime Warranty

BHMA CERTIFIED

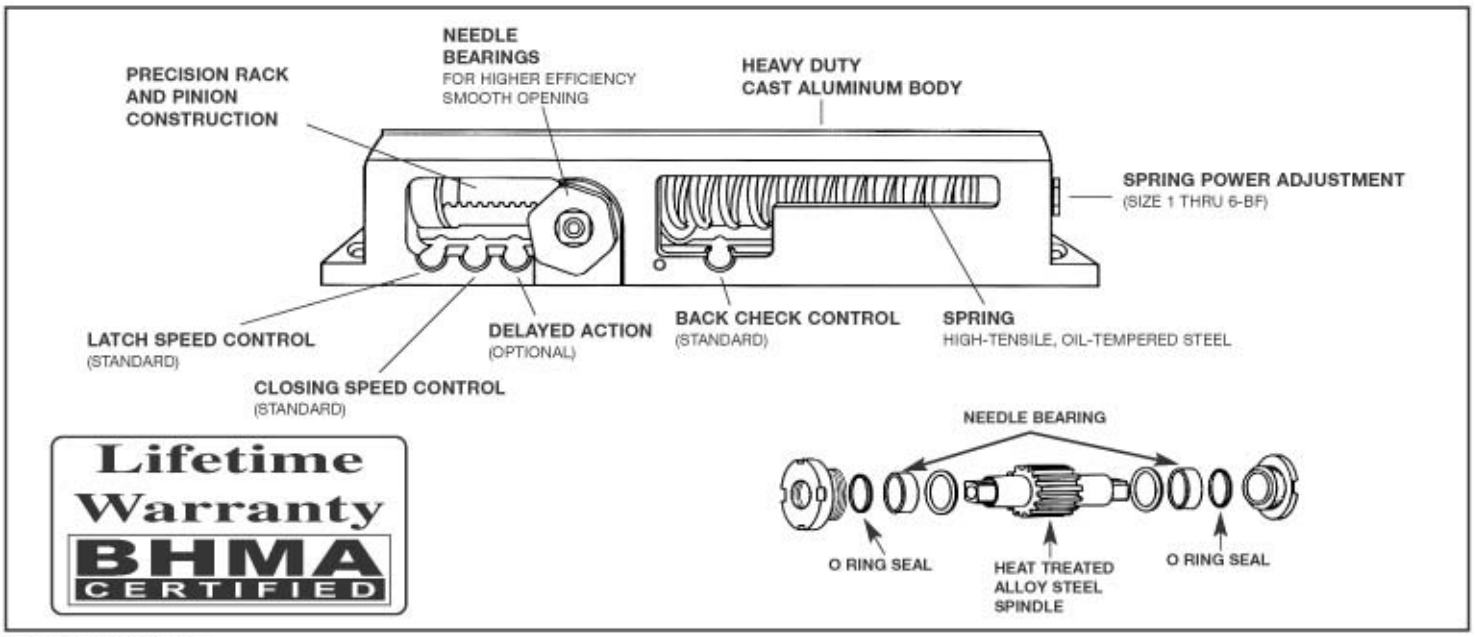
UL Listed. Conforms To Standards
UL10C and UBC7-2-1997

CAL-ROYAL
PRODUCTS, INC.

900 Series Door Closer

UL LISTED

Conforms To Standards UL10C and UBC7-2-1997



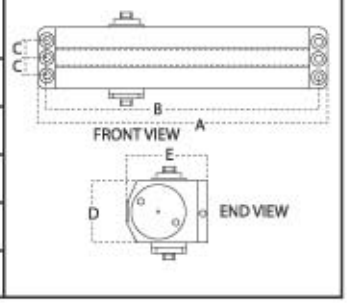
FEATURES

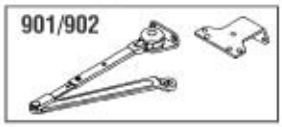
- Universal application. Non-handed for standard, top-jamb or parallel arm installation
- Non-sized, 1 thru 6 FACTORY PRESET SIZE 3
- Standard adjustable back-check function
- Adjustable closing and latching speed by two separate regulating valves
- Standard full plastic cover
- Extended long arm for top jamb mount with deep reveals. 900 EXT
- ANSI 156.4 Grade1: UL listed for fire door assemblies
- Available in Alum, Duro, Gold, US3, 26, 26D, 10A and US5 Finishes
- 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
- Barrier free (BF) Meets ADA regulation.
  Size 1 thru 6. Engineered with reduced spring power to provide easier opening for handicapped or elderly.

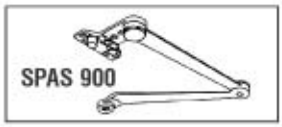
ACCESSORIES

- Parallel hold-open adjustable arm (Non handed). 901/902
- Fusible link hold-open arm (Non handed). FUS707 melting point of 125° F (52°C)
- Optional Metal cover
- Optional , non-handed parallel arm features solid forged steel main arm and forearm with stop in soffit shoe. SPAS/900
- Optional, non-handed parallel arm features solid forged steel main arm and forearm provides hold-open function with templated stop/hold-open points. Handle controls hold-open function. HOSRPS/900
- Slide track arm. TRACK/900 with hold open
- Flat drop bracket 950

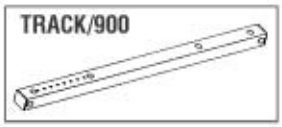
DESCRIPTION	SIZE
A. Length of Closer Body	11 3/4"
B. Horizontal Mounting Holes	11 1/8"
C. Vertical Mounting Holes	9/16"
D. Width of Closer Body	2"
E. Projection from Door	2 7/8"













CROSS REFERENCES

CAL-ROYAL	CORBIN	DORMA	LCN	LCN	NORTON	RUSSWIN	SARGENT	YALE
900 FULL COVER	120K	7800FCOV/ 7600FCOV	1460-72G	4040	8501	2820K	1230	3501

The data on this chart represents our judgement of which are most similar. Since no product is exactly alike the information has been obtained from trade sources. It is not guaranteed nor represented that any specific product exactly equals any other product. Door closer body size may be different.

CAL-ROYAL
PRODUCTS, INC.

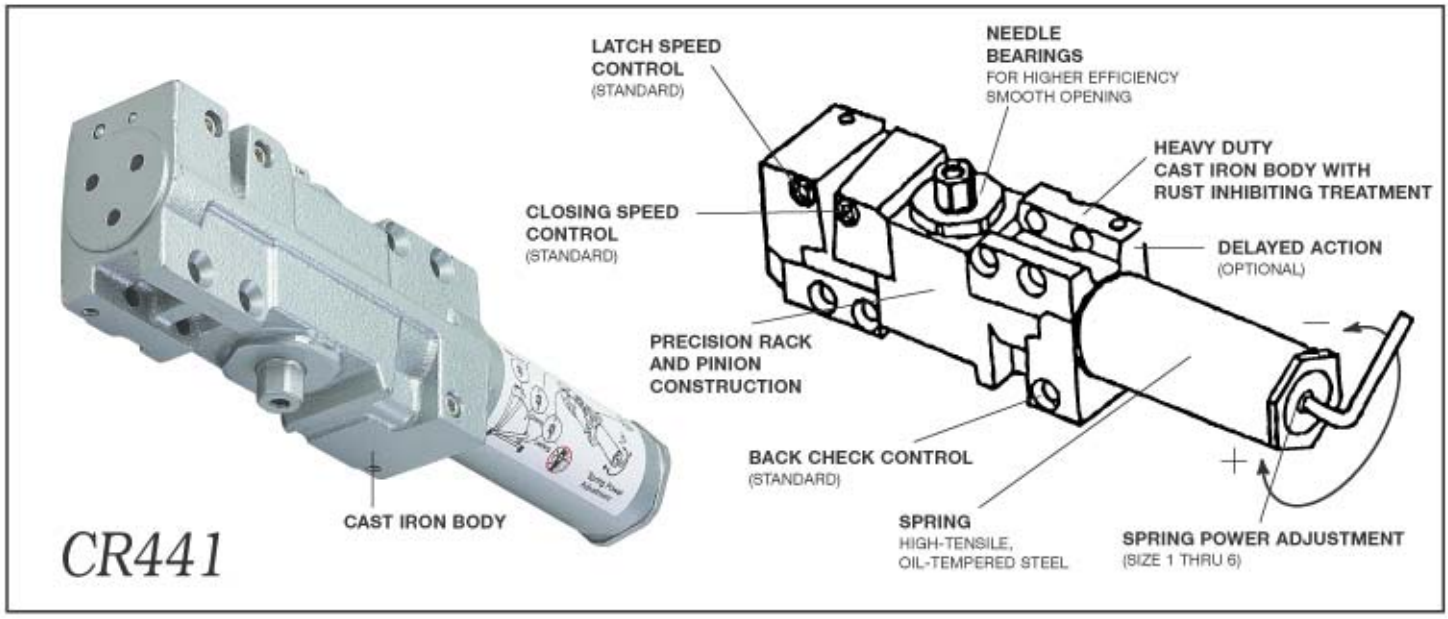
6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com • Email: sales@cal-royal.com

Lifetime Warranty

BHMA CERTIFIED



*** SAME HOLE PATTERN AS LCN 4040/4041**



- CAL-ROYAL'S FINEST 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
- FULL PLASTIC COVER IS STANDARD FEATURE. (METAL OPTIONAL)
- DECORATIVE COVERS (US 3, US 26) ARE AVAILABLE
- OPTIONAL ADJUSTABLE DELAYED ACTION/BARRIER FREE FOR HANDICAPPED OR ELDERLY

CR441 Series Door Closer

Full Cover Multi-size Full Feature Closer
ANSI 156.4 Grade 1

UL Listed. Conforms To Standards
UL10C and UBC7-2-1997

UL Listed. Conforms To Standards
UL10C and UBC7-2-1997

CAL-ROYAL PRODUCTS, INC.

CR441 Series Door Closer

Lifetime Warranty
BHMA CERTIFIED

UL LISTED

Conforms To Standards UL10C and UBC7-2-1997

FEATURES

- Universal application. Non-handed for standard, top-jamb or parallel arm installation
- Non-sized, 1 thru 6. FACTORY PRESET SIZE 3 meets ADA.
- 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
- Self tapping screws and closer gauge for easy adjustment is standard feature.

ACCESSORIES

- Parallel hold-open adjustable arm (Non handed). CR3049HO
- Non-handed forged solid steel parallel arm for extra abusive installations. CR3077HDAR
- Optional , non-handed parallel arm features solid forged steel main arm and forearm with stop in soffit shoe. CR3077SPAS
- Optional, non-handed parallel arm features solid forged steel main arm and forearm provides hold-open function with templated stop/hold-open points. Handle controls hold-open function. CR3049HOSRPS
- Drop plate used where top rail is less than 3¾". CR18
- Drop plate for top jamb where face is less than 3½". CR18TJ
- Drop plate for top jamb mounted closer flush with top of head frame face in flush ceiling conditon. Plate requires 1¾" minimum head frame. CR18G
- Drop plate for parallel arm mounting top rail is less than 5½" measured from stop. Plate requires 2" minimum top rail. CR18PA
- Available in Alum, Duro, Gold, US3, 26 and other plated finishes.
- Optional Metal cover.

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.

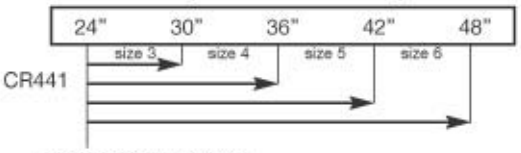
	DOOR WIDTH	36"	42"	48"
	**8.5 lbs.	CR441	CR441	CR441
	**5.0 lbs.	CR441	CR441	CR441

**Maximum Opening Force

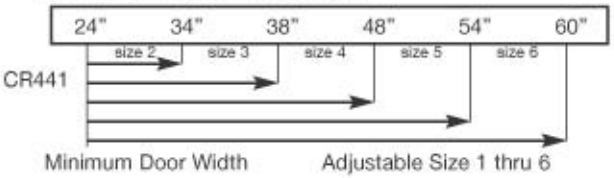
TABLE OF SIZES

Closing power of CR441 Series closers may be adjusted 50%.
→ Shows recommended range of door width for closer size.

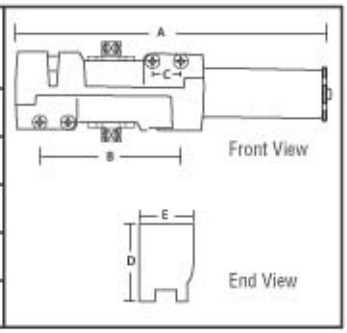
EXTERIOR (and VESTIBULE) DOOR WIDTH



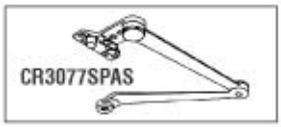
INTERIOR DOOR WIDTH



DESCRIPTION	SIZE
A. Length of Closer Body	11"
B. Horizontal Mounting Holes	5"
C. Vertical Mounting Holes	1"
D. Width of Closer Body	2 ¾"
E. Projection from Door	2"

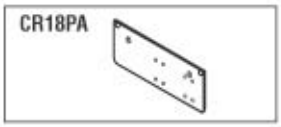












CROSS REFERENCES

CAL-ROYAL	LCN	DORMA	CORBIN	NORTON	RUSSWIN	SARGENT	YALE
CR441	4041	7800FCOV/ 7600FCOV	DC2200	7500	2820K	1230	4400

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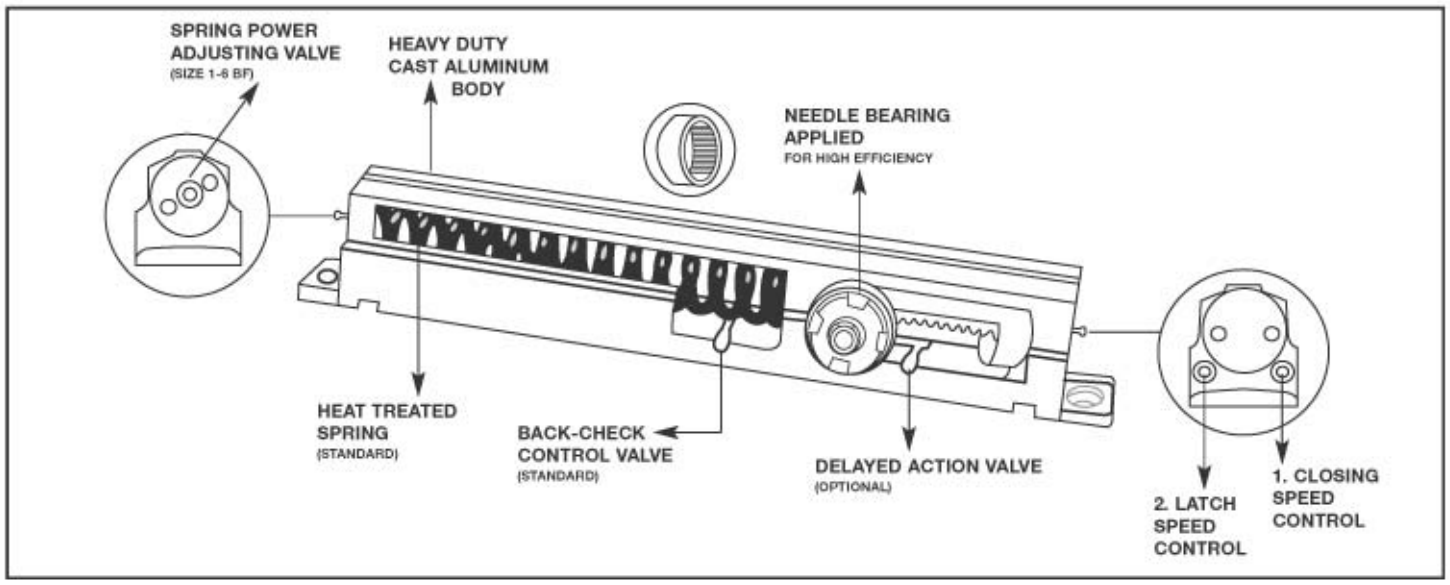
CAL-ROYAL
PRODUCTS, INC.

6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com • Email: sales@cal-royal.com



Lifetime Warranty

BHMA CERTIFIED



- CAL-ROYAL'S FINEST 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
- OPTIONAL SLIM / FULL PLASTIC COVER
- DECORATIVE COVERS ARE AVAILABLE
- OPTIONAL ADJUSTABLE DELAYED ACTION/BARRIER FREE FOR HANDICAPPED OR ELDERLY

CR801S-BF/ CR801-BF Series Door Closer

Slim / Full Cover Multi-size Full Feature Closer
ANSI 156.4 Grade 1

UL Listed, Conforms To Standards
UL10C and UBC7-2-1997

UL Listed, Conforms To Standards
UL10C and UBC7-2-1997

CAL-ROYAL
PRODUCTS, INC.

CR801S-BF / CR801-BF Series Door Closer

Lifetime Warranty
BHMA CERTIFIED

UL LISTED

Conforms To Standards UL10C and UBC7-2-1997

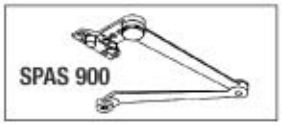
FEATURES

- Universal application. Non-handed for standard, top-jamb or parallel arm installation
- Non-sized, 1 thru 6 FACTORY PRESET SIZE 3
- Standard adjustable back-check function
- Adjustable closing and latching speed by two separate regulating valves
- Standard slim plastic cover (CR801S-BF)
- Standard full plastic cover (CR801-BF)
- Available in Alum, Duro, Gold, US3, 26, 26D, 10A and US5 Finishes

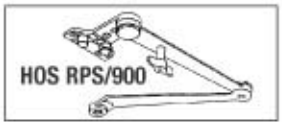
ACCESSORIES

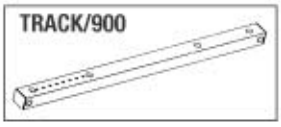
- Parallel hold-open adjustable arm (Non handed). 901/902
- Fusible link hold-open arm (Non handed). FUS707 melting point of 125° F (52°C)
- Optional Metal cover
- Optional , non-handed parallel arm features solid forged steel main arm and forearm with stop in soffit shoe. SPAS/900
- Optional, non-handed parallel arm features solid forged steel main arm and forearm provides hold-open function with templated stop/hold-open points. Handle controls hold-open function. HOSRPS/900
- Slide track arm. TRACK/900 with hold open
- Flat drop bracket 850
- Extended long arm for top jamb mount with deep reveals. 900 EXT
- ANSI 156.4 Grade1: UL listed for fire door assemblies
- 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
- Barrier free (BF) Meets ADA regulation.
  Size 1 thru 6. Engineered with reduced spring power to provide easier opening for handicapped or elderly.

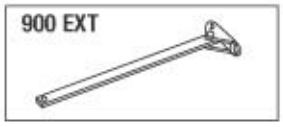












REDUCED OPENING FORCE CR801S-BF / CR801-BF DOOR CLOSERS

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.

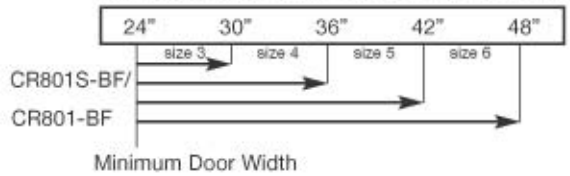
DOOR WIDTH	36"	42"	48"
**8.5 lbs.	CR8301/CR8501	CR8301/CR8501	CR8301/CR8501
**5.0 lbs.	CR8301/CR8501	CR8301/CR8501	CR8301/CR8501

**Maximum Opening Force

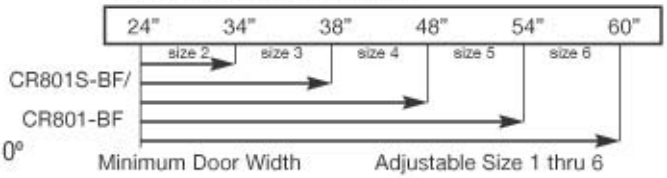
TABLE OF SIZES

Closing power of closers may be adjusted 50%.
→ Shows recommended range of door width for closer size.

EXTERIOR (and VESTIBULE) DOOR WIDTH

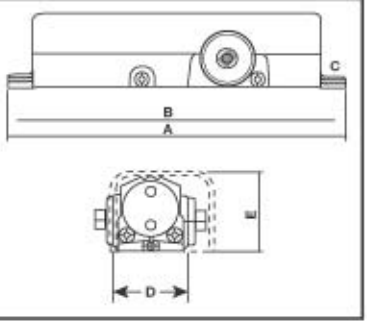


INTERIOR DOOR WIDTH



Replacement Hole Pattern As Norton CR801S-BF/CR801-BF & Yale 3301/3501

DESCRIPTION	SIZE
A. Length of Closer Body	12 ¾"
B. Horizontal Mounting Holes	12"
C. Vertical Mounting Holes	3/4"
D. Width of Closer Body	1 ¼"
E. Projection from Door	2 ⅛"



CROSS REFERENCES

CAL-ROYAL	CORBIN	DORMA	LCN	NORTON	RUSSWIN	SARGENT	YALE	DOOR-O-MATIC
CR801S-BF SLIM COVER	DC2600	7600FCOV	1460-72G	8301	9000	____	3301	SC-81
CR801-BF FULL COVER	120K	7800FCOV	1460-72G	8501	2820K	1230	3501	____

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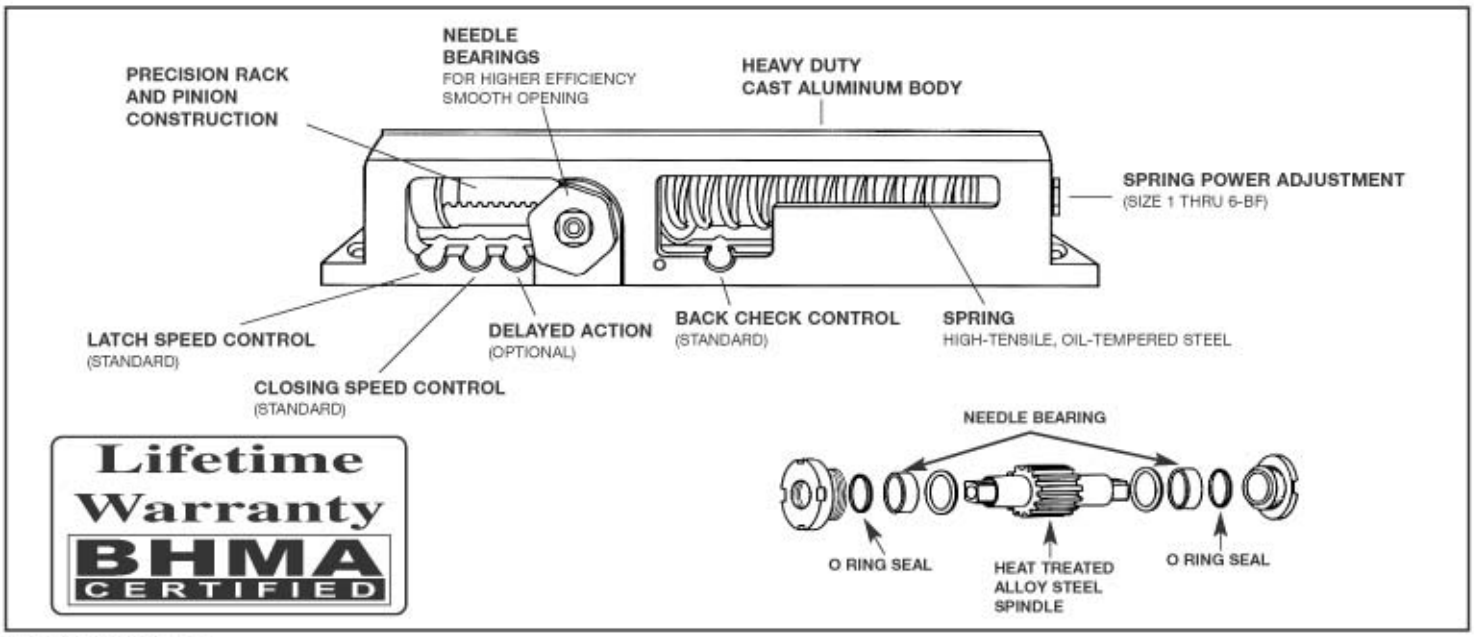
CAL-ROYAL
PRODUCTS, INC.

6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com • Email: sales@cal-royal.com

900 Series Door Closer

UL LISTED

Conforms To Standards UL10C and UBC7-2-1997



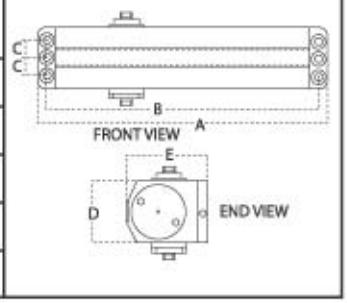
FEATURES

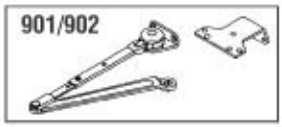
- Universal application. Non-handed for standard, top-jamb or parallel arm installation
- Non-sized, 1 thru 6 FACTORY PRESET SIZE 3
- Standard adjustable back-check function
- Adjustable closing and latching speed by two separate regulating valves
- Standard full plastic cover
- Extended long arm for top jamb mount with deep reveals. 900 EXT
- ANSI 156.4 Grade1: UL listed for fire door assemblies
- Available in Alum, Duro, Gold, US3, 26, 26D, 10A and US5 Finishes
- 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
- Barrier free (BF) Meets ADA regulation.
  Size 1 thru 6. Engineered with reduced spring power to provide easier opening for handicapped or elderly.

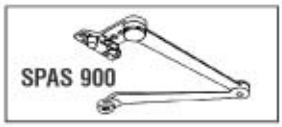
ACCESSORIES

- Parallel hold-open adjustable arm (Non handed). 901/902
- Fusible link hold-open arm (Non handed). FUS707 melting point of 125° F (52°C)
- Optional Metal cover
- Optional , non-handed parallel arm features solid forged steel main arm and forearm with stop in soffit shoe. SPAS/900
- Optional, non-handed parallel arm features solid forged steel main arm and forearm provides hold-open function with templated stop/hold-open points. Handle controls hold-open function. HOSRPS/900
- Slide track arm. TRACK/900 with hold open
- Flat drop bracket 950

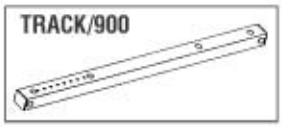
DESCRIPTION	SIZE
A. Length of Closer Body	11 3/4"
B. Horizontal Mounting Holes	11 1/8"
C. Vertical Mounting Holes	9/16"
D. Width of Closer Body	2"
E. Projection from Door	2 7/8"













CROSS REFERENCES

CAL-ROYAL	CORBIN	DORMA	LCN	LCN	NORTON	RUSSWIN	SARGENT	YALE
900 FULL COVER	120K	7800FCOV/ 7600FCOV	1460-72G	4040	8501	2820K	1230	3501

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PRODUCTS, INC.

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Website: cal-royal.com • Email: sales@cal-royal.com



700
Series Door Closer

UL listed

Optional Slim Cover.

Lifetime Warranty

BHMA CERTIFIED

UNIVERSAL MODEL OFFERING VERSATILITY AND PRECISION ENGINEERING

- FOR ALL STANDARD APPLICATIONS
- CHOICE OF REGULAR, PARALLEL, OR HOLD OPEN ARMS
- OPTIONAL BACK CHECK
- HEAVY DUTY RACK AND PINION
- FACTORY TESTED TO MEET OR EXCEED ANSI STANDARD 156.4 **GRADE 1**
- UNIVERSAL HOLE PATTERN

CAL-ROYAL PRODUCTS, INC.

700 Series Door Closer

UL LISTED

FEATURES

- Dual valve, closing and latching speed controlled by two separate regulating valves.
- Universal application, non handed, designed for all standard installations.
- Reinforced type adjustable tube arm.
- Rack and pinion operation contained in a high tensile precision cast aluminum housing for the highest quality.
- High quality hydraulic fluid for high lubricity and constant lubrication.
- The streamlined design permits installation on most commercial and residential applications without adaptors.
- Power adjustment bracket on regular arms. (15% adjustment,±7½%)
- Hold open arms (optional) are adjustable for holding from 90° to 180°. 701/702.
- Fusible link hold open arms. (optional) FUS707.
- Optional back check (730P-BC, 740P-BC, 750P-BC) controlled by separate regulating valve.
- Slim cover (2"W x 3⅛"H x 10¾"L) optional fits all sizes, COV/700.
- Flat drop bracket.
- Available in Alum, Duro, Gold, US3, US26.

Lifetime Warranty

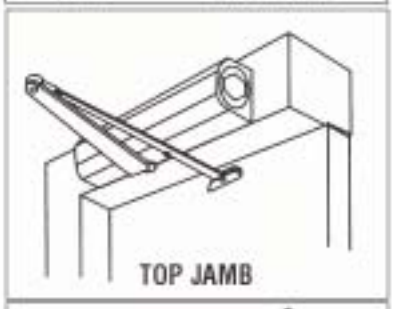
BHMA CERTIFIED

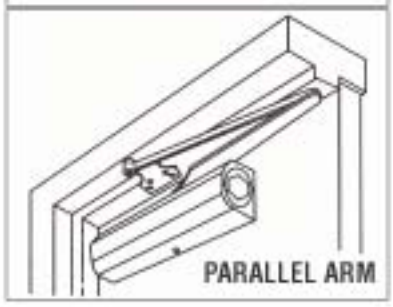
COMPARISON CHART 700 SERIES								
CAL-ROYAL	LCN	NORTON	YALE	DORMA	TAYMOR	PARKER	CORBIN	RUSSWIN
700	1060	1600	50	600	9500/60	500	100	2800

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UNIVERSAL APPLICATIONS



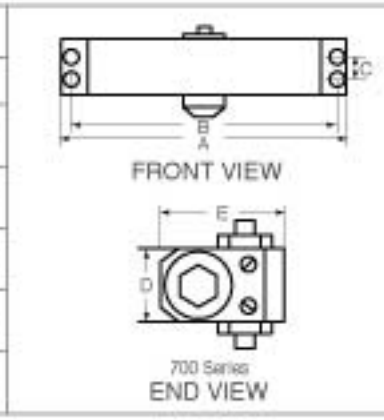




Hold-Open Arms and Fusible Link Hold-Open Arms Are Similar

SPECIFICATIONS

DESCRIPTION	SIZE 2	3	4	5
A. Length of Closer Body	8 7/8"	8 7/8"	9 3/4"	9 3/4"
B. Horizontal Mounting Holes	8 3/16"	8 3/16"	9 1/16"	9 1/16"
C. Vertical Mounting Holes	3/4"	3/4"	3/4"	3/4"
D. Height of Closer Body	1 3/4"	1 3/4"	1 3/4"	1 3/4"
E. Projection from Door	2 7/8"	2 7/8"	2 7/8"	2 7/8"



RECOMMENDED CLOSER SIZES FOR INTERIOR & EXTERIOR DOORS

REGULAR CLOSERS							CLOSERS WITH PARALLEL ARM ADAPTER	
MODEL NO. REGULAR	DOOR WEIGHT (POUNDS) ALL MODELS	MODEL NO. HOLD OPEN	TYPE OF DOOR	MAXIMUM SIZE OF DOOR INTERIOR	EXTERIOR INSWINGING	INTERIOR OUTSWINGING	MAXIMUM SIZE OF DOOR INTERIOR	EXTERIOR INSWINGING
720P	55-100	720PH	Heavy screen doors or medium weight interior door of wood or metal	3'0"	—	—	2'6"	—
730P	88-143	730PH	Light exterior doors and interior doors of wood or metal	3'6"	2'6"	3'0"	3'0"	2'6"
740P	120-187	740PH	Exterior doors and heavy interior doors of wood or metal	4'0"	3'0"	3'6"	3'6"	3'0"
750P	176-265	750PH	Heavy exterior doors and heavy interior doors	4'6"	3'6"	4'0"	4'0"	3'6"

NOTE: Doors of unusual height or weight, or doors subject to severe wind or draft conditions, or abusive usage, require the next larger model closer than the schedule.

CAL-ROYAL

PRODUCTS, INC.

6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.

TEL: (323) 888-6601 FAX: (323) 888-6699

Website: cal-royal.com • Email: sales@cal-royal.com



300
Series Door Closer

UL listed
UL Listed, Conforms To Standards
UL10C and UBC7-2-1997

Full Cover Standard Feature

Barrier - Free Compliance

Lifetime Warranty

BHMA CERTIFIED

UNIVERSAL MODEL OFFERING VERSATILITY AND PRECISION ENGINEERING

- FOR ALL STANDARD APPLICATIONS
- MULTI SIZE ADJUSTABLE COMMERCIAL DOOR CLOSER
- STANDARD BACK CHECK
- HEAVY DUTY RACK AND PINION
- FACTORY TESTED TO MEET OR EXCEED ANSI STANDARD 156.4 **GRADE 1**

CAL-ROYAL
PRODUCTS, INC.

300 Series Door Closer

UL LISTED

Conforms To Standards UL10C and UBC7-2-1997

FEATURES

- Factory tested to meet or exceed ANSI Standard 156.4. Grade 1.
- **300 PBFCOV:** Non-sized, fully adjustable 1 through 4, (Barrier Free ADA) interior doors. Full cover. w/o cover 300PBF
- **300 PCOV:** Non-sized, fully adjustable 3 through 6, (Barrier Free ADA) exterior doors. Full cover. w/o cover 300P
- Standard adjustable backcheck intensity valve.
- Standard full plastic cover (25/8"W x 3"H x 101/8"L) COV/300.
- Universal Mounting - standard size #4 Mounting Holes. (9-1/16")
- Finishes available: Alum, Dark Bronze (Duro), Gold.
- Dual valve, closing and latching speed controlled by two separate regulating valves.
- Universal application, non handed, designed for all standard installations.
- Reinforced type adjustable tube arm.
- Rack and pinion operation contained in a high tensile precision cast with **needle bearing** aluminum housing for the highest quality.
- High quality hydraulic fluid for high lubricity and constant lubrication.
- The streamlined design permits installation on most commercial and residential applications without adaptors.
- Power adjustment bracket on regular arms. (15% adjustment,±71/2%)
- Hold open arm optional (Part #301/302) for regular & parallel installations

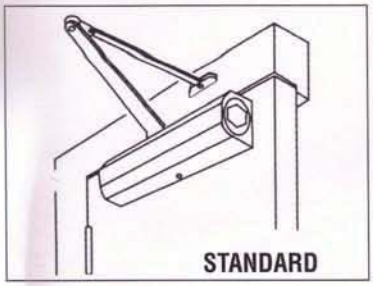
Lifetime Warranty

BHMA CERTIFIED

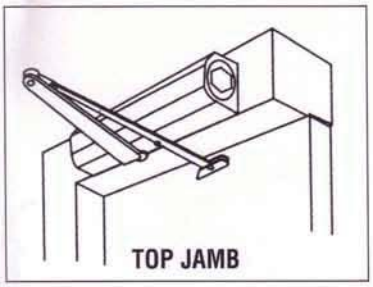
APPLICATIONS

- 300 Series closers fulfill all requirements for ADA for interior and exterior doors. Complies with building and barrier free codes.
- Ideal for new construction and renovations, including:
- Office and Retail
- Hotels
  Commercial and Industrial
  Health care
- Religious

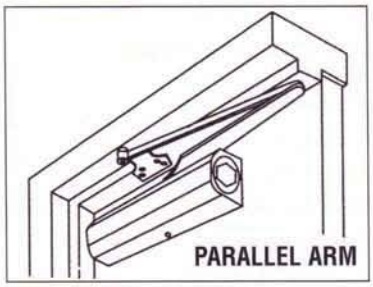
UNIVERSAL APPLICATIONS



STANDARD



TOP JAMB



PARALLEL ARM

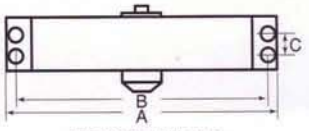
Hold-Open Arms and Fusible Link Hold-Open Arms Are Similar

*** CAN BE USED FOR RETROFIT OF NORTON 1600 (Sizes 4, 5 or 6), Yale 50 (sizes 4, 5 or 6)**

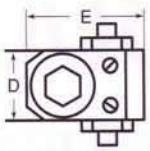
COMPARISON CHART 300 SERIES			
CAL-ROYAL	NORTON	YALE	DORMA
300	1601BF	51BF	640/650

SPECIFICATIONS

DESCRIPTION	300 PBFCOV / 300 PCOV
A. Length of Closer Body	93/4"
B. Horizontal Mounting Holes	91/16"
C. Vertical Mounting Holes	3/4"
D. Height of Closer Body	13/4"
E. Projection from Door	27/8"



FRONT VIEW



300 Series
END VIEW

CAL-ROYAL
PRODUCTS, INC.

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400 Series

400
Series Door Closer

5-year Warranty
UL listed

UNIVERSAL MODEL OFFERING VERSATILITY AND PRECISION ENGINEERING

- FOR ALL STANDARD APPLICATIONS
- OPTIONAL FULL COVER
- OPTIONAL BACK COVER
- HEAVY DUTY RACK AND PINION
- FACTORY TESTED TO MEET OR EXCEED ANSI STANDARD 156.4 **GRADE 2**
- UNIVERSAL HOLE PATTERN

CAL-ROYAL
PRODUCTS, INC.

400 Series Door Closer

5 YEAR WARRANTY/ UL LISTED

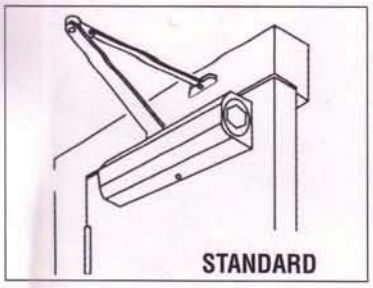
FEATURES

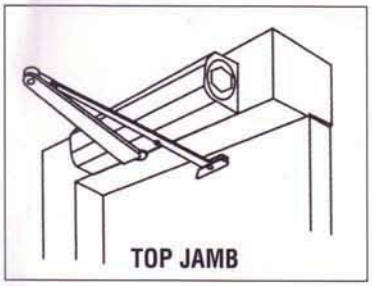
- Dual valve, closing and latching speed controlled by two separate regulating valves.
- Universal application, non handed, designed for all standard installations.
- Reinforced type adjustable tube arm.
- Rack and pinion operation contained in a high tensile precision cast aluminum housing for the highest quality.
- High quality hydraulic fluid for high lubricity and constant lubrication.
- The streamlined design permits installation on most commercial and residential applications without adaptors.
- Power adjustment bracket on regular arms. (15% adjustment,±71/2%)
- Optional back check (430P-BC, 440P-BC) controlled by separate regulating valve.
- Universal hold pattern. [Size (4) 440F-P, size (3) 430-P]
- Full cover (2⅝"W x 3"H x 10⅛"L) optional fits all sizes, COV/400.
- Flat drop bracket.
- Available in Alum, Duro, and Gold
- Hold open arms optional (Part #301/302), for regular & parallel installations.

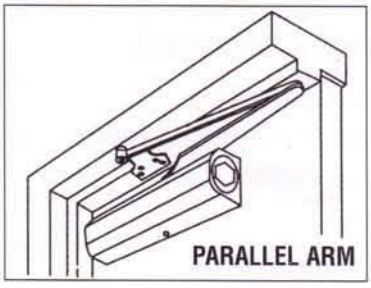
COMPARISON CHART 400 SERIES								
CAL-ROYAL	LCN	NORTON	YALE	DORMA	TAYMOR	PARKER	CORBIN	RUSSWIN
400	1050	1600	50	600	9500/60	500	100	2800

The data on this represents our judgement of which are most similar. Since no product is exactly alike the information has been obtained from trade sources, it is not guaranteed nor represented that any specific product exactly equals any other product.

UNIVERSAL APPLICATIONS

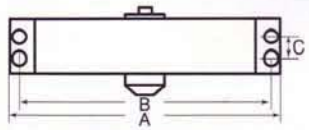






Hold-Open Arms and Fusible Link Hold-Open Arms Are Similar

DESCRIPTION	MODEL AND SIZE			
	420-P	430-P	440-P	440F-P
	2	3	4	4
A. Length of Closer Body	513/16"	75/16"	83/4"	93/4"
B. Horizontal Mounting Holes	53/16"	65/8	83/16"	91/16"
C. Vertical Mounting Holes	25/32"	3/4"	3/4"	3/4"
D. Height of Closer Body	115/32"	13/4"	13/4"	13/4"
E. Projection from Door	21/4"	25/8"	27/8"	27/8"



FRONT VIEW



400 Series
END VIEW

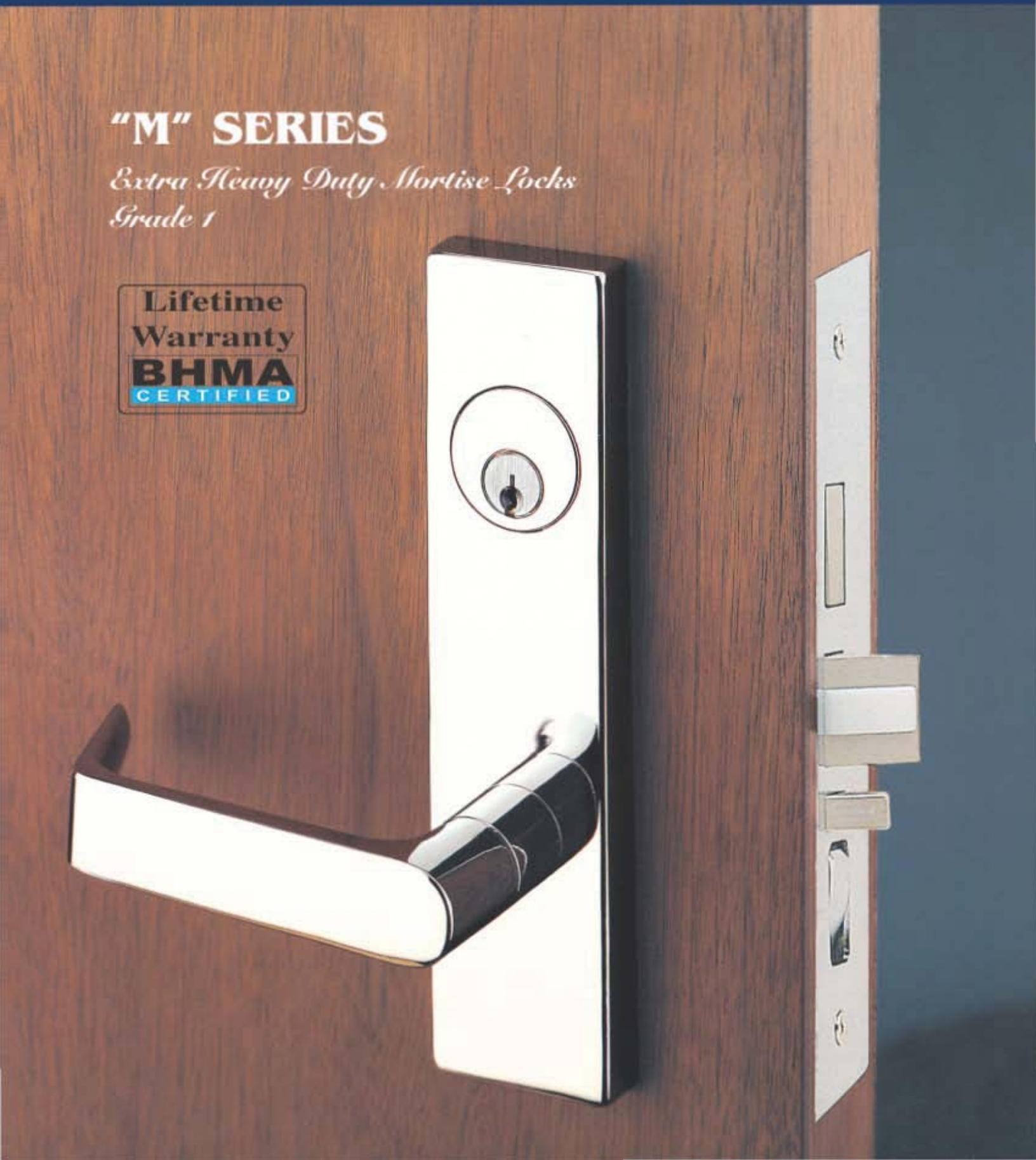
REGULAR CLOSERS							CLOSERS WITH/ PARALLEL ARM ADAPTER	
MODEL NO. REGULAR	DOOR WEIGHT (POUNDS) ALL MODELS	MODEL NO. HOLD OPEN	TYPE OF DOOR	MAXIMUM SIZE OF DOOR			MAXIMUM SIZE OF DOOR	
				INTERIOR	EXTERIOR INSWINGING	INTERIOR OUTSWINGING	INTERIOR	EXTERIOR INSWINGING
420P	55-100	420PH	Heavy screen doors or medium weight interior door of wood or metal	3'0"	—	—	2'6"	—
430P	88-143	430PH	Light exterior doors and interior doors of wood or metal	3'6"	2'6"	3'0"	3'0"	2'6"
440P/ 440F-P	120-187	440PH	Exterior doors and heavy interior doors of wood or metal	4'0"	3'0"	3'6"	3'6"	3'0"

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CAL-ROYAL
PRODUCTS, INC.

CAL-ROYAL
PRODUCTS, INC.



"M" SERIES

Extra Heavy Duty Mortise Locks
Grade 1

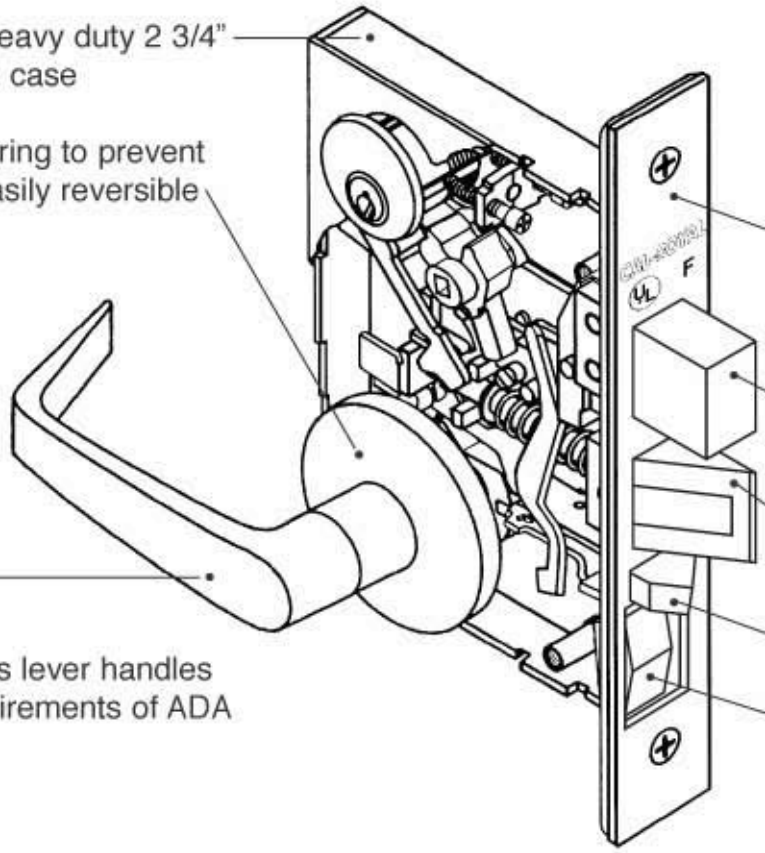
Lifetime Warranty
BHMA CERTIFIED

CAL-ROYAL
PRODUCTS, INC.

M SERIES
HEAVY DUTY MORTISE LOCKSET
GRADE 1

Rust-proof heavy duty 2 3/4" Backset lock case

Individual spring to prevent lever sag, easily reversible



Armored front plate conceals lock mounting screws

1" Throw Heavy Duty Deadbolt with Anti-Saw Hardened Pins

Heavy Duty 3/4" latchbolt with anti-friction latch, easily reversible

Auxiliary latchboolt

Heavy duty stopworks

Forged brass lever handles exceed requirements of ADA

Lifetime Warranty

BHMA CERTIFIED

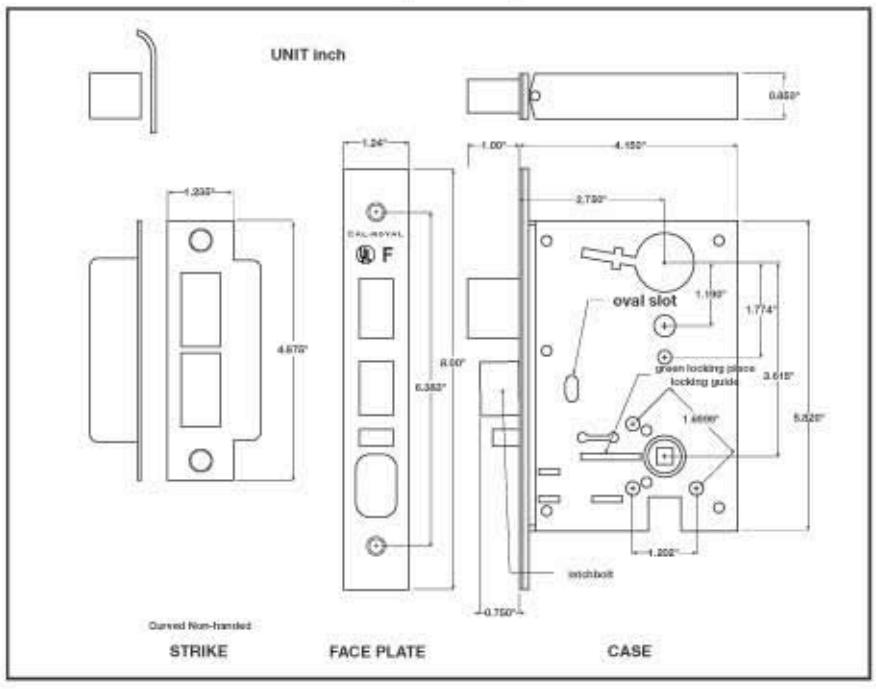
100% internal parts quality inspection provides security, reliability and durability

LISTED, UL10C, UBC 7-2-1997

FEATURES & SPECIFICATIONS

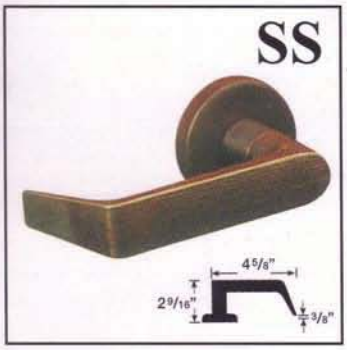
For Doors	1 3/4" thick.
Backset	2 3/4".
Lockcase	Heavy gauge zinc chromate steel.
Front	Heavy gauge steel 8" x 1 1/4" x 3/32". Accomodates flat doors & doors beveled 1/8" in 2".
Armored Front	Wrought brass attached by machine screws to lockcase front.
Deadbolt	1" throw, brass, chrome plated with hardened steel rollers.
Latchbolt	Brass, chrome plated with heavy-duty deadbolt.
Guardbolt	Extruded brass, chrome plated.
Stopworks	Rocker type, brass, chrome plated.
Strike	Brass, non-handed curved strike 4 7/8" x 1 1/4". Handed curved-up strike available upon request.
Hand	Handed. Easily reversible in field.
Trim	As specified.
Cylinder	As specified.
Keyway	As specified.
Finishes	As specified.
UL listings	U.L. Listed "A" Label (3 hour), for use on fire doors; single or pairs.
ANSI	Lock body conforms to Federal Specification Type 86; and to all dimensional and operational performances of ANSI A156.13-1 80, Series 1000 GRADE 1.

Available with interchangeable core.
Electrified locks available upon request.

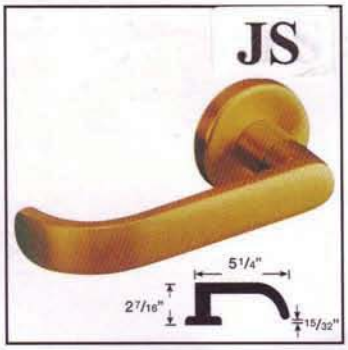


TRIMS & FINISHES

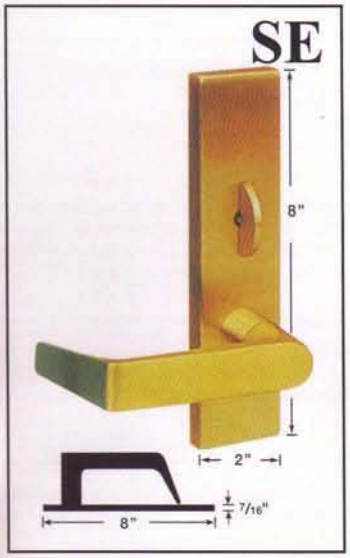
M SERIES

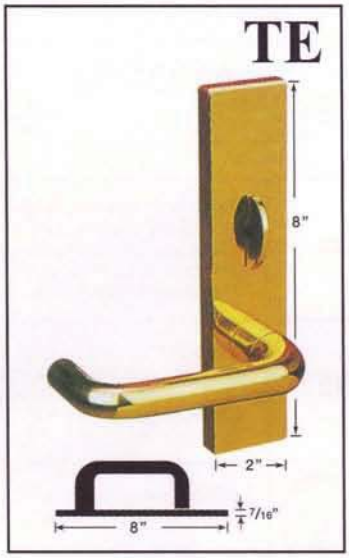


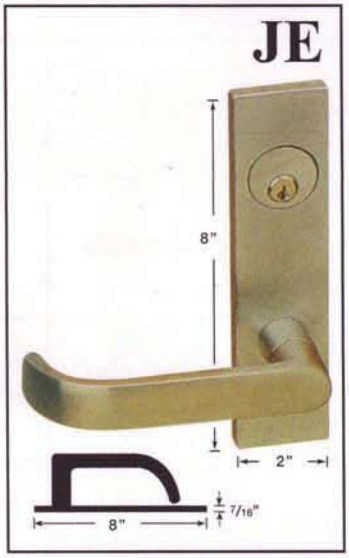














How To Order

Function	See Function Chart On The Back			
Trim	See Trim Designs			
Finish	See Listing At Right			
Hand	RH	LH	RHR	LHR

M8050-SS-626-RH

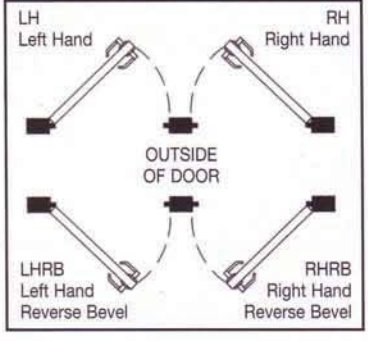
1. Office Function
2. S Trim Sectional
3. Satin Chrome
4. Right Handed
5. Keyways-Schlage C (Standard). Otherwise Specify.

ITEM	MATERIAL
Rose	Wrought Brass
Levers	Forged Brass
Escutcheons	Forged Brass

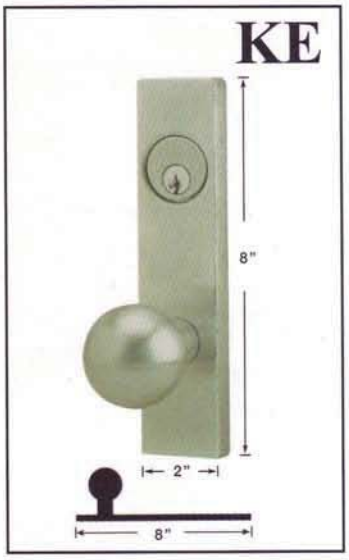
FINISHES

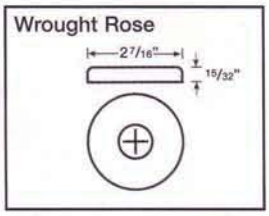
Symbol	*BHMA*	*Description*
US3	605	Polished Brass
US4	606	Satin Brass
US10B	613	Oil Rubbed Bronze
US26	625	Polished Chrome
US26D	626	Satin Chrome
US10	612	Satin Bronze

HAND











CYLINDER
COMPRESSION RING



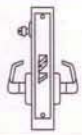
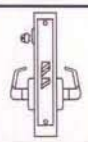
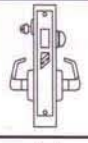
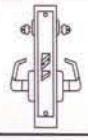
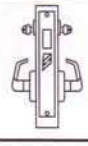
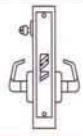
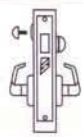
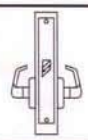
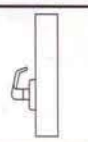
CLOVER
CAM

•• Keyways available: SCHLAGE C (standard), SCHLAGE C-K,RUSSWIN D1, CORBIN 60, SARGENT LA, FALCON/WEISER E, ARROW, YALE 8. Mortise Locks will accept compatible 6 or 7 pin cores with Best, Falcon, Arrow. Prefix "IC" Before Part Number.

CAL-ROYAL
PRODUCTS, INC.

FUNCTIONS

M SERIES
HEAVY DUTY MORTISE LOCKSET

Outside Inside	Series/ Function	Type	ANSI No.	Function Description
	M8050	Offic	F04	Latchbolt operated by lever from either side except when outside lever is made inoperative by push button rocker. When outside lever is locked, latchbolt may be retracted by key from outside or by rotating inside lever. ***Auxiliary deadbolt latch.**
	M8070	Classroom	F05	Latchbolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latchbolt may be retracted by inside lever, or outside lever, when cylinder is unlocked by key. ***Auxiliary deadbolt latch.**
	M8080	Storeroom	F07	Latchbolt operated by key from outside or rotating inside lever. outside lever is always inoperative. ***Auxiliary deadbolt latch.**
	M8453	Entrance	F20	Latchbolt operated by lever from either side except when outside lever is made inoperative by push button rocker. Deadbolt projected by key from outside and by thumbturn from inside. Deadbolt retacted by key from outside. Both bolts retracted by inside lever (simultaneous retraction). ***Auxiliary deadbolt latch.**
	M8456	Corridor/ Exit	F13	Latchbolt operated by lever from either side. Deadbolt projected by key from outside and thumbturn from inside. Rotating inside lever retracts both bolts (simultaneous retraction). Extended deadbolt automatically deadlocks latchbolt.
	M8473	Dormitory/ Bedroom	F21	Latchbolt retracted by knob or lever from either side. Deadbolt extended or retracted by key outside or thumbturn inside.
	M8060	Apartment Entrance/ Vestibule	F09	Latchbolt operated by lever from either side excep when outside lever is locked by inside key. Outside key or inside lever will retract latch when locked. ***Auxiliary deadbolt latch.**
	M8466	Store/ Utility	F14	Latchbolt operated by lever from either side. Deadbolt by key on either side.
	M8465	Closet/ Storeroom		Latchbolt retracted by knob/lever from either side. Deadbolt extended or retracted by key outside.
	M8040	Privacy	F02 F19 F22	Latchbolt operated by lever from either side excep when turnpiece Projects deadblot and locks outside lever. Unlocked by turning inside lever or by using emergency key which retracts the deadbolt.
	M8010	Passage	F01	Latchbolt operated by lever from either side at all times.
	M8170	Dummy		Lever on one side fixed by lever return spring bracket

*** Unlisted Functions Available Upon Request.

CAL-ROYAL PRODUCTS, INC

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Website: cal-royal.com • Email: sales@cal-royal.com

Printed In U.S.A.

CAL-ROYAL
PRODUCTS, INC.

GRADE 1
Cylindrical Leverset

Meets ADA requirements.
Specially designed for
Barrier Free Application
Conforms with ANSI A156.2
Series 4000, Grade-1.
Meets A117.1 Accessibility Code.

UL LISTED 3 HOURS,
UL10C, UBC 7-2-1997

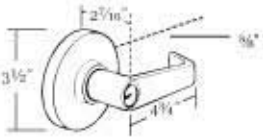
GENESYS SERIES

Extra Heavy Duty Cylindrical Lever Sets (Clutch Style)

- **Available With Interchangeable core for Best, Falcon, Arrow**
- **Available With Interchangeable Core for Schlage Full Size Format OEM Cylinders**

(PATENTED)
CLUTCH
FREEWHEELING





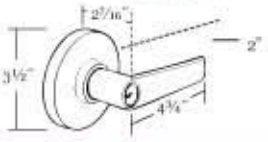
GN DESIGN





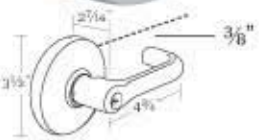
SPA DESIGN





AT DESIGN





TUB DESIGN

CLUTCH

Free turning handle in the locked position, without retracting the latch, to deter breaking of the handle

Lifetime Warranty

BHMA CERTIFIED

GENERAL SPECIFICATIONS:
Featuring CLUTCH System, free turning handle to deter breaking of the handle.
Full length 4-3/4" lever handle with 3/8" return on GN and SPA Design. Rose diameter 3-1/2". Key removable outside lever for fast rekeying. Non-handed levers. Concealed mounting screws.

- ANSI STANDARDS:
Meets or exceeds of BHMA/ANSI A 156.2 Series 4000, grade 1 requirements.

- CYLINDERS & KEYWAYS:
6 pin solid brass "C" keyway standard.
Schlage C-K, Russwin D1, L4, Corbin 60, Sargent LA Falcon/Weiser E, Arrow, Yale GA, Kwikset. Can also accept Medeco, Assa, and Kaba High Security Cylinders.

- INTERCHANGEABLE CORE:
- Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Add "IC" before part #.
- Interchangeable core locks will accept schlage full size format OEM cylinder. For SCHLAGE format, replace ICCGN with ICGYS.

- HOUSING:
Cold rolled steel and zinc dichromate finish for rust resistance with precision cast steel retractor.
2-1/8" diameter bore.

- TRIM:
Thru-bolted assembly through door with separate spring cage for each lever. Matching design to SL Series Grade II levers.

-FINISHES:
626: (US26D) - Satin chrome
613: (US10B) - Oil rubbed bronze
625: (US26) - Polished chrome
605: (US3) - Polished brass
612: (US10) - Satin bronze
606: (US4) - Satin brass
Finishes not shown are available subject to lead time.

- FUNCTIONS:
- CGN-00: Entrance / Office lock
  CGN-101: Dormitory
  GN-02: Store lock
- CGN-03: Classroom
  GN-04: Communicating
- CGN-05: Storeroom
  CGN-06: Vestibule
- CGN-07: Classroom Intruder
- GN-09: Institution
  CGN-88: Patio
  CGN-20: Privacy
  GN-30: Passage
  GN-40: Dummy
  ** Other functions available upon request.

Indicates function available with interchangeable core.



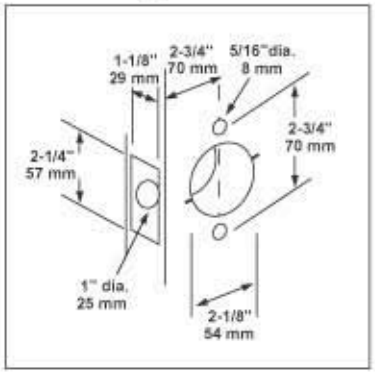
- HOW TO ORDER:
When ordering "AT" & "SPA" designs, replace design name
Example: CGN-00 entrance in "AT" design is CAT-00.


GND-750

- LATCH OPTIONS:
"UL" listed for 3 hour fire labeled doors.
2-3/4" backset standard, brass with 1/2" throw.
2-3/8" backset optional.
GND-750 deadlatch reversible for flat and beveled door.
3/4" throw anti-friction deadlatch for pair of fire doors

- DOOR RANGE:
1-3/8" to 1-3/4" thickness.
2" to 2-1/4" thickness also available on request.

Door Preparation



- STRIKES:
ASA 1-1/4" x 4-7/8" standard.
Other strikes available upon request.

- ELECTRIFIED LOCKS:
Available upon request.

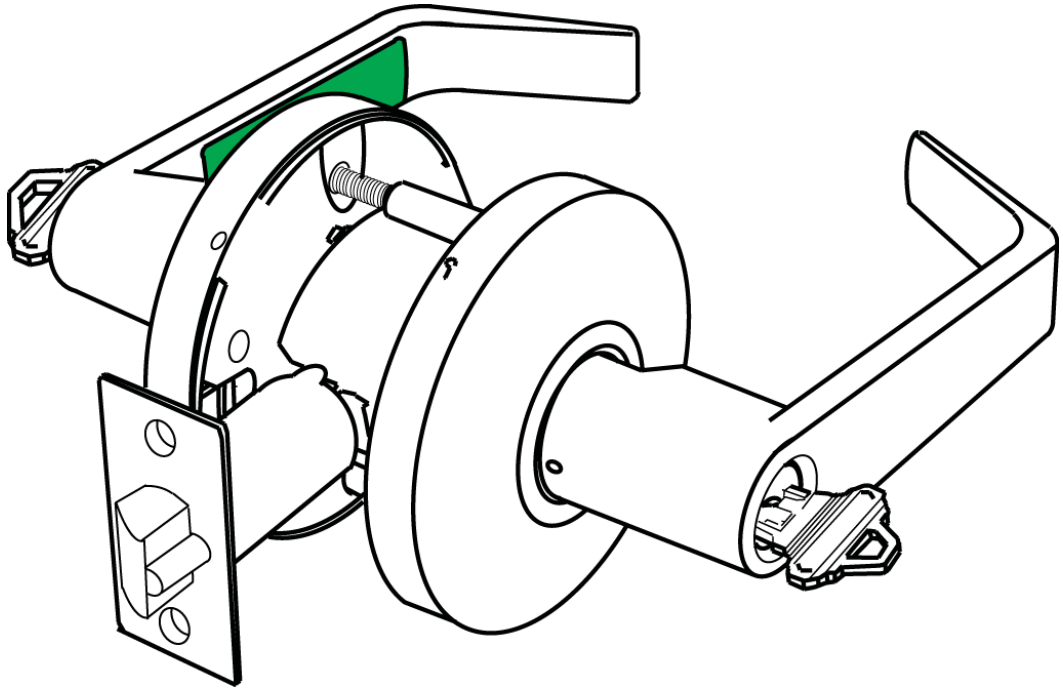
- TACTILE & LEAD LINING:
Available upon request.

CAL-ROYAL
PRODUCTS, INC.
6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com • Email: sales@cal-royal.com

Lifetime Warranty
BHMA CERTIFIED

GENESYS *Series* . . . . . CAL-ROYAL PRODUCTS, INC.

CGN07 CLASSROOM INTRUDER CYLINDRICAL LOCK



A product to be used in any institution or school crisis situations, where safety from intrusions needs to be assured at all times. Products that provide safety and security are the top priority throughout school systems across the country. Cal-Royal offers the CGN07 Classroom Intruder cylindrical lockset to answer this stringent requirement.

Enhancing the standard classroom locksets, which can be locked or unlocked only from the outside, the CGN07's main feature is being keyed on both sides. It permits locking of the outside lever from either inside or out, safeguarding students and teachers while securing their classrooms. Exit is always possible from inside regardless of whether the door is locked or not. This "anti-panic" feature preserves safety and security by keeping the outside lever locked if the inside lever is activated. Since a key is required to lock the door from either side, students can't lock a teacher out of the classroom.

CGN07 DESCRIPTION

- Latchbolt is operated by rotating the inside lever, or rotating the outside lever only when not locked from the inside or outside key.
- Outside lever is locked and unlocked by turning the key in the inside or outside lever,
- Inside lever cannot be locked.

FEATURES

- Meets ANSI Grade 1 requirements
- UL 3-hour fire rated
- Lifetime limited warranty

FINISHES

- US26D
- Other finishes subject to availability and lead time

CA RO A PRODUCTS INC

CO PARISON CHART

GENES S CO ANDER SERIES GRADE C UTCH E ER

FUNCTION	ANSI NO	CA RO A GENES S	SCH AGE AND EGARD	SARGENT C UTCH	RUSS IN COR IN	PD	FA CON C UTCH	A E C UTCH	ARRO SR RR
Entrance	1 2	CGN00	D 3 D 2PD	10G0	CL3 1	ST 116 1 2	T 01	07L	11
Storeroom	6	CGN0	D 0 D 6PD	10G0	CL3 7	11	T 1	0 L	12
Classroom		CGN03	D70S D PD	10G37	CL3	1	T 61	0 L	17
Privacy	76	CGN20	D 0S	10U6	CL3 20	176	T301	02L	02
Passage	7	GN30	D10S	10U1	CL3 10	126	T101	01L	01
Dummy	----	GN 0	D170	U	CL3 0	211 20	T12	L	0
Storelock Double Cylinder		GN02	D66PD	10G16	CL3 2	137	T371	17L	32
Communication Double Cylinder	0	CGN0	D72PD	10G30	CL3 72	1 0	T3 1	21L	31
Institution Double Cylinder	7	CGN0	D 2PD	10G17	CL3 32	12	T 11	30L	33

PIONEER S SERIES E P ORER SERIES GRADE NON C UTCH E ER
PIONEER CS SERIES GRADE C UTCH E ER

FUNCTION	ANSI NO	CA RO A PIONEER SERIES	SCH AGE NON C UTCH	SARGENT NON C UTCH	RUSS IN COR IN	PD	FA CON TU U AR NON C UTCH	A E	ARRO SR RR NON C UTCH
Entrance	1 2	CSL00 SL00	AL 3 SLS0	6 G0	CL3 1	SP S 116 1 2	11	307LN	M11
Storeroom	6	CSL0 SL0	AL 0	6 G0	CL3 7	11	1	30 LN	M12
Classroom		CSL03 SL03	AL70	6 G37	CL3	1	61	30 LN	M17
Privacy	76	CSL20 SL20	AL 0S	6 U6	CL3 20	176	301	302LN	M02
Passage	7	SL30	AL10S	6 U1	CL3 10	126	101	301LN	M01
Dummy	----	SL 0	AL170	6 U 3	CL3 0	211 20	12	3 LN	M0
Exit	----	SL 0	AL2	N A	CL3 0	12	161	32 LN	M07

HI SERIES INTERCONNECTED GRADE E ER

FUNCTION	ANSI NO	CA RO A HI SERES	SCH AGE	FA CON
Entrance Double Locking	7	IL00	S2 1PD	101DG
Entrance Single Locking		IL30	S210PD	11DG

Other functions available upon request. Storeroom, single double dummy trim.

CAL-ROYAL
PRODUCTS, INC.

CAL SERIES
ANSI GRADE 1
EXTRA HEAVY DUTY
CYLINDRICAL LEVERSET
Available With Interchangeable Core

Meets ADA requirements.
Specially designed for
Barrier Free Application
Conforms with ANSI A156.2
Series 4000, Grade 1

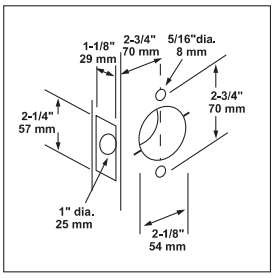
CALYPSO

CLUTCH MECHANISM CAL SERIES

EXTRA HEAVY DUTY CYLINDRICAL LEVERSETS

UL LISTED 3HOURS
UL10C, UBC 7-2-1997

Lifetime Warranty



SPECIFICATIONS

Applications
For offices, schools, hospitals, apartments, hotel/motel and other public buildings.

Door Ranges
1-3/8" to 2" thickness doors.

Backset
2-3/4" standard. Optional 2-3/8", 3-3/4", 5" and 3/4" throw anti-friction deadlatch for pair of fire doors optional.

Front
2-1/4" X 1-1/8", adjustable for flat or beveled doors 1/8" in 2".

Srtrike
ASA strike standard, "T" and full lip strike available on request.

Latchbolt
1/2" Throw solid brass, reversible for RH or LH applications. UL listed.

Latch & Strike Screws
8-32 X 1" FPH dual purpose.

ANSI Standards
Meets and exceeds requirements of BHMA/ANSI A156.2 Series 4000, Grade 1.

Exposed Trim
Wrought brass, bronze or stainless steel, levers are Zinc casting, plated to match trim finish.

Cylinders & Keyways
6 pin solid brass "C" keyway standard. Schlage C-K, Russwin D1, L4, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale 8, Yale GA, Kwikset (optional).
Can also accept Medeco, Assa, and Kaba High Security Cylinders.

Tactile, Lead Lining and Electrification available upon request.

Interchangeable Core
Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Prefic "IC" before part number. Available combinated or uncombinated. Temporary construction cores available. Factory keying with control key and masterkey available.

CAL-ROYAL PRODUCTS, INC.

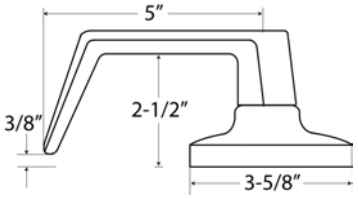
FINISHES AVAILABLE

BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
625	US26	Bright Chrome
626	US26D	Satin Chrome

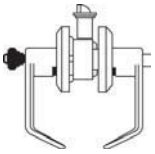
DIMENSIONS

The lever features a 3/8" return and projection of 2-1/2" from the face of the door.

CAL Design



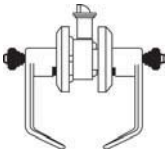
CAL00
ICCAL00



ENTRANCE/OFFICE LOCK

Turn/Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

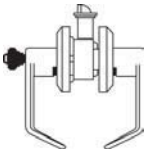
CAL02
ICCAL02



STORELOCK

Dead locking latch bolt operated by lever from either side, except when both levers are locked by key in lever from either side.

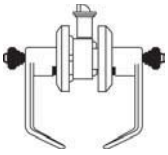
CAL03
ICCAL03



CLASSROOM

Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

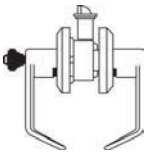
CAL04
ICCAL04



COMMUNICATING

Dead locking latch bolt operated by lever from either side. Turning key in either lever locks or unlocks its own lever independently.

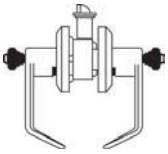
CAL05
ICCAL05



STOREROOM

Dead locking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.

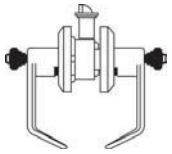
CAL06
ICCAL06



VESTIBULE

Dead locking latchbolt operated by lever from either side except when outside lever is locked by key from inside, latchbolt may be retracted by key in outside lever or by operating inside lever.

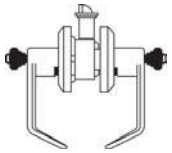
CAL07
ICCAL07



CLASSROOM INTRUDER

Latchbolt is operated by rotating the inside lever, or rotating the outside lever only when not locked from the inside or outside key. Outside lever is locked and unlocked by turning the key inside or outside lever. Inside lever cannot be locked.

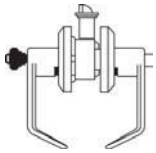
CAL09
ICCAL09



INSTITUTION

Deadlocking latchbolt operated by key in lever from either side. Both levers always locked.

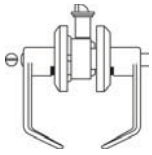
CAL101
ICCAL101



DORMITORY

Dead locking latchbolt operated by lever from either side except when outside lever is locked by key in outside lever or by push button inside. Key in outside lever locks or unlocks outside lever. Rotation inside lever releases push button. Closing door releases push button. Inside lever always operates.

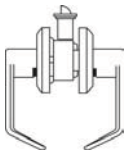
CAL20



PRIVACY

Latchbolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.

CAL30



PASSAGE

Latchbolt operated by lever from either side at all times.

CAL40



DUMMY LEVER

Single dummy trim for one side of door. Pull only.

***OTHER FUNCTIONS NOT LISTED AVAILABLE UPON REQUEST**

CAL-ROYAL
PRODUCTS, INC.

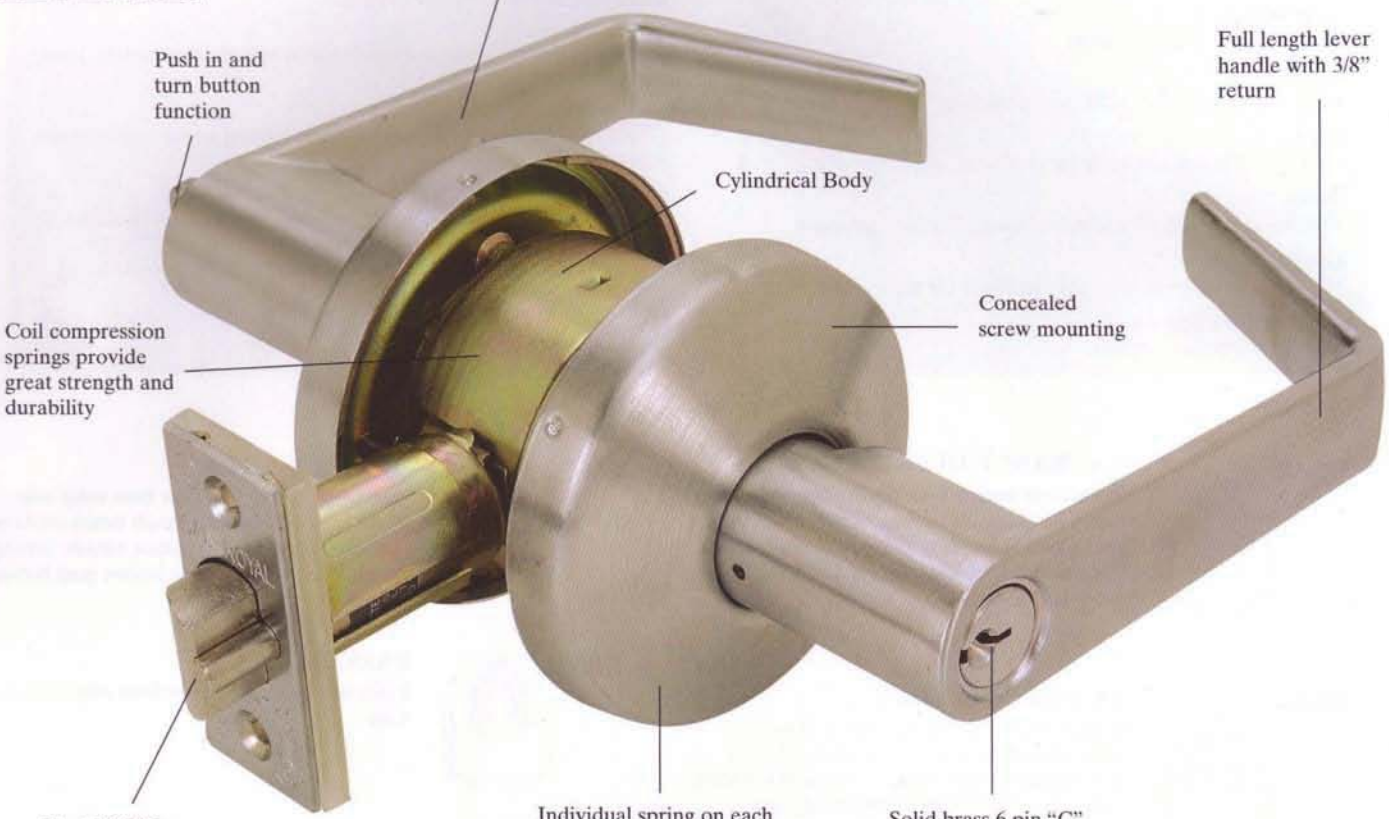
6605 Flotilla St., Commerce, CA 90040 U.S.A.
Tel: (323) 888-6601 ◆ Fax: (323) 888-6699
Website: www.cal-royal.com ◆ Email:sales@cal-royal.com

CAL-ROYAL
PRODUCTS, INC.

CHALLENGER SERIES
SG DESIGN
ANSI GRADE 2
CYLINDRICAL
LEVERSET

Meets ADA requirements.
Specially designed for Barrier Free Application
Conforms with ANSI A156.2 Series 4000, Grade-2.
Exceeds 400,000 cycles.

LISTED 3 HOURS, UL10C, UBC 7-2-1997



When ordering ASTOR design, replace design name.
Example: SG-00 Entrance in ASTOR design is AST-00. SPECIFY HANDING

MANHATTAN
MAN DESIGN



ASTOR
AST DESIGN



DOVER
DOV DESIGN



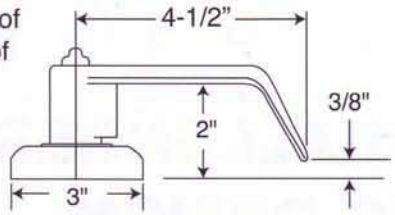
FINISHES AVAILABLE

BHMA SYMBOL	US CODE	DESCRIPTION
605	3	Polished Brass
612	10	Satin Bronze
613	10B	Oil Rubbed Bronze
625	26	Bright Chrome
626	26D	Satin Chrome
606	4	Satin Brass

Other finishes available with lead time.

DIMENSIONS

The lever features a 3/8" return and projection of 2-3/8" from the face of door.



SPECIFICATIONS

Applications
For offices, schools, hospitals, apartments, hotel/motel and other public buildings.

Door Ranges
1-3/8" to 1-3/4" thickness doors.

Backset
2-3/4" Standard, 2-3/8", 3-3/4" and 5" optional.

Front
2-1/4" X 1-1/8", adjustable for flat or beveled doors 1/8" in 2".

Strike
ASA strike standard, "T" and full lip strike available on request.

Latchbolt
1/2" Throw solid brass, reversible for RH or LH applications. UL listed.

Latch & Strike Screws
8-32 X 1" FPH dual purpose.

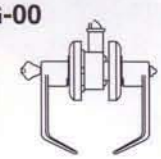
ANSI Standards
Meets or exceeds requirements of BHMA/ANSI A156.2 Series 4000 grade 2(FF-H 106C), 400,000 cycles.

Exposed Trim
Wrought brass, bronze or stainless steel, levers are Zinc casting, plated to match trim finish.

Keying
6-pin "C" keyway cylinder, 2 keys per lock. Keying as per individual job requirement.

Cylinders & Keyways
6 pin solid brass "C" key way standard. Schlage C-K, Russwin D1, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale 8, Yale GA, KWIKSET KW (Optional). Can also accept medeco, ASSA, and KABA high security cylinders.

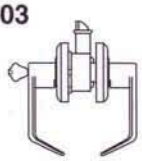
SG-00



ENTRANCE/OFFICE LOCK

Turn/Push button locking. Pushing and turning button locks outside knob requiring use of key until button is manually unlocked. Pushing button locks outside knob until unlocked with key or inside knob is turned.

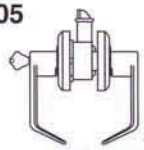
SG-03



CLASSROOM LOCK

Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

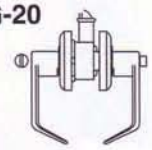
SG-05



STOREROOM LOCK

Outside lever fixed. Entrance by key only. Inside lever always unlocked.

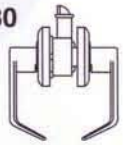
SG-20



PRIVACY LOCK

Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door release push button.

SG-30



PASSAGE SET

Latch bolt operated by lever from either side at all time.

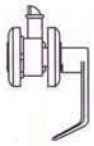
SG-40



DUMMY LEVER

Single dummy trim for one side of door. Pull only.

SG-50



EXIT LOCK

Blank plate outside.
Inside lever always unlocked.

CAL-ROYAL

PRODUCTS, INC.

6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com • Email: sales@cal-royal.com

Your Source for ADA Requirements.

Distributed by:

CAL-ROYAL
PRODUCTS, INC.

XP SERIES
ANSI GRADE 2
HEAVY DUTY CYLINDRICAL LEVERSET
Available With Interchangeable Core

Meets ADA requirements.
Specially designed for Barrier Free Application
Conforms with ANSI A156.2 Series 4000, Grade-2.
Exceeds 400,000 cycles.

EXPLORER

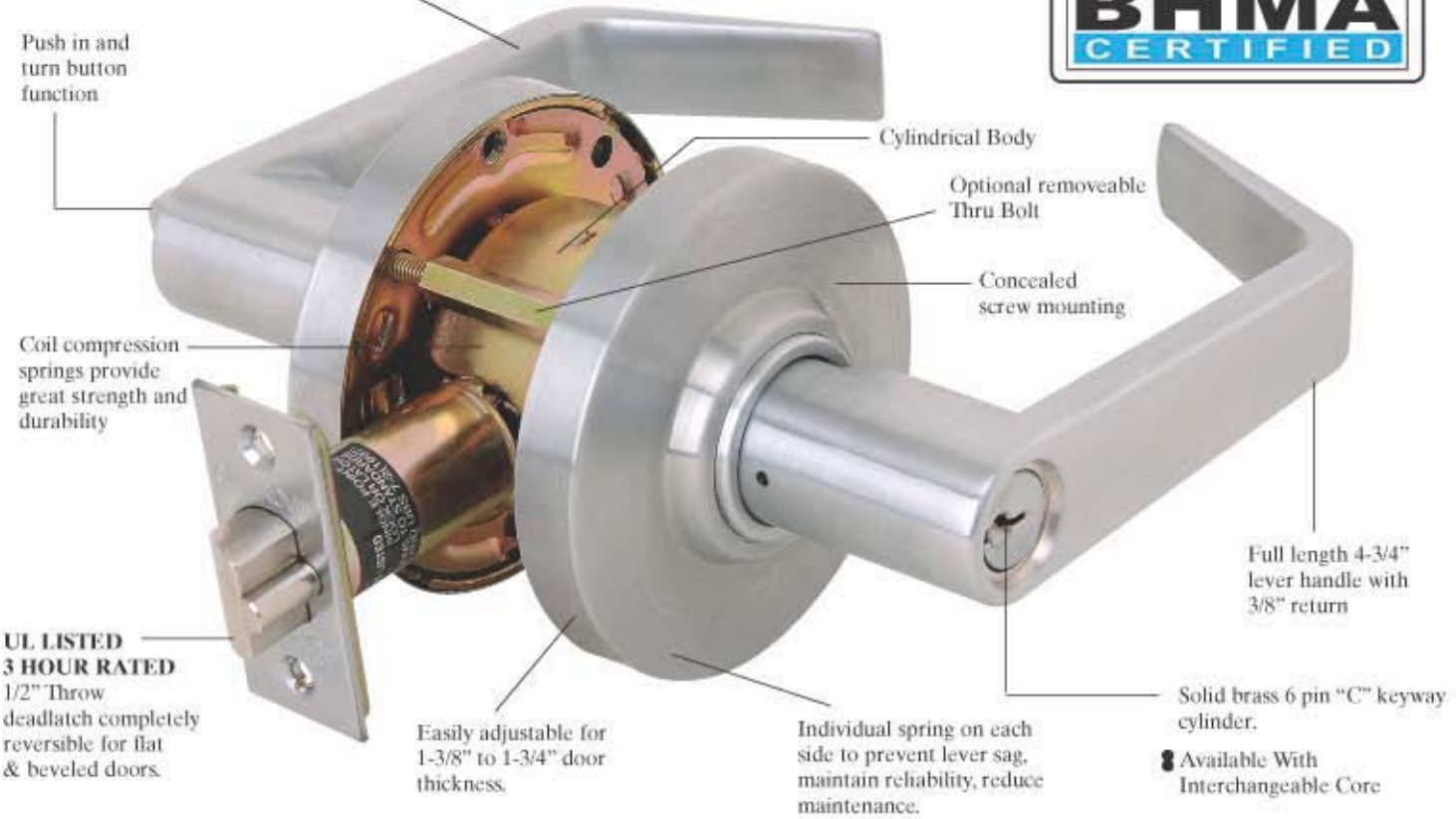
NON CLUTCH MECHANISM XP SERIES

FITS ALL MAJOR MANUFACTURERS THRU BOLT LOCATIONS

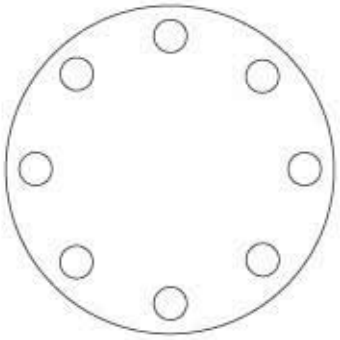
UL LISTED

Lifetime Warranty

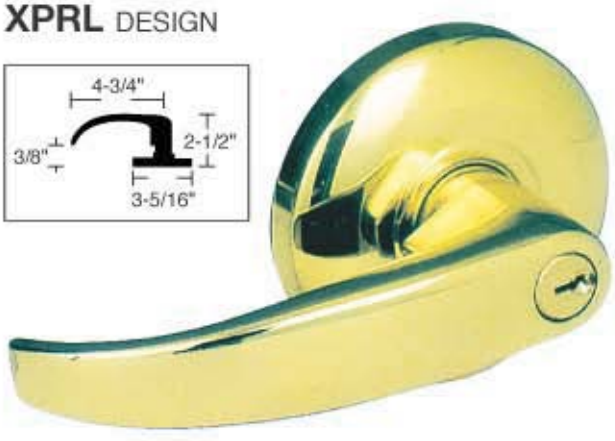
BHMA CERTIFIED



Thru bolt can be set to all major lock manufacturers thru bolt locations.



XPRL DESIGN



FINISHES AVAILABLE

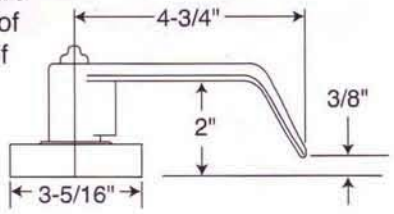
BHMA SYMBOL	US CODE	DESCRIPTION
605	3	Polished Brass
612	10	Satin Bronze
613	10B	Oil Rubbed Bronze
625	26	Bright Chrome
626	26D	Satin Chrome
606	4	Satin Brass

Other finishes available with lead time.

DIMENSIONS

The lever features a 3/8" return and projection of 2-1/2" from the face of door.

XP Design



SPECIFICATIONS

Applications
For offices, schools, hospitals, apartments, hotel/motel and other public buildings.

Door Ranges
1-3/8" to 2" thickness doors.

Backset
2-3/4" Standard, 2-3/8", 3-3/4" and 5" optional .

Front
2-1/4" X 1-1/8", adjustable for flat or beveled doors 1/8" in 2".

Strike
ASA strike standard, "T" and full lip strike available on request.

Latchbolt
1/2" Throw solid brass, reversible for RH or LH applications. UL listed.

Latch & Strike Screws
8-32 X 1" FPH dual purpose.

ANSI Standards
Meets or exceeds requirements of BHMA/ANSI A156.2 Series 4000 grade 2(FF-H 106C), 400,000 cycles.

Exposed Trim
Wrought brass, bronze or stainless steel, levers are Zinc casting, plated to match trim finish.

Keying
6-pin "C" keyway cylinder, 2 keys per lock. Keying as per individual job requirement.

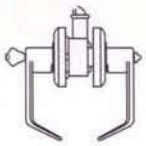
Cylinders & Keyways
6 pin solid brass "C" key way standard. Schlage C-K, Russwin D1, L4, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale 8, Yale GA, Kwikset (Optional). Can also accept Medeco, Assa, and Kaba High Security Cylinders.

Tactile & Lead Lining
Available upon request.

Interchangeable Core
Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Prefix "IC" before part number. Available combinated or uncombinated. Temporary construction cores available. Factory keying with control key and masterkey available.

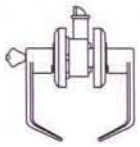
INDICATES FUNCTION AVAILABLE WITH INTERCHANGEABLE CORE

XP-00



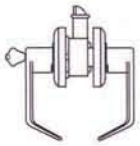
ENTRANCE/OFFICE LOCK
Turn/Push button locking. Pushing and turning button locks outside knob requiring use of key until button is manually unlocked. Pushing button locks outside knob until unlocked with key or inside knob is turned.**

XP-03

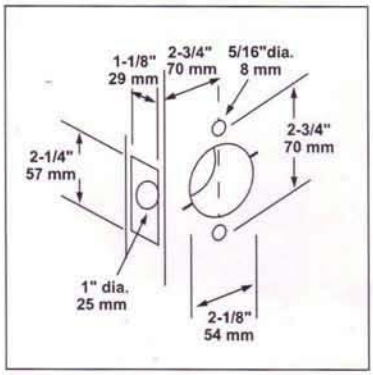


CLASSROOM LOCK
Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

XP-05

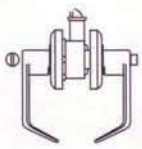


STOREROOM LOCK
Outside lever fixed. Entrance by key only. Inside lever always unlocked.



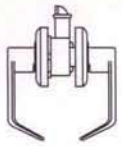
Door Preparation When Optional Thru-Bolt Is Applied

XP-20



PRIVACY LOCK
Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door release push button.

XP-30



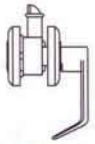
PASSAGE SET
Latch bolt operated by lever from either side at all time.

XP-40



DUMMY LEVER
Single dummy trim for one side of door. Pull only.

XP-50



EXIT LOCK
Blank plate outside.
Inside lever always unlocked.

CAL-ROYAL
PRODUCTS, INC.
6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com • Email: sales@cal-royal.com

CAL-ROYAL
PRODUCTS, INC.

COM SERIES
ANSI GRADE 2
HEAVY DUTY
CYLINDRICAL LEVERSET
To Accept Schlage Full Size Format OEM IC Core Cylinders With Interchangeable Core

COMMANDER
CLUTCH MECHANISM COM SERIES

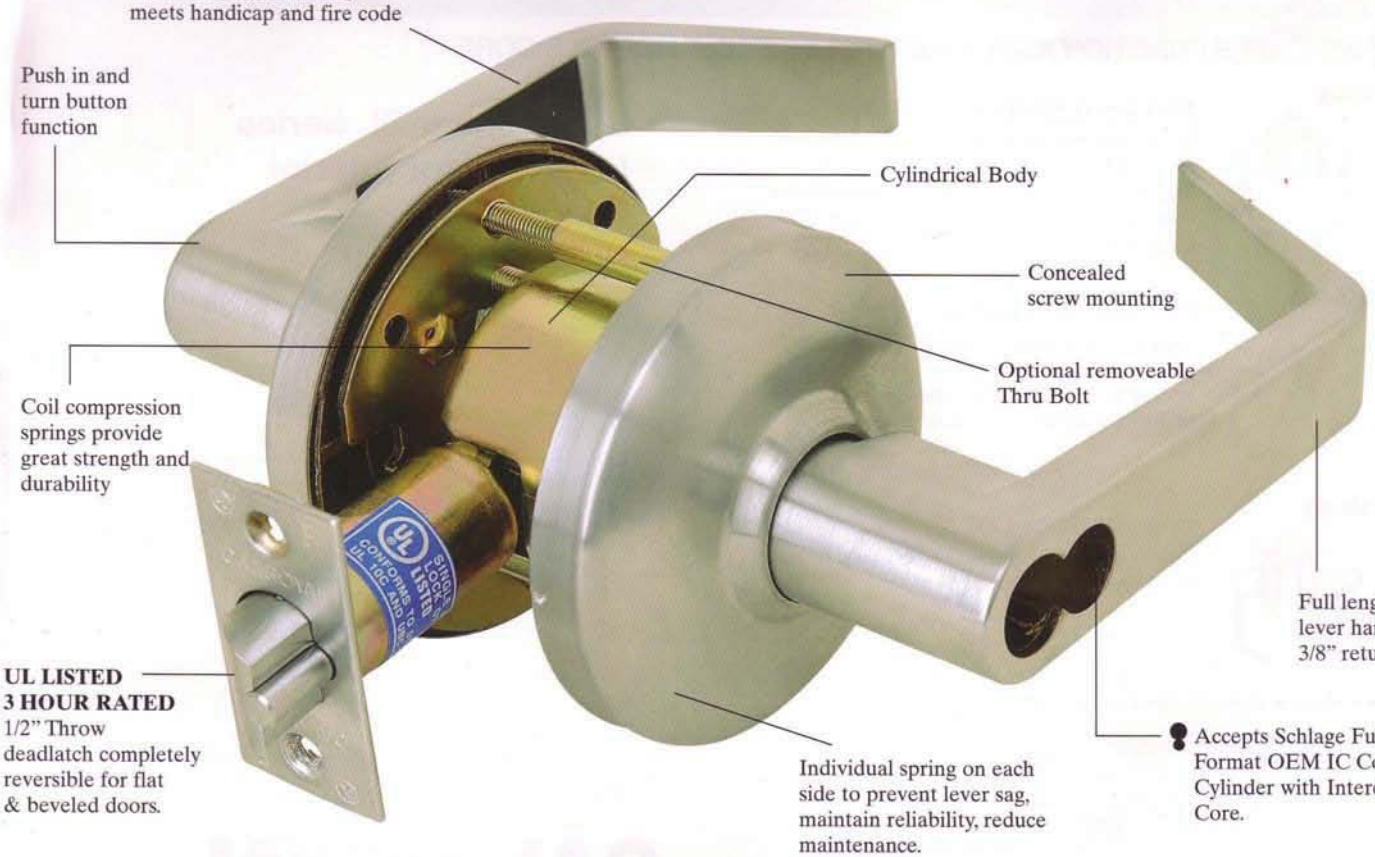
Meets ADA requirements. Specially designed for Barrier Free Application
Conforms with ANSI A156.2 Series 4000, Grade-2.
Exceeds 400,000 cycles.

LISTED

COM SERIES

PATENTED CLUTCH DESIGN

Free turning handle in the locked position, without retracting the latch, to deter breaking of the handle



FINISHES AVAILABLE

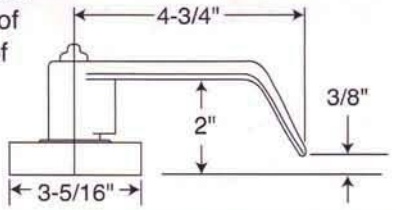
BHMA SYMBOL	US CODE	DESCRIPTION
605	3	Polished Brass
612	10	Satin Bronze
613	10B	Oil Rubbed Bronze
625	26	Bright Chrome
626	26D	Satin Chrome
606	4	Satin Brass

Other finishes available with lead time.

DIMENSIONS

The lever features a 3/8" return and projection of 2-1/2" from the face of door.

COM Design



SPECIFICATIONS

Applications
For offices, schools, hospitals, apartments, hotel/motel and other public buildings.

Door Ranges
1-3/8" to 1-3/4" thickness doors.

Backset
2-3/4" Standard, 2-3/8", 3-3/4" and 5" optional.

Front
2-1/4" X 1-1/8", adjustable for flat or beveled doors 1/8" in 2".

Strike
ASA strike standard, "T" and full lip strike available on request.

Latchbolt
1/2" Throw solid brass, reversible for RH or LH applications. UL listed.

Latch & Strike Screws
8-32 X 1" FPH dual purpose.

ANSI Standards
Meets or exceeds requirements of BHMA/ANSI A156.2 Series 4000 grade 2(FF-H 106C), 400,000 cycles.

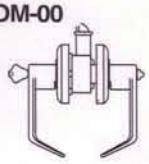
Exposed Trim
Wrought brass, bronze or stainless steel, levers are Zinc casting, plated to match trim finish.

Tactile & Lead Lining
Available upon request.

Interchangeable Core
Interchangeable core locks will accept schlage full size format OEM interchangeable core cylinder.

INDICATES FUNCTION AVAILABLE WITH INTERCHANGEABLE CORE

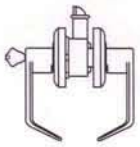
IC COM-00



ENTRANCE/OFFICE LOCK

Turn/Push button locking. Pushing and turning button locks outside knob requiring use of key until button is manually unlocked. Pushing button locks outside knob until unlocked with key or inside knob is turned.**

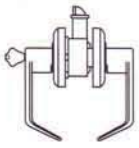
IC COM-03



CLASSROOM LOCK

Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

IC COM-05

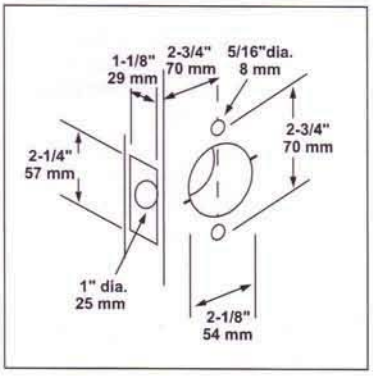


STOREROOM LOCK

Outside lever fixed. Entrance by key only. Inside lever always unlocked.

- **Use Pioneer SL Series Locksets for Interior Functions**

Distributed by:



Door Preparation When Optional Thru-Bolt Is Applied

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Website: cal-royal.com • Email: sales@cal-royal.com

CO PARISON CHART

GRADE C INDERICA E ER SG DESIGN

FUNCTION	CA RO A SG SERIES	SCH AGE	FA CON D	A E 00 N	PD
Entrance	SG-00	S 1PD	21	307LN	SE-116
Storeroom	SG-0	S 0PD	1	30 LN	----
Classroom	SG-03	S70PD	61	30 LN	----
Privacy	SG-20	S 0D	301	302LN	SE-176
Passage	SG-30	S10D	101	301LN	SE-126
Dummy	SG- 0	S170	12	3 LN	SE-211
Communicating	SG- 0	----	161	----	SE-12

CAL-ROYAL
PRODUCTS, INC.

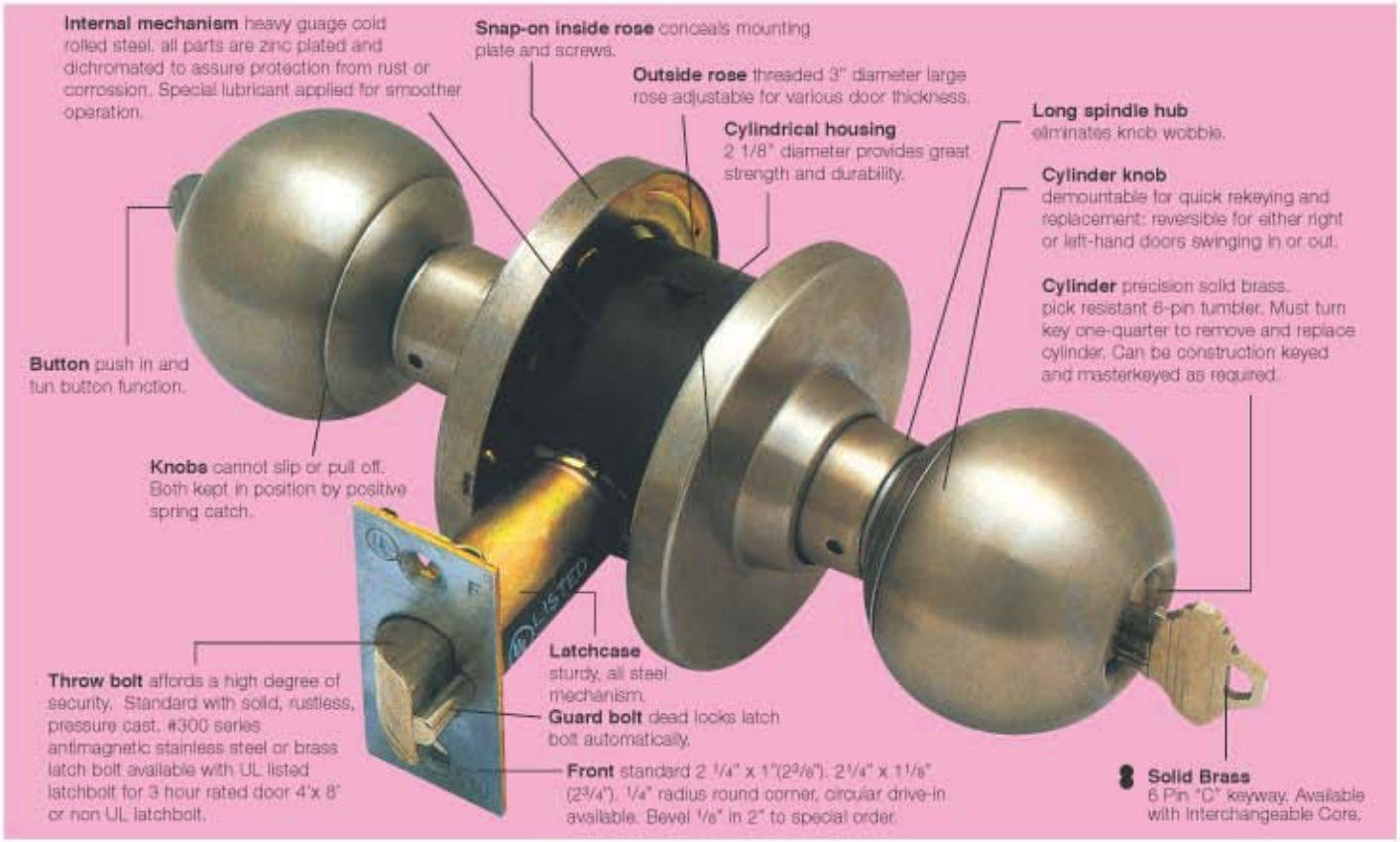
BA SERIES
ANSI GRADE 2
CYLINDRICAL LOCKSETS
UL LISTED, UL10C, UBC 7-2-1997
Available With Interchangeable Core

BARRINGTON

QUALITY DESIGNED AND ENGINEERED FOR RESIDENTIAL AND COMMERICAL BUILDINGS

CONSTRUCTION FEATURES: This is an inside look at one of Cal-Royal's heavy duty locksets. Many superior construction features that combine great strength with satin smooth operation.

Lifetime Warranty
BHMA CERTIFIED



Plymouth and Tulip styles (equivalent to schlage "A Series) are available. Subject to leadtime.



CROSS REFERENCE INFORMATION

"BARRINGTON" BA STANDARD DUTY CYLINDRICAL LOCKS-ANSI GRADE 2

FUNCTION	CAL-ROYAL BA	SCHLAGE A	CORBIN 5600	RUSSWIN 3300	SARGENT 6 LINE	YALE 5300	ARROW 151	PDQ SV	ANSI NO.	FED. NO.
Entrance	BA-00	A53PD	5651	3340	6G05	5307	151	SV116	F81-2	160A
Privacy	BA-20	A40S	5620		6U65		157	SV176	F76-2	160L
Passage	BA-30	A10S	5610	3310	36U15	5301	156	SV126	F75-2	160N
Storeroom	BA-05	A80PD	5657	3352	6G04	5305	151F	SV115	F86-2	160D
Classroom	BA-03	A70PD	5655	3340-/8FCI	6G37	5308	151S	SV148	F84-2	160R
Double Cyl.	BA-04	A66D	-	3340-/8	-	5316	-	SV137	-	-
Sgl. Dummy	BA-40	A170	1/2 DT		6U93	355	125	SV211	F79-2	-
Hotel	BA-HI	A85PD	5629	3342	6G50	5322	151H	SV161	F93-2	160H
Closet	BA-60	A25D	5611	3316	6G15-3	5328	156CB	SV125	-	-

CAL-ROYAL BARRINGTON SERIES SPECIFICATIONS AND FUNCTIONS

SPECIFICATIONS

Exposed Trim: Wrought brass, bronze or stainless steel.
Door Ranges: Adjustable for 1⅜" to 1¾" door thickness.
Backset: Standard 2¾", 2⅜", 3¾" or 5" extension available.
Strikes: ANSI strike (standard) 4⅞" x 1¼". Optional T or full lip strike available.
Finishes: US32D, US10B, US3, US10. Other finishes not shown available subject to quantity and leadtime.
Keying: 6-pin "C" keyway. 2 keys per lock.

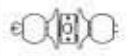
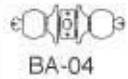
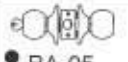
Additional Keyways: Schlage E, Russwin D1, L4, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale GA, and Yale 8, Kwikset. Can also accept Medeco, Assa, and Kaba High Security Cylinders.
Bore Diameter: 1" for latch, 2⅛" for lock housing.
Interchangeable Core: Interchangeable core locks will accept compatible 6 or7 pin core with BEST, FALCON and ARROW. Prefix "IC" before part number. Available combinated or uncombinated. Temporary construction cores available. Factory keying with control key and masterkey available.

Cal-Royal heavy duty cylindrical lock meets or exceeds requirements of BHMA/ANSI A156.2 series 4000 for grade 2 (FF-H-106C)

FUNCTIONS

INDICATES FUNCTION AVAILABLE WITH INTERCHANGEABLE CORE

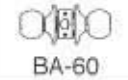
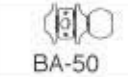
KEYED LOCKS

CODE NO.	DESCRIPTIONS	ANSI
 BA-01	ENTRANCE LOCK PUSH BUTTON Pushing button in inside knob locks outside knob. Turning inside knob or operating key in outside knob releases button automatically. Closing door does not release button. Botton may be fixed in locked position by turning to horizontal position. Inside knob always free. Latch bot automatically deadlocks When door is closed.	F82-2
 BA-00	ENTRANCE LOCK TURN BUTTON Pushing turn-button in inside knob locks outside knob. Turning inside knob or operating key in outside knob or operating key in outside knob releases button automatically. Closing door does not release button. Botton may be fixed in locked position by turning to horizontal position. Inside knob always free. Latchbolt automatically deadlocks When door is closed.	F82-2
 BA-02	STORE DOOR LOCK Dead locking latch bolt operated by knob from either side, except when both knobs are locked by key in knob from either side.	F91-2
 BA-03	CLASSROOM LOCK Dead locking latch bolt operated by knob from either side except when outside knob is locked from outside by key. When outside knob is locked, latch bolt is operated by key in outside knob or by rotating inside knob.	F84-2
 BA-04	COMMUNICATING LOCK Dead locking latch bolt operated by knob from either side. Turning key in either knob locks or unlocks its own knob independently	F80-2
 BA-05	STOREROOM LOCK Dead locking latch bolt operated by key in outside knob or by rotating inside knob. Outside knob is always fixed.	F86-2
 BA-06	VESTIBULE LOCK Dead locking latch bolt operated by knob from either side except when outside knob is locked by key from inside. latch bolt may be retracted by key in outside knob or by rotating inside knob.	F88-2
 BA-07	SERVICE STATION LOCK Dead locking latch bolt operated by knob from either side except when outside knob is locked by push button inside. Key outside, rotating inside knob or closing door releases push button unlocking outside knob excep when slotted push button is in a locked position. Inside knob always operates.	F92-2
 BA-08	CORRIDOR LOCK Dead locking latch bolt operated by knob from either side except when outside knob is locked by key in outside knob or by push button in inside. Key in outside knob locks or unlocks outside knob. Rotation inside knob releases push button. Closing door releases push button. Inside knob always operates.	F90-2

KEYED LOCKS

CODE NO.	DESCRIPTIONS	ANSI
 BA-09	INSTITUTION LOCK Dead locking latch bolt operated by key in knob from either side. Both knob always fixed.	F87-2
 BA-H1	HOTEL-MOTEL LOCK Dead locking latch bolt operated by knob from inside at all times. Outside knob always fixed. Latch bolt operated by key from outside except when push button inside is operated thus shutting out all keys except emergency key. Inside push button provides lockout feature by keeping indicator thrown. Turning inside knob or closing door releases indicator and shut out feature.	F93-1

KEYED LOCKS

CODE NO.	DESCRIPTIONS	ANSI
 BA-10	PATIO LOCK Dead locking latch bolt operated by knob from either side. Outside knob is locked by push button inside and unlocked by rotating inside knob or closing door.	F77-2
 BA-20	PRIVACY LOCK Latch bolt operated by knob from either side. Outside knob is locked by push button inside and unlocked by emergency release outside, rotating inside knob or closing door.	F76-2
 BA-20H	HOSPITAL PRIVACY LOCK Latch bolt operated by knob from either side. Outside knob is locked by push button inside and unlocked by turn-button outside, rotating inside knob or closing door.	
 BA-30	PASSAGE LATCH Latch bolt operated by knob from either side at all times.	F75-2
 BA-60	EXIT LOCK Dead locking latch bolt operated from inside only. Outer knob always fixed.	F89-2
 BA-50	EXIT LOCK Dead locking latch bolt operated from inside only. Blank plate outside. Specify door thickness: 1⅜" or 1¾".	

DUMMY TRIM

		ANSI
 BA-40	SINGLE DUMMY TRIM Single dummy trim for one side of door. Pull only	

Refer to price list for functions and finishes in stock. All other functions and finishes not listed are available on special order.

CAL-ROYAL
PRODUCTS, INC.
6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com • Email: sales@cal-royal.com

Lifetime Warranty
BHMA CERTIFIED

CAL-ROYAL
PRODUCTS, INC.

GRB SERIES
ANSI GRADE 1
CYLINDRICAL LOCKSETS
UL LISTED, UL10C, UBC 7-2-1997
Available With Interchangeable Core

OMEGA

QUALITY DESIGNED AND ENGINEERED FOR COMMERICAL BUILDINGS

CONSTRUCTION FEATURES: This is an inside look at one of Cal-Royal's heavy duty locksets. Many superior construction features that combine great strength with satin smooth operation.



Lifetime Warranty
BHMA CERTIFIED

Plymouth style (equivalent to Schlage "D" Series) is available. Subject to leadtime.

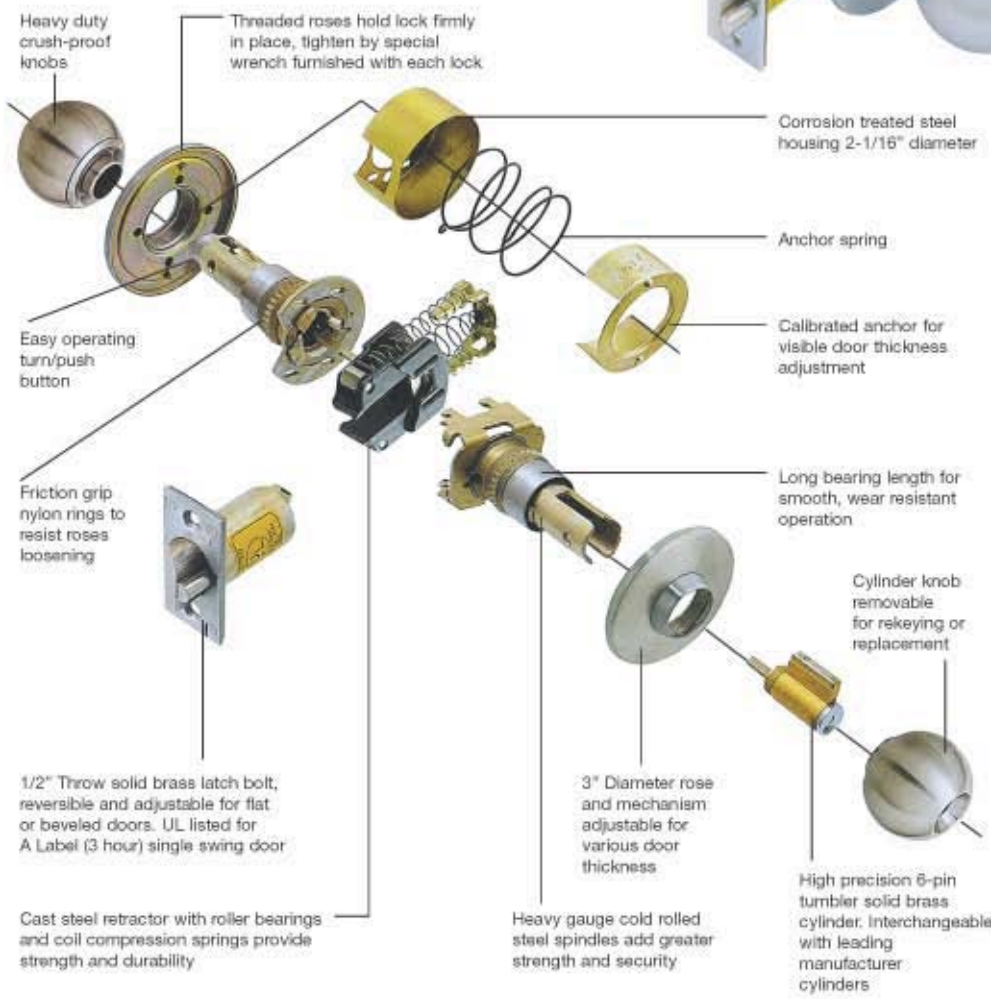


GRB



G1PLY

Omega heavy duty cylindrical lock meets or exceeds requirements of BHMA/ANSI A156.2 series 4000 for grade 1 (FF-H-106C)



CAL-ROYAL OMEGA SERIES SPECIFICATIONS AND FUNCTIONS

SPECIFICATIONS

Exposed Trim: Wrought brass, bronze or stainless steel.
Door Ranges: Adjustable for 1⅜" to 2"door thickness.
Backset: Standard 2¾". 2⅜" available.
Strikes: ANSI strike (standard) 4⅞"x1¼". Optional T or full lip strike available.
Finishes: US32D, US10B, US3, US10.
Other finishes not shown available subject to quantity and leadtime.
Keyway: 6-pin "C" keyway. 2 keys per lock.

- INTERCHANGEABLE CORE:
Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Prefix "IC" before part number. Available combinated or uncombinated. Temporary construction cores available. Factory keying with control key and masterkey available.

Additional Keyways: Schlage E, Russwin D1, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale GA, and Yale 8. Can also accept Medeco, Assa, and Kaba High Security Cylinders.
Bore Diameter: 1" for latch. 2⅛" for lock housing.
Handing: Completely reversible.
Electrical locks: Available on request.
Tactile & Lead Lining: Available on request.

FUNCTIONS

INDICATES FUNCTION AVAILABLE WITH INTERCHANGEABLE CORE

LOCATION CODE NUMBER	FUNCTION GRB SERIES	OPERATIONS	ANSI NUMBER
ENTRY/ OFFICE LOCK 01		**Push button locking.** Pushing button in inside lever locks outside lever until unlocked with key or turning inside lever. Closing door does not release button. *	F82
ENTRY/ OFFICE LOCK 00		**Turn/Push button locking.** Pushing and turning button locks outside knob requiring use of key until button is manually unlocked. Pushing button locks outside knob until unlocked with key or inside knob is turned. * *	F81
STORE DOOR LOCK 02		Deadlocking latchbolt operated by knob from either side, except when both knobs are locked by key in knob from either side.	F91
CLASSROOM LOCK 03		Deadlocking latchbolt operated by knob from either side except when outside knob is locked from outside by key. When outside knob is locked, latchbolt is operated by key in outside knob or by rotating inside knob.	F84
COMMUNICATING LOCK 04		Deadlocking latchbolt operated by knob from either side. Turning key in either knob locks or unlocks its own knob independently.	F80
STOREROOM LOCK 05		Deadlocking latchbolt operated by key in outside knob or rotating inside knob. Outside knob is always fixed.	F86
VESTIBULE LOCK 06		Deadlocking latchbolt operated by knob from either side except when outside knob is locked by key from inside, latchbolt may be retracted by key in outside knob or by rotating inside knob.	F88
INSTITUTIONAL LOCK 09		Deadlocking latchbolt operated by key in knob from either side. Both knobs always fixed.	F87
HOTEL/MOTEL LOCK H1		Deadlocking latchbolt operated by knob from inside at all times. Outside knob always fixed. Latchbolt operated by key from outside except when push button inside is operated thus shutting out all keys except emergency key. Inside push button provides lockout feature by keeping indicator thrown. Turning inside knob or closing door releases indicator and shut out feature.	F93
PATIO LOCK 10		Deadlocking latchbolt operated by knob from either side. Outside knob is locked by push button inside and unlocked by rotating inside knob or closing door.	F77
PRIVACY LOCK 20		Latchbolt operated by knob from either side. Outside knob is locked by push button inside and unlocked by emergency release outside, rotating inside knob or closing door.	F76
PASSAGE/CLOSET SET 30		Latchbolt operated by knob from either side at all times.	F75
SINGLE DUMMY TRIM 40		Single dummy trim for one side of door	
EXIT LATCH 50		Deadlocking latchbolt by inside knob. Outside knob rigid.	F89
CONNECTING ROOM/EXIT LOCK 60		Deadlocking latchbolt operated from inside only. Blank plate outside.	
CONNECTING ROOM/EXIT LOCK 63		Deadlocking latchbolt operated by knob from inside except when inside knob is locked by key. Blank plate outside.	

CAL-ROYAL

PRODUCTS, INC.

6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.

TEL: (323) 888-6601 FAX: (323) 888-6699

Website: cal-royal.com • Email: sales@cal-royal.com

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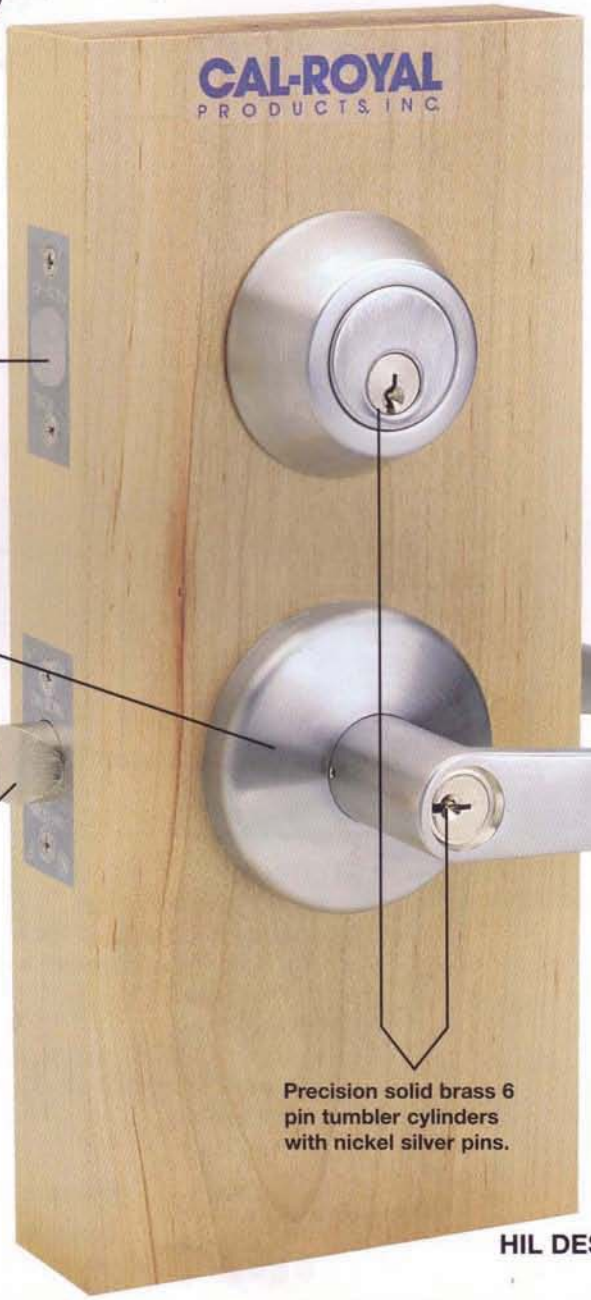
CAL-ROYAL
PRODUCTS, INC.

HIL SERIES
INTERCONNECTED LOCKS.
ANSI GRADE 2

LISTED 3 HOURS,
UL10C, UBC 7-2-1997

Optional lifetime finish

Available with interchangeable core on deadbolt and lever.



1" (25 mm) Throw deadbolt with concealed hardened steel roller.

Unique individual spring on exterior and interior side of lever to prevent lever sag.

1/2" (13 mm) Throw universal deadlatch reversible RH/LH, adjustable front for flat or beveled doors.
UL Listed
3 Hour Rated

Key removable outside lever for quick rekeying or cylinder replacement.

Precision solid brass 6 pin tumbler cylinders with nickel silver pins.

HIL DESIGN

INTERIOR



OPTIONAL EXTERIOR ESCUTCHEON PLATE PART # HILESC-1



ASTOR
HILAST DESIGN

Specify: Handing



Available with interchangeable core on deadbolt and lever.

DOVER
HILRL DESIGN



Available with interchangeable core on deadbolt only.

MANHATTAN
HILMAN
DESIGN



Available with interchangeable core on deadbolt and lever.

GENERAL SPECIFICATIONS

Simultaneous retraction on both latch and deadbolts from inside by turning the lever in a panic-proof exit situation. Top lock is heavy duty deadbolt with the bottom lock having a cylinderical body. High security with a double locking point using the keyed lock function.

ANSI STANDARDS

Meets ANSI A 156.12 Series Grade 2 Requirements.

CYLINDERS & KEYWAYS

6 pin solid brass "C" keyway standard.
Schlage C-K, Russwin D1, L4, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale 8, KWIKSET (optional).

- Indicates **deadbolts** are available with interchangeable core. Interchangeable core deadbolts will accept compatible 6 or 7 pin core with BEST, FALCON and ARROW. Prefix "IC" before part number.
- Available with interchangeable core on deadbolt and lever.

HOUSING

Steel and Zinc dichromate finish for rust resistance.

TRIM

Lever design as in picture.
Lever length 4½", with a ⅜" return.

FINISHES

626: (US26D) Satin Chrome
605: (US3) Polished Brass
613: (US10B) Oil Rubbed Bronze
Other finishes available with lead time.

DOOR RANGE

1⅜"-1¾" Thickness.

STRIKES

Standard "T" strike furnished with lock set, 2¾" x 1⅛" square strike with deadbolt.

ESCUTCHEON

6⅞" x 2⅝" brass plated. Packed with interior escutcheon. Optional exterior escutcheon available.

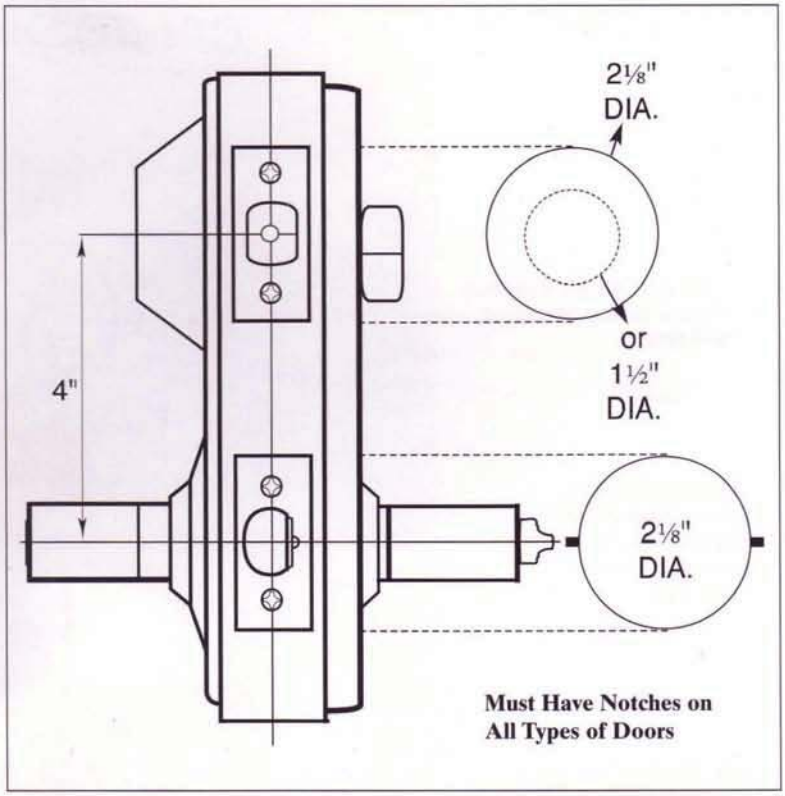
FUNCTIONS

Classroom, storeroom, & dummy available upon request.

DEADBOLT

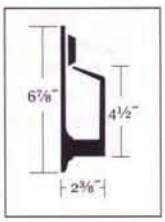
1" throw. Brass with hardened steel pin. Adjustable 2¾" or 2⅜" (front 2¼" x 1⅛" square)

DOOR PREPARATION



LATCHBOLT

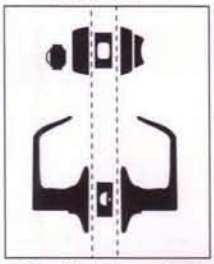
"UL" listed for 3 hour doors.
2¾" standard backset, ½" throw
front 2¼" x 1⅛". 2⅜" backset is optional.



HOW TO ORDER

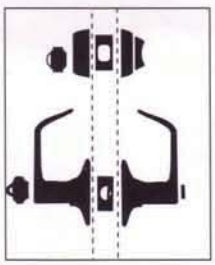
When ordering HILAST design, replace design name. Example: HIL-00 in HILAST design is HILAST-00.

HIL-30 Entrance, Single Locking



Deadbolt thrown or retracted by key in upper lock from outside or by inside turn unit. Latchbolt retracted by lever from either side. lever retracts deadbolt and latchbolt simultaneously for immediate exit.

HIL-00 Entrance, Double Locking



Deadbolt thrown or retracted by key in upper lock from outside or by inside turn lever unit. Deadlatch retracted by key in outer when locked by pushing turn-button in inner lever. Outer lever may be fixed in locked position by rotating turn-button. Turning inside lever retracts deadbolt and latchbolt simultaneously for immediate exit.

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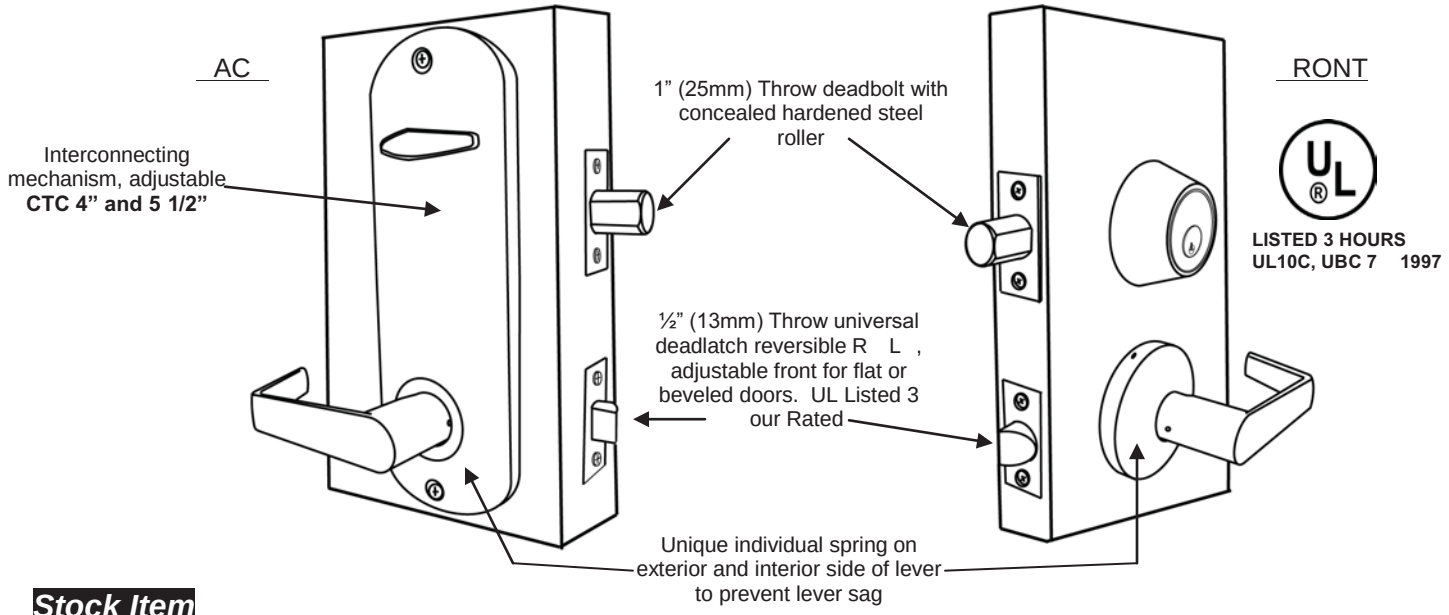
Distributed by:

JHIL *Series list price.....*

Interconnected Entrance Lever Series

With Interconnecting Mechanism, Adjustable CTC 4" and 5-1/2"

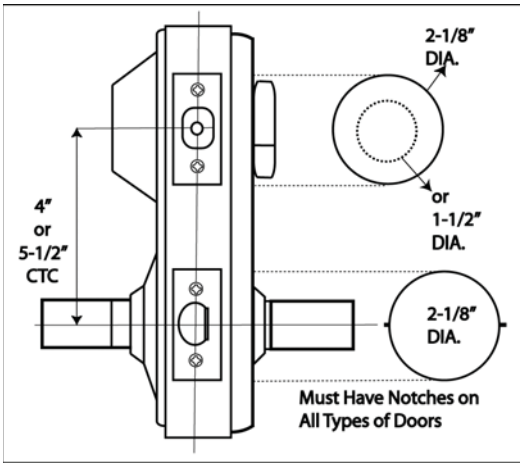
(Available With Interchangeable Core) ANSI - A156.2, Grade 2, UL Listed



Stock Item

ITEM#	FUNCTIONS	6D	PCS /MC	UNIT
IL-30	Entrance, single locking	12 .	10	Ea.

Entrance double locking other finishes available subject to quantity and Lead-time



►PACKAGING INCLUDES

- UL Listed 2 " backset, 2 " x¼1' faceplate
- Standard "C", 6 pin cylinder T Strike, square strike 2 " ⅛1 for deadbolt

►OTHER KEYWAYS

Refer to page L36

wikset and eiser keyways available at no extra charge with factory order subject to lead time.

►KEYING CHARGES

Refer to page L36

►ADDITIONAL PARTS & CHARGES

♦♦♦ STANDARD DISCOUNT ONLY ♦♦♦

UL listed 2⅜", (2¼" x 1") faceplate, **NO EXTRA CHARGE** if ordered with lock only.
Otherwise 11.2 list each.

ITEM#	FINISH	DESCRIPTION	UNIT
IL-23	US3, US26D,US10	Dead latch 2⅜" for lever lock	
D -23	US3, US26D ,US10	Deadbolt latch 2⅜"	
♦ ***STRIKES***			
LS	US3, US26D, US10	ull Lip Strike	Ea.
ASAST	US3, US26D	ASA Strike	
ASAST	US10	ASA Strike	

QUANTITY DISCOUNT
50 UNITS – LESS 5%
100 UNITS – LESS 10%

CAL-ROYAL
PRODUCTS, INC.

SL/CSL SERIES
ANSI GRADE 2
CYLINDRICAL
LEVERSET
Available With Interchangeable Core

Meets ADA requirements.
Specially designed for Barrier Free Application
Conforms with ANSI A156.2 Series 4000, Grade-2.
Exceeds 400,000 cycles.

UL LISTED

PIONEER

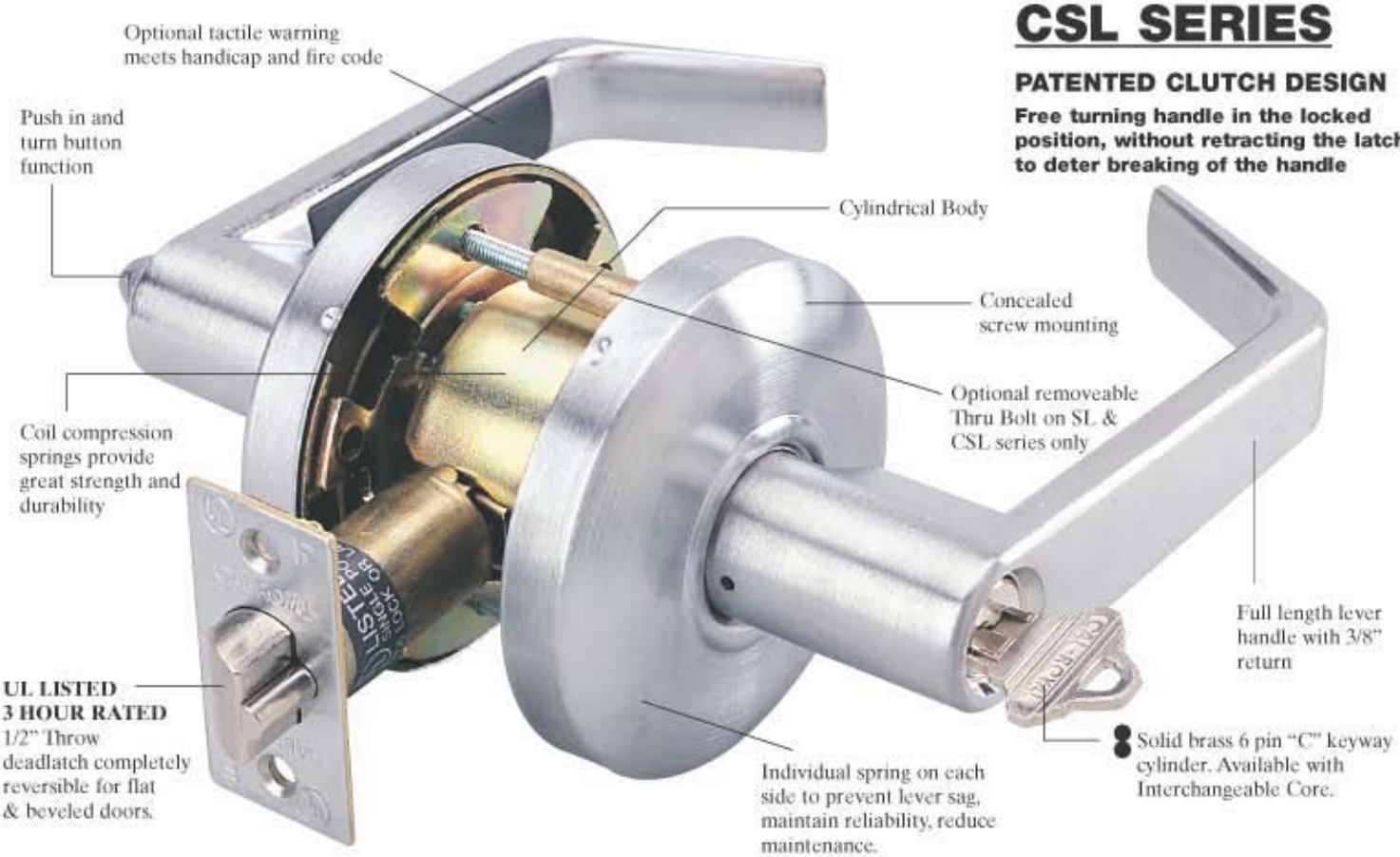
SL SERIES (NON CLUTCH MECHANISM)
CSL SERIES (CLUTCH MECHANISM)
LX SERIES (NON CLUTCH, FIXED THRUBOLT)

Lifetime Warranty
BHMA CERTIFIED

CSL SERIES

PATENTED CLUTCH DESIGN

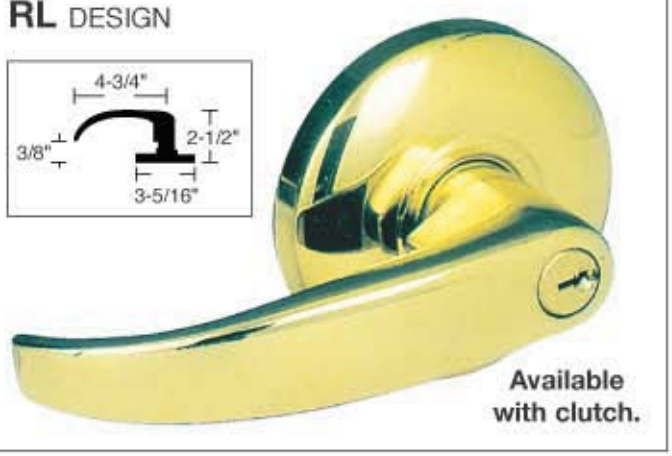
Free turning handle in the locked position, without retracting the latch, to deter breaking of the handle



AG DESIGN



RL DESIGN



FINISHES AVAILABLE

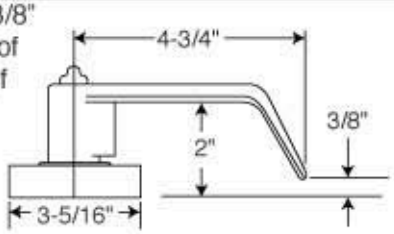
BHMA SYMBOL	US CODE	DESCRIPTION
605	3	Polished Brass
612	10	Satin Bronze
613	10B	Oil Rubbed Bronze
625	26	Bright Chrome
626	26D	Satin Chrome
606	4	Satin Brass

Other finishes available with lead time.

DIMENSIONS

The lever features a 3/8" return and projection of 2-1/2" from the face of door.

SL/CSL Design



SPECIFICATIONS

Applications
For offices, schools, hospitals, apartments, hotel/motel and other public buildings.

Door Ranges
1-3/8" to 1-3/4" thickness doors.

Backset
2-3/4" Standard, 2-3/8", 3-3/4" and 5" optional.

Front
2-1/4" X 1-1/8", adjustable for flat or beveled doors 1/8" in 2".

Strike
ASA strike standard, "T" and full lip strike available on request.

Latchbolt
1/2" Throw solid brass, reversible for RH or LH applications. UL listed.

Latch & Strike Screws
8-32 X 1" FPH dual purpose.

ANSI Standards
Meets or exceeds requirements of BHMA/ANSI A156.2 Series 4000 grade 2(FF-H 106C), 400,000 cycles.

Exposed Trim
Wrought brass, bronze or stainless steel, levers are Zinc casting, plated to match trim finish.

Keying
6-pin "C" keyway cylinder, 2 keys per lock. Keying as per individual job requirement.

Cylinders & Keyways
6 pin solid brass "C" key way standard. Schlage C-K, Russwin D1, L4, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale 8, Yale GA, Kwikset (Optional). Can also accept Medeco, Assa, and Kaba High Security Cylinders.

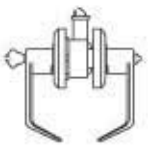
Clutch
Clutch available on all keyed locks and privacy functions. Prefix "C" before part number.

Tactile & Lead Lining
Available upon request.

Interchangeable Core
Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Prefix "IC" before part number. Available combinated or uncombinated. Temporary construction cores available. Factory keying with control key and masterkey available.

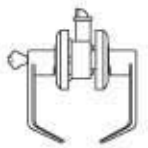
INDICATES FUNCTION AVAILABLE WITH INTERCHANGEABLE CORE

SL-00



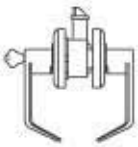
ENTRANCE/OFFICE LOCK
Turn/Push button locking. Pushing and turning button locks outside knob requiring use of key until button is manually unlocked. Pushing button locks outside knob until unlocked with key or inside knob is turned.
Prefix "C" for clutch system

SL-03

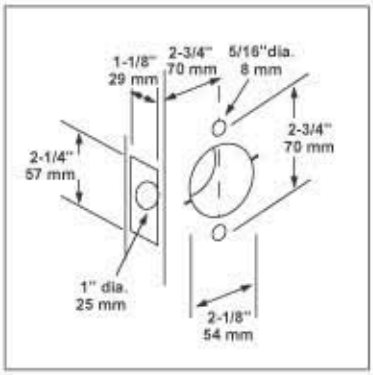


CLASSROOM LOCK
Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.
Prefix "C" for clutch system

SL-05

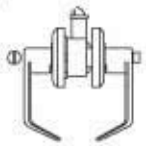


STOREROOM LOCK
Outside lever fixed. Entrance by key only. Inside lever always unlocked.
Prefix "C" for clutch system



Door Preparation When Optional Thru-Bolt Is Applied

SL-20



PRIVACY LOCK
Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door release push button.
Prefix "C" for clutch system

SL-30



PASSAGE SET
Latch bolt operated by lever from either side at all time.

SL-40



DUMMY LEVER
Single dummy trim for one side of door. Pull only.

SL-50



EXIT LOCK
Blank plate outside.
Inside lever always unlocked.

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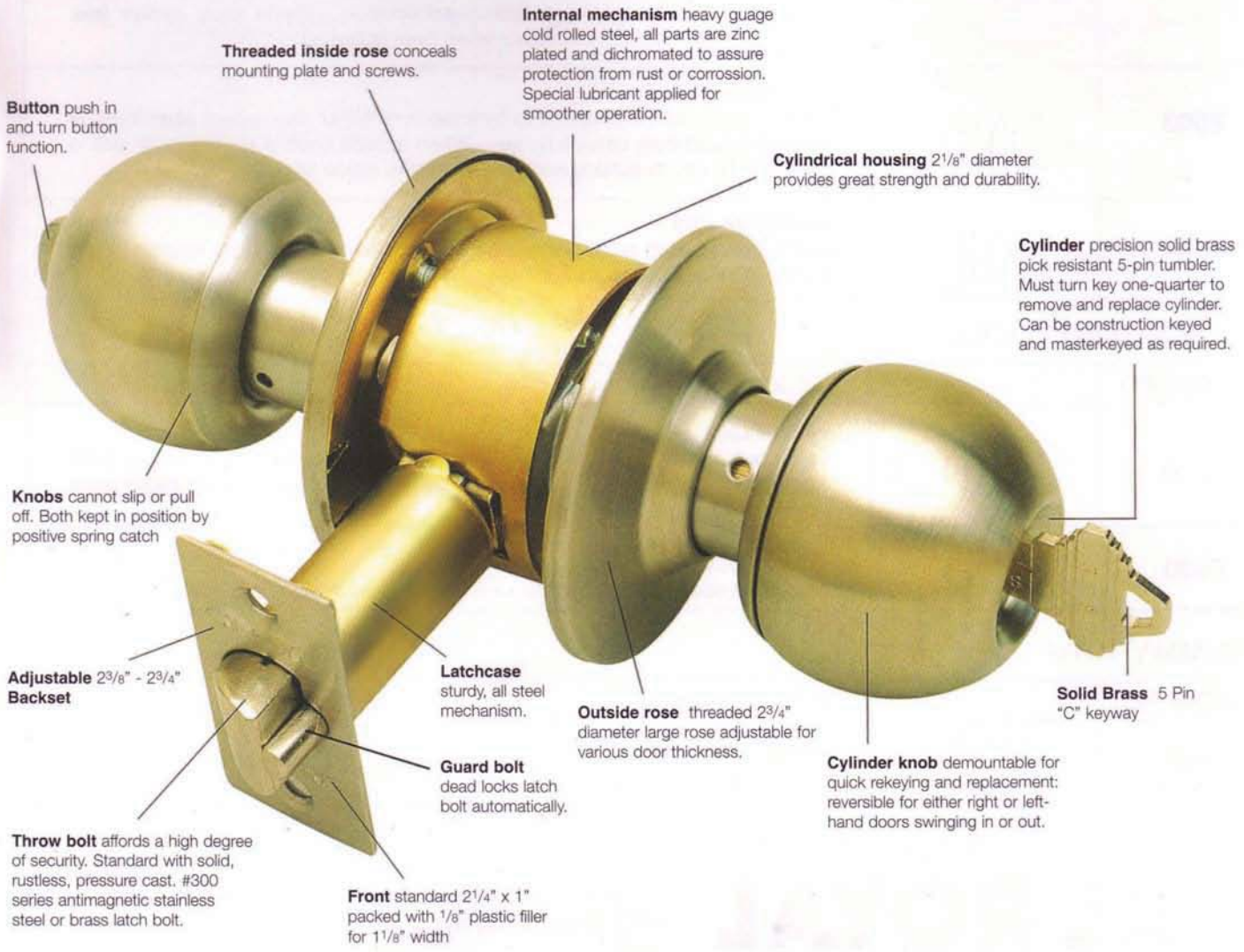
CAL-ROYAL
PRODUCTS, INC.

7500 SERIES
ANSI A156.2 GRADE 3
CYLINDRICAL LOCKSETS

COLUMBUS

QUALITY DESIGNED AND ENGINEERED FOR RESIDENTIAL AND COMMERICAL BUILDINGS

CONSTRUCTION FEATURES: This is an inside look at one of Cal-Royal's standard duty locksets. Many superior construction features that combine great strength with satin smooth operation.



CAL-ROYAL COLUMBUS SERIES SPECIFICATIONS AND FUNCTIONS

SPECIFICATIONS

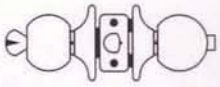
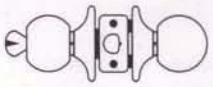
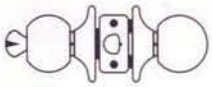
Exposed Trim: Wrought brass, bronze or stainless steel.
Door Ranges: Adjustable for 1⅜" to 1¾" door thickness.
Backset: Standard 2⅜"& 2¾" Adjustable.
Strikes: T strike standard. Optional ANSI or full lip strike available.
Finishes: US32D, US10B, US3, US10.
Other finishes not shown available subject to quantity and leadtime.

Keying: 5-pin "C" keyway. 2 keys per lock.
Additional Keyways: Schlage E, Russwin D1, L4, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale GA, and Yale 8, Kwikset. Can also accept Medeco, Assa, and Kaba High Security Cylinders.
Bore Diameter: 1" for latch. 2⅛" for lock housing.

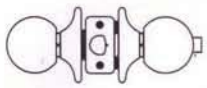
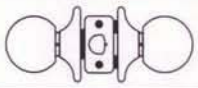
Cal-Royal heavy duty cylindrical lock meets or exceeds requirements of BHMA/ANSI A156.2 series 4000 for grade 3 (FF-H-106C)

FUNCTIONS

KEYED LOCKS

CODE NO.		DESCRIPTIONS
7500		**ENTRANCE LOCK** TURN BUTTON Pushing turn-button in inside knob locks outside knob. Turning inside knob or operating key in outside knob or operating key in outside knob releases button automatically. Closing door does not release button. Button may be fixed in locked position by turning to horizontal position. Inside knob always free. Latchbolt automatically deadlocks when door is closed.
7503		**CLASSROOM LOCK** Dead locking latch bolt operated by knob from either side except when outside knob is locked from outside by key. When outside knob is locked, latch bolt is operated by key in outside knob or by rotating inside knob.
7505		**STOREROOM LOCK** Dead locking latch bolt operated by key in outside knob or by rotating inside knob. Outside knob is always fixed.

NON KEYED LOCKS

CODE NO.		DESCRIPTIONS
7520		**PRIVACY LOCK** Latch bolt operated by knob from either side. Outside knob is locked by push button inside and unlocked by emergency release outside, rotating inside knob or closing door.
7530		**PASSAGE LATCH** Latch bolt operated by knob from either side at all times.

DUMMY TRIM

CODE NO.		DESCRIPTIONS
7540		**SINGLE DUMMY TRIM** Single dummy trim for one side of door. Pull only.

Refer to price list for functions and finishes in stock.

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CAL-ROYAL
PRODUCTS, INC.

LEGEND SERIES LEVERSETS

700Series Leverset Standard Duty



•**703:**Passage Latchset

•**705:**Dummy

★ •**702:**Privacy Lockset

★ (Turning inside lever or closing door releases button)

SPECIFICATIONS

For Doors :
1⅜" (35mm) to 1¾"(45mm) thick
Backset :
2⅜" (60mm),2¾"(70mm)
Front :
Wrought Brass, Bronze or Stainless Steel.
Strike :
Wrought Brass, Bronze or Stainless Steel.
Available Full-Lip Strike as well as T-Strike.
Latches :
With Die-Cast Zinc, Chrome, or Brass Plated
7/16" (11mm) Throw Latch Bolt.
Construction : Cylindrical Body.

FINISHES

613, 652, 605, 625, 606, 609
Functions Available: Privacy, Passage and Dummy. Ball knob exterior with lever interior. (Available upon request. "C" keyway.)

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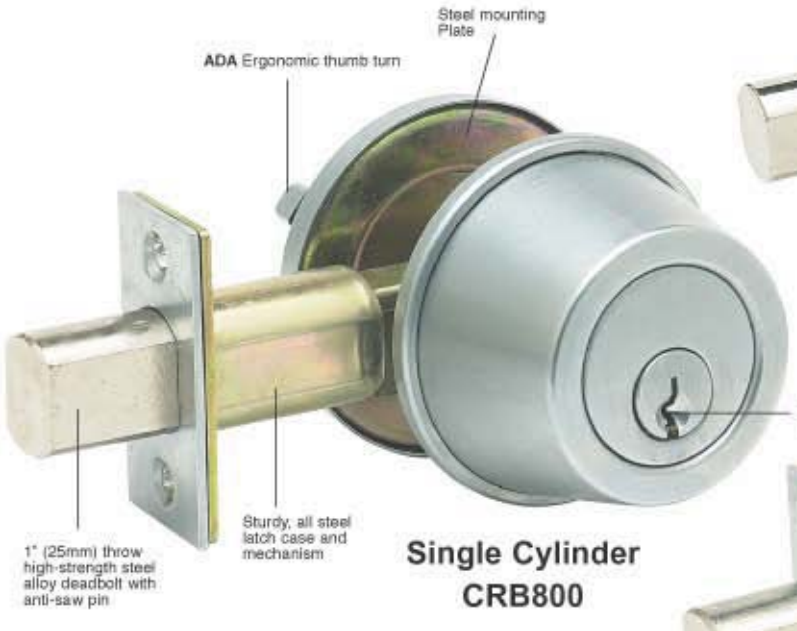
CAL-ROYAL
PRODUCTS, INC.

MAXIMUM SECURITY HEAVY-DUTY DEADBOLTS
ANSI A156.5 GRADE 1

Available With Interchangeable Core

A Heavy Duty commercial quality deadbolt that provides a positive deterrent to forced entry. The cylinder recesses into the door to resist blows attempting to move the lock.

CONSTRUCTION FEATURES



Single Cylinder
CRB800



Double Cylinder
CRB700



Single Cylinder
ICCRB800
Double Cylinder
ICCRB700

Lifetime Warranty

BHMA CERTIFIED

SPECIFICATIONS

Trim	:Wrought brass or stainless steel.
Door Ranges	:Adjustable 1⅜" to 2⅛" thickness.
Backset	:2¾" or 2⅜". Specify.
Face Plate	:Standard 2¼" x 1⅛".
Bore Diameter	:1" for latch, 2⅛" for lock Housing.
Keyway	:6 pin high security "C" keyway. :Additional keyways: SCHLAGE C-K, SARGENT LA, RUSSWIN D1, L4, FALCON/WEISER E, KWIKSET, CORBIN 60, ARROW, YALE 8, YALE GA.
Finishes	:US26D, US10B, US3, US26, US4 Other finishes available upon request, subject to lead time and quantity.
Strike	:1⅛" x 2¾" square corner.

Extra security 1" throw bolt with ¼" free spinning anti-cut through pin. 3" screws with wood frame reinforcer greatly strengthens door frames.

- INTERCHANGEABLE CORE:
Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.

Interchangeable Cores: Available combinated or uncombinated.
Temporary construction cores available.
Factory keying with control key and masterkey available.

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CAL-ROYAL
PRODUCTS, INC.

T300 MAXIMUM SECURITY HEAVY-DUTY DEADBOLTS
ANSI A156.5 GRADE 2

A Heavy Duty commercial quality deadbolt that provides a positive deterrent to forced entry. The cylinder recesses into the door to resist blows attempting to move the lock.

CONSTRUCTION FEATURES

Lifetime Warranty

BHMA CERTIFIED



UL®

LISTED 3 HOURS, UL10C, UBC 7-2-1997

STANDARD ADJUSTABLE 2¾", 2⅜" DEADLATCH

SPECIFICATIONS

Material	:Wrought brass or stainless steel.
Door Ranges	:Adjustable 1⅜" to 1¾" thickness.
Backset	:Adjustable 2⅜" or 2¾". Optional UL listed. Prefix "UL" before part# for UL listed latch.
Face Plate	:Standard 2¼" x 1" packed with ⅛" plastic filler for 1⅛" width.
Bore Diameter	:1" for latch, 2⅛" for lock Housing.
Keyway	:6 pin high security "C" keyway. :Additional keyways: SCHLAGE C-K, SARGENT LA, RUSSWIN D1, FALCON/WEISER E, KWIKSET, CORBIN 60, ARROW, YALE 8, YALE GA.
Finishes	:US26D, US10B, US3, US26, US4 Other finishes available upon request, subject to lead time and quantity.
Strike	:1⅛" x 2¾" square corner.

Extra security 1" throw bolt with ¼" free spinning anti-cut through pin. 3" screws with wood frame reinforcer greatly strengthens door frames.

CAL-ROYAL
PRODUCTS, INC.
2110 TUBEWAY AVE, COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com • Email: sales@cal-royal.com

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CAL-ROYAL
PRODUCTS, INC.

Standard Duty Deadbolts

- **Available With Interchangeable Core Best, Falcon & Arrow**
- **Available With Interchangeable Core To Accept Schlage Full Size Format OEM Interchangeable Core**

A commercial quality deadbolt that provides a positive deterrent to forced entry. A massive free spinning cylinder guard ring will withstand massive attempts to force the cylinder. The cylinder recesses into the door to resist blows attempting to move the lock



SINGLE CYLINDER
T220 SERIES
- **ICT220 (BEST SMALL FORMAT)**
- **SCICT220 (SCHLAGE BIG FORMAT)**



ADA

DOOR BOLT ID-60 SERIES



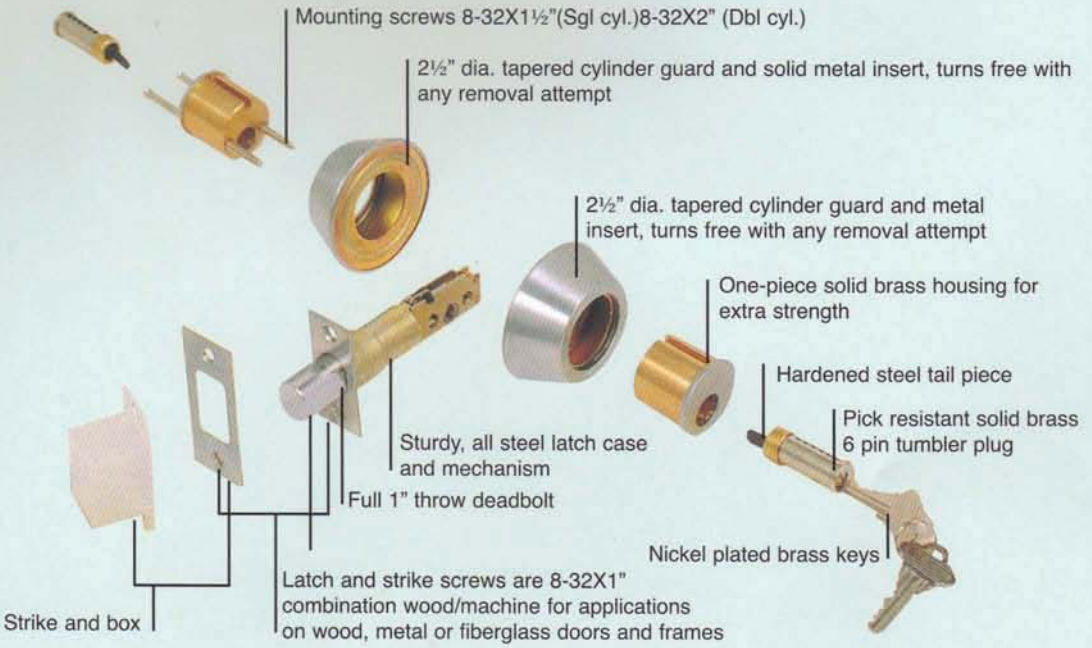
DOUBLE CYLINDER
T330 SERIES
- **ICT330 (BEST SMALL FORMAT)**
- **SCICT330 (SCHLAGE BIG FORMAT)**



ADA

DOOR BOLT ID-58 SERIES

CONSTRUCTION FEATURES



- **- INTERCHANGEABLE CORE:**
  Interchangeable core deadbolts will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Add "IC" before part number.

SPECIFICATIONS

Material	:Wrought brass or stainless steel.
Finishes	:US3, US10, US10B, US26D, US26, US4
Door Ranges	:Adjustable 1⅜" to 1¾" thickness.
Backset	:Fixed 2⅜" or 2¾".Specify.
Face Plate	:Standard 2¼" x 1". Packed with ⅛" filler for 1⅛".
Strike	:1⅛" x 2¾" square corner.
Bore Diameter	:1" for latch, 2⅛" for lock housing.
Keyway	:6 pin high security "C" keyway.

Extra security 1" throw bolt with ¼" free spinning anti-cut through pin.
Cylinder guard ring. Solid brass cylinder and massive free spinning.

- Interchangeable core deadbolts will accept schlage full size format OEM interchangeable core.

CAL-ROYAL
PRODUCTS, INC.
6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
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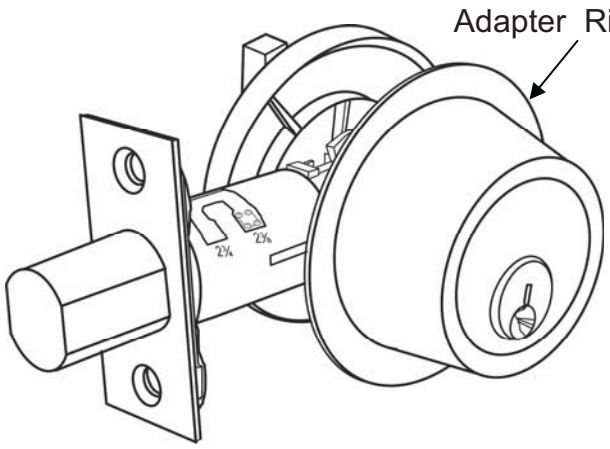
Distributed by :

New Product

October 2008

CB160 *Series list price*.....

Commercial / Residential Grade 2 Deadbolts, meets Grade 2 Specifications
Equivalent to Schlage B160 – Series Deadbolts





ITEM#	DESCRIPTION	FINISH	PCS/MASTER CARTON	UNIT
CB160	Heavy duty single cylinder deadbolt	US3, 26D US10, 10B 26, 4, 5, 15	20	Ea.
CB162	Heavy duty double cylinder deadbolt	US3, 26D US10, 10B 26, 4, 5, 15	20	Ea.

►PACKAGING INCLUDES

- 2½" Diameter Adapter Ring for 2⅛" Door Preparations
- Standard "C" 6 pin cylinder
- Adjustable 2¾" and 2⅜" backset
- Latch: Backset latch size 1" x 2¼" faceplate, packed with latch front adapter to convert 1" face plate for 1⅛" wide door preparations
- Strike: 1⅛" x 2¾"

►KEYING CHARGES

Refer to page L36 in main catalogue

►OTHER KEYWAYS

Refer to page L36 in main catalogue

►ADDITIONAL PARTS

*** STANDARD DISCOUNT ONLY ***

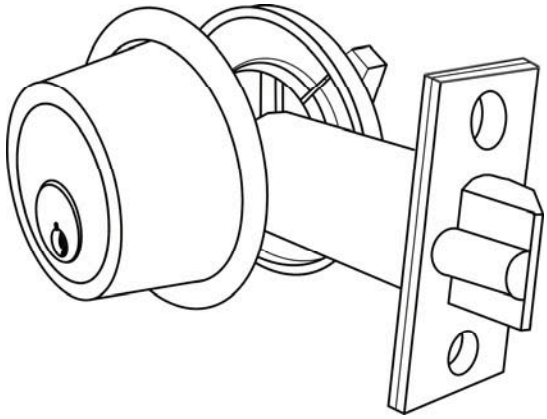
ITEM#	DESCRIPTION	FINISH	UNIT
T2STRK	Deadbolt strike 1⅛" X 2¾"	US3 US10B US26D	Ea.

CAL-ROYAL PRODUCTS, INC.
Tel: 800-876-9258 / Fax: 800-222-3316

New Product

October 2008

CB160 GATE LATCH DEADLATCHES *Series list price*



ITEM#	DESCRIPTION	FINISH	PCS/MASTER CARTON	UNIT
GL160 (2⅜" backset)	Single cylinder gate Latch, "C" keyway	US26D, 3 US10B,26, 10, 4, 5, 15	20	Ea.
GL162 (2⅜" backset)	Double cylinder gate Latch, "C" keyway	US26D, 3 US10B,26, 10, 4, 5, 15	20	Ea.

For 2¾" backset: Suffix 234 at end of part# Example: GL160/234

►PACKAGING INCLUDES

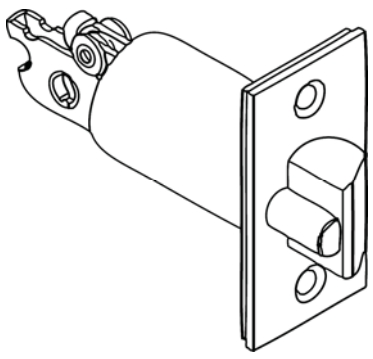
- Standard "C" 6 pin cylinder
- Standard 2⅜" backset or 2¾". Specify backset. **For 2¾" suffix 234 at end of part#.**
- Latch bolt size: 1⅛" x 2¼"
- Strike size: 1⅛" x 2¾"

► KEYING CHARGES

- Refer to page L36 in main catalogue

Finishes not shown are available subject to quantity and lead-time.

GL-238/GL-234



►ADDITIONAL PARTS

ITEM#	DESCRIPTION		UNIT
GL-238	2⅜" deadlatch (1⅛" x 2¼")		Ea.
GL-234	2¾" deadlatch (1⅛" x 2¼")		
T2STRK	Deadbolt strike 1⅛" x 2¾"	FINISH	
		US3	
		US10B	
		US26D	

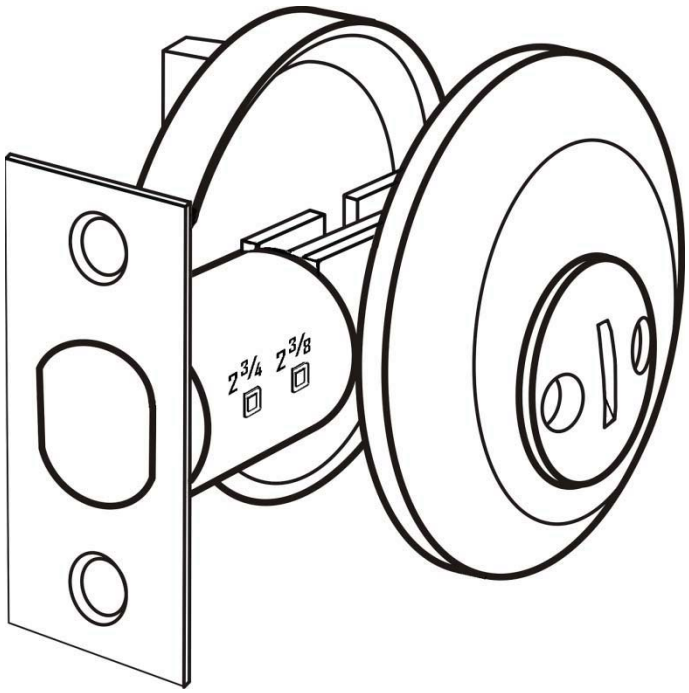
CAL-ROYAL PRODUCTS, INC.

CAL-ROYAL PRODUCTS, INC.
Tel: 800-876-9258 / Fax: 800-222-3316

New Products

November 2007

Commercial / esidential Indicator eadbolts



ITE	DESCRIPTION	FINISH	PCS ASTER CARTON	UNIT
IND-	Indicator Deadbolt	US26D	36	Ea.
		US3	36	Ea.
		US	36	Ea.
		US10	36	Ea.

►PACKAGING INCLUDES

- Adjustable 2 " and 2⅜" backset
- Latch: Backset latch size 1" x 2¼" faceplate. Latch front adapter is provided to convert 1" face plate for 1⅛" wide door preparations. See below.
- Strike: 1⅛" x 2¾"

►ADDITIONAL PARTS

STANDARD DISCOUNT ON

ITE	DESCRIPTION	
L A-1	Latch front adapter to convert 1" face plate to 1⅛" wide door preparations	
T2STR	Deadbolt strike 1⅛" X 2¾"	FINISH
		US3
		10
		26D

CAL-ROYAL PRODUCTS, INC.

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T 00 7 F 00

CAL-ROYAL
PRODUCTS, INC.

Gate Latch Deadlatches

Available With Interchangeable Core

A commercial quality gate latch that provides a positive deterrent to forced entry. A massive free spinning cylinder guard ring will withstand massive attempts to force the cylinder. The cylinder recesses into the door to resist blows attempting to move the lock



SINGLE CYLINDER
GL220 SERIES
GL220-"C" KEYWAY
KWGLT220-KW KEYWAY



DOOR BOLT GL60 SERIES

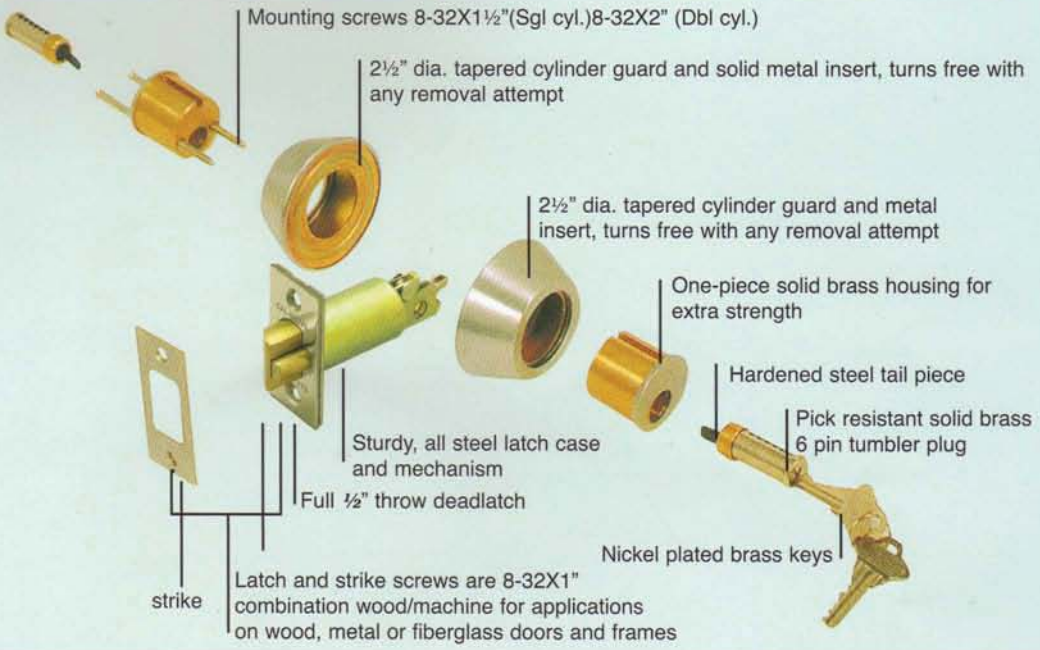


DOUBLE CYLINDER
GL330 SERIES
GL330-"C" KEYWAY
KWGLT330-KW KEYWAY



DOOR BOLT GL58 SERIES

CONSTRUCTION FEATURES



- INTERCHANGEABLE CORE:
Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Add "IC" before part number.

Interchangeable Cores: Available combinated or uncombinated.
Temporary construction cores available.
Factory keying with control key and masterkey available.

SPECIFICATIONS

Material	:Wrought brass or stainless steel.
Finishes	:US3, US10, US10B, US26D, US26, US4, US5
Door Ranges	:Adjustable 1⅜" to 1¾" thickness.
Backset	:Fixed 2⅜" or 2¾".
Face Plate	:Standard 2¼" x 1⅛".
Strike	:1⅛" x 2¾" square corner.
Bore Diameter	:1" for latch, 2⅛" for lock housing.
Keyway	:6 pin high security "C" keyway and kwikset KW keyway.

Extra security ½" deadlatch. Cylinder guard ring. Solid brass cylinder and massive free spinning.

CAL-ROYAL
PRODUCTS, INC.
6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
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CAL-ROYAL
PRODUCTS, INC.

LSD SERIES STANDARD DUTY DEADBOLTS
ANSI GRADE 3

A commercial quality deadbolt that provides a positive deterrent to forced entry. A massive free spinning cylinder guard ring will with stand massive attempts to force the cylinder. The cylinder recesses into the door to resist blows attempting to move the lock.



SINGLE CYLINDER LSD-01 SERIES



DOUBLE CYLINDER LSDD-88 SERIES

CONSTRUCTION FEATURES



STANDARD ADJUSTABLE 2¾", 2⅜" DEADLATCH

SPECIFICATIONS

Material	:Wrought brass or stainless steel.
Door Ranges	:Adjustable 1⅜" to 1¾" thickness.
Backset	:Adjustable 2⅜" or 2¾"
Face Plate	:Standard 2¼" x 1". Packed with latch front adaptor to convert 1" face plate for 1⅛" wide door preparation.
Bore Diameter	:1" for latch, 2⅛" for lock Housing.
Keyway	:6 pin high security "C" keyway. :Additional keyways: SCHLAGE C-K, SARGENT LA, RUSSWIN D1, FALCON/WEISER E, CORBIN 60, ARROW, YALE 8, YALE GA.
Finishes	:US32D, 26D, US10B, US3, US26 Other finishes available upon request subject to lead time.
Strike	:1⅛" x 2¾" square corner.

Extra security 1" throw bolt with ¼" free spinning anti-cut through pin. Cylinder guard ring. Solid brass cylinder and massive free spinning.

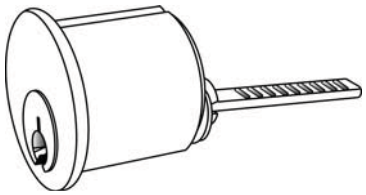
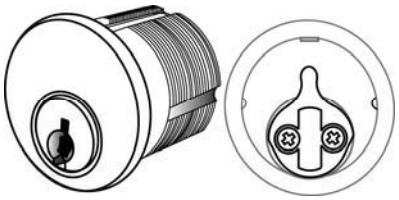
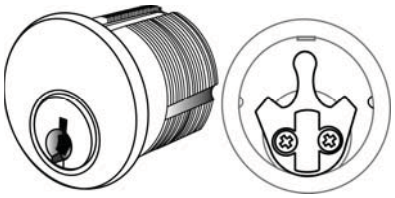
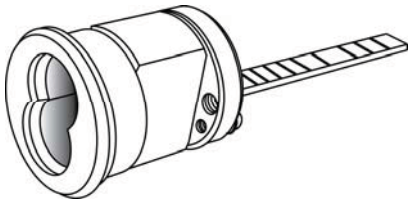
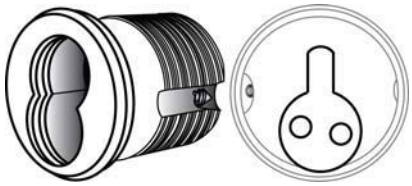
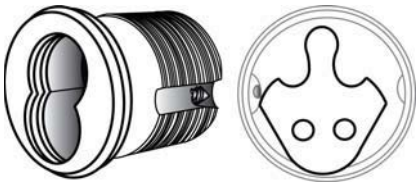
CAL-ROYAL
PRODUCTS, INC.

6605 FLOTILLA ST., CITY OF COMMERCE, CA 90040
FAX NO: 323-888-6699
TOLL FREE NO: 1-800-8 ROYAL 8

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CAL-ROYAL
PRODUCTS, INC.

RIM AND MORTISE CYLINDERS

ILLUSTRATION	ITEM#	DESCRIPTION	FINISH
	CX96RIM	6 Pin **SCHLAGE** "C" keyway 1-1/8" rim cylinder with mounting plate & screws	US26D
			US10B
			US3
	AMORTCYL118	6 Pin **SCHLAGE** "C" keyway mortise cylinder 1-1/8" length, with ADAMS RITE cam	US26D
			US10B
			US3
	AMORTCYL114	6 Pin **SCHLAGE** "C" keyway mortise cylinder 1-1/4" length, with ADAMS RITE cam	US26D
			US10B
			US3
	CMORTCYL118	6 Pin **SCHLAGE** "C" keyway mortise cylinder 1-1/8" length, with CLOVER LEAF cam	US26D
			US10B
			US3
	CMORTCYL114	6 Pin **SCHLAGE** "C" keyway mortise cylinder 1-1/4" length, with CLOVER LEAF cam	US26D
			US10B
			US3
	308	Best/Falcon 6/7 pin small format interchangeable core rim cylinder with mounting plate & screws	US26D
			US10B
			US3
	307-601	Best/Falcon 6/7 pin small format interchangeable core mortise cylinder, with ADAMS RITE cam, 1-1/4" length, packed with spacer collar for 1-1/8" length	US26D
			US10B
			US3
	307-602	Best/Falcon 6/7 pin small format interchangeable core mortise cylinder, CLOVER LEAF cam 1-1/4" length, packed with spacer collar for 1-1/8" length	US26D
			US10B
			US3

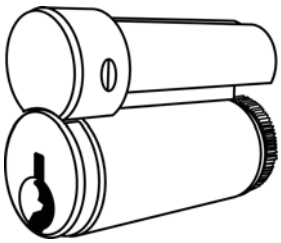
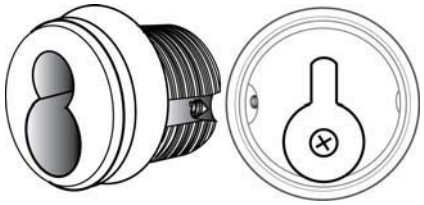
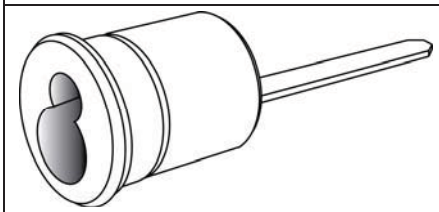
CAL-ROYAL PRODUCTS, INC.

New Products

SCHLAGE Large format 6 pin interchangeable core, mortise and rim cylinders

Features:

- Operates on all Schlage large format interchangeable core locksets, deadbolts, rim and mortise cylinders.
- Operates on Cal-Royal's Commander Grade 2 leversets with large format, Genesys Grade 1 leversets with large format IC Core, T220 Series deadbolts with large format IC core.
- Construction keying available on cylinders.
- Schlage "C", "E" and "CK" 6-pin rekeyable keyways.
- Keying Systems available with control and construction keys.
- Available in US26D and US3 and US10B finishes in rim and mortise cylinders.
- Keying Charges Refer to Page L36

ILLUSTRATION	ITEM#	DESCRIPTION	FINISH	UNIT
	3000ICC	6 Pin **"C"** keyway combinated SCHLAGE large format IC core cylinder KA# 111111 with "C" key blanks	US3 US26D	Ea.
	4000ICCK	6 Pin **"C-K"** keyway combinated SCHLAGE large format IC core cylinder KA# 111111 with "E" key blanks		
	5000ICE	6 Pin **"E"** keyway combinated SCHLAGE large format IC core cylinder KA# 111111 with "E" key blanks		
	2000ICCC	Temporary Construction Cores		
	6000ICMA	SCHLAGE Large format interchangeable core mortise cylinder with **Adams Rite Cam** 1½" long packed with spring-loaded spacer collar adjustable to 1" length	US3 US10B US26D	
	7000ICMC	SCHLAGE Large format interchangeable core mortise cylinder with **Cloverleaf Cam** 1½" long packed with spring-loaded spacer collar adjustable to 1" length. To be used with Cal-Royal M Series mortise locks		
	8000ICRIM	SCHLAGE Large format interchangeable core rim cylinder with mounting plate and screws		

CAL-ROYAL
PRODUCTS, INC.

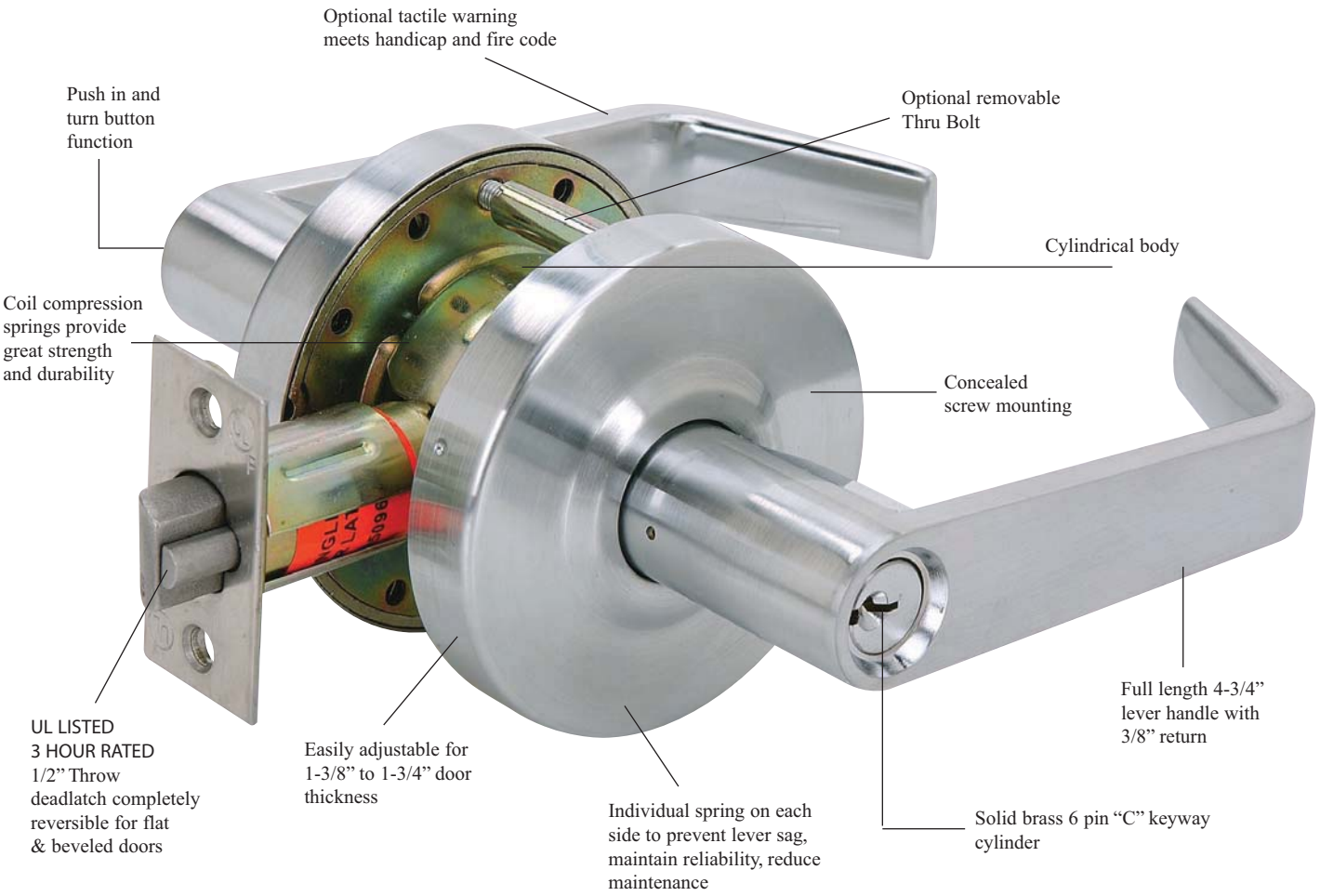
ALC SERIES
ANSI GRADE 2
HEAVY DUTY CYLINDRICAL LEVERSET

Meets ADA requirements.
Specially designed for
Barrier Free Application
Conforms with ANSI A156.2
Series 4000, Grade-2
Exceeds 400,000 cycles1

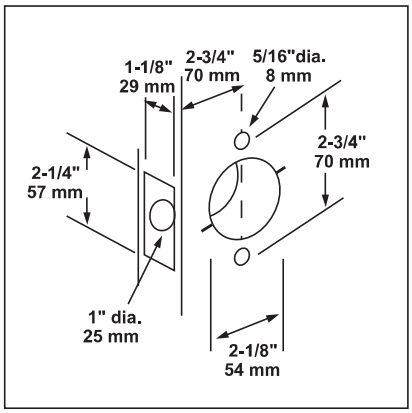
LISTED

APOLLO

ALC SERIES CLUTCH MECHANISM
CLALC SERIES NON-CLUTCH MECHANISM
OPTIONAL THRU BOLT



Lifetime Warranty



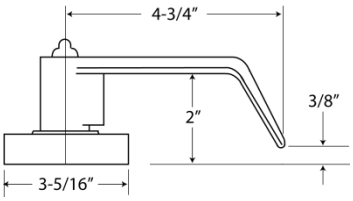
Door Preparation when optional Thrubolt is applied

CAL-ROYAL PRODUCTS, INC.

FINISHES AVAILABLE

BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
625	US26	Bright Chrome
626	US26D	Satin Chrome

DIMENSIONS



The lever features a 3/8" return and projection of 2" from the face of the door.

ALC Design

SPECIFICATIONS

Applications
For offices, schools, hospitals, apartments, hotel/motel and other public buildings.

Door Ranges
1 ⅜" to 1 ¾" thickness doors.

Backset
2-3/4" standard. Optional 2-3/8".

Front
2-1/4" X 1-1/8", adjustable for flat or beveled doors 1/8" in 2".

Srtrike
ASA strike standard, "T" and full lip strike available on request.

Latchbolt
1/2" Throw solid brass, reversible for RH or LH applications. UL listed.

Latch & Strike Screws
8-32 X 1" FPH dual purpose.

ANSI Standards
Meets and exceeds requirements of BHMA/ANSI A156.2 Series 4000, Grade 2(FF-H 106C), 400,000 cycles.

Exposed Trim
Wrought brass, bronze or stainless steel, levers are Zinc casting, plated to match trim finish.

Keying
6-pin "C" keyway cylinder, 2 keys per lock. Keying as per individual job requirements.

Cylinders & Keyways
6 pin solid brass "C" keyway standard. Schlage C-K, Russwin D1, L4, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale 8, Yale GA, Kwikset (optional). Can also accept Medeco, Assa, and Kaba High Security Cylinders.

Tactile & Lead Lining Available upon request.

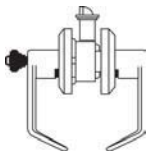
ALC00



ENTRANCE/OFFICE LOCK

Turn/Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

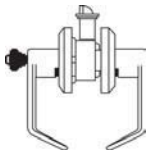
ALC03



CLASSROOM

Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

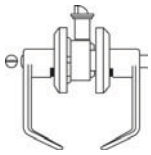
ALC05



STOREROOM

Dead locking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.

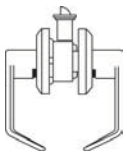
ALC20



PRIVACY LOCK

Latchbolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.

ALC30



PASSAGE SET

Latchbolt operated by lever from either side at all times.

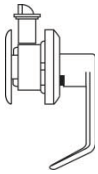
ALC40



DUMMY LEVER

Single dummy trim for one side of door. Pull only.

ALC50



EXIT

Blank plate outside. Inside lever always unlocked.

***OTHER FUNCTIONS NOT LISTED AVAILABLE UPON REQUEST**

CAL-ROYAL
PRODUCTS, INC.
6605 Flotilla St., Commerce, CA 90040 U.S.A.
Tel: (323) 888-6601 ◆ Fax: (323) 888-6699
Website: www.cal-royal.com ◆ Email:sales@cal-royal.com

ASHIEY SERIES TUBULAR LOCKSETS / LEVER SETS



PREMIER SERIES **LE PRE-00 (HANDED). SPECIFY**



SIGNATURE SERIES **LE SIG-00 (HANDED). SPECIFY**



RITZ SERIES **RIZ-00**

FEATURES & SPECIFICATIONS

- Keyed entry comes with lever / lever for exterior & interior.
- Kwikset keyway. Re-keyable for master and construction keying.
- Weiser keyway available on special factory order only.
- Reversible for right & left handed doors.
- 2-3/8" or 2-3/4" adjustable backset, size 1" x 2-1/4" round corner standard. Square corner option also available. Drive in adjustable backset is also available.
- Brass trim and knob. Levers and handles are brass plated.
- ANSI Standard A156.2 Grade 3.
- Fits 1-3/8" to 1-3/4" doors.
- Round corner full lip strike is standard. Other strike options also available.
- For wood and metal doors.
- Easy installation.

5 Year Finish Warranty
25 Year Mechanical Warranty

FINISHES

EXCEL LIFE TIME ANTI TARNISH FINISH AVAILABLE

- New Powder Coated US3 - Polished Brass
- US5 - Antique Brass
- US26D -Satin Chrome
- US26 - Polished Chrome
- US10B - Oil Rubbed Bronze
- US15 - Satin Nickel
- US15A - Satin Nickel Oxidized
- Other finishes available upon request based on quantity with factory lead time.
  * Refer to price list for stock finishes.
- For **EXCEL LIFE TIME FINISH** on polished brass, prefix "LIF" before part #.

FUNCTIONS

00 - Entry
20 - Privacy (bed & bath)
30 - Passage (hall & closet)
40 - Dummy
05 - Storeroom (vestibule)
(Other functions available upon request)
When ordering prefix Series design to function number: (ex. RIZ-00 Entry).
*Refer to price list for stock functions.

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CHELSIE SERIES TUBULAR LOCKSETS

OPTIONAL



REN-00

RENO DESIGN
"REN" SERIES



ASP-00

ASPEN DESIGN
"ASP" SERIES

OPTIONAL



BER-00

BERMUDA DESIGN
"BER" SERIGS

FEATURES & SPECIFICATIONS

- Kwikset keyway. Re-keyable for master and construction keying.
- Weiser and schlage "C" keyway available on special factory order only.
- Reversible for right & left handed doors.
- 2-3/8" or 2-3/4" adjustable backset, size 1" x 2-1/4" round corner standard. Square corner option also available. Drive in adjustable backset is also available.
- Brass trim and knob. Levers and handles are brass plated.
- ANSI Standard A156.2 Grade 3.
- Fits 1-3/8" to 1-3/4" doors.
- Round corner full lip strike is standard. Other strike options also available.
- For wood and metal doors.
- Easy installation.

FINISHES

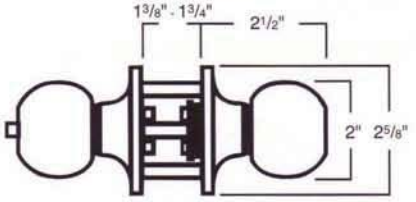
5 Year Finish Warranty
25 Year Mechanical Warranty

- US15 - Satin Nickel
- 10B - Oil Rubbed Bronze
- US3 - Polished Brass
- US5 - Antique Brass
- US26D - Satin Chrome
- US26 - Polished Chrome
- US 15A - Antique Nickel
- Other finishes available upon request based on quantity with factory lead time.
  * Refer to price list for stock finishes.
- For **EXCEL LIFE TIME FINISH** on polished brass, prefix "LIF" before part #, with factory lead time.

FUNCTIONS

EXCEL LIFE TIME ANTI TARNISH FINISH AVAILABLE

00 - Entry
20 - Privacy (bed & bath)
30 - Passage (hall & closet)
40 - Dummy
05 - Storeroom (vestibule)
(Other functions available upon request)
When ordering prefix Series design to function number: (ex. REN-00 Entry).
*Refer to price list for stock functions and finishes.



REN-00
ENTRANCE

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CHELSIE SERIES LEVERSETS



SOPHIA "SOP" SERIES (NON-HANDED)



MAYFAIR "MAY" SERIES (HANDED). SPECIFY



LENOX SERIES "LEN" SERIES (NON-HANDED)



BRISTOL "BRI" SERIES (NON-HANDED)



AUSTIN SERIES "AUS" SERIES (NON-HANDED)

FEATURES & SPECIFICATIONS

- Keyed entry comes with lever / lever for exterior & interior.
- Kwikset keyway. Re-keyable for master and construction keying.
- Weiser and schlage "C" keyway available on special factory order.
- 2-3/8" or 2-3/4" adjustable backset, size 1" x 2-1/4" round corner standard. Square corner option also available. Drive in adjustable backset is also available.
- Brass trim. Levers are brass plated.
- ANSI Standard A156.2 Grade 3.
- Fits 1-3/8" to 1-3/4" doors.
- Round corner full lip strike is standard. Other strike options also available.
- For wood and metal doors.
- Easy installation.

FINISHES

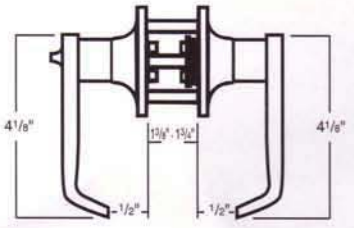
5 Year Finish Warranty
25 Year Mechanical Warranty

- US15 - Satin Nickel
- US10B - Oil Rubbed Bronze
- US3 - Polished Brass
- US5 - Antique Brass
- US26D - Satin Chrome
- US26 - Polished Chrome
- US 15A - Antique Nickel
- Other finishes available upon request based on quantity with factory lead time.
- Refer to price list for stock functions finishes.
- For **EXCEL LIFE TIME FINISH** on polished brass, prefix "LIF" before part #, with factory lead time.

FUNCTIONS

EXCEL LIFE TIME ANTI TARNISH FINISH AVAILABLE

00 - Entry
20 - Privacy (bed & bath)
30 - Passage (hall & closet)
40 - Dummy
05 - Storeroom (vestibule)
(Other functions available upon request)
When ordering prefix Series design to function number:
(ex. LEN-00 Entry).



LEN-00 ENTRANCE

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CHELSIE SERIES DEADBOLTS



ED500 **SINGLE CYLINDER DEADBOLT**



DOUBLE CYLINDER DEADBOLT **EDD400**



ID701 **ONE SIDED BOLT**



ONE SIDED BOLT WITH COVER **ID801**

FEATURES & SPECIFICATIONS

- Kwikset keyway. Re-keyable for master and construction keying.
- Weiser and schlage "C" keyway available on special factory order only.
- Reversible for right & left handed doors.
- 2-3/8" or 2-3/4" adjustable backset, size 1" x 2-1/4" round corner standard. Square corner also available. Drive in adjustable backset is also available.
- All metal body & cylinder construction.
- All exterior parts are brass.
- Full 1" throw deadbolt with hardened steel pin to prevent saw cutting.
- Fits 1-3/8" to 1-3/4" doors.
- 1" x 2-1/4" strike, round corner and full lip strike round corner standard.
  Square corner option also available.
  optional **1-1/4" x 3-5/8" security strike** with 3" screws also available.
- For wood and metal doors.
- Easy installation.

FINISHES

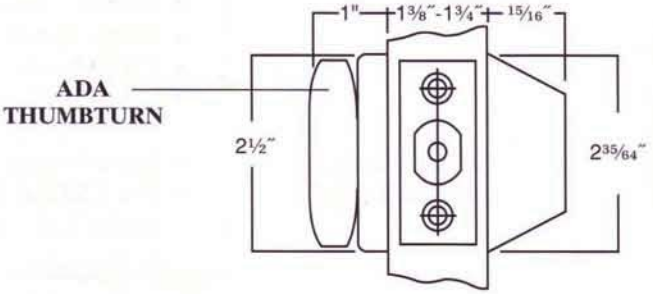
5 Year Finish Warranty
25 Year Mechanical Warranty

- US15 Satin Nickel
- USIOB Oil Rubbed Bronze
- US3 - Polished Brass
- US5 - Antique Brass
- US26D - Satin Chrome
- US26 - Polished Chrome
- US 15A - Antique Nickel
- Other finishes available upon request based on quantity with factory lead time.
- Refer to price list for stock finishes.
- For **EXCEL LIFE TIME FINISH** on polished brass, prefix "LIF" before part #, with factory lead time.

EXCEL LIFE TIME ANTI TARNISH FINISH AVAILABLE

FUNCTIONS

ED-500 - Single cylinder deadbolt.
EDD-400 - Double cylinder deadbolt.
ID-701 - One sided deadbolt.
ID-801 - One sided deadbolt with cover plate.



ED500

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SOLID BRASS ENTRANCE HANDLESET BAYBRIDGE DESIGN "BAB" SERIES





SOLID FILLED HANDLE GRIP

SOLID BRASS ENTRANCE HANDLESET DEERFIELD DESIGN "DEE" SERIES





SOLID FILLED HANDLE GRIP

CHELSIE SERIES HANDLESETS

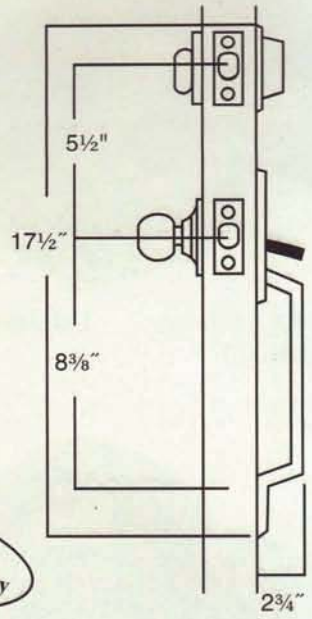
FEATURES & SPECIFICATIONS

- All metal body and parts.
- All deadbolt features same as ED500 & EDD400 Series.
- Non locking knob or lever operates latch from interior.
- Thumb piece operates handleset latch from exterior.
- Strikes & latchbolts same as Knob & Leversets.

FUNCTIONS

BAB-00 - Handle with single cylinder deadbolt.
BAB-40 - Complete dummy trim.
* Specify interior Knob or Lever Design.

When ordering DEERFIELD DEE Series replace BAB with DEE (ex. DEE -00)



5 Year Finish Warranty
25 Year Mechanical Warranty

FINISHES

EXCEL LIFE TIME ANTI TARNISH FINISH AVAILABLE

- US15 - Satin Nickel
- US10B - Oil Rubbed Bronze
- US3 - Polished Brass
- US5 - Antique Brass
- US26D - Satin Chrome
- US26 - Polished Chrome
- US 15A - Antique Nickel
- Other finishes available upon request based on quantity with factory lead time.
- Refer to price list for stock finishes.
- For **EXCEL LIFE TIME FINISH** on polished brass, prefix "LIF" before part #, with factory lead time.

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CHELSIE SERIES SOLID BRASS HANDLESETS

SAVANNAH DESIGN
"SAV" SERIES



SOLID FILLED
HANDLE GRIP



MERIDIAN DESIGN
"MER" SERIES

SOLID FILLED
HANDLE GRIP



CAMBRIDGE DESIGN
"CAM" SERIES



SOLID FILLED
HANDLE GRIP

FEATURES & SPECIFICATIONS

- All solid brass forged body.
- All deadbolt features same as ED500 & EDD400 Series.
- Non locking knob or lever operates latch from interior.
- Thumb piece operates handleset latch from exterior.
- Strikes & latchbolts same as Knob & Leversets.
- Adjustable backset 2⅜" - 2¾".
- "KW" kwikset keyway standard.
- "C" keyway available on special order.

FUNCTIONS

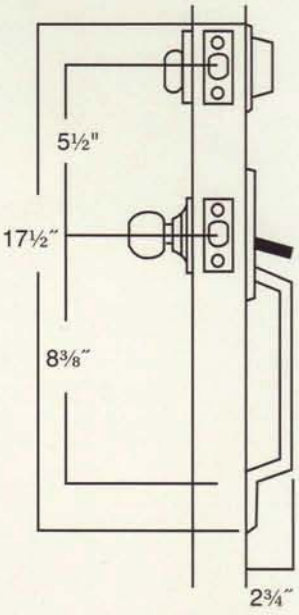
SAV-00 - Handle with single cylinder deadbolt.
SAV-40 - Complete dummy trim.
*Specify interior Knob or Lever Design.

When ordering MERIDIAN MER Series replace SAV with MER (ex. MER -00)

When ordering CAMBRIDGE CAM Series replace SAV with CAM (ex. CAM -00)

5 Year Finish Warranty
25 Year Mechanical Warranty

SAVANNAH /
MERIDIAN



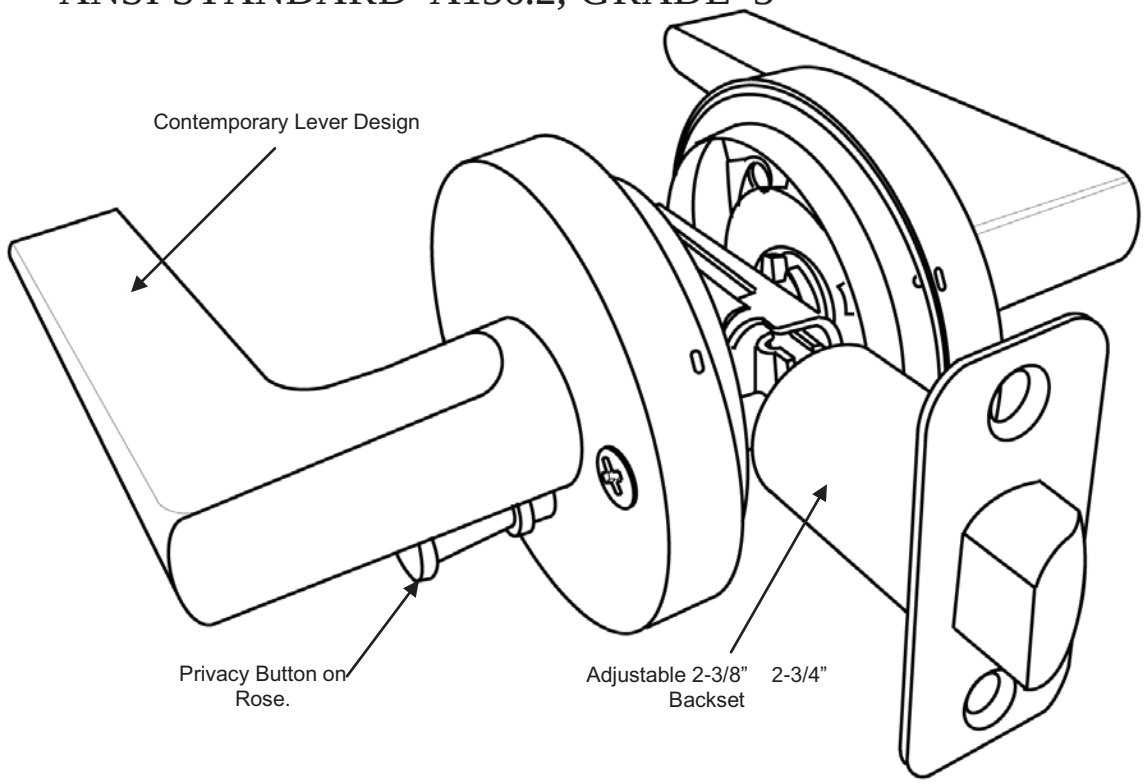
FINISHES

- US15 - Satin Nickel
- US10B - Oil Rubbed Bronze
- PVD - Life Time Polished Brass
- US3 - Polished Brass
- US5 - Antique Brass
- US26 - Polished Chrome
- US 15A - Antique Nickel
- Other finishes available upon request based on quantity with factory lead time.
- Refer to price list for stock finishes.

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ATLAS *Series*

CONTEMPORARY DESIGN RESIDENTIAL TUBULAR INTERIOR LOCKSETS
ANSI STANDARD A156.2, GRADE 3



►FEATURES AND SPECIFICATIONS

- **A** 2⅜" and 2¾" backset (2¼" x 1" , ¼" radius). Drive in latch bolt also available on request. Square corner available on request
- All locksets are packed with full lip strike round corner ¼" radius. Square corner available on request.

► NON STOC PRODUCT

- Delivery -12 weeks

AT AS AT SERIES

ITE	FUNCTIONS	FINISHES	PCS C	UNIT
ATL-20	Privacy *SH	**US US US D US US 0 US A US**	2	Ea.
ATL-30	Passage			
ATL- 0	Dummy		36	

SH

ADDITIONA PARTS CHARGES **STANDARD DISCOUNT ON**

ITE	DESCRIPTION	UNIT
4DRIVP2	Privacy, passage four way adjustable latchbolt, square corner	Ea.
TS	T-Strike	
FLS	Full lip strike	

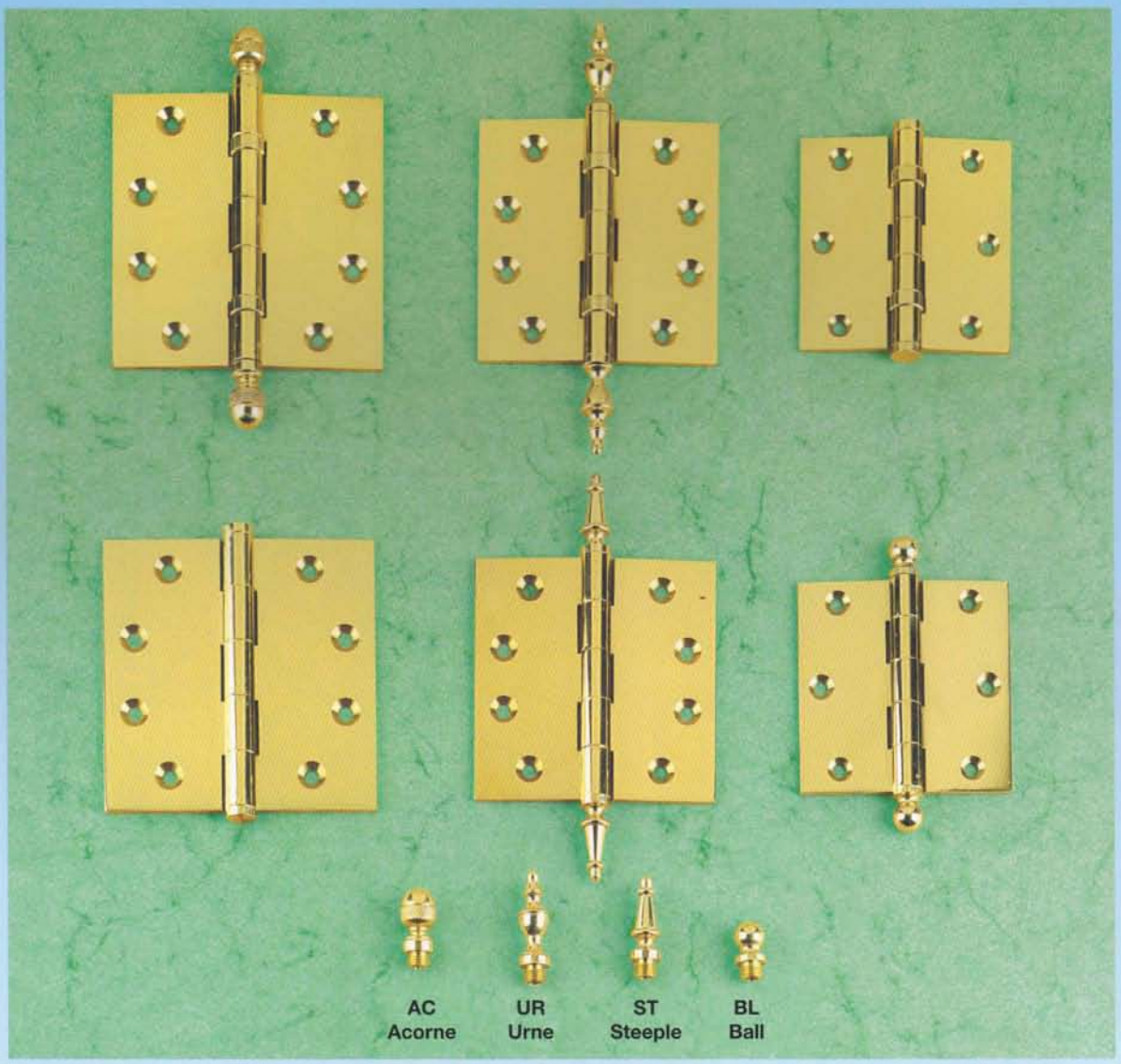
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PRODUCTS, INC.

SOLID EXTRUDED BRASS TEMPLATE HINGES

AVAILABLE WITH LIFETIME FINISH



• WHEN ORDERING DECORATOR TIPS, PREFIX BL, ST, UR OR AC BEFORE PART NUMBER.

FEATURES

- EXTRUDED BRASS MATERIAL. ANSI THICKNESS.
- REMOVABLE STAINLESS RUST PROOF PINS.
- TIPS ARE THREADED BOTH ENDS AND REMOVABLE.
- ALL HINGES ARE INDIVIDUALLY HAND POLISHED.
- ALL POLISHED HINGES ARE COATED WITH A CLEAR LACQUER.
- KNUCKLES MILLED TO CLOSE TOLERANCES TO INCREASE LIFE OF HINGE.

PACKAGING

- INDIVIDUALLY WRAPPED IN FOAM TO PRESERVE FINISH.
- ONE PAIR PER INNER BOX, 30 PAIRS PER CARTON.
- ALL HINGES ARE PACKED WITH SOLID BRASS, PHILLIPS HEAD WOOD SCREWS. MACHINE SCREWS OR SLOTTED WOOD AND MACHINE SCREWS ARE AVAILABLE ON REQUEST.
- HINGES ARE PACKED WITH FLAT TIP STANDARD.

Finishes: Lifetime finish US3, 3, 5, 26, 26D, 15, 15A, 10B

SIZE OPEN (INCHES)	4½"X4½"		4"X4"		3½"X3½"	
	BALL BEARING	*PLAIN BEARING*	*BALL BEARING*	*PLAIN BEARING*	*BALL BEARING*	*PLAIN BEARING*
CATALOG NUMBER	SBBH-45	SBH-45	SBBH-44	SBH-44	SBBH-35	SBH-35
METAL THICKNESS	0.134	0.134	0.130	0.130	0.123	0.123
KNUCKLE (BUTT) DIA	0.520	0.520	0.500	0.500	0.475	0.475
NUMBER OF HOLES	8	8	8	8	6	6
WOOD SCREW SIZE	12 X1¼"	12 X1¼"	12 X1¼"	12 X1¼"	10 X1"	10 X1"
MACHINE SCREW SIZE	12X24X½"	12X24X½"	12X24X½"	12X24X½"	10X24X½"	10X24X½"

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2110 TUBEWAY AVE, COMMERCE, CA 90040 U.S.A.
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Distributed by:

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CAL-ROYAL

PRODUCTS, INC.

Lifetime Warranty on Commercial Grade Hinges

BHMA CERTIFIED

CAL-ROYAL Hinges are VALUE and a clear advantage to you.At CAL-ROYAL we strive for quality and excellence with service being our number one priority. CAL-ROYAL pays more attention to our customers than anyone in the industry.

GENERAL INFORMATIONS

ANSI Product Standards

CAL-ROYAL HINGES complies with ANSI A156.1 (Butts and Hinges), A156.7 (Template hinge dimensions), A156.17 (Self Closing Hinges and Pivots), A156.18 (Materials and Finishes).

Plain Bearing Standard Weight

For standard weight doors receiving low frequency service. Template hinges are furnished with all machine and all wood screws.

Ball Bearing Standard Weight

For standard weight doors receiving average frequency service. Template hinges are equipped with all machine and all wood screws.

Ball Bearing Heavy Weight

For heavy doors (such as entrance and corridor doors) or doors receiving high frequency service. Inner edges are beveled to conform to shape of barrel and to make close fitting joints. Heavy weight template hinges are equipped with all machine screws and one half wood screws.

Half Surface 5 Knuckle Template

For standard weight Kalamein doors with hollow metal jambs receiving average frequency service.

Half Mortise 5 Knuckle Template

For hollow metal doors with channel iron jambs receiving average frequency service.

Swing Clear

For use where conditions require a completely clear opening when door is opened to 90˚ angle. Inner edges of leaves are beveled to conform to shape of barrel and to make close fitting joints. Phillips head threaded plug permits hinge to be reversed to suit application.

Electrified Hinges

Available on all ball bearing hinges.

Materials and Finishes

Wrought steel: Satin finishes or highly polished and plated. All plated finishes have a clear baked finish.

Wrought Stainless steel: Satin finish non-ferrous, non-corrosive grade 304.

Stock finishes : Refer to our price list for stock finishes. Materials such as solid brass are available on request. Prefix SB before part #.

Tips

Button: All hinges have flat button tip except concealed ball bearing hinges which is flush.

Non-removable Pins: Removable threaded set screw in barrel prevent pin from being removed when door is closed. Available on all hinges use N.R.P. for ordering.

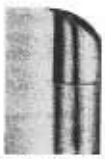
Special Pins: Solid brass pins, stainless steel pins and Hospital Tips are available on request. Decorative Tips are also available on 4½"x4½", 4"x4", 3½"x3½" commercial hinges & 4"x4" & 3½"x3½" residential hinges. Add BT (Ball Tip), ST(Steeple Tip) before part number for Specification. Other size hinge tips also available based on factory order.



Ball Tip



Steeple Tip



Hospital Tip

Packaging

All hinges are individually wrapped to protect the finish. Commercial grade hinges are packed 3 pieces/inner box with full machine and full wood screws. Residential hinges are packed one pair/box, bulk assembled, or unassembled. Spring hinges are packed 2 pieces/box. For carton quantities refer to price list.

CAL-ROYAL
PRODUCTS, INC.

Lifetime Warranty
BHMA CERTIFIED



Full Mortise Type

Heavy Weight Hinges
Ball Bearing • Template

Item #	Size	Gauge
BB-5500HD	5" x 5"	.190
BB-5210	5" x 4½"	.190
BB-5254	5" x 4"	.190
BB-5200	4½" x 4½"	.180
BB-52454	4½" x 4"	.180

Other sizes up to 8" x 8" are available upon request.
Material: Steel, Stainless Steel, Brass.

Size fo FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	3	24
½ x 12 - 24	1¼ x 12		



Full Mortise Type

Standard Weight Hinges
Two Ball Bearing • Template

Item #	Size	Gauge
WTHBB-456	4½" x 6"	.146
BB-55	5" x 5"	.146
BB-545	5" x 4½"	.146
BB-54	5" x 4"	.146
BB-31	4½" x 4½"	.134
BB454	4½" x 4"	.134
BBSC-56	4" x 4"	.130
* BBSC-77	3½" x 3½"	.123

Special sizes up to 6" x 6" available.
Material: Steel, Stainless Steel, Brass.

Size fo FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	3	48
½ x 12 - 24	1¼ x 12		



Full Mortise Type

Standard Weight Hinges
Plain Bearing • Template

Item #	Size	Gauge
TBH-30	4½" x 4½"	.134
TBH-454	4½" x 4"	.134
TBHSC-55	4" x 4"	.130
* TBHSC-77	3½" x 3½"	.123
TBHSC-33	3" x 3"	.123

Special sizes up to 6" x 6" available.
Material: Steel, Stainless Steel, Brass.

Size fo FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	3	48
½ x 12 - 24	1¼ x 12		



Full Mortise Type

Standard Weight Hinges
Concealed Ball Bearing • Template

Item #	Size	Gauge
BB-2255	5" x 5"	.145
BB-2200	4½" x 4½"	.134
BB-22454	4½" x 4"	.134

Heavy Weight Hinges
Concealed Ball Bearing • Template

BB-7755	5" x 5"	.190
BB-3300	4½" x 4½"	.190
BB-1000	4½" x 4"	.190

Special sizes available.
Material: Steel, Stainless Steel, Brass.

Size fo FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	3	48
½ x 12 - 24	1¼ x 12		



Full Surface Type

Standard Weight Hinges
Full Surface• Ball Bearing • Template

Item #	Size	Gauge
FSH-BB45	4½	.134

Material: Steel, Stainless Steel.

Size fo FH Screws		Pieces Per Box	Pieces Per Carton
Jamb	Door	2	24
½ x 12 - 24OH	2 x ¼ - 20 OH		



Half Mortise Type

Standard Weight Hinges
Half Mortise • Ball Bearing • Template

Item #	Size	Gauge
HM-BB4100	4½	.134

Available up to 5".
Material: Steel, Stainless Steel.

Size fo FH Screws		Pieces Per Box	Pieces Per Carton
Jamb	Door	2	36
½ x 12 - 24OH	½ x 12 - 24MS 1¼ x 12WS		



Half Surface Type

Standard Weight Hinges
Half Surface • Ball Bearing • Template

Item #	Size	Gauge
HS-BB4900	4½	.134

Available up to 5".
Material: Steel, Stainless Steel.

Size fo FH Screws		Pieces Per Box	Pieces Per Carton
Jamb	Door	2	36
½ x 12 - 24 FH	2¼ x 20 OS		



Full Mortise Type

Standard Weight Hinges
Swing Clear Hinges
Ball Bearing • Template

Item #	Size	Gauge
BB-600	4½	.134

Heavy Weight Swing Clear

BB-800	4½	.190

Available up to 5".
Material: Steel, Stainless Steel.

Size fo FH Screws		Pieces Per Box	Pieces Per Carton
Jamb	Door	2	24
½ x 12 - 24MS	½ x 12 - 24MS 1¼ x 12WS		

* Item #'s BBSC-77, TBHSC-77, TBHRC-66 3½" x 3½" are supplied with ½ x 10-24 machine screws and 1 x 9 wood screws, 2 pieces/inner box 100 pieces/carton.



Standard Weight Hinges
Plain Bearing • Template

¼" Radius

Item #	Size	Gauge
TBHRC-44	4" x 4"	.130
TBHRC-66	3½" x 3½"	.123

*Ball Bearing • Template

¼" Radius

Item #	Size	Gauge
BBRC-45	4" x 4"	.123

⅝" Radius

Item #	Size	Gauge
BBRC-5844	4" x 4"	.123

Material: Steel, Stainless Steel, Brass.

Full Mortise Type

Size fo FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	3	48
½ x 12 - 24	H x 12		



Spring Hinges (Commercial)
Template • Single Acting

UL LISTED

Item #	Size	Gauge
SH-140	4½" x 4½"	.134
SH-454	4½" x 4"	.134

4" x 4" & 3½" x 3½" are available upon request.

Full Mortise Type

Material: Steel, Stainless Steel

Size fo FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	1	48
½ x 12 - 24	1¼ x 12		



Spring Hinges
Residential Weight
Template • Single Acting

UL LISTED

¼" Radius (Template)

Item #	Size	Gauge
SH-35R	3½" x 3½"	.110
SH-44R	4" x 4"	.110

⅝" Radius (Non Template)

Item #	Size	Gauge
SH-3558	3½" x 3½"	.110
SH-4458	4" x 4"	.110

Square corner available upon request.

Full Mortise Type

Material: Steel

Size fo FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	1	48
½ x 12 - 24 w/#10Head	1 x 10		

Residential Weight Hinges
Plain Bearing • 5 Knuckles
Round Corners



¼" Radius

Item #	Size	Gauge
RH-61	3½" x 3½"	.085
RH-60	4" x 4"	.097

⅝" Radius

Item #	Size	Gauge
RH-35	3½" x 3½"	.085
RH-40	4" x 4"	.097

Square Corner

Item #	Size	Gauge
RH-33	3" x 3"	.085
RH-90	3½" x 3½"	.085
RH-91	4" x 4"	.097

Available: Steel, Brass, Stainless Steel

4" X 4" Non-template Type, 3½" x 3½" template Type.

Size of Wood Screws		Pieces Per Box	Pieces Per Carton
4" x 4"	1 x 9	2, Assembled 100, Unassembled	100
3½" x 3½"	¾ x 9		



Residential Weight Hinges
Plain Bearing, Reversible
6 Knuckles

¼" Radius

Item #	Size	Gauge
RH-61-6	3½" x 3½"	.085
RH-60-6	4" x 4"	.097

3" x 3" and square corner available upon request.



⅝" Radius

Item #	Size	Gauge
RH-35-6	3½" x 3½"	.085
RH-40-6	4" x 4"	.097

Available: Steel, Stainless Steel, Brass

RH-35-6

4" X 4" Non-template Type, 3½" x 3½" template Type.

Size of Wood Screws		Pieces Per Box	Pieces Per Carton
4" x 4"	1 x 9	1, Assembled 1, Unassembled	100
3½" x 3½"	¾ x 9		



Residential Weight Hinges
Plain Bearing • Template

¼" Radius

Item #	Size	Gauge
TBHRC-33	4" x 4"	.097

For use on Metal Frames and Wood Doors

Available: Steel, Stainless Steel, Brass

template Type

Size fo FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	3	48
½ x 10 - 24	1 x 10		



Residential Weight Hinges
Plain Bearing • Template

¼" Radius

Item #	Size	Gauge
TBHRC-45	3½" x 3½"	.085

For use on Metal Frames and Wood Doors

Available: Steel, Stainless Steel, Brass

Template Type

Size fo FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	2	100
½ x 10 - 24	¾ x 10		

Specialty Hinges
Standard and Heavy Weight Wide Throw Hinges.
Electrified Hinges.
Heavy Weight Half Surface, Half Mortise and Swing Clear Hinges.
Heavy Weight Concealed Ball Bearing Hinges.
Consult Factory.

CAL-ROYAL
PRODUCTS, INC.
6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com • Email: sales@cal-royal.com

Intertek ETL SEMKO

September 24, 2003

Mr. Kaye Yashar
Cal Royal Products, Inc.
2110 Tubeway Avenue
City of Commerce, CA 90040

Dear Mr. Yashar:

Per your request the following is a summary of the results of testing on various model hinges:

Model	ANSI/BHMA Standard	Grade	Test Result	Intertek Report No.	Report Date
BB-31	A156.1-1997	2	COMPLIANT	3006833	11/15/01
TBH-30	A156.1-1997	3	COMPLIANT	3006833	04/05/01
BB5200	A156.1-2000	1	COMPLIANT	3038274-001	08/22/03

Thank you for turning to Intertek with your testing needs. If you have any questions or further needs, please contact us.

Sincerely,

Ayn Chappelle-Steinlein

Ayn Chappelle-Steinlein
Project Manager – Hardware
Building Products Group
Intertek

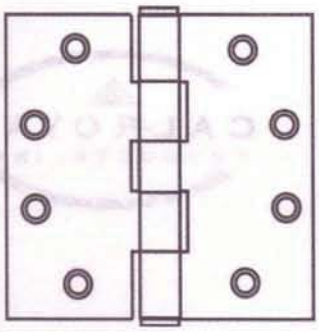
Intertek Testing Services NA, Inc.
8431 Murphy Drive, Middleton, WI 53562
Telephone: 608-836-4400 Fax: 608-831-9279 Web: www.intertek-etlsemko.com

ARCHITECTURAL HINGE COMPARISON CHART

TYPE	CAL-ROYAL		ANSI	HAGER	STANLEY	MCKINNEY	PBB
Steel / Stainless 2 Ball Bearings	BB55 BB545 BB54 BB31 BB454 BBSC56 BBRC45 BBSC77	5" x 5" 5" x 4½" 5" x 4" 4½" x 4½" 4½" x 4" 4" x 4" 4" x 4" (¼" Rad.) 3½" x 3½"	A8112 A5112 (Stainless Steel)	BB1279 BB1191 (Stainless Steel)	FBB179 FBB191 (Stainless Steel)	TB2714 TB2314 (Stainless Steel)	BB81 BB51 (Stainless Steel)
	Stainless Steel, add 32D after part#						
Steel / Stainless Plain Bearing	TBH30 TBH454 TBHSC55 TBHRC44 TBHSC77 TBHRC66	4½" x 4½" 4½" x 4" 4" x 4" 4" x 4" (¼" Rad.) 3½" x 3½" 3½" x 3½" (¼" Rad.)	A8133 A5133 (Stainless Steel)	1279 1191 (Stainless Steel)	F179 F191 (Stainless Steel)	T2714 T2314 (Stainless Steel)	PB81 PB51 (Stainless Steel)
	Stainless Steel, add 32D after part#						
Brass, 2 Ball Bearings	SBBB31	4½" x 4½"	A2112	BB1191	FBB191	TB2314	BB21
Brass, Plain Bearing	SBTBH30	4½" x 4½"	A2133	1191	F191	T2314	PB21
Steel, Half Mortise, 2 Ball Bearings	HMBB4100	4½"	A8212	BB1129	FBB167	TB2774	BB82
	Stainless Steel, add 32D after part #						
Steel, Half Surface, 2 Ball Bearings	HSBB4900	4½"	A8412	BB1173	FBB173	TB2772	BB84
	Stainless Steel, add 32D after part #						
Steel, Swing Clear, 2 Ball Bearings	BB600	4½"	A8122	BB1260	FBB248	TB2895	SC81
Steel, Bearing Concealed	BB2200	4½" x 4½"	A8112	BB700	CB1900	TA714	CB81
	Stainless Steel, add 32D after part #						
"UL" Spring Hinge, Commercial	SH140 SH454	4½" x 4½" 4½" x 4"	K8107-IF	1250	2060	1502	SP81
	Stainless Steel, add 32D after part #						
"UL" Spring Hinge, Commercial / Residential	SH4458R SH44R SH35R SH3558R	4" x 4", (⅝" Rad.) 4" x 4", (¼" Rad.) 3½" x 3½" (¼" Rad.) 3½" x 3½" (⅝" Rad.)	K8107IF	1251	2060	1502	RS81
Steel, 4 Ball Bearings, Heavy Gauge	BB5210 BB5254 BB5200 BB52454	5" x 4½" 5" x 4" 4½" x 4½" 4½" x 4"	A8111 A5111 (Stainless Steel)	BB1168 BB1199 (Stainless Steel)	FBB168 FBB199 (Stainless Steel)	T4B3786 T4B3386 (Stainless Steel)	4B81 4B51 (Stainless Steel)
	Stainless Steel, add 32D after part #						

◊◊◊ All hinges above are available in steel, brass and stainless steel. Brass base prefix "SB" before part #. Stainless steel add US32D after part #. Consult factory for more information on hinge comparisons not shown.

CAL-ROYAL PRODUCTS, INC.



Lifetime Warranty

BHMA CERTIFIED

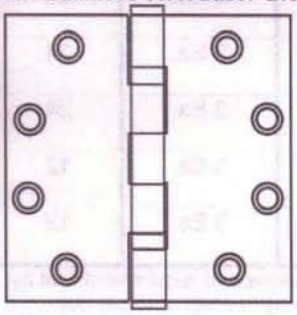
CAL-ROYAL PRODUCTS, INC.

FULL MORTISE TEMPLATE HINGES
Plain Bearing . Standard Weight
Brass ANSI A2133
Stainless Steel ANSI A5133
with stainless steel pin
Steel with steel pin ANSI A8133

Five knuckle non-rising removable pin, button tip and plug.

Cal-Royal Part #	Size Open (Inches)	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
TBHSC33	3 x 3	.119	6	½x 10-24	1 x 9	2 Ea.	100
TBHSC77 TBHRC66 (RC) ¼" Rad	3½ x 3½	.119	6	½ x 10-24	1 x 9	2 Ea.	100
TBHSC55 TBHRC44 (RC) ¼" Rad TBHRC5844 (RC) ⅝" Rad	4 x 4	.129	8	½ x 12-24	1 x 12	3 Ea.	48
TBHSC435	4 x 3½	.129	8	½ x 12-24	1 x 12	3 Ea.	48
TBH30	4½ x 4½	.134	8	½ x 12-24	1¼ x 12	3 Ea.	48
TBH454	4½ x 4	.134	8	½ x 12-24	1¼ x 12	3 Ea.	48
TBH54	5 x 4	.145	8	½ x 12-24	1¼ x 12	3 Ea.	24
TBH545	5 x 4½	.145	8	½ x 12-24	1¼ x 12	3 Ea.	24
TBH55	5 x 5	.145	8	½ x 12-24	1¼ x 12	3 Ea.	24
TBH645	6 x 4½	.160	10	½ x ¼-20	1½ x 14	3 Ea.	24
TBH65	6 x 5	.160	10	½ x ¼-20	1½ x 14	3 Ea.	24
TBH66	6 x 6	.160	10	½ x ¼-20	1½ x 14	3 Ea.	24

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FULL MORTISE TEMPLATE HINGES
Ball Bearing . Standard Weight
Brass ANSI A2112
Stainless Steel ANSI A5112
with stainless steel pin
Steel with steel pin ANSI A8112

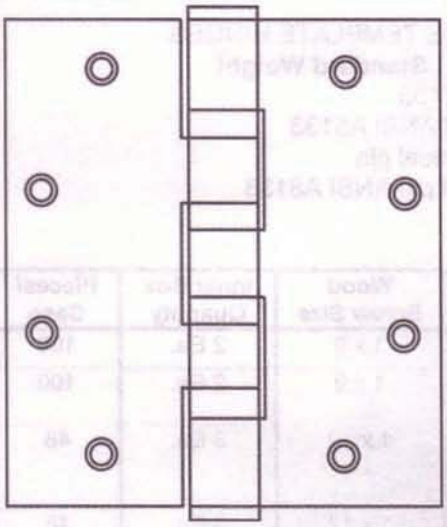
Five knuckle two ball bearings, non-rising removable pin, button tip and plug.

Cal-Royal Part #	Size Open (Inches)	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
BBSC33	3" x 3"	.119	6	½ x 10-24	1 x 9	2 Ea.	100
BBSC77	3½ x 3½	.119	6	½ x 10-24	1 x 9	2 Ea.	100
BBSC56 BBRC45 (RC) ¼" Rad BBRC5944 (RC) ⅝" Rad	4 x 4	.129	8	½ x 12-24	1 x 12	3 Ea.	48
BBSC435	4 x 3½	.129	8	½ x 12-24	1 x 12	3 Ea.	48
BB454	4½ x 4	.134	8	½ x 12-24	1¼ x 12	3 Ea.	48
BB31	4½ x 4½	.134	8	½ x 12-24	1¼ x 12	3 Ea.	48
BB54	5 x 4	.145	8	½ x 12-24	1¼ x 12	3 Ea.	24
BB545	5 x 4½	.145	8	½ x 12-24	1¼ x 12	3 Ea.	24
BB55	5 x 5	.145	8	½ x 12-24	1¼ x 12	3 Ea.	24
BB645	6 x 4½	.160	10	½ x ¼-20	1½ x 14	3 Ea.	24
BB65	6 x 5	.160	10	½ x ¼-20	1½ x 14	3 Ea.	24
BB66	6 x 6	.160	10	½x ¼-20	1½ x 14	3 Ea.	24

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CAL-ROYAL PRODUCTS , INC.

CAL-ROYAL PRODUCTS, INC.



Lifetime Warranty

BHMA CERTIFIED

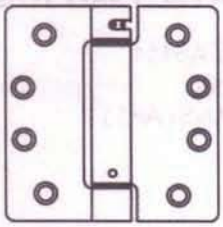
FULL MORTISE TEMPLATE HINGES
Ball Bearing . Heavy Weight
Brass ANSI A2111
Stainless Steel ANSI A5111
with stainless steel pin
Steel with steel pin ANSI A8111

Five knuckle four ball bearings, non-rising removable pin, button tip and plug.

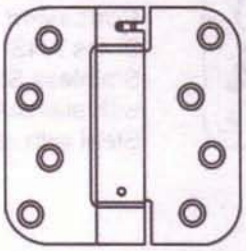
Cal-Royal Part #	Size Open (Inches)	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
BB52454	4½ x 4	.180	8	½ x 12-24	1¼ x 12	3 Ea.	24
BB5200	4½ x 4½	.180	8	½ x 12-24	1¼ x 12	3 Ea.	24
BB5254	5 x 4	.190	8	½x 12-24	1¼ x 12	3 Ea.	24
BB5210	5 x 4½	.190	8	½ x 12-24	1¼ x 12	3 Ea.	24
BB5500	5 x 5	.190	8	½ x 12-24	1¼ x 12	3 Ea.	24
BB6450	6 x 4½	.190 Stainless Steel .203 Steel & Brass	10	½ x ¼-20	1½ x 14	3 Ea.	24
BB6500	6 x 5	.190 Stainless Steel .203 Steel & Brass	10	½ x ¼-20	1½ x 14	3 Ea.	24
BB6600	6 x 6	.190 Stainless Steel .203 Steel & Brass	10	½ x ¼-20	1½ x 14	3 Ea.	24
BB8600	8 x 6	.190 Stainless Steel .203 Steel & Brass	16	½ x ¼-20	1½ x 14	3 Ea.	12
BB8800	8 x 8	.190 Stainless Steel .203 Steel & Brass	16	½ x ¼-20	1½ x 14	3 Ea.	12

CAL-ROYAL PRODUCTS, INC. Template hinges are manufactured to close tolerances and meet all specifications and requirements set by the American National standards Institute (ANSI A156.7). All hinges are ANSI templates. Hinge testing conforms to ANSI A156.1. **All hinges above are available in steel, brass and stainless steel base. Brass base prefix "SB" before part #. Stainless steel and 32D after part #.**

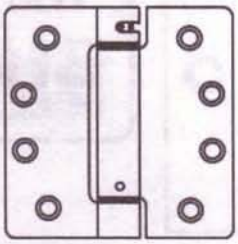
FULL MORTISE REVERSE ACTION
Spring Hinge
Full Mortise . Template . Single Acting
Steel ANSI K81071F



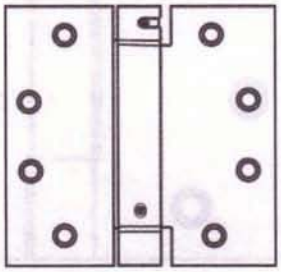
SH-35R-3.5 X 3.5



SH-4458R



SH-44R-4 X 4



SH-140-4.5 X 4.5

Cal-Royal Part #	Size Open (Inches)	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
SH35R (RC) ¼" Rad	3½ x 3½	.115	6	½ x 10-24	1 x 9	2	48
SH3558R (RC) ⅝" Rad	3½ x 3½	.115	6	½ x 10-24	1 x 9	2	48
SCSH35	3½ x 3½	.115	6	½ x 10-24	1 x 9	2	48
SH44R (RC) ¼" Rad Template	4 x 4	.115	8	½ x 12-24 with #10 head	1x 10	2	48
SH4458R (RC) ⅝" Rad Non Template	4 x 4	.115	8	½ x 12-24 with #10 head	1x 10	2	48
BENSH4458R (RC) ⅝" Rad (Benchmark)	4 x 4	.115	8	½ x 12-24 with #10 head	1x 10	2	48
SH454	4½ x 4	.134	8	½ x 12-24	1¼ x 12	2	48
SH140	4½ x 4½	.134	8	½ x 12-24	1¼ x 12	2	48

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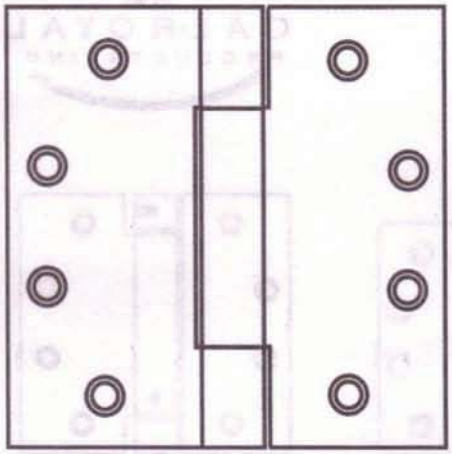
Maximum Door Sizes & Weights

Size	Recommended Max Door Weight (Lbs)	*Spring Hinges	Butt Hinges Labeled Doors Require Ball Bearing Hinges
3 ½" (Full Mortise)	50	2 Ea.	1 Ea.
	70	2 Ea.	1 Ea.
	90	3 Ea.	-----
4" (Full Mortise)	60	2 Ea.	1 Ea.
	85	2 Ea.	1 Ea.
	110	3 Ea.	-----
4 ½" (Full Mortise)	70	2 Ea.	1 Ea.
	115	2 Ea.	1 Ea.
	150	3 Ea.	-----

HINGE SELECTION

***Notes:** Wind conditions, excessive air pressure on one side of opening, or other adverse job conditions may require the use of all spring hinges. For maximum versatility use all spring hinges. U/L listed spring hinges are not available with reverse springs.

CAL-ROYAL PRODUCTS, INC.



Lifetime Warranty

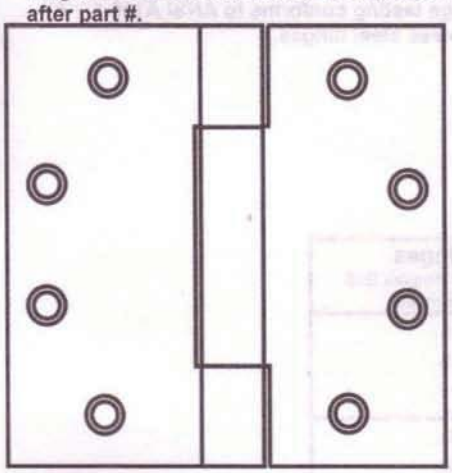
BHMA CERTIFIED

FULL MORTISE TEMPLATE HINGES
Concealed Ball Bearing . Heavy Weight
Brass ANSI A2111
Stainless Steel ANSI A5111
with stainless steel pin
Steel with steel pin ANSI A8111

Three knuckles with concealed ball bearings, non-rising removable pin, concealed pin head and plug.

Cal-Royal Part #	Size Open (Inches)	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
BB1000	4½ x 4	.180	8	½ x 12-24	1¼ x 12	3 Ea.	24
BB3300	4½ x 4½	.180	8	½ x 12-24	1¼ x 12	3 Ea.	24
BB7754	5 x 4	.190	8	½ x 12-24	1¼ x 12	3 Ea.	24
BB77545	5 x 4½	.190	8	½ x 12-24	1¼ x 12	3 Ea.	24
BB7755	5 x 5	.190	8	½ x 12-24	1¼ x 12	3 Ea.	24
BB77645	6 x 4½	.190 Stainless Steel .203 Steel & Brass	10	½ x ¼-20	1½x 14	3 Ea.	24
BB7765	6 x 5	.190 Stainless Steel .203 Steel & Brass	10	½ x ¼-20	1½ x 14	3 Ea.	24
BB7766	6 x 6	.190 Stainless Steel .203 Steel & Brass	10	½ x ¼-20	1½ x 14	3 Ea.	24

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Lifetime Warranty

BHMA CERTIFIED

FULL MORTISE TEMPLATE HINGES
Concealed Ball Bearing . Standard Weight
Brass ANSI A2112
Stainless Steel ANSI A5112
with stainless steel pin
Steel with steel pin ANSI A8112

Three knuckles with concealed ball bearings, non-rising removable pin, concealed pin head and plug.

Cal-Royal Part #	Size Open (Inches)	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
BB223535	3½ x 3½	.119	6	½ x 10-24	1 x 9	2	100
BB224040	4 x 4	.129	8	½ x 12-24	1¼ x 12	3	48
BB22454	4½ x 4	.134	8	½ x 12-24	1¼ x 12	3	48
BB2200	4½ x 4½	.134	8	½ x 12-24	1¼ x 12	3	48
BB2254	5 x 4	.145	8	½ x 12-24	1¼ x 12	3	24
BB22545	5 x 4½	.145	8	½ x 12-24	1¼ x 12	3	24
BB2255	5 x 5	.145	8	½ x 12-24	1¼ x 12	3	24

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CAL-ROYAL PRODUCTS , INC.

CAL-ROYAL

Continuous Geared Hinges

CAL-ROYAL
PRODUCTS, INC.



6605 FLOTILLA ST., COMMERCE, CALIFORNIA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: www.cal-royal.com • Email: sales@cal-royal.com

CAL-ROYAL PRODUCTS, INC.
CONTINUOUS GEARED HINGES

Standard Lengths

Cal-Royal continuous hinge length provides for actual threshold clearance, head clearance and door height allowances for carpeting. Other lengths may be ordered as non-standard items. Our standard actual lengths are 83" (7'0" opening), 95" (7'2" to 8'0" opening).

Special Lengths

Special lengths are considered non-standard items and may not be grouped with standard items or other Cal-Royal Products, to achieve a lower discount. Any Changes to the special length products may be subject to charges for work in process. Templates available on request and on website.

Field Modifications

Cal-Royal continuous hinges can be cut in the field, however, any product modifications may void all warranties. If field modifications must be made, cut only the underside or bottom of the hinge.

Standard Finishes

Cal-Royal continuous hinges are available in either Clear Anodized Aluminum (US28) or Dark Bronze Anodized (Druanodic 313 or equivalent). Special finishes are available subject to quantity & factory leadtime.

Fire Ratings - Underwriters Laboratory Fire Rating

Fire Rated Cal-Royal	Full Concealed	Full Surface
60 Minute Fire Rated Wood Door x Fire Rated Hollow Metal Frame	U/L---FF	U/L---FF
60 Minute Fire Rated Metal Door x Fire Rated Hollow Metal Frame	U/L---FF	U/L---FF
90 Minute Fire Rated Wood Door x Fire Rated Hollow Metal Frame	* U/L---Stud	U/L---Stud
90 Minute Fire Rated Metal Door x Fire Rated Hollow Metal Frame	U/L---FF	U/L---FF
3 Hour Fire Rated Hollow Metal Door x Fire Rated Hollow Metal Frame	*U/L---Stud	U/L---Stud
Maximum Size of Single Rated Door Leaf 4'0" Wide x 10'0" High		
Maximum Rated Opening Size for Single Door 4'0" Wide x 10'0" High		
Maximum Rated Opening Size for Pairs of Doors 8'0" Wide x 10'0" High		

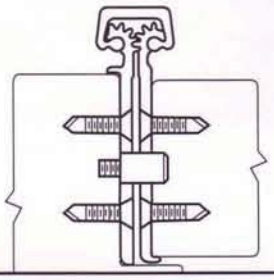
* Devices for which Studs are required.

Cal-Royal continuous hinges are approved for use on swing type doors of hollow metal, tinclad, sheet-metal and steel covered composite type rated up to and including 3 hours.
Wood composite doors rated up to and including 1½ hours.

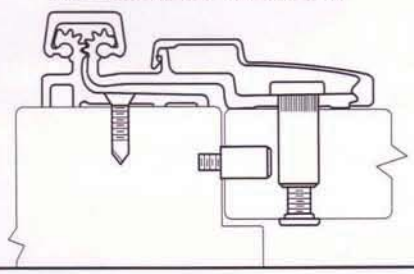
Fully Concealed - These models are concealed between the rabbet of the frame and the hinge edge of the door.
Models available: CR78 1120, CRHD78 1120, CR78 2240, CRHD78 2240

Full Surface - These models have the frame leaf mounted to the face of the frame and the face of the door. The door leaf is mounted to the door with through bolts.
Models available: CR78 1570, CRHD78 1570, CR78 2100, CRHD78 2100

Fully Concealed Mortise with Stud



Full Surface with Stud



Dimensioning Door and Frame ---- Full Concealed Mortised Models

CR78 1120, CRHD78 1120, CR78 2240, CRHD78 2240

The Above models are primarily used for new doors and frames. Both leaves are fully mortised. They can also be used on renovations for a new door with an existing frame or an existing door with a new frame. These hinges will cover existing standard full mortise hinge preps.

Required Clearance

Single Doors (Square Edged)

A. Thickness of Hinge
B. Allowances for frame irregularities
C. Single Door Clearance on lock side

Single Doors (Beveled Edged)

A. Thickness of Hinge
B. Allowances for frame irregularities
C. Single Door Clearance on lock side
D. Allowance for beveled edge

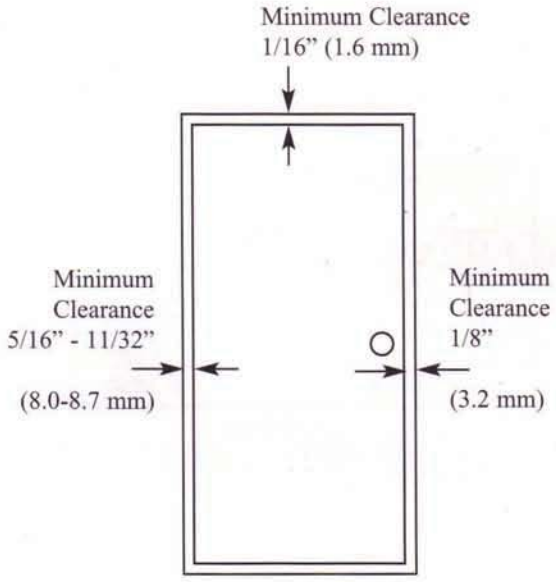
Pairs of Doors (Square Edged)

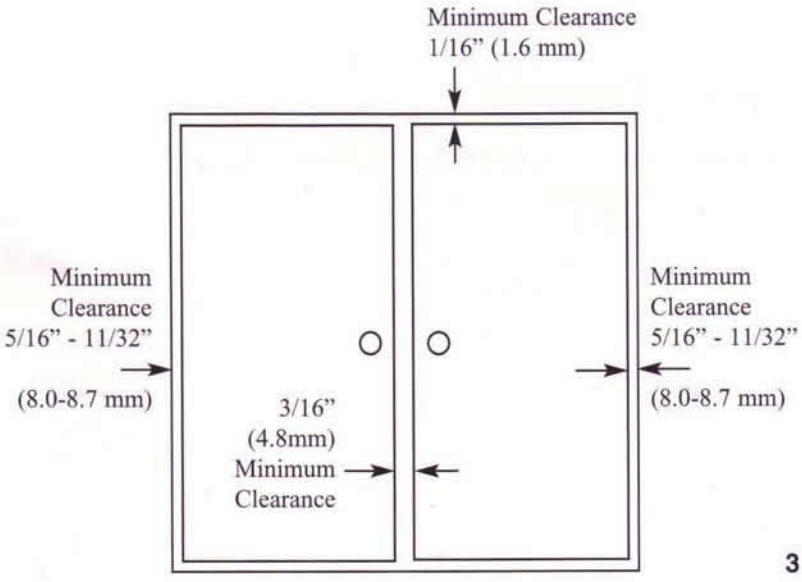
A. Thickness of Hinge
B. Allowances for frame irregularities
C. Recommended Edge to Edge clearance
D. Second allowance for frame irregularities
E. Second hinge thickness

Pairs of Doors (Beveled Edge)

A. Thickness of Hinge
B. Beveled Edge allowance
C. Allowances for frame irregularities
D. Recommended Edge to Edge clearance
E. Second allowance for frame irregularities
F. Second allowance for beveled edge
G. Second hinge thickness

STANDARD		METRIC
5/16"	(10/32")	8.0mm
1/32"	(1/32")	0.8mm
1/8"	(4/32")	3.2mm
Total	15/32"	12.0mm
5/16"	(10/32")	8.0mm
1/32"	(1/32")	0.8mm
1/8"	(4/32")	3.2mm
1/32"	(1/32")	0.8mm
Total	16/32"	12.8mm
5/16"	(10/32")	8.0mm
1/32"	(1/32")	0.8mm
3/16"	(6/32")	4.8mm
1/32"	(1/32")	0.8mm
5/16"	(10/32")	8.0mm
Total	28/32"	22.4mm
5/16"	(10/32")	8.0mm
1/32"	(1/32")	0.8mm
1/32"	(1/32")	0.8mm
3/16"	(6/32")	4.8mm
1/32"	(1/32")	0.8mm
1/32"	(1/32")	0.8mm
5/16"	(10/32")	8.0mm
Total	30/32"	24mm





Determining Door & Frame Dimensions - Full Surface Models

CR78 1570, CRHD78 1570, CR78 2100, CRHD78 2100

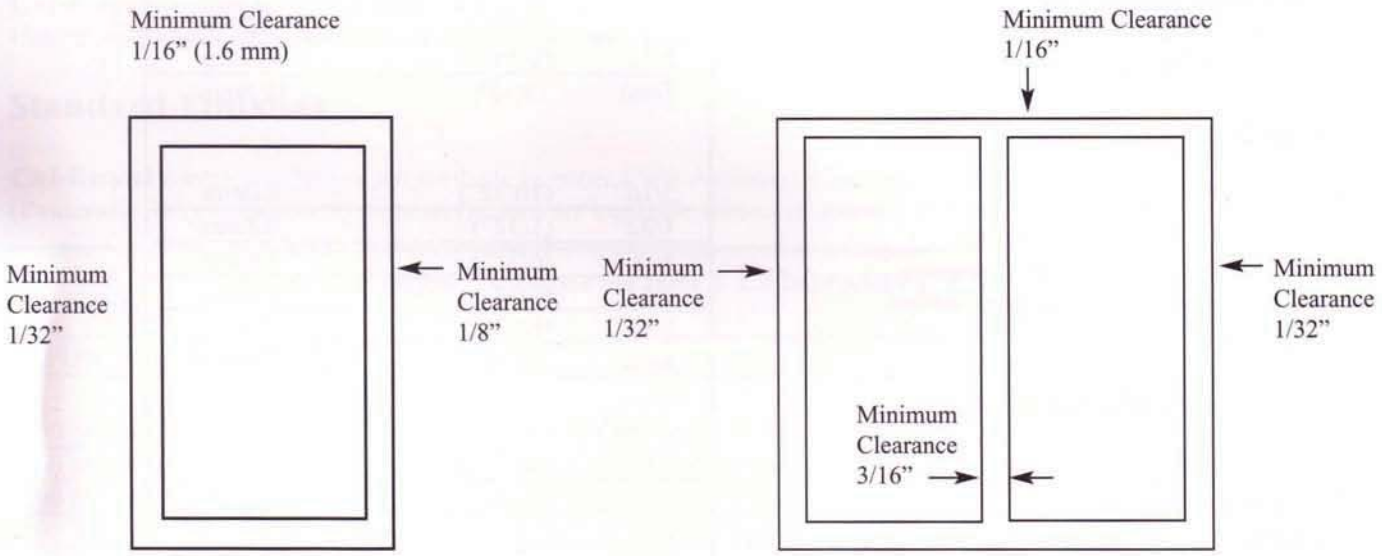
The Above models require no special dimensioning, they are designed for retrofit applications. Full Surface models are designed to be mounted to the exposed surface of the door and frame. Additional clearance is not needed except for door and frame painting.

Required Clearance

Single Doors (Square & Beveled Edge)

A. Thickness of Hinge
B. Additional allowance for door and frame painting (optional)
C. Clearance for Single Door Lock side

STANDARD	METRIC
0" (0")	0mm
1/32" (1/32")	0.8mm
1/8" (4/32")	3.2mm
Total - 5/32"	4.0mm



Note: Additional clearance may be required for paint or weatherstripping.

Required Clearance:

Pair of Doors (Square & Beveled Edge)

A. Thickness of Hinge
B. Frame Irregularities, additional allowance
C. Recommended clearance, edge to edge
D. Frame irregularities, second allowance
E. Second hinge thickness

STANDARD	METRIC
0" (0")	0mm
1/32" (1/32")	0.8mm
3/16" (6/32")	4.8mm
1/32" (1/32")	0.8mm
0" (0")	0mm
Total - 8/32"	6.3mm

CAL-ROYAL PRODUCTS, INC.
CONTINUOUS GEARED HINGES

Concealed / Mortise Leaf • Any Door Material • Standard and Heavy Duty
Standard Duty for medium frequency doors to 200 lbs.
Heavy Duty for high frequency 1-3/4" doors or heavy medium frequency doors up to 450 lbs.

CR78 1120
CRHD78 1120 (Heavy Duty)

Cal-Royal model number	Length		Screw Count	
	Inches	Centimeters	# for door	# for jamb
CR78 1120	83	210.8	20	20
CR78 1120	95	241.3	20	20
CRHD78 1120	83	210.8	28	28
CRHD78 1120	95	241.3	28	28

• CLEARANCE: 5/16" (8mm) hinge side
plus standard lockside clearance

• FASTENERS: Self-Tapping screws
Full Mortise Hinges
1. All fasteners are No. 12-24 x 1/16" Type C, FHUC
   a. Standard Duty Hinges - 10 required for each leaf
   b. Wood Screw - on request (specify on order)

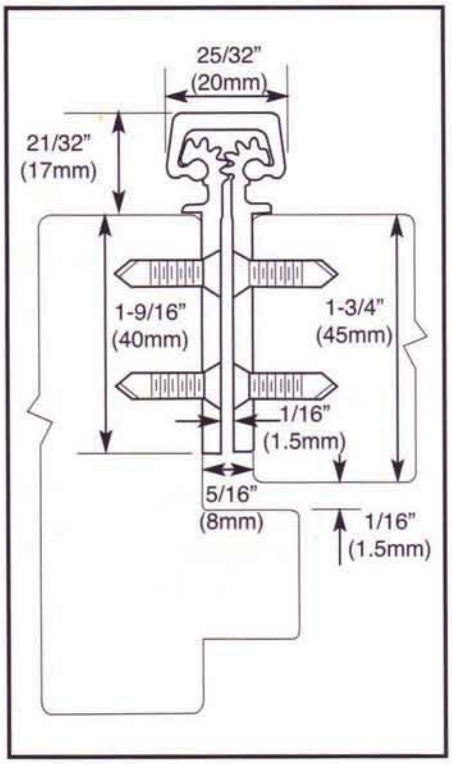
• LENGTH OPTIONS: 83" & 95"

• DOOR REINFORCEMENT: None needed to 200 lbs.
Use 16 gauge channel over 200 lbs

• FRAME REINFORCEMENT: None needed to 200 lbs.
Use 16 gauge channel over 200 lbs

• FIRE RATING: Up to 3 Hours.

• SPECIAL FEATURES: For new construction
For renovation with new doors and / or frames
No mortising of doors or frames required
Will cover hinge cut outs in frames
Flush mount no inset
Frame and door leaf alignment ribs for
proper hinge and location



CAL-ROYAL PRODUCTS, INC.
CONTINUOUS GEARED HINGES

Concealed / Mortise • Any Door Material • Standard and Heavy Duty
Standard Duty for medium frequency 1-3/4"doors to 200 lbs.
Heavy Duty for high frequency 1-3/4" doors or heavy medium frequency 1-3/4" doors up to 450 lbs.

CR78 2240
CRHD78 2240 (Heavy Duty)

Cal-Royal model number	Length		Screw Count	
	Inches	Centimeters	# for door	# for jamb
CR78 2240	83	210.8	20	20
CR78 2240	95	241.3	20	20
CRHD78 2240	83	210.8	28	28
CRHD78 2240	95	241.3	28	28

• CLEARANCE: 15/16" (8mm) hinge side
plus standard lockside clearance

• FASTENERS: Self-Tapping screws
Full Mortise Hinges
1. All fasteners are No. 12-24 x 1/16" Type C, FHUC
   a. Standard Duty Hinges - 10 required for each leaf
   b. Wood Screw - on request (specify on order)

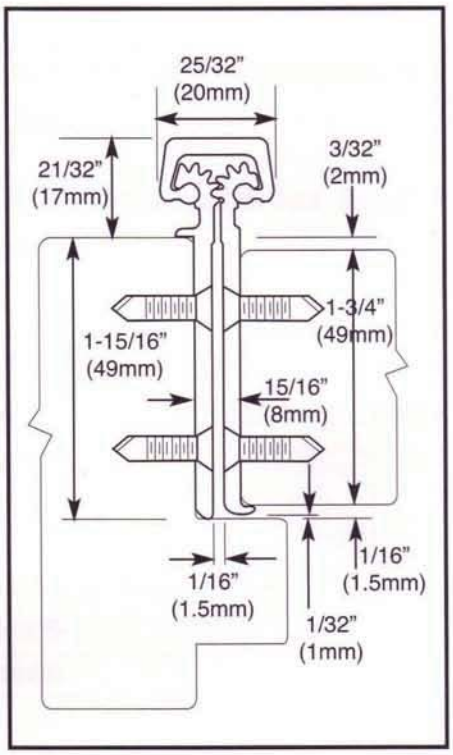
• LENGTH OPTIONS: 83" & 95"

• DOOR REINFORCEMENT: None needed to 200 lbs.
Use 16 gauge channel over 200 lbs

• FRAME REINFORCEMENT: None needed to 200 lbs.
Use 16 gauge channel over 200 lbs

• FIRE RATING: Up to 3 Hours.

• SPECIAL FEATURES: New construction
For renovation with new doors and / or frames
No mortising of doors or frames required
Will cover hinge cut outs in frames
3/32 inset
Door edge protection

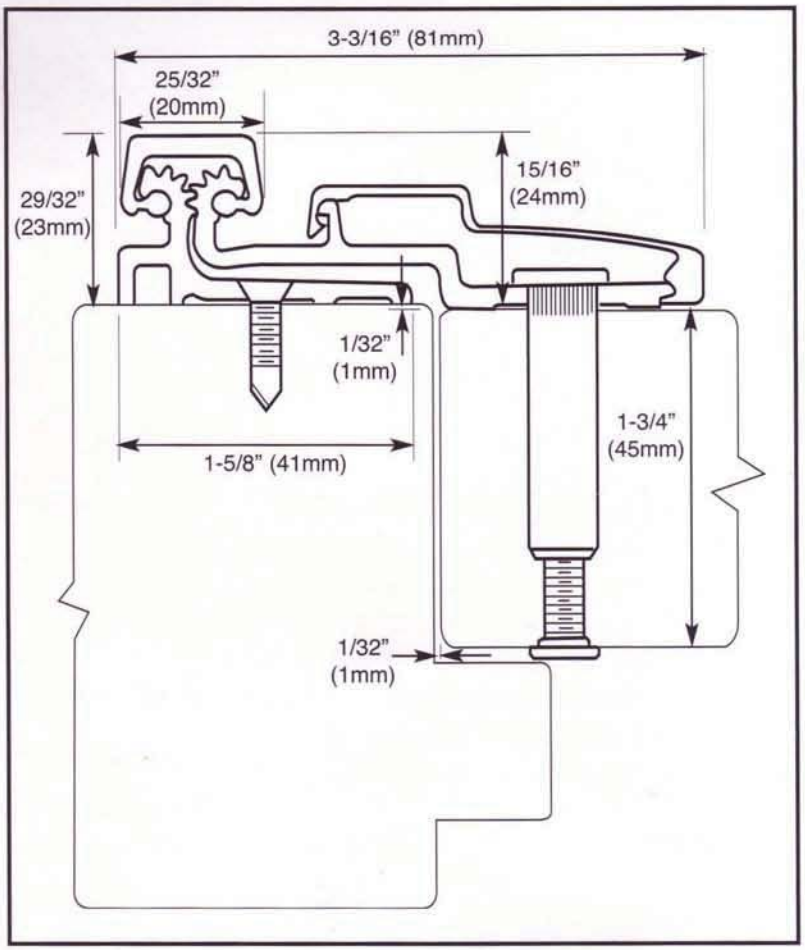


CAL-ROYAL PRODUCTS, INC.
CONTINUOUS GEARED HINGES

Full Surface • Any Door Material • Standard and Heavy Duty
Standard Duty for medium frequency doors to 200 lbs.
Heavy Duty for high frequency doors or heavy medium frequency doors up to 450 lbs.

CR78 2100
CRHD78 2100 (Heavy Duty)

Cal-Royal model number	Length		Screw Count	
	Inches	Centimeters	# for door	# for jamb
CR78 2100	83	210.8	8	16
CR78 2100	95	241.3	10	18
CRHD78 2100	83	210.8	10	22
CRHD78 2100	95	241.3	12	24



• CLEARANCE:
None needed for hinge side.
1-5/8" (41mm) minimum frame face required plus 3/16" (5mm) rotational clearance

• FASTENERS:
Self-Tapping screws and Sexbolts
Full Surface Hinges
1. Frame Portion
   a. All fasteners are No. 12-24 x 1/16" Type C, FHUC
      1. Standard Duty Hinges - 10 required for each leaf
      2. Wood Screw - on request (specify on order)
2. Door Portion
   a. Thru-bolt 1/4-20 x 1-5/8"
      1. Standard Duty Hinges - 6 required for each leaf
   b. Shoulder bolt 1/4-20 x 1" PCH
      1. Standard Duty Hinges - 6 required
   c. Pan Head Self Drilling No. 12 x 3/4"
      1. Standard Duty Hinges - 4 required

• LENGTH OPTIONS: 83" & 95"

• DOOR REINFORCEMENT: None needed

• FRAME REINFORCEMENT: None needed to 200 lbs.
Use 16 gauge channel over 200 lbs

• SPECIAL FEATURES: Flush mount, no inset
New construction
Permanent replacement for existing doors and frames

CAL-ROYAL PRODUCTS, INC.
CONTINUOUS GEARED HINGES

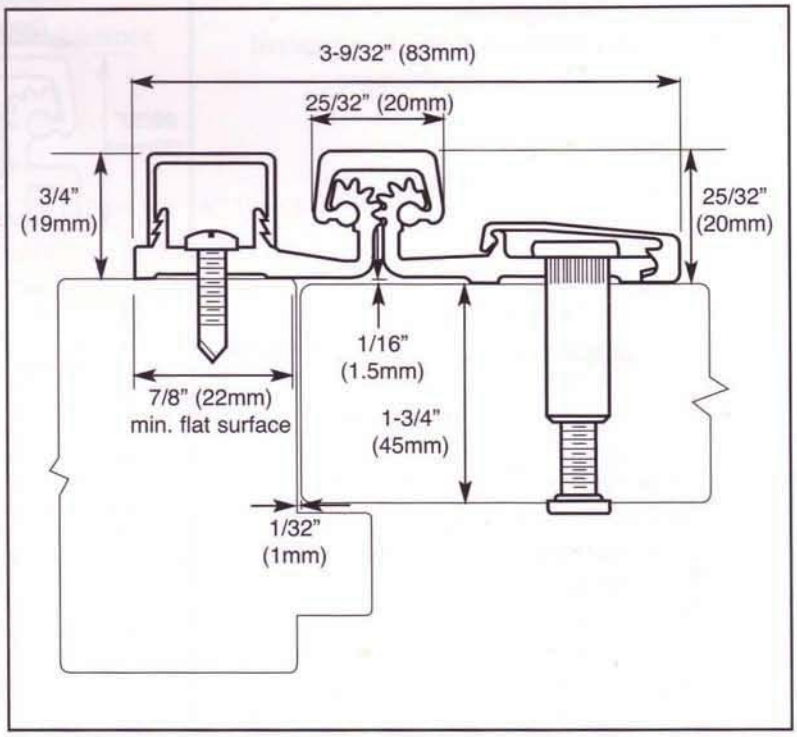
Full Surface • Any Door Material • Standard and Heavy Duty
Standard Duty for medium frequency doors up to 200 lbs.
Heavy Duty for high frequency doors or heavy medium frequency doors up to 450 lbs.

CR78 1570
CRHD78 1570 (Heavy Duty)

Cal-Royal model number	Length		Screw Count	
	Inches	Centimeters	# for door	# for jamb
CR78 1570	83	210.8	8	16
CR78 1570	95	241.3	10	18
CRHD78 1570	83	210.8	10	22
CRHD78 1570	95	241.3	12	24

• CLEARANCE:
None needed for hinge side.

• FASTENERS:
Self-Tapping screws and Sexbolts
Full Surface Hinges
1. Frame Portion
   a. All fasteners are No. 12-24 x 1/16" Type C, FHUC
      1. Standard Duty Hinges - 10 required for each leaf
      2. Wood Screw - on request (specify on order)
2. Door Portion
   a. Thru-bolt 1/4-20 x 1-5/8"
      1. Standard Duty Hinges - 6 required for each leaf
   b. Shoulder bolt 1/4-20 x 1" PCH
      1. Standard Duty Hinges - 6 required
   c. Pan Head Self Drilling No. 12 x 3/4"
      1. Standard Duty Hinges - 4 required



• LENGTH OPTIONS: 83" & 95"

• DOOR REINFORCEMENT: None needed

• FRAME REINFORCEMENT: None needed to 200 lbs.
Use 16 gauge channel over 200 lbs

• SPECIAL FEATURES: Replacement for existing doors & frames
7/8" minimum frame
1/16" inset

CONTINUOUS HINGE MODEL CROSS REFERENCE

Cal-Royal	Roton	Pemko	Markar	Markar	McKinney	Zero	Stanley	ABH	Select
CRHD781120	780-112HD	FMSLFHD	FM2000		MCK12HD	910DB		A110HD	SL11HD
CRHD782110	780-210HD	FSHD	FM2009		MCK22HD	930DB		A210HD	SL18HD
CRHD782240	780-224HD	FMHD	FM2011		MCK25HD	914DB		A240HD	SL24HD
CRHD781570	780-157HD	FSCPHD			MCK58HD	935DB		A570HD	SL57HD
CR781120	780-112	FMSLF	NA	FM1100	MCK-12	910	661	A110	SL11
	780-111	FMSLI		FM100, 200, 300	MCK-14			A111	SL18
	780-110								SL10
CR782110	780-210	FS	FSSC2009	FSSC309	MCK-22	930	665	A210	SL21
CR782240	780-224	FM	FM2011	FM1111	MCK-25	914	662	A240	SL24
								A260	SL26
	780-226					915		A270	SL27
		SPFMSLI							SL28
		RS138							SL30
	780-041								SL41
	780-053					925		A530	SL53
	780-054	HS	HS2003	HS 103, 203, 303	MCK-54		663	A540	SL54
CR781570	780-157	FSCP	FS 2002/12	FS 102, 202, 302	MCK-58	935	664	A570	SL57
				FSTP502					SL60


CAL-ROYAL
PRODUCTS, INC.

CAL-ROYAL PRODUCTS, INC.

CAL-ROYAL
P R O D U C T S, I N C.

c UL US
3 HOUR FIRE RATED

9900 & F9900 Rim Type Panic And Fire Exit Devices
9960 & F9960 Vertical Rod Panic And Fire Exit Devices
ANSI A156.3, Grade 1



Lifetime Warranty

BHMA CERTIFIED

Features & Construction

- For use in institutions, schools, universities, commercial buildings where heavy duty reliable operation is a requirement.
- ANSI A156.3, Grade 1 heavy duty exit device in surface vertical rod and rim designs.
- Rail assemblies are heavy duty extruded aluminum body with stainless steel push pad and end caps are made of brass, bronze or stainless steel. Rail travels in direction of the door swing.
- Trims are thru bolted for additional security.
- Conforms & Meets ADA Regulations.
- UL Listed for Panic and ULC10C, UBC 7-2-1997 codes.
- UL Listed for Fire Exit Hardware. **3 hours**.
- (A) label rating on pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions.
- Uncompromising security and safety in single and double fire exit doors.
- Chassis mounted unit construction. Rim and vertical rod devices are non-handed and easily reversible.
- Available in many different functions. Lever and escutcheon trims are grade 1 construction with clutch free-wheeling mechanism. Rose and escutcheon covers 161 cut out.

Suggested Architect's Specifications

- All exit devices shall be of touch bar design with smooth operation and be operative over 2/3 of the door's clear opening width.
- All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC-7-2-1997 codes.
- All springs shall be of stainless steel throughout.
- All exit devices shall be of chassis mounted unit construction.
- All exit devices shall be ANSI A1563.3, Grade 1.

NEW PRODUCT

9900 & F9900 Series • • • •

CAL-ROYAL PRODUCTS, INC.

Rim Type Exit Device

Specifications

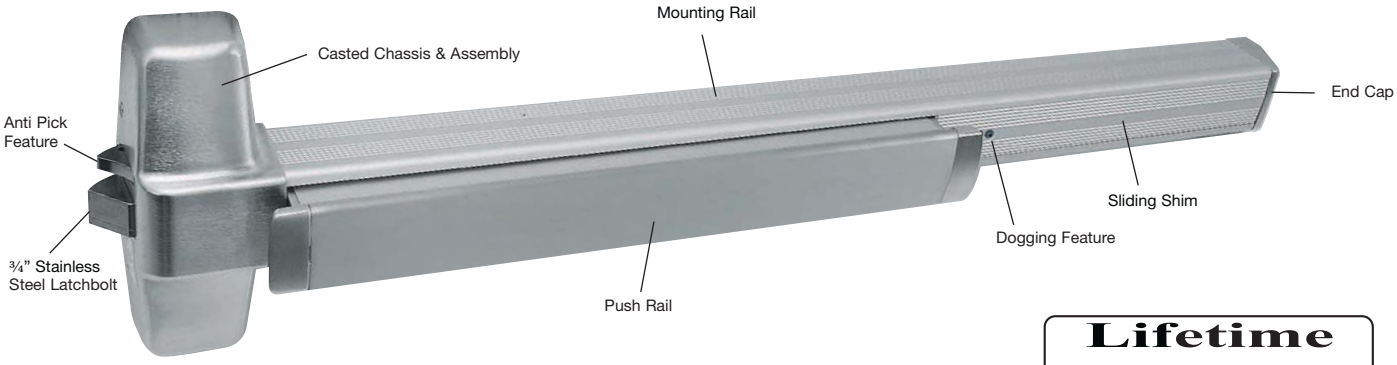
For Doors..... 1¾“ thick standard optional 2 ¼" thick. 4 ½" minimum stile width for single or double door application using standard 938 strike and pull lever, thumbpiece and escutcheon trims.

Chassis..... Non-ferrous alloy (Panic Grade), steel (Fire Grade).

Cover..... Brass, bronze or stainless steel. Covers stock hollow metal doors with 161 cut out.

Mounting..... Furnished with wood and machine screws. Available thrubolts on request.
Thru bolts are included and standard packaging on fire rated devices.

End Cap..... Brass, bronze or stainless steel construction.



Hand..... Non-handed, center hub.

Latch Bolt..... Stainless steel ¾" throw with anti-pick feature.

Spring..... Stainless steel throughout.

ANSI Standard..... A156.3, Grade 1.

Rail Assembly..... Heavy gauge extruded aluminum body with stainless steel push pad.

Strike..... 938 packed standard (See strike page).

Dogging Feature..... Allen-type key furnished standard on non-fire labeled devices.

Mullion..... Available.

UL and ULC Listed..... 9900 Series for panic. F9900 Series for fire exit hardware for all types of 4’ x 8’ single doors and 8’ x 8’ double doors for up to 3 hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes.

Finish..... Architectural plated finishes.

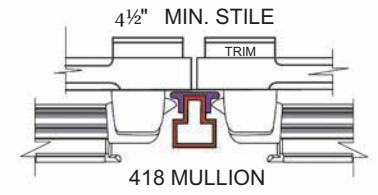
Door Size..... 9900EO36 and F9900EO36 for 36” doors.
9900EO48 and F9900EO48 for 48” doors.

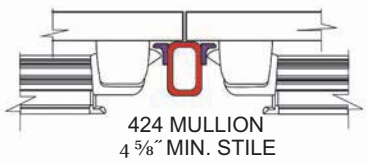
Lifetime Warranty

BHMA CERTIFIED

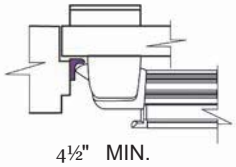
Minimum Stile Requirements
4" escutcheon trims & 4 ½“ for thumbpiece and escutcheon trims

DOUBLE DOOR





SINGLE DOOR



DIMENSIONS

Touchbar height to finished floor	41” (1034mm) at center
Touchbar projection neutral depressed	 3-5/8” (92mm) 1-7/8” (73mm)
Center case	8-1/16” x 2 ¾” x 2 ½“(205mm x 68mm x 62mm)
Device length -- Short 3’ (914mm) -- Long 4’ (1219mm)	2’2” to 3’ (840mm to 914 mm) door size 2’9” to 4’ (1145mm to 1219mm) door size

9960 & F9960 Series

Vertical Rod Type Exit Device

CAL-ROYAL PRODUCTS, INC.



Specifications

For Doors..... 1¾" thick standard optional 2 ¼" thick. 3 ¾" minimum stile width required for single door application. 3 ½" minimum stile width required for double door application. Lever, thumbpiece and escutcheon trims available.

Chassis..... Nonferrous alloy (Panic Grade), steel (Fire Grade)

Cover..... Brass, bronze or stainless steel. Covers stock hollow metal doors with 161 cut out.

Mounting..... Furnished with wood and machine screws. **Thru bolts are included and standard packaging on fire rated devices.**

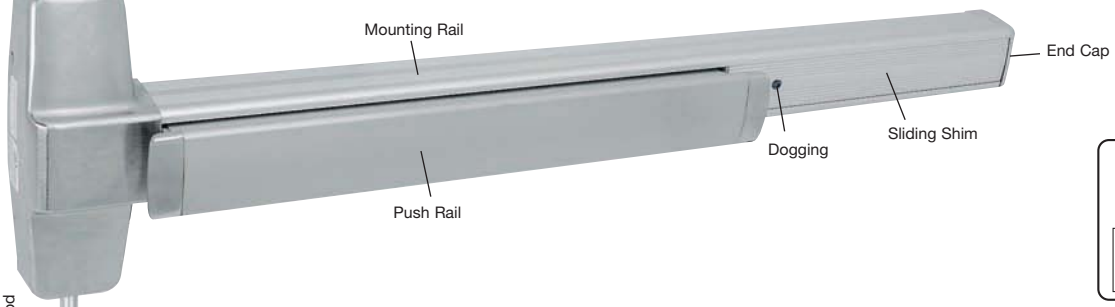
End Cap..... Brass, bronze or stainless steel construction.

Hand..... Easily field reversible. Specify at time of order LHRB, RHRB for convenience.

Latch Bolt, Spring..... Stainless steel.

ANSI Standard..... A156.3, Grade 1.

Rail Assembly..... Heavy gauge extruded aluminum body with stainless steel push pad.



Lifetime Warranty

BHMA CERTIFIED

Strike..... See strike page.

Dogging Feature..... Allen-type key furnished standard on non-fire labeled devices.

UL and ULC Listed..... 9960 Series for panic. F9960 Series for fire exit hardware for all types of 8'x8' double doors for up to 3 hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes.

Finish..... Architectural plated finishes.

Door Size..... 9960V3694 and F9960V3684 for 36" x 84" doors.
9990V4896 and F9990V4896 for 48" x 96" doors.
9990V3696 and F9990V3696 for 36" x 96" doors.
9950V36120 for 36" x 120" doors.
9940V48120 for 48" x 120" doors.

MINIMUM STILE REQUIREMENTS

Double Door with Two Vertical Rod Type Exit Devices



DIMENSIONS

Touchbar height to finished floor	41" (1034mm) at center
Touchbar projection neutral depressed	 3-5/8" (92mm) 1-7/8" (73mm)
Center case	8-1/16" x 2 ¾" x 2 ½"(205mm x 68mm x 62mm)
Device length -- Short 3' (914mm) -- Long 4' (1219mm)	2'2" to 3' (840mm to 914 mm) door size 2'9" to 4' (1145mm to 1219mm) door size
Panic grade top & bottom latch case	3-15/16" x 2-1/8" x 1-3/8" (100mm x 52mm x 42mm)
Fire grade top latch case	3-15/16" x 2-11/16" x 2-1/16" (100mm x 68mm x 53mm)
Fire grade bottom latch case	3-15/16" x 2-1/8" x 1-3/8" (100mm x 52mm x 42mm)
Top and bottom rod length for 36" x 84" doors	Top rod 43-1/4" (1100mm), bottom rod 37-3/4" (960mm)
Top and bottom rod length for 48" x 96" doors	Top rod 53-1/16" (1350mm), bottom rod 37-3/4" (960mm)
Vertical rods	½" (13mm) Round tubing

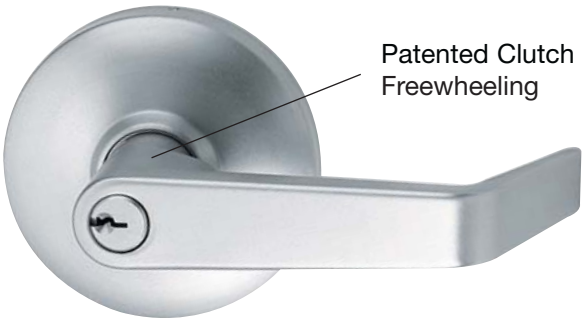
Trim Selection

CAL-ROYAL PRODUCTS, INC.

LEVER DESIGN

Non-handed Grade 1 (Clutch Style)
Cylindrical body hardened steel heavy duty tailpiece. For 1¾" and 2 ¼" doors. Prefix THI before part # for 2 ¼" door thickness. Available for fire and non fire rated rim and vertical rod exit devices.
Rose diameter 3 ½", lever length 4 ¾". Fits and covers 161 cutout.

Finishes: Architectural plated finishes.



ENT00L or ICENT00L
ENTRANCE
Key retracts latchbolt, unlocks lever.
Operates as CLASSROOM FUNCTION.
ANSI Function - 08

STR05L or ICSTR05L
STOREROOM
Key operates lever, otherwise always locked.
ANSI Function - 04

PAS30L
PASSAGE
Trim always operable and free.
ANSI Function - 15

DUM40L
DUMMY
Dummy trim. One sided
ANSI Function – 10

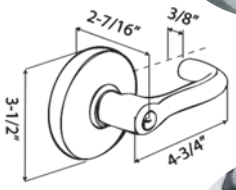
When ordering "AT" and "SPA" designs, prefix design name before part #. Example: *ENT00L in "AT" is* **ATENT00L.**

KEYWAY: Standard 6-pin **"C"** keyway. Also available in Schlage, C-K, Russwin D1, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale GA, Yale 8, Kwikset. Can also accept Medeco, Assa, and Kaba high security cylinders.

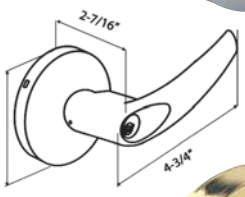
INTERCHANGEABLE CORE
Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.

Other lever trim designs

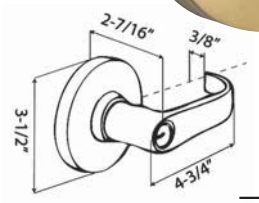


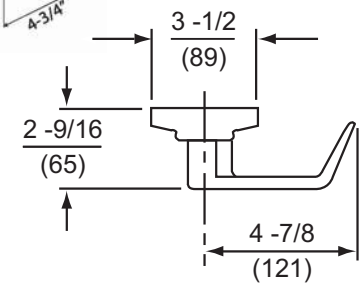


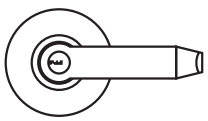












Trim Selection

ESCUTCHEON LEVER DESIGN

CAL-ROYAL PRODUCTS, INC.

CONSTRUCTION

- Rigid, non clutch mechanism.
- Double heavy duty spring support to prevent sagging and enhance operation.
- Grade 1, thru-bolted design. Non-handed design. Easily field reversible.
- Hardened steel heavy duty tailpiece. Available for fire and non fire rated rim and vertical rod exit devices.



DOOR THICKNESS

Standard 1¾". For 2¼" thick door use additional part # TAIL3.

ESCUTCHEON DIMENSIONS

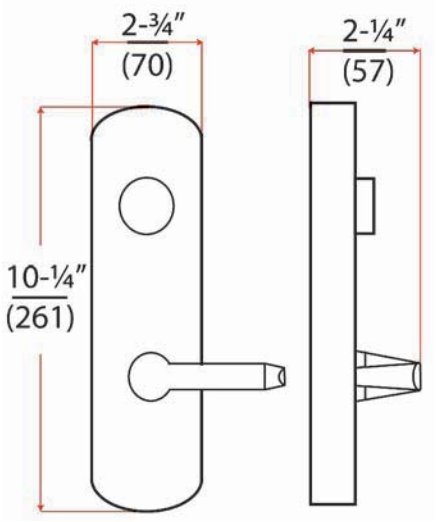
2¾" width X 10¼" length. Lever length: 4¾".
Fits and covers 2⅛" 161 cutout

ESC9900 or ICESC9900 — **ENTRANCE**
Rigid Entrance, key locks or unlocks escutcheon trim
ANSI FUNCTION (63) Operates as classroom function

ESC9905 or ICESC9905 — **STOREROOM**
Rigid Storeroom, key retracts latchbolt, otherwise always locked ANSI FUNCTION (04)

ESC9930 — **PASSAGE**
Trim always operable and free
ANSI FUNCTION (62)

ESC9940 — **DUMMY**
Dummy Escutcheon trim ANSI FUNCTION (10)



KEYWAY: Standard 6-pin "C" keyway. Also available in Schlage C-K, Russwin D1, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale GA, Yale 8, Kwikset. Can also accept Medeco, Assa, and Kaba high security cylinders.

INTERCHANGEABLE CORE

Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.

Trim Selection

CAL-ROYAL PRODUCTS, INC.

PULL DESIGN

9900 NL or IC9900NL

FOR RIM DEVICES ONLY
Outside by pull and key.
Key retracts latchbolt.
ANSI function – 03
Covers 161 cutout

FINISHES
Architectural plated finishes.



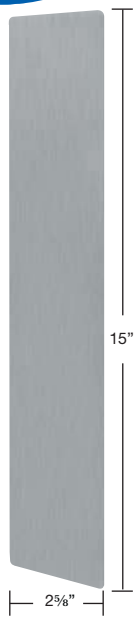
9900 DTP

Outside by pull only.
Pull when dogged.
ANSI function – 02
Covers 161 cutout



9900 EOP

Outside by plate only.
Pull when dogged.
ANSI function – 10
Covers 161 cutout



THUMBPIECE TRIM
(OPERATES ON RIM & VERTICAL ROD DEVICES)

99TP00 or IC99TP00 — **ENTRANCE**
Key locks or unlocks thumbpiece.
(Operates as classroom function)
ANSI Function – 63

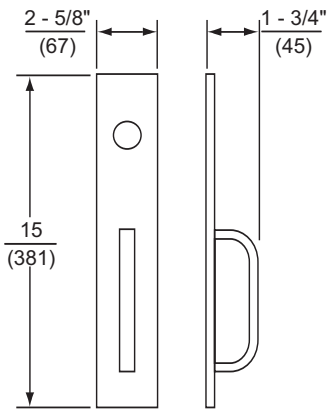
99TP05 or IC99TP05 — **STOREROOM**
Key retracts latchbolt, otherwise always locked.
ANSI Function-04

99TP30 — **PASSAGE**
Trim always operable and free.
ANSI Function – 63

99TP40 — **DUMMY**
Dummy trim. One sided.
ANSI function – 10



KEYWAY: Standard 6-pin "C" keyway. Also available in Schlage C-K, Russwin D1, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale 8, Kwikset. Can also accept Medeco, Assa, and Kaba high security cylinders.



INTERCHANGEABLE CORE
Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.

FINISHES
Architectural plated finishes.

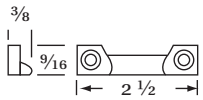
DOOR THICKNESS
Standard 1-3/4". For 2 ¼" thick door use additional part # TAIL 7.

Strikes & Accessories

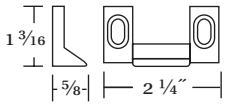
CAL-ROYAL PRODUCTS, INC.

Strikes for use with 9960 vertical rod exit device
All strikes are black nylon coated

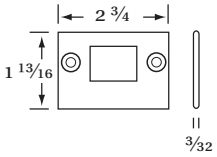
221
Standard for 9960.
Applied to surface of floor or to a flat threshold.
Standard packaging.



227
Applied to surface of stop.
No mortise required.
Standard packaging.

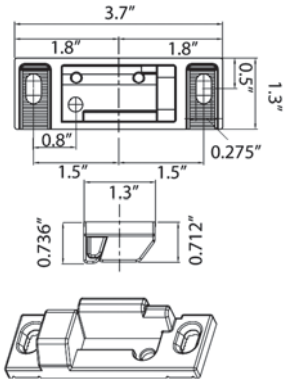


233
Bottom strike. Alternate bottom strike. Flush mounting stainless steel. Furnished with expansion shields.
Requires mortise in the floor.



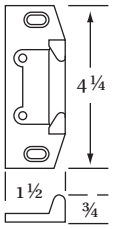
Strikes for use with 9900 rim type exit device

938
For 9900 & F9900 surface applied.
Standard packaging

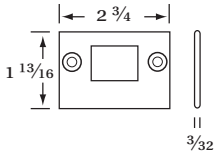


Strikes for use with F9960 vertical rod fire rated exit device

245
Surface applied for F9960.
Standard packaging.

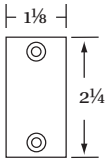


233
Bottom strike for F9960.
Flush mounting stainless steel.
Furnished with expansion shields.
Requires mortise in the floor.
Standard packaging.

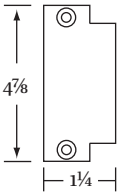


Additional Strikes

LFF
Lock front filler.

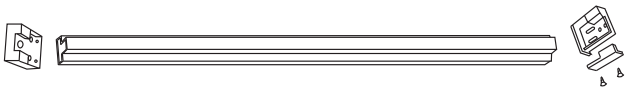


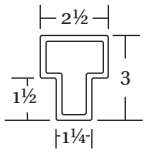
SF
Strike filler



Mullions

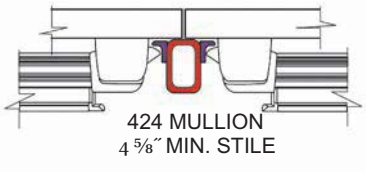
418 – Removable mullion Aluminum painted (Prime coat) includes top and bottom retainer supplied as a stock 96" for non fire rated applications.





424 – Fire exit mullion. 2" x 3" steel tubing round corner, iron construction with iron top and bottom retainers. To be used with two rim type devices on two independent active doors with full double door openings.





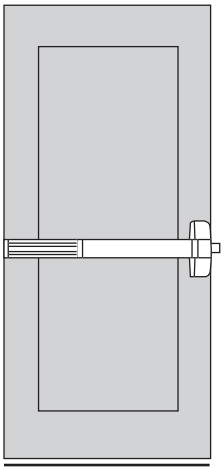
Lockable and electric lockable mullions are available on request.

Additional Rods
Vertical rod for 10 feet high doors available on non-fire rated vertical rod devices only. Use part# **VRRD-10**

9900 & F9900 Rim Type and Fire Exit Devices
9960 & F9960 Vertical Rod and Fire Exit Devices
ANSI A156.3 Grade 1

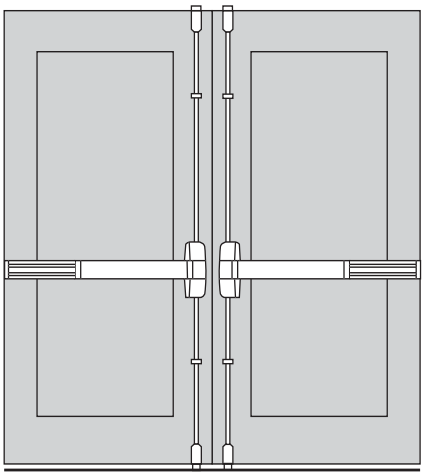
Selector Chart

SINGLE DOOR



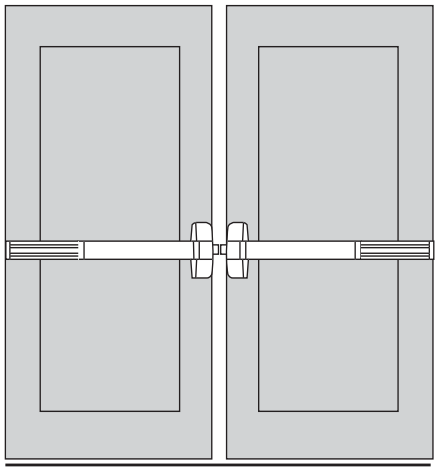
Vertical rod type or Rim type — Surface applied 2 point lock. Surface application.

PAIRS OF DOORS WITHOUT MULLION



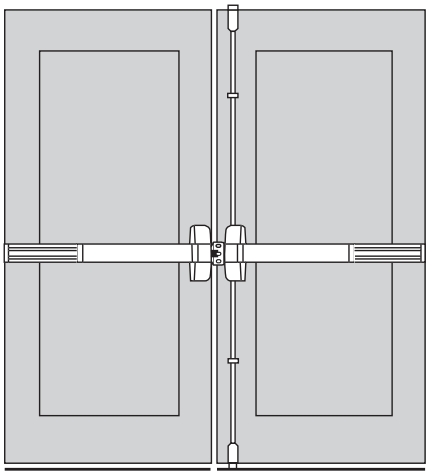
2 Vertical rod type — Surface applied 2 point locking both doors. Each door active same direction. Do not use with overlapping astragal.

PAIR OF DOORS WITH MULLION



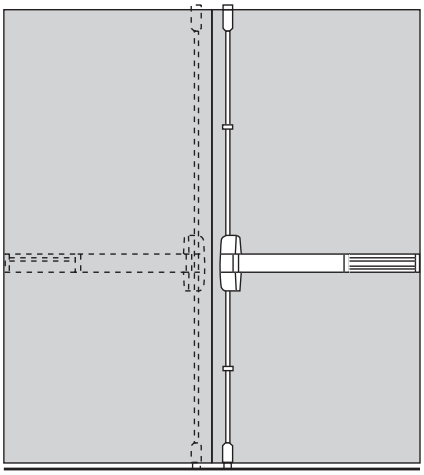
2 Rim type with mullion — Two independent active doors with full double door openings when required. Same direction.

PAIR OF DOORS WITHOUT MULLION



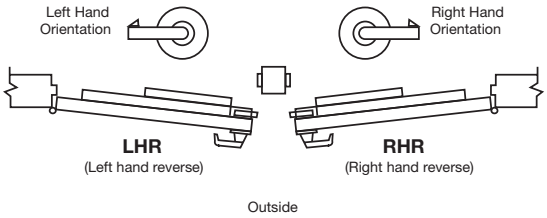
1 Vertical rod and 1 rim type — Both devices are surface applied. A coordinator and overlapping strike is recommended.

PAIR OF DOORS WITHOUT MULLION



2 Vertical rod type — Double egress surface applied. 2 point locking both doors opposite directions.

HANDING



CAL-ROYAL PRODUCTS, INC.
6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com • Email: sales@cal-royal.com

CAL-ROYAL PRODUCTS, INC

EXIT DEVICES
COMPARISON CHART

RIM EXIT DEVICE CONVERSIONS	RIM	VERTICAL ROD	RIM	VERTICAL ROD
ARROW	S2100	S1100	23800	S3700
CAL-ROYAL	2200	2260	9800	9860
CORBIN/RUSSWIN	ED8200	ED8400	ED5400	ED4750
DETEX	V4000	---	10	20
DORMA	8300	8400	9300	9400
PRECISION	5100	5200	2100	2200
SARGENT	2828	2727	8800	8700
VON DUPRIN	22	2227	98	9827
YALE	2100	2110	7100	7110

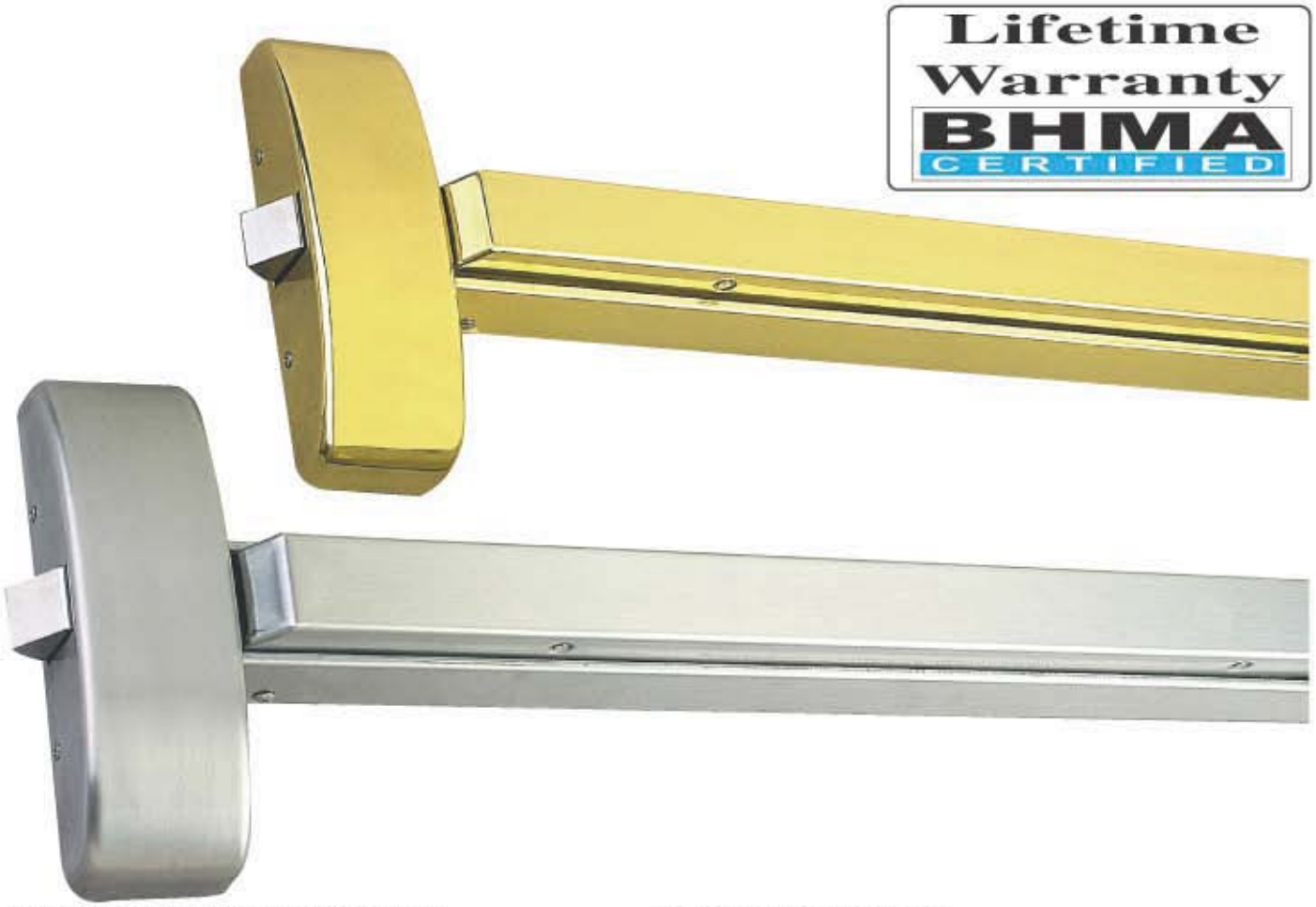
CAL-ROYAL PRODUCTS, INC.

CAL-ROYAL

P R O D U C T S, I N C.

c UL us
3 HOUR FIRE RATED

9800 & F9800 Rim Type Panic And Fire Exit Devices
9860 & F9860 Vertical Rod Panic And Fire Exit Devices
ANSI A156.3, Grade 1



Suggested Architect's Specifications

- All exit devices shall be of touch bar design with smooth operation and be operative over 2/3 of the door's clear opening width.
- All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC 7-2-1997 codes.
- All springs shall be of stainless steel throughout.
- All exit devices shall be of chassis mounted unit construction.
- All exit devices shall be ANSI A156.3, Grade 1.

Features & Construction

- For use in institutions, schools, universities, commercial buildings where heavy duty reliable operation is a requirement.

Features & Construction

- ANSI A156.3, Grade 1 heavy duty exit device in surface vertical rod and rim designs.
- Rail assemblies and end caps are brass, bronze or stainless steel and rail travels in direction of the door swing.
- Trims are thru bolted for additional security.
- Conforms & Meets ADA Regulations.
- UL Listed for Panic and UL10C, UBC 7-2-1997 codes.
- UL Listed for Fire Exit Hardware. **3 hours.**
- (A) label rating on pairs of doors up to 8'0"x 8'0" swinging in same or opposite directions.
- Uncompromising security and safety in single and double fire exit doors.
- Chassis mounted unit construction. Rim and vertical rod devices are nonhanded and easily reversible.
- Available in many different functions. Lever and escutcheon trims are grade 1 construction with clutch freewheeling mechanism. Rose and escutcheon covers 161 cut out.

9800 & F9800 Series

CAL-ROYAL PRODUCTS, INC.

Rim Type Exit Device

Specifications

For Doors	1¾" thick standard optional 2¼" thick. 4½" minimum stile width required for single or double door application using standard 239 strike and pull or lever, thumbpiece and escutcheon trims.
Chassis	Nonferrous alloy (Panic Grade), steel (Fire Grade).
Cover	Brass, bronze or stainless steel. Covers stock hollow metal doors with 161 cutout.
Mounting	Furnished with wood and machine screws. Available with thru bolts on request. **Thru bolts are included and standard packaging on fire rated devices.**
End Cap	Brass, bronze or stainless steel construction.
Alarm	Available. See page 6.

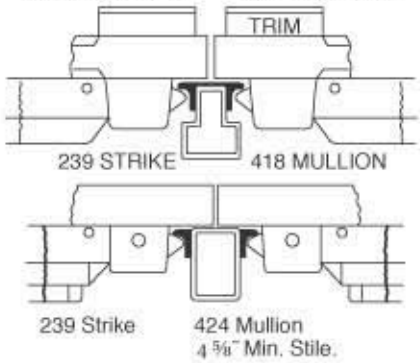


Lifetime Warranty
BHMA CERTIFIED

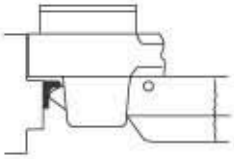
Hand	Non handed, center hub.
Latch Bolt	Stainless steel ¾" throw.
Spring	Stainless steel throughout.
ANSI Standard	A156.3, Grade 1.
Rail Assembly	Heavy gauge brass, bronze or stainless steel.
Strike	239 packed standard (See strike page).
Dogging Feature	Allen-type key furnished standard on non-fire labeled devices. Cylinder dogging available.
Mullion	Available.
UL and ULC Listed	9800 Series for panic. F9800 Series for fire exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3 hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes.
Finish	Architectural plated finishes. See page 5
Door size	9800E036 and F9800E036 for 36" doors. 9820E048 and F9820E048 for 48" doors.

Minimum Stile Requirements
4" escutcheon trims & 4½" for thumbpiece and rose trims

DOUBLE DOOR 4½" MIN. STILE



SINGLE DOOR 4½" MIN. STILE



DIMENSIONS

Touchbar height to finished floor	41" (1043mm) at center
Touchbar projection	
neutral	2½" (64mm)
depressed	1¾" (45mm)
Center case	8½" x 2½" x 2" (216mm x 69mm x 52mm)
Device length—Short 3' (914mm)	2'2" to 3' (840mm to 914mm) door size
Long 4' (1219mm)	2'9" to 4' (1145mm to 1219mm) door size



9860 & F9860 Series

CAL-ROYAL PRODUCTS, INC.

Vertical Rod Type Exit Device

Specifications

For Doors — 1¾" thick standard optional 2¼" thick. 3¾" minimum stile width required for single door application. 3½" minimum stile width required for double door application. Lever, thumbpiece and escutcheon trims available.

Chassis — Nonferrous alloy (Panic Grade), steel (Fire Grade).

Cover — Brass, bronze or stainless steel. Covers stock hollow metal doors with 161 cutout.

Mounting — Furnished with wood and machine screws. **Thru bolts are standard packaging on fire rated devices.**

Alarm — Available. Prefix "Alrm" before part #.



Lifetime Warranty

BHMA CERTIFIED

End Cap — Brass, bronze or stainless Steel Construction.

Hand — Easily field reversible. Specify at time of order LHRB, RHRB for convenience.

Latch Bolt, Spring — Stainless steel.

ANSI Standard — A156.3, Grade 1.

Rail Assembly — Heavy gauge brass, bronze or stainless steel.

Strike — See strike page.

Dogging Feature — Allen-type key furnished standard on non-fire labeled devices. Cylinder dogging available.

UL and ULC Listed — 9860 Series for panic. F9860 Series for fire exit hardware for all types of 8' x 8' double doors for up to 3 hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes.

Finish — Architectural plated finishes. See page 5.

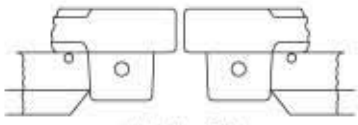
Door size — 9860V3694 and F9860V3684 for 36" x 84" doors.
9880V4896 and F9880V4896 for 48" x 96" doors.
9890V3696 and F9890V3696 for 36" x 96" doors.
9850V36120 for 36" x 120" doors.
9840V48120 for 48" x 120" doors.

DIMENSIONS

Touchbar height to finished floor	41" (1043mm) at center
Touchbar projection	
neutral	2½" (64mm)
depressed	1¾" (45mm)
Center case	8½" x 2½" x 2" (216mm x 69mm x 52mm)
Device length—Short 3' (914mm)	2'2" to 3' (840mm to 914mm) door size
Long 4' (1219mm)	2'9" to 4' (1145mm to 1219mm) door size
Panic grade top & bottom latch case	3 15/16" x 2⅛" x 1⅜" (100mm x 52mm x 42mm)
Fire grade top latch case	3 15/16" x 2 11/16" x 2 1/16" (100mm x 68mm x 53mm)
Fire grade bottom latch case	3 15/16" x 2⅛" x 1⅜" (100mm x 52mm x 42mm)
Top and bottom rod length for 36" x 84" doors	Top rod 43¼"(1100mm), bottom rod 37 ¾" (960mm)
Top and bottom rod length for 48" x 96" doors	Top rod 53 1/16"(1350mm), bottom rod 37 ¾" (960mm)
Vertical rods	½" (13mm) Round tubing

Minimum Stile Requirements

Double Door-With Two Vertical Rod Type Exit Devices



3 ½" Min. Stile

LBR 9860 & F9860 Series

CAL-ROYAL PRODUCTS, INC.

Vertical Rod Type Exit Device Less Bottom Rod - LBR



Specifications

LBR — No Bottom Strike. Free access for wheel chairs, stretcher and carts therefore eliminates tripping potential and disfiguration of floors due to dragging of bottom bolts.

For Doors — 1¾" thick standard. 3¾" minimum stile width required for single door application. 3½" minimum stile width required for double door application. Lever, thumbpiece and escutcheon trims available.

Chassis — Nonferrous alloy (Panic Grade), steel (Fire Grade).

Cover — Brass, bronze or stainless steel. Covers stock hollow metal doors with 161 cutout.

Mounting — Furnished with wood and machine screws. **Thru bolts are standard packaging on fire rated devices.**

Alarm — Available. Prefix "Alm" before part #.

Lifetime Warranty

BHMA CERTIFIED

End Cap — Brass, bronze or stainless steel construction.

Hand — Easily field reversible. Specify at time of order LHRB, RHRB for convenience.

Latch Bolt, Spring — Stainless steel.

Auxiliary Spring Latch — Auxiliary spring loaded latchbolt is installed in the lower edge of the door, when exposed to fire latchbolt releases keeping the door closed and regulated.

ANSI Standard — A156.3, Grade 1.

Rail Assembly — Heavy gauge brass, bronze or stainless steel.

Strike — See strike page.

Dogging Feature — Allen-type key furnished standard on non-fire labeled devices. Cylinder dogging available.

UL and ULC Listed — All Series for panic. **LBR** Series for fire exit hardware for all types of 8' x 8' double doors including double egress for up to 3 hour metal, 1½ hour wood doors fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.

Finish — Architectural plated finishes. See page 5

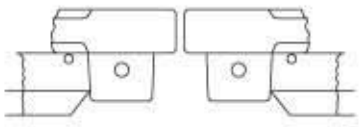
Door size — **LBR** 9860V3684 and **LBR** F9860V3684 for 36" x 84" doors.
LBR 9880V4896 and **LBR** F9880V4896 for 48" x 96" doors.
LBR 9890V3696 and **LBR** F9890V3696 for 36" x 96" doors.

DIMENSIONS

Touchbar height to finished floor	41" (1043mm) at center
Touchbar projection	
neutral	2½" (64mm)
depressed	1¾" (45mm)
Center case	8½" x 2½" x 2" (216mm x 69mm x 52mm)
Device length—Short 3' (914mm)	2'2" to 3' (840mm to 914mm) door size
Long 4' (1219mm)	2'9" to 4' (1145mm to 1219mm) door size
Panic grade top latch case	3 15/16" x 2⅛" x 1⅜" (100mm x 52mm x 42mm)
Fire grade top latch case	3 15/16" x 2 11/16" x 2 1/16" (100mm x 68mm x 53mm)
Top rod length for 36" x 84" doors	Top rod 43¼"(1100mm)
Top rod length for 48" x 96" doors	Top rod 53 1/16"(1350mm)
Vertical rod	½" (13mm) Round tubing

Minimum Stile Requirements

Double Door-With Two Vertical Rod Type Exit Devices



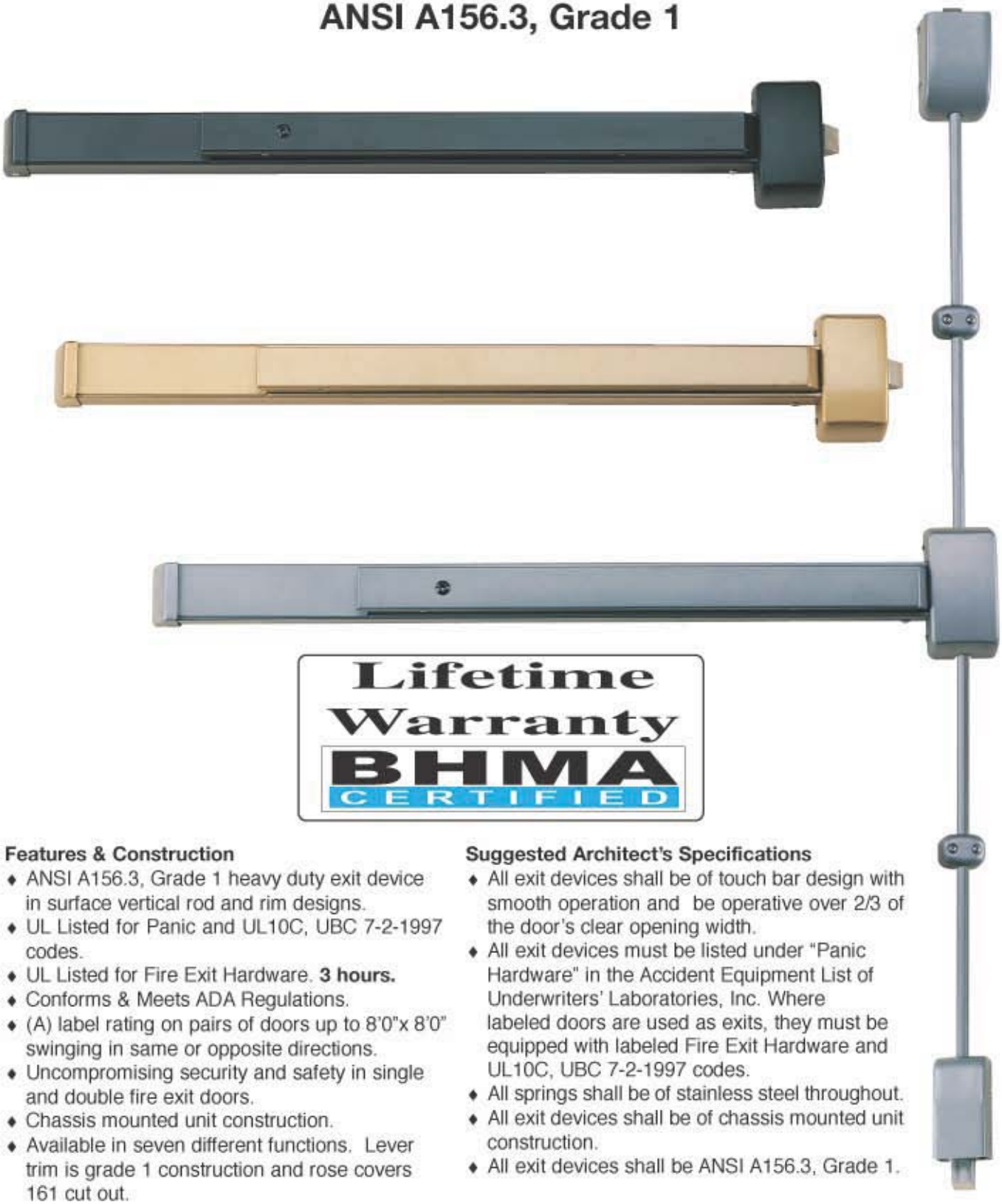
3 ½" Min. Stile

CAL-ROYAL PRODUCTS, INC.

CAL-ROYAL
P R O D U C T S, I N C.

c UL us
3 HOUR FIRE RATED

2200 & F2200 Rim Type Panic And Fire Exit Devices
2260 & F2260 Vertical Rod Panic And Fire Exit Devices
ANSI A156.3, Grade 1



Lifetime Warranty

BHMA CERTIFIED

Features & Construction

- ANSI A156.3, Grade 1 heavy duty exit device in surface vertical rod and rim designs.
- UL Listed for Panic and UL10C, UBC 7-2-1997 codes.
- UL Listed for Fire Exit Hardware. **3 hours.**
- Conforms & Meets ADA Regulations.
- (A) label rating on pairs of doors up to 8'0"x 8'0" swinging in same or opposite directions.
- Uncompromising security and safety in single and double fire exit doors.
- Chassis mounted unit construction.
- Available in seven different functions. Lever trim is grade 1 construction and rose covers 161 cut out.

Suggested Architect's Specifications

- All exit devices shall be of touch bar design with smooth operation and be operative over 2/3 of the door's clear opening width.
- All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC 7-2-1997 codes.
- All springs shall be of stainless steel throughout.
- All exit devices shall be of chassis mounted unit construction.
- All exit devices shall be ANSI A156.3, Grade 1.

2200 & F2200 Series

CAL-ROYAL PRODUCTS, INC.

Rim Type Exit Device

Specifications

For Doors — 1¾" thick standard optional 2¼" thick. 4½" minimum stile width required for single or double door application using standard 239 strike and pull or lever trims.

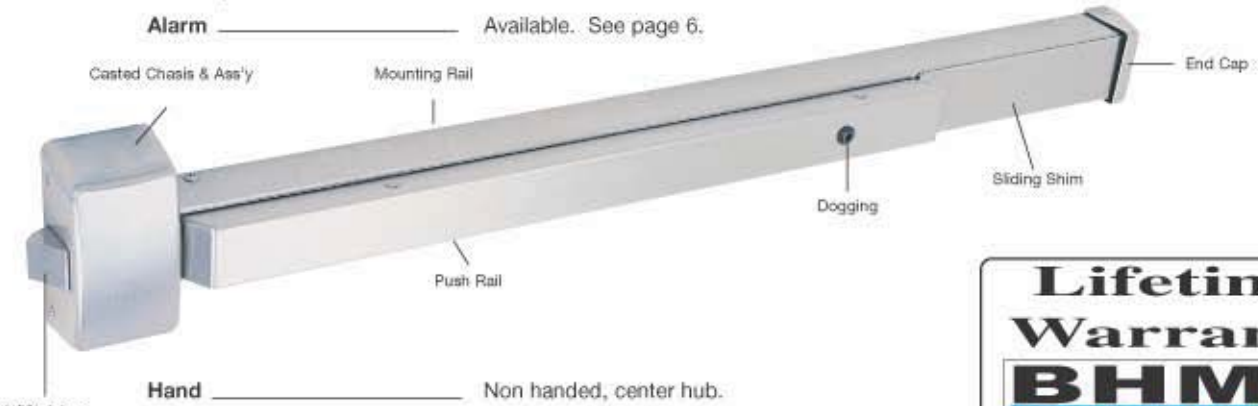
Chassis — Nonferrous alloy (Panic Grade), steel (Fire Grade).

Cover — Nonferrous alloy. Covers stock hollow metal doors with 161 cutout.

Mounting — Furnished standard with wood and machine screws. Available with thru bolts on request.
Thru bolts are standard packaging on fire rated devices.

End Cap — Steel construction.

Alarm — Available. See page 6.



Hand — Non handed, center hub.

Latch Bolt — Stainless steel ¾" throw.

Spring — Stainless steel throughout.

ANSI Standard — A156.3, Grade 1.

Rail Assembly — Heavy gauge steel, painted.

Strike — 239 packed standard (See strike page).

Dogging Feature — Allen-type key furnished standard on non-fire labeled devices. Cylinder dogging available.

Mullion — Available.

UL and ULC Listed — 2200 Series for panic. F2200 Series for fire exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3 hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes.

Finish — Aluminum (alum), dark bronze duranodic (duro), gold.

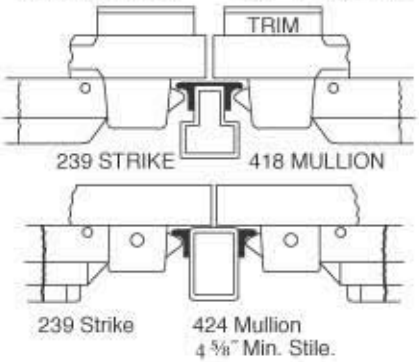
Door size — 2200E036 and F2200E036 for 36" doors.
2220E048 and F2220E048 for 48" doors.

Lifetime Warranty

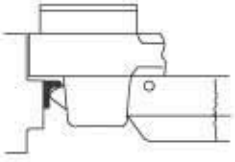
BHMA CERTIFIED

Minimum Stile Requirements
4" escutcheon trims & 4½" for thumbpiece and rose trims

DOUBLE DOOR 4½" MIN. STILE



SINGLE DOOR 4½" MIN. STILE



DIMENSIONS

Touchbar height to finished floor	41" (1043mm) at center
Touchbar projection	
neutral	2½" (64mm)
depressed	1¾" (45mm)
Center case	5⅛" x 2¾" x 2" (129mm x 69mm x 52mm)
Device length—Short 3' (914mm)	2'2" to 3' (840mm to 914mm) door size
Long 4' (1219mm)	2'9" to 4' (1145mm to 1219mm) door size

2260 & F2260 Series

Vertical Rod Type Exit Device

CAL-ROYAL PRODUCTS, INC.



Specifications

For Doors — 1¾" thick standard optional 2¼" thick. 3¾" minimum stile width required for single door application. 3½" minimum stile width required for double door application. Lever trims available.

Chassis — Nonferrous alloy (Panic Grade), steel (Fire Grade).

Cover — Nonferrous alloy. Covers stock hollow metal doors with 161 cutout.

Mounting — Furnished standard with wood and machine screws. **Thru bolts are standard packaging on fire rated devices.**

Alarm — Available. Prefix "Alrm" before part #.

End Cap — Steel Construction.

Hand — Easily field reversible. Specify at time of order LHRB, RHRB for convenience.

Latch Bolt, Spring — Stainless steel.

ANSI Standard — A156.3, Grade 1.

Rail Assembly — Heavy gauge steel, painted.

Strike — See strike page.

Dogging Feature — Allen-type key furnished standard on non-fire labeled devices.

UL and ULC Listed — 2260 Series for panic. F2260 Series for fire exit hardware for all types of 8' x 8' double doors for up to 3 hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes.

Finish — Aluminum (alum), dark bronze duranodic (duro), gold.

Door size — 2260V3694 and F2260V3684 for 36" x 84" doors.
2280V4896 and F2280V4896 for 48" x 96" doors.
2290V3696 and F2290V3696 for 36" x 96" doors.
2250V36120 for 36" x 120" doors.
2240V48120 for 48" x 120" doors.

Lifetime Warranty

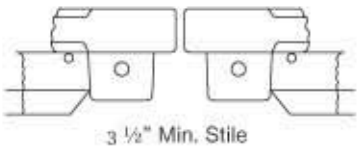
BHMA CERTIFIED

DIMENSIONS

Touchbar height to finished floor	41" (1043mm) at center
Touchbar projection	
neutral	2½" (64mm)
depressed	1¾" (45mm)
Center case	5⅛" x 2¾" x 2" (129mm x 69mm x 52mm)
Device length—Short 3' (914mm)	2'2" to 3' (840mm to 914mm) door size
Long 4' (1219mm)	2'9" to 4' (1145mm to 1219mm) door size
Panic grade top & bottom latch case	3 15/16" x 2⅛" x 1⅜" (100mm x 52mm x 42mm)
Fire grade top latch case	3 15/16" x 2 11/16" x 2 1/16" (100mm x 68mm x 53mm)
Fire grade bottom latch case	3 15/16" x 2⅛" x 1⅜" (100mm x 52mm x 42mm)
Top and bottom rod length for 36" x 84" doors	Top rod 43¼"(1100mm), bottom rod 37 ¾" (960mm)
Top and bottom rod length for 48" x 96" doors	Top rod 53 1/16"(1350mm), bottom rod 37 ¾" (960mm)
Vertical rods	½" (13mm) Round tubing

Minimum Stile Requirements

Double Door-With Two Vertical Rod Type Exit Devices



3 ½" Min. Stile

LBR 2260 & F2260 Series

CAL-ROYAL PRODUCTS, INC.

Vertical Rod Type Exit Device Less Bottom Rod - LBR



Specifications

LBR — No Bottom Strike. Free access for wheel chairs, stretcher and carts therefore eliminates tripping potential and disfiguration of floors due to dragging of bottom bolts.

For Doors — 1¾" thick standard. 3¾" minimum stile width required for single door application. 3½" minimum stile width required for double door application. Lever trims available.

Chassis — Nonferrous alloy (Panic Grade), steel (Fire Grade).

Cover — Nonferrous alloy. Covers stock hollow metal doors with 161 cutout.

Mounting — Furnished standard with wood and machine screws. **Thru bolts are standard packaging on fire rated devices.**

Alarm — Available. Prefix "Alrm" before part #.

Lifetime Warranty

BHMA CERTIFIED

End Cap — Steel Construction.

Hand — Easily field reversible. Specify at time of order LHRB, RHRB for convenience.

Latch Bolt, Spring — Stainless steel.

Auxiliary Spring Latch — Auxiliary spring loaded latchbolt is installed in the lower edge of the door, when exposed to fire latchbolt releases keeping the door closed and regulated.

ANSI Standard — A156.3, Grade 1.

Rail Assembly — Heavy gauge steel, painted.

Strike — See strike page.

Dogging Feature — Allen-type key furnished standard on non-fire labeled devices.

UL and ULC Listed — All Series for panic. **LBR** Series for fire exit hardware for all types of 8' x 8' double doors including double egress for up to 3 hour metal, 1½ hour wood doors fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.

Finish — Aluminum (alum), dark bronze duranodic (duro), gold.

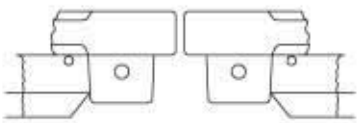
Door size — **LBR** 2260V3684 and **LBR** F2260V3684 for 36" x 84" doors.
LBR 2280V4896 and **LBR** F2280V4896 for 48" x 96" doors.
LBR 2290V3696 and **LBR** F2290V3696 for 36" x 96" doors.

DIMENSIONS

Touchbar height to finished floor	41" (1043mm) at center
Touchbar projection	
neutral	2½" (64mm)
depressed	1¾" (45mm)
Center case	5⅛" x 2¾" x 2" (129mm x 69mm x 52mm)
Device length—Short 3' (914mm)	2'2" to 3' (840mm to 914mm) door size
Long 4' (1219mm)	2'9" to 4' (1145mm to 1219mm) door size
Panic grade top latch case	3 15/16" x 2⅛" x 1⅜" (100mm x 52mm x 42mm)
Fire grade top latch case	3 15/16" x 2 11/16" x 2 1/16" (100mm x 68mm x 53mm)
Top rod length for 36" x 84" doors	Top rod 43¼"(1100mm)
Top rod length for 48" x 96" doors	Top rod 53 1/16"(1350mm)
Vertical rod	½" (13mm) Round tubing

Minimum Stile Requirements

Double Door-With Two Vertical Rod Type Exit Devices



3 ½" Min. Stile

CAL-ROYAL
PRODUCTS, INC.

Alarm Exit Hardware



Rim Type Exit Devices

ALRM 9800 EO36	Alarm rim type 36" door (panic grade)
ALRM 9820 EO48	Alarm rim type 48" door (panic grade)
FALRM 9800 EO36	Alarm rim type 36" door (fire grade)
FALRM 9820 EO48	Alarm rim type 48" door (fire grade)

Vertical Rod Type Exit Devices

Prefix "Alrm" before part #.

Features

Alarm units has an internal horn. When the push rail is depressed, the horn sounds to provide an audible means of signaling that the door has been opened and violated.

The unit has changeable 2 minute alarm cutoff or manual reset. Preset at factory for 2 minute alarm cut off. Jumper cable is provided to swich to continuous alarm.

The key switch to turn the alarm off is a standard 1¼" cylinder with "C" keyway. The alarm operates on one standard 9 volt transistor battery. When battery is weak the horn will emit an intermittent signal.

Alarmed units are supplied with two switches. One switch monitors the push rail and the other switch monitors the latchbolt for full proof security.

Unit includes " emergency exit only. Alarm will sound " decal for application on door or unit.

Finishes

Cal-Royal	Description	BHMA	US Finish	Material
P	Primecoat	600	USP	Steel
3	Polished Brass, Clear Powder Coat	605	US3	Brass
4	Satin Brass, Clear Powder Coat	606	US4	Brass
9	Polished Bright Bronze	611	US9	Bronze
10	Satin Bronze Clear Powder Coat	612	US10	Bronze
10B	Oiled Rubbed Bronze	613	US10B	Bronze
26	Polished Bright Chrome	625	US26	Brass
26D	Satin Chrome	626	US26D	Brass
32	Polished Bright Stainless	628	US32	Stainless Steel
32D	Satin Stainless	630	US32D	Stainless Steel

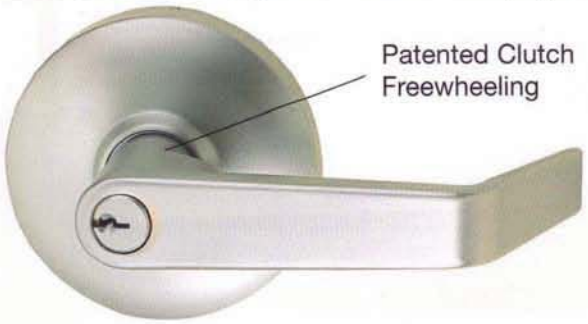
CAL-ROYAL
PRODUCTS, INC.

Trim Selection

LEVER DESIGN

Non handed Grade 1 (Clutch Style)
Cylindrical body hardened steel heavy duty tailpiece. For 1¾" and 2¼" doors. Prefix **THI** before part # for 2¼" door thickness. Available for fire and non fire rated rim and vertical rod exit devices.
Rose diameter 3½",lever length 4¾". Fits and covers 161 cutout.

Finishes: Architectural plated finishes. See page 5.



ENT00L OR
ICENT00L
ENTRANCE
Key retracts latchbolt, unlocks lever. operates as classroom function.
ANSI Function - 08

STR05L OR
ICSTR05L
STOREROOM
Key operates lever, otherwise always locked.
ANSI function - 04

PAS30L
PASSAGE
Trim always operable and free.
ANSI function - 15

DUM40L
DUMMY
Dummy trim. One sided.
ANSI function - 10

When ordering "AT" and "SPA" designs, prefix design name before part #. Example: ENT00L in "AT" design is ATENT00L.

KEYWAY: Standard 6-pin "C" keyway. Also available in Schlage C-K, Russwin D1, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale GA, Yale 8, Kwikset. Can also accept Medeco, Assa, and Kaba high security cylinders.

INTERCHANGEABLE CORE
Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.

Other lever trim designs

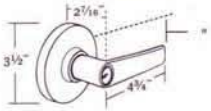


TUB DESIGN



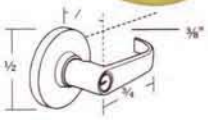


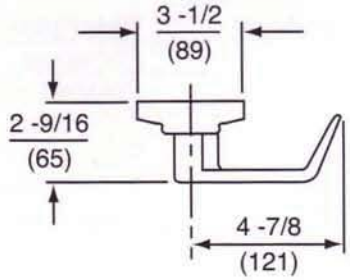
AT DESIGN

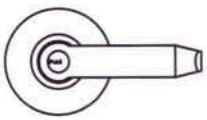




SPA DESIGN







Trim Selection

CAL-ROYAL PRODUCTS, INC.

ESCUTCHEON LEVER DESIGN



CONSTRUCTION

- Rigid, non clutch mechanism.
- Double heavy duty spring support to prevent sagging and enhance operation.
- Grade 1, thru-bolted design. Non-handed design. Easily field reversible.
- Hardened steel heavy duty tailpiece. Available for fire and non fire rated rim and vertical rod exit devices.

DOOR THICKNESS

Standard 1 3/4". For 2 1/4" thick door use additional part# TAIL3.

ESCUTCHEON DIMENSIONS

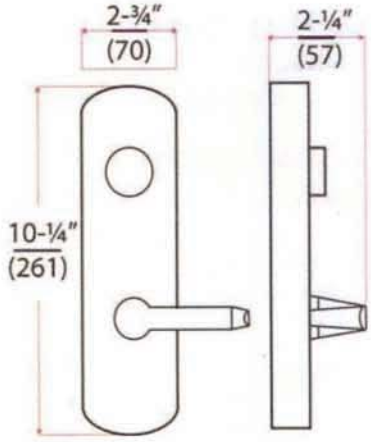
2 3/4" width X 10 1/4" length. Lever length: 4 3/4".
Fits and covers 2 1/8" 161 cutout

NESC9800 or ICNESC9800 — **ENTRANCE**
Rigid Entrance, key locks or unlocks escutcheon trim ANSI FUNCTION (63) Operates as classroom function

NESC9805 or ICNESC9805 — **STOREROOM**
Rigid Storeroom, key retracts latchbolt, otherwise always locked ANSI FUNCTION (04)

NESC9830 — **PASSAGE**
Trim always operable and free
ANSI FUNCTION (62)

NESC9840 — **DUMMY**
Dummy Escutcheon trim ANSI FUNCTION (10)



KEYWAY: Standard 6-pin "C" keyway. Also available in Schlage C-K, Russwin D1, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale GA, Yale 8, Kwikset. Can also accept Medeco, Assa, and Kaba high security cylinders.

INTERCHANGEABLE CORE

Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.

Electrified Lever Trim .....

CAL-ROYAL PRODUCTS, INC.

Cal-Royal's electrified lever trim provides remote locking and unlocking capabilities while incorporating the patented clutch trim design. The 24V DC solenoid can be energized from a distant controller, thus allowing access control of the opening.

The control of stairwells in high-rise buildings is a common application for this trim, where electric pullback of the exit device's latchbolt is cost prohibitive or not required. This is especially practical in applications where fire/life safety codes require a "fail-safe" condition which is not an option with electrified latch pullback devices. Because the current draw is quite low there is no need for a more expensive power supply to provide the surge current.



Features

- Continuous duty solenoids used to insure trouble-free operation
- Internally mounted solenoid to ease installation (no special door prep required)
- No hassle 3-Year Warranty

Options

- Available Fail Safe (electrically locked) or Fail Secure (Electrically Unlocked)
- Voltage options – 12V or 24V (AC/DC)
- Request to Enter Switch (REE) available
- CRU2 – Current Reduction Unit to improve solenoid life in "continuously on" applications

Specifications

Solenoid.....	Continuous Duty 24VDC
Operating Voltage.....	12 or 24VAC/DC + OR – 10% (must specify 12 or 24 volts when ordering)
Amperage.....	260mA@12V / 160mA@24V
Coil Resistance.....	12V=49Ω / 24V=159Ω

To order, Specify:

OPTIONS: FAIL SAFE (**FS**)
FAIL SECURE (**FSE**)

ITEM#	DESCRIPTION
FS 12 ESC TRIM	**FS12** FAIL-SAFE OPTION 12V AC/DC
FS 24 ESC TRIM	**FS24** FAIL-SAFE OPTION 24V AC/DC
FSE 12 ESC TRIM	**FSE12** FAIL-SECURE OPTION 12V AC/DC
FSE 24 ESC TRIM	**FSE24** FAIL-SECURE OPTION 24V AC/DC

CAL-ROYAL
PRODUCTS, INC.

Trim Selection

PULL DESIGN

9800 NL OR
IC9800NL

FOR RIM DEVICES ONLY
Outside by pull and key.
Key retracts latchbolt.
ANSI function - 03
Covers 161 cutout.



9800 DTP

Outside by pull only.
Pull when dogged.
ANSI function - 02
Covers 161 cutout.



9800 EOP

Outside by plate only.
ANSI function - 10
Covers 161 cutout.



FINISHES
Architectural plated finishes.
See page 5

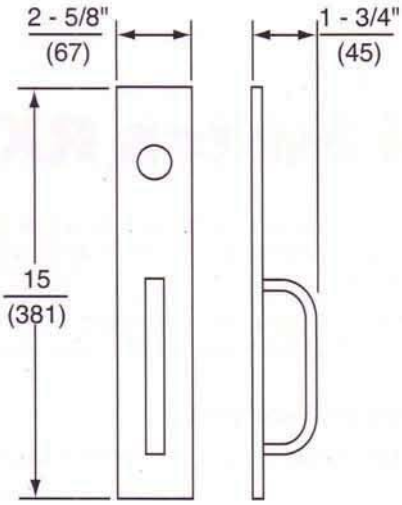
THUMBPIECE TRIM
(OPERATES ON RIM & VERTICAL ROD DEVICES)

98TP00 OR
IC98TP00
ENTRANCE
Key locks or unlocks thumbpiece.
ANSI Function - 63

98TP05 OR
IC98TP05
STOREROOM
Key retracts latchbolt, otherwise always locked.
ANSI function - 04

98TP30
PASSAGE
Trim always operable and free.
ANSI function - 62

98TP40
DUMMY
Dummy trim. One sided.
ANSI function - 10





KEYWAY: Standard 6-pin "C" keyway. Also available in Schlage C-K, Russwin D1, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale GA, Yale 8, Kwikset. Can also accept Medeco, Assa, and Kaba high security cylinders.

INTERCHANGEABLE CORE
Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.

FINISHES
Architectural plated finishes. See page 5

DOOR THICKNESS
Standard 1¾". For 2 ¼" thick door use additional part # tail 7

CAL-ROYAL
PRODUCTS, INC.

(ELR)Electrical Latch Retraction .....

Our electrified latch pullback exit device allows for remote keyless access control in high occupancy/high traffic conditions where exit devices are required. Common applications include conditions such as hospitals, airports, schools, churches and they are commonly specified in applications that require automatic door openers. The device may be continuously energized allowing for a push/pull condition if desired.

Features:

- Available on 9800 & 2200 Series, including rim, vertical rod, concealed vertical rod, fire and non fire-rated devices.
- High-performance quality solenoids designed for demanding applications
- The PM200* interface power module (included) is programmed to meet the requirements of the specific exit device modification. It maximizes the efficiency and life of the solenoid, allows for a much longer wire run and may be used with 24VDC power supplies rated at 1.5A or greater
- Dual coil solenoids, or PWM programming, allow for either momentary or extended time latch retraction
- No hassle 3-Year Warranty

Specifications

- Voltage – 24VDC
- Amperage – Surge current – 12A for 200ms@24V / Holding – 250mA@24V
- Coil resistance – 3.7Ω

To order, specify:

- Prefix **ELR** before PART#

Signal Switch RX and LX .....

RX (request to exit) signal switch is used to signal the use of an opening from the push side. When the push pad is depressed, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the touch bar.

LX (latchbolt monitoring) signal switch monitors both egress and access of an opening. When the latchbolt is retracted, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the latchbolt position.

LX and **RX** switches can be combined.

LX, **RX** switches can be used in combination with **EL** (electric latch retraction) option.

Specifications

RX or **LX**.....	Switch rated 0.5 amperes @ 24VAC/DC resistive
Low current **RX** or **LX**.....	Switch rated 0.5 amperes @ 24VAC/DC resistive

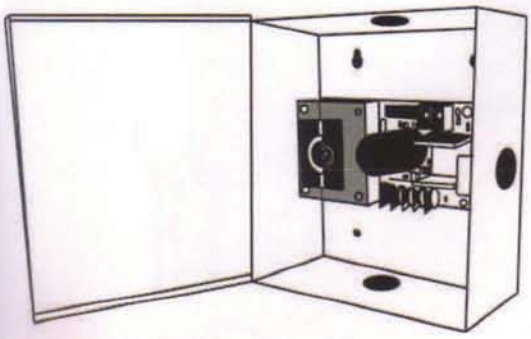
For Factory Installed:

To Order, Specify:

Prefix: -	**RX**.....	Request to Exit
	LX.....	Latchbolt Monitoring
	LXRX.....	Latchbolt Monitoring/Request to Exit Combination

CAL-ROYAL
PRODUCTS, INC.

POWER SUPPLIES FOR ELECTRIFIED EXIT DEVICES•••••



CRPS1N

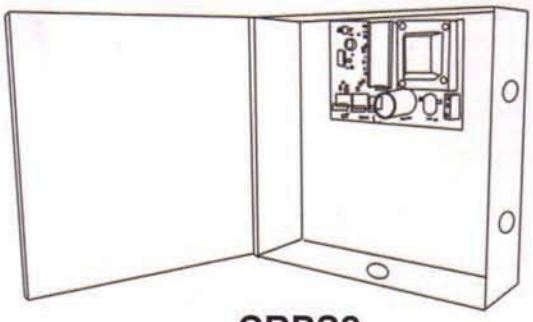
The CRPS1N is a heavy duty, high quality, low cost solution for powering a single latch retracting exit device. The solid state design insures years of trouble-free operation. The power supply delivers raw, unregulated DC current which is ideal for the extreme in-rush requirement of most solenoid driven electric latch retracting exit devices. The power supply comes housed in a sturdy, yet compact metal enclosure.

Features:

- Power supply delivers the necessary high current in-rush for a single exit device
- Solid-state design eliminates problems associated with mechanical relays
- Single input/output
- No hassle 3-Year Warranty

Specifications:

- Input voltage – 110 VAC
- Output voltage – 24 VDC unregulated @ 2.3A
- Temperature range – 0 to 120F
- 1 Solid-State input/output (input triggered by dry contact)
- LEDs – RED = Power indicator / GREEN = Channel on
- Enclosure dimensions: 7" X 8" X 3.5"



CRPS2
CRPS2BB

The CRPS2 Series power supplies are high quality, cost effective solution for powering two electric latch-retracting exit devices. These power supplies provide the necessary surge current that most latch-retracting exit devices require. The CRPS2 Series offers features found on power supplies costing much more; and the solid-state design and careful attention to detail make the CRPS2 Series ideal choice for the discerning user who requires a power supply that can offer years of trouble-free operation.

Features:

- Delivers the necessary in-rush current to power two latch pullback exit devices.
- Two independent inputs/outputs
- Solid-state design eliminates mechanical problems associated with relays
- Thermal overload sensing reduces risk of failure due to overheating
- Fire alarm disconnect link
- Inputs triggered by dry contact
- Intelligent short circuit detection detects shorts much faster than fuses and isolates the short to the individual output
- Removable Euro-style terminal blocks allow for easy installation
- UL Pending at time of print
- No hassle 3-Year Warranty

Additional Features (CRPS2BB Only):

- Efficient battery backup/charging circuitry with zero voltage drop at power loss
- Solid state reverse polarity protection for battery connections
- Audible alert when sensing AC power failure & low battery (batteries not included)

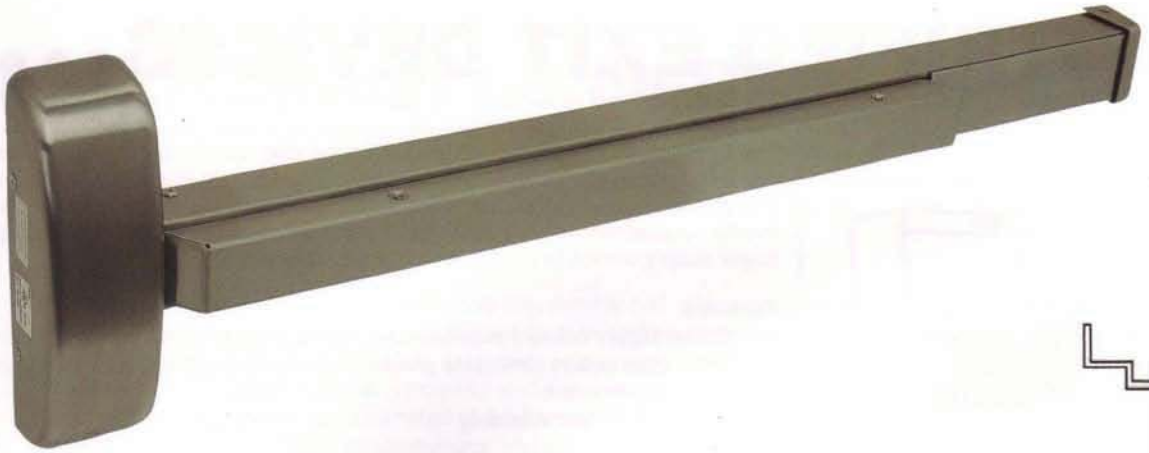
Specifications:

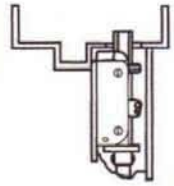
- Input Voltage – 120 VAC
- Output Voltage – 24 VDC unregulated @ 2.3A
- Temperature Range – 0 to 120 F
- 1 Solid-State input/output (input triggered by dry contact)
- LEDs – Red = Power indicator / GREEN = Channel on
- Enclosure dimensions: 7" X 8" X 3.5"

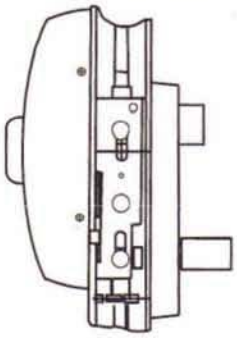
MCVR9800 Series Exit Devices

CAL-ROYAL PRODUCTS, INC.

Grade 1 Concealed Vertical Rod Exit Device For Metal Doors









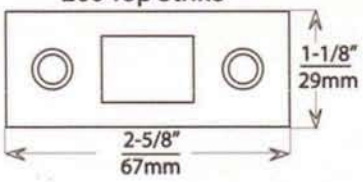
Specifications

For Doors	Metal. 1 3/4" (44.5mm) minimum thickness 4 1/2" (114mm) minimum stile width
Chassis	Nonferrous alloy
Chassis Cover	Bronze or stainless steel
Mounting	Furnished standard with machine screws
End Cap	Brass, bronze or stainless Steel Construction
Hand	Easily field reversible. Specify at time of order LHRB, RHRB for convenience
ANSI Standard	A156.3, Grade 1
Strikes	260 top and 265 bottom
Top and Bottom Bolts	Stainless steel. Top and bottom bolt travel 7/16" (11mm) Projection adjustable up to 1" (25mm)
Fire Exit hardware	W9800 Series for fire exit hardware for all types of 8' x 8' Double doors for up to 3 hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes
Rail Height	Specify door opening and mounting height of center line of rail when ordering an vertical Rod Exit Device 41" from floor
Trim	See Trim Designs section
Electric Functions	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
Door Size	M98CVR 3684 for 36" X 84" doors. Other sizes available on request M98CVR 3696 for 36" X 96" doors

Lifetime Warranty

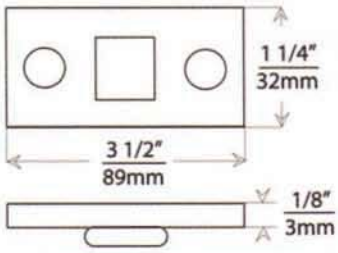
BHMA CERTIFIED

260 Top Strike



- For applications metal frames
- Stainless Steel

265 Bottom Strike

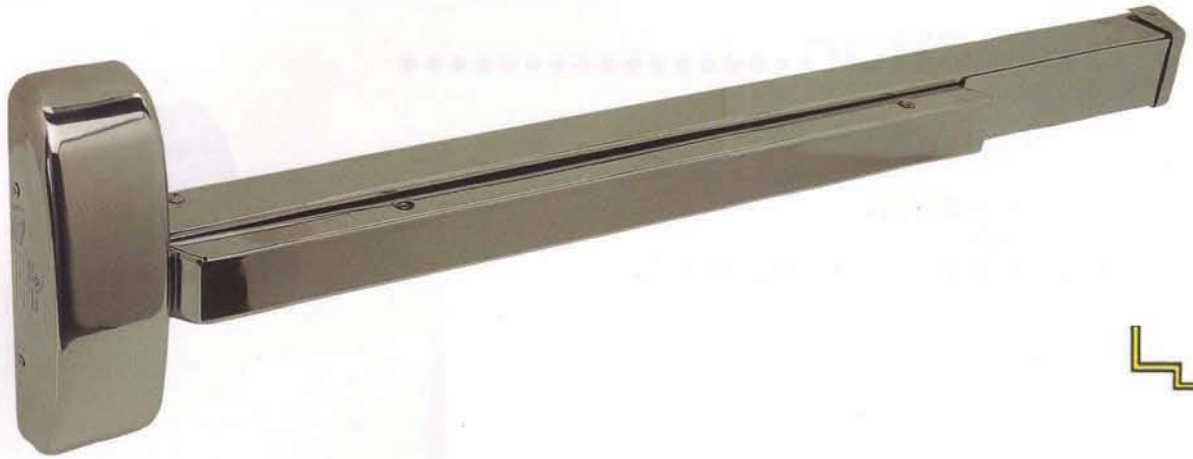


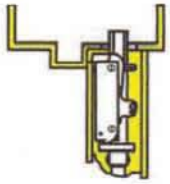
- Furnished with expansion shields
- Mortised into floor
- Stainless Steel

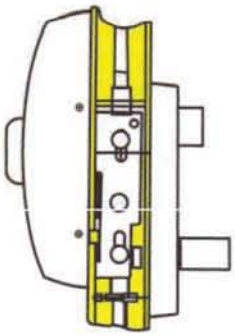
WCVR9800 Series Exit Devices

CAL-ROYAL PRODUCTS, INC.

Grade 1 Concealed Vertical Rod Exit Device For Wood Doors











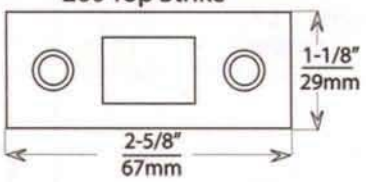
Specifications

For Doors	Wood. 1 3/4" (44.5mm) minimum thickness 4 1/2" (114mm) minimum stile width
Chassis	Nonferrous alloy
Chassis Cover	Bronze or stainless steel
Mounting	Furnished standard with wood screws
End Cap	Brass, bronze or stainless Steel Construction
Hand	Easily field reversible. Specify at time of order LHRB, RHRB for convenience
ANSI Standard	A156.3, Grade 1
Strikes	260 top and 265 bottom
Top and Bottom Bolts	Stainless steel. Top and bottom bolt travel 7/16" (11mm) Projection adjustable up to 1" (25mm)
Fire Exit hardware	W9800 Series for fire exit hardware for all types of 8' x 8' Double doors for up to 3 hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes
Rail Height	Specify door opening and mounting height of center line of rail when ordering an vertical Rod Exit Device 41" from floor
Trim	See Trim Designs section
Electric Functions	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
Door Size	W98CVR 3684 for 36" X 84" doors. Other sizes available on request W98CVR 3696 for 36" X 96" doors

Lifetime Warranty

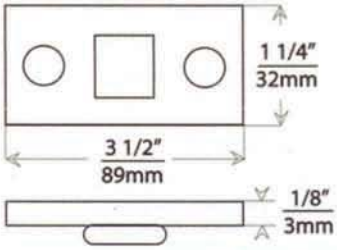
BHMA CERTIFIED

260 Top Strike



- For applications metal frames
- Stainless Steel

265 Bottom Strike



- Furnished with expansion shields
- Mortised into floor
- Stainless Steel

MCVR9800 / WCVR9800

Concealed Vertical Rod Exit Device For Wood & Metal Doors

Trim Selection.....

ESCUTCHEON LEVER DESIGN

CONSTRUCTION
Grade 1, thrubolted design, clutch freewheeling. Non handed design. Easily field reversible.
Hardened steel heavy duty tailpiece. Available for fire rated concealed vertical rod exit devices.

FINISHES
Architectural plated finishes.

DOOR THICKNESS
Standard 1 3/4

ESCUTCHEON DIMENSIONS
2 5/16" width X 8 1/2" length. Lever length: 4 3/4". Fits and covers 2 1/8" 161 cutout



CLUTCH FREEWHEELING

CVRESC9800 or ICCVRESC9800

ENTRANCE
Clutch Mechanism
Key locks or unlocks lever.)
operates as classroom function
ANSI function - 63

CVRESC9805 or ICCVRESC9805

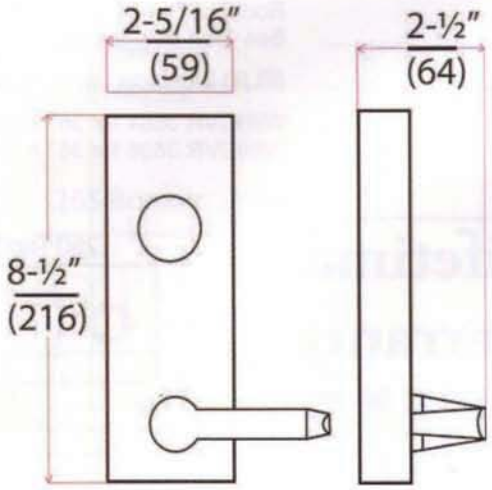
STOREROOM
Clutch Mechanism
Key retracts latchbolt, otherwise
Always locked
ANSI function - 04

CVRESC9830

PASSAGE
Trim always operable and free.
ANSI function – 62

CVRESC9840

DUMMY
Dummy trim. One sided
ANSI function - 10



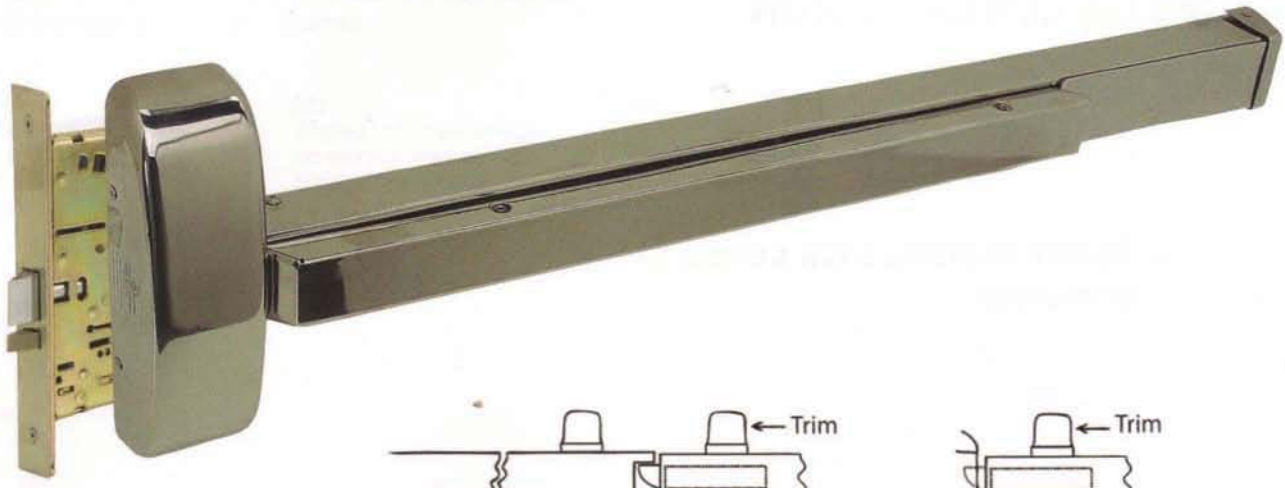
KEYWAY: Standard 6-pin **"C"** keyway. Alsoavailable in Schlage, C-K, Russwin D1, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale GA, Yale 8, Kwikset. Can also accept Medeco, Assa, and Kaba high security cylinders.

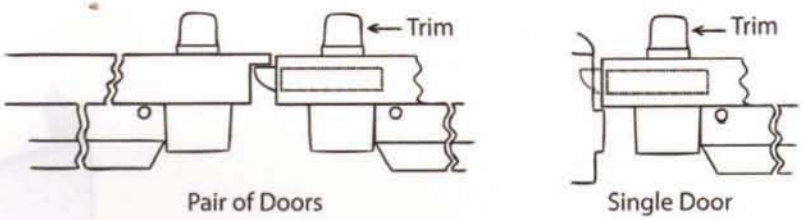
INTERCHANGEABLE CORE
Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW

MR9800 Series Exit Devices..

CAL-ROYAL PRODUCTS, INC.

Grade (1) Mortise Lock Exit Device





Pair of Doors Single Door

Specifications

For Doors	Wood / metal. 1 3/4" (44.5mm) minimum thickness 4 1/2" (114mm) minimum stile width
Chassis	Nonferrous alloy.
Chassis Cover	Bronze or stainless steel
End Cap	Brass, bronze or stainless Steel Construction
Handing	Non-Handed. Specify RHR or LHR for convenience
ANSI Standard	A156.3, Grade 1
Mounting	Furnished standard with wood and machine screws
Strikes	Standard ANSI strike
Mortise Lock	Grade (1) for 1-3/4" (44.5mm) thick doors. Reversible. Fits door prepared for ANSI Standard A115.1
Fire Exit hardware	MR9800 Series for fire exit hardware for all types of 8' x 8' double doors for up to 3 hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes
Trim	See Trim Designs section
Electric Functions	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
Door Size	MR9800EO36 for 36" doors MR9800EO48 for 48" doors

Lifetime Warranty

BHMA CERTIFIED

MR9800 Mortise Lock Rim Exit Device

CAL-ROYAL PRODUCTS, INC.

Trim Selection

ESCUTCHEON LEVER DESIGN



- **Refer to M Series Mortise lock series for product Information**

FINISHES
Architectural plated finishes.

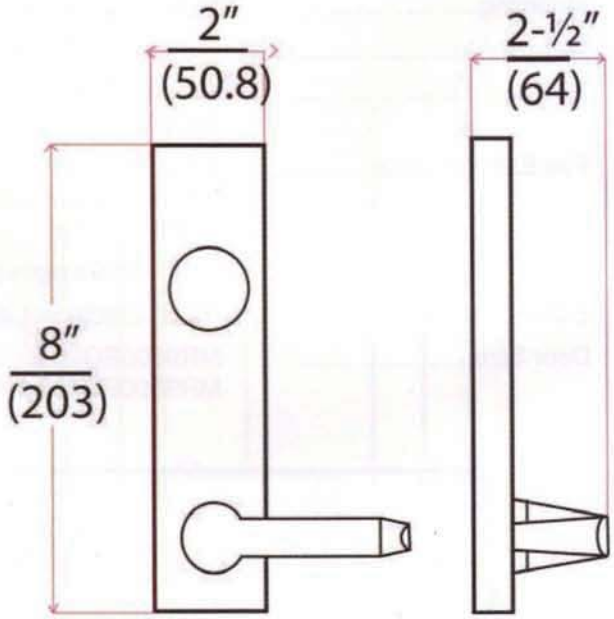
DOOR THICKNESS
Standard 1 3/4".

ESCUTCHEON DIMENSIONS
2" width X 8" length. Lever length: 4 3/4". Fits and covers 2 1/8" 161 cutout

MRESC9800 or ICMRESC9800
ENTRANCE
Key locks or unlocks lever.
ANSI function - 63

MRESC9805 or ICMRESC9805
STOREROOM
Key retracts latchbolt, otherwise Always locked
ANSI function - 04

MRESC9830
PASSAGE
Trim always operable and free.
ANSI function – 62



KEYWAY: Standard 6-pin **"C"** keyway. Also available in Schlage, C-K, Russwin D1, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale GA, Yale 8, Kwikset. Can also accept Medeco, Assa, and Kaba high security cylinders.

INTERCHANGEABLE CORE
Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW

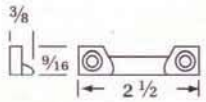
CAL-ROYAL
PRODUCTS, INC.

Strikes & Accessories

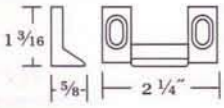
Strikes for use with 9860 vertical rod exit device

All strikes are black nylon coated

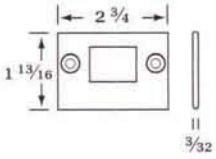
221
Standard for 9860.
Applied to surface of floor or to a flat threshold.
Standard packaging.



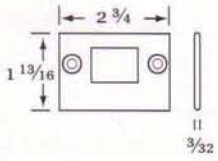
227
Applied to surface of stop.
No mortise required.
Standard packaging.



233
Bottom strike. Alternate bottom Strike. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor.

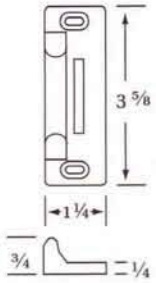


RIM 238
Strike for 2⅜" Backset Application



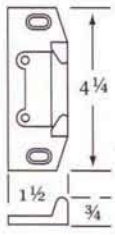
Strike for use with 9800 rim type exit device

239
For 9800 surface applied.
Standard packaging.

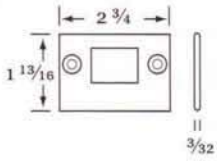


Strikes for use with F9860 vertical rod fire rated exit device

245
Surface applied for F9860.
Standard packaging.

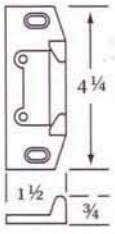


233
Bottom strike for F9860.
Flush mounting stainless steel.
Furnished with expansion shields.
Requires mortise in the floor.
Standard packaging.



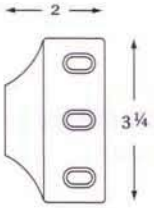
Strike for use with F9800 rim fire exit device

245
For F9800 surface applied,
Standard packaging.



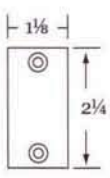
Overlapping Strike

251
Surface applied. Used on inactive leaf for device on active leaf of pair of doors without mullion.

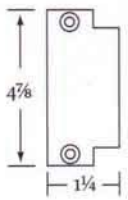


Additional strikes

LFF
Lock front filler.



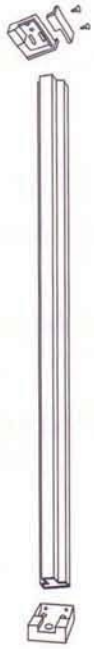
SF
Strike filler.

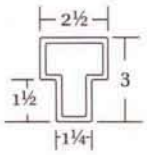


Accessories

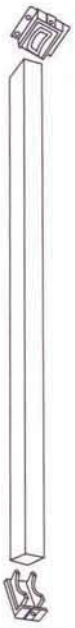
Mullions

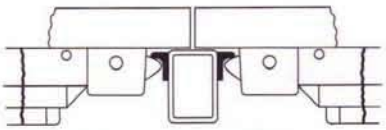
418 - Removable mullion Aluminum painted (Prime coat) includes top and bottom retainer supplied as a stock 96" for non fire rated applications.





424 - Fire exit mullion. 2" x 3" steel tubing round corner, iron construction with iron top and bottom retainers. To be used with two rim type devices on two independent active doors with full double door openings.





Lockable and electric lockable mullions are available on request.

Additional Rods

Vertical rod for 10 feet high doors available on non fire rated vertical rod devices only. Use part # **VRRD-10.**

GLASS BEAD SHIM KITS

801 - For rim type, ⅛" thick
806 - For vertical type, ⅛" thick
812 - For firerated vertical type, ⅛" thick
When exit devices are used with shim kits with outside trim, spindle length thumbpiece and thru bolt length must be increased accordingly.

CYLINDER DOGGING KITS



Prefix "CD" before part#. Available for all 9800 Series devices except fire exit hardware. Cylinder dogging with a mortise cylinder is located on the mounting insert locks bolt in retracted position. 27" minimum door width is required.

To order kit only use part# 36CYLD9800 for 36"and 48CYLD9800 for 48" devices. Specify finish.

CAL-ROYAL
PRODUCTS, INC.

Fire Exit Hardware Selector

FIRE EXIT HARDWARE			UL FIRE DOOR RATING
APPLICATION	**MODEL NUMBER**	**MAXIMUM DOOR OPENING**	**(A) 3 HOUR**
SINGLE DOORS Rim type	F9800EO36 F9820EO48	4'0" X 8'0"	✓
PAIRS OF DOORS Two surface mounted standard vertical rod type or less bottom rod (LBR) application. Prefix **LBR** before Part# a) Swinging in same direction b) Swinging in opposite direction (double egress)	F9860V3684 X F9860V3684	8'0" X 7'2"	✓
	F9890V3696 X F9890V3696 F9880V4896 X F9880V4896	8'0" X 8'0"	✓
PAIRS OF DOORS Two rim type with Mullion	F9800EO36 F9820EO48	8'0" X 8'0"	✓

All fire rated exit devices in all applications, are also labeled for (B) 1½ hour, (C) ¾ hour, (D) 1 hour, (E) ¾ hour.
All fire exit hardware meet UL10C and UBC 7-2-1997 codes.

HOW TO ORDER INFORMATION

Exit device model number

Panic grade
9800 E036 Rim type 36" door
9820 E048 Rim type 48" door
9860 V3684 Vertical rod type 36" x 84"
9890 V3696 Vertical rod type 36" x 96"
9880 V4896 Vertical rod type 48" x 96"
9850 V36120 Vertical rod type 36" x 120"
9840 V48120 Vertical rod type 48" x 120"

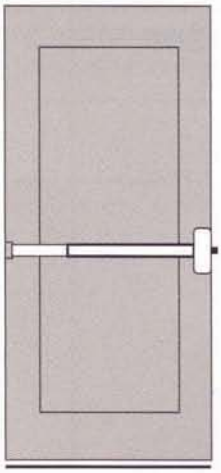
Fire grade
F9800 E036 Rim type 36" door
F9820 E048 Rim type 48" door
F9860 V3684 Vertical rod type 36" x 84"
F9890 V3696 Vertical rod type 36" x 96"
F9880 V4896 Vertical rod type 48" x 96"

1] Specify exit device model number according to size of door.
2] Specify trim selection. For interchangeable core prefix "IC" before part #. See page 3.
3] For vertical rod devices specify LHR (Left Hand Reverse) or RHR (Right Hand Reverse) for convenience easily field reversible, otherwise shipped as LHR.
4] Specify finish:
US3,4,9,10,10B,26,26D,32,32D. See Page 5.
5] On thru bolt applications, fire rated vertical rod devices are packed with thru bolts as standard feature. Thru bolts are also available for other devices. To order thru bolts add "SBN" to trim pack.
When ordering separately use following part#
Cal-Royal part # 357 —— Thru bolts for rim devices, 6 PCs / pack.
Cal-Royal part # 369 —— Thru bolts for vertical rod devices, 14 PCs / pack.
Cal-Royal part # 363 —— Thru bolts for rim devices, 6 PCs / pack for 2¼" thick doors.
Cal-Royal part # 375 —— Thru bolts for vertical rod devices, 14 PCs / pack for 2¼" thick doors.
Ordering example: 9800E036 ALUM X SBN X ENTOOL 26D
F9880V4896 DURO X ICSTRO5L 10B

9800 & F9800 Rim Type Panic And Fire Exit Devices
9860 & F9860 Vertical Rod Panic And Fire Exit Devices
ANSI A156.3 Grade 1

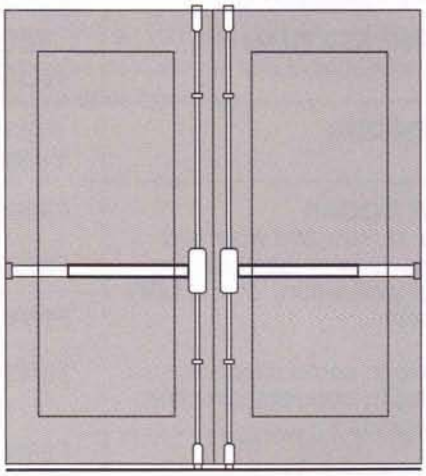
Selector Chart

SINGLE DOOR



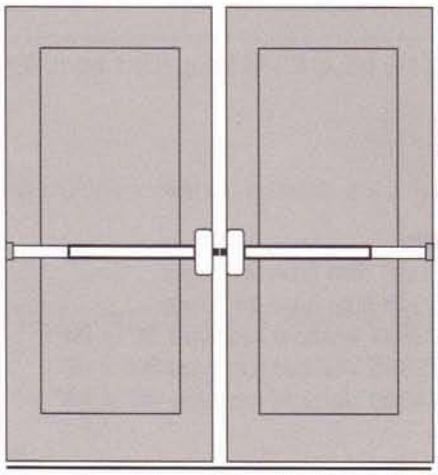
Vertical rod type or Rim type — Surface applied 2 point lock. Surface application.

PAIRS OF DOORS WITHOUT MULLION



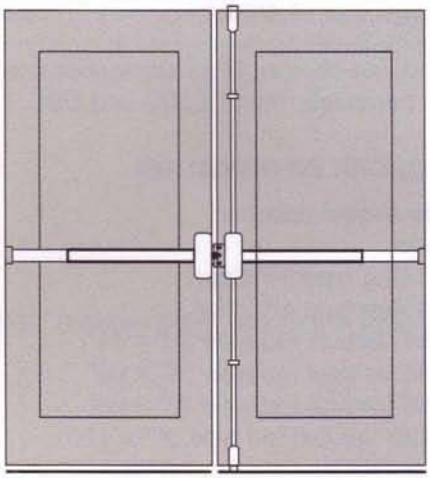
2 Vertical rod type — Surface applied 2 point locking both doors. Each door active same direction. Do not use with overlapping astragal.

PAIRS OF DOORS WITH MULLION



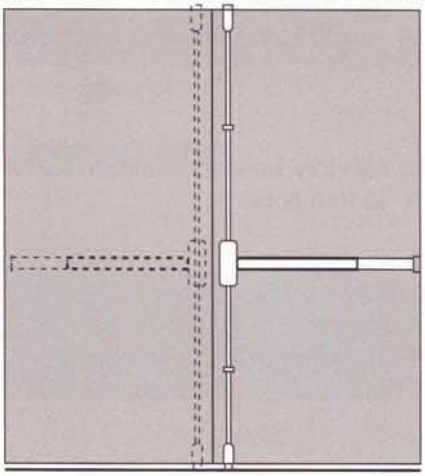
2 Rim type with mullion — Two independent active doors with full double door openings when required. Same direction.

PAIRS OF DOORS WITHOUT MULLION



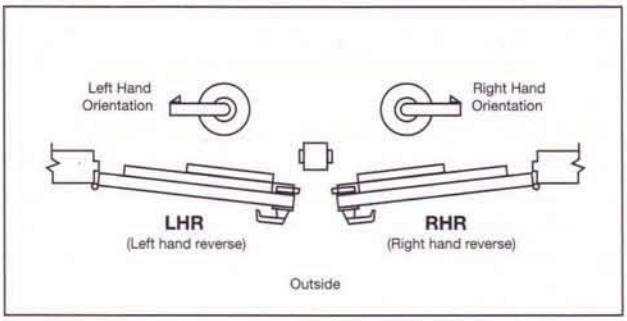
1 Vertical rod and 1 rim type — Both devices are surface applied. A coordinator and overlapping strike is recommended.

PAIRS OF DOORS WITHOUT MULLION



2 Vertical rod type — Double egress surface applied. 2 point locking both doors opposite directions.

HANDING



CAL-ROYAL PRODUCTS, INC.
6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com • Email: sales@cal-royal.com

CAL-ROYAL
PRODUCTS, INC.

Alarm Exit Hardware



(ELR) Electrical Latch Retraction

Available on rim, vertical rod, fire and non fire-rated devices,
See page 10 on 9800 Series exit devices.

Signal Switch RX and LX

RX (Request to exit), LX (Latch bolt monitoring signal switches are available. See page 11 on 9800 Series exit devices.

Power Supplies

Power suppies for electrified exit devices are available.
See page 11 on 9800 Series exit devices.

Rim Type Exit Devices

ALRM 2200 EO36	Alarm rim type 36" door (panic grade)
ALRM 2220 EO48	Alarm rim type 48" door (panic grade)
FALRM 2200 EO36	Alarm rim type 36" door (fire grade)
FALRM 2220 EO48	Alarm rim type 48" door (fire grade)

Vertical Rod Type Exit Devices

Prefix "Alrm" before part #.

Features

Alarm units has an internal horn. When the push rail is depressed, the horn sounds to provide an audible means of signaling that the door has been opened and violated.

The unit has changeable 2 minute alarm cutoff or manual reset. Preset at factory for 2 minute alarm cut off. Jumper cable is provided to swich to continuous alarm.

The key switch to turn the alarm off is a standard 1¼" cylinder with "C" keyway. The alarm operates on one standard 9 volt transistor battery. When battery is weak the horn will emit an intermittent signal.

Alarmed units are supplied with two switches. One switch monitors the push rail and the other switch monitors the latchbolt for full proof security.

Unit includes " emergency exit only. Alarm will sound " decal for application on door or unit.

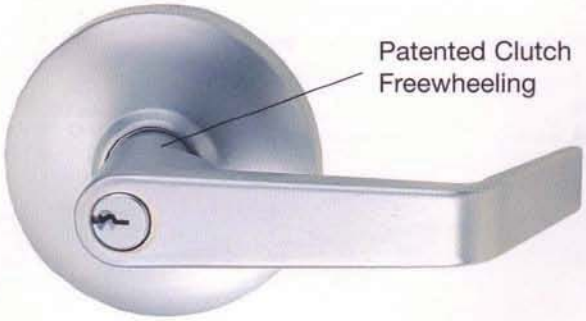
CAL-ROYAL
PRODUCTS, INC.

Trim Selection

LEVER DESIGN

Non handed Grade 1 (Clutch Style)
Cylindrical body hardened steel heavy duty tailpiece. For 1¾" and 2¼" doors. Prefix **THI** before part # for 2¼" door thickness. Available for fire and non fire rated rim and vertical rod exit devices.
Rose diameter 3½",lever length 4¾". Fits and covers 161 cutout.

Finishes: US26D, US10B, US3, US4.



ENT00L OR
ICENT00L
ENTRANCE
Key retracts latchbolt, unlocks lever. operates as classroom function.
ANSI Function - 08

STR05L OR
ICSTR05L
STOREROOM
Key operates lever, otherwise always locked.
ANSI function - 04

PAS30L
PASSAGE
Trim always operable and free.
ANSI function - 15

DUM40L
DUMMY
Dummy trim. One sided.
ANSI function - 10

When ordering "AT" and "SPA" designs, prefix design name before part #. Example: ENT00L in "AT" design is ATENT00L.

KEYWAY: Standard 6-pin "C" keyway. Also available in Schlage C-K, Russwin D1, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale GA, Yale 8, Kwikset. Can also accept Medeco, Assa, and Kaba high security cylinders.

INTERCHANGEABLE CORE
Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.

Other lever trim designs





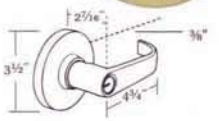
TUB DESIGN



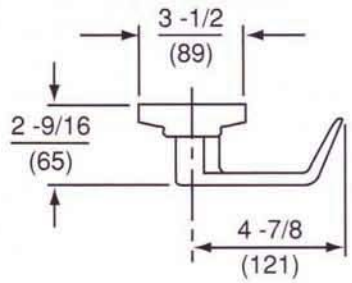


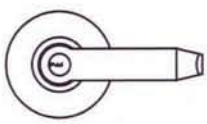
AT DESIGN





SPA DESIGN





CAL-ROYAL
PRODUCTS, INC.

Trim Selection

ESCUTCHEON LEVER DESIGN



CLUTCH FREEWHEELING

CONSTRUCTION
Grade 1, thrubolted design, clutch freewheeling. Non handed design. Easily field reversible.
Hardened steel heavy duty tailpiece. Available for fire and non fire rated rim and vertical rod exit devices.

FINISHES
Powder coated aluminum (alum)
Powder coated dark bronze duranodic (duro)
Powder coated gold

DOOR THICKNESS
Standard 1 ¾". For 2 ¼" thick door use additional part # tail 3.

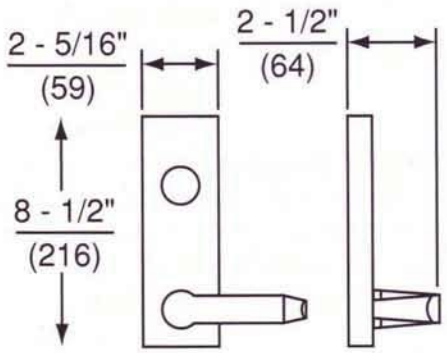
ESCUTCHEON DIMENSIONS
2 5/16" width X 8 ½" length. Lever length: 4 ¾". Fits and covers 2 ⅛" 161 cutout.

ESC2200 OR ICESC2200 — **ENTRANCE**
Key locks or unlocks lever.
operates as classroom function.
ANSI Function - 63

ESC2205 OR ICESC2205 — **STOREROOM**
Key retracts latchbolt, otherwise always locked.
ANSI function - 04

ESC2230 — **PASSAGE**
Trim always operable and free.
ANSI function - 62

ESC2240 — **DUMMY**
Dummy trim. One sided.
ANSI function - 10



KEYWAY: Standard 6-pin "C" keyway. Also available in Schlage C-K, Russwin D1, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale GA, Yale 8, Kwikset. Can also accept Medeco, Assa, and Kaba high security cylinders.

INTERCHANGEABLE CORE
Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.

CAL-ROYAL
PRODUCTS, INC.

Trim Selection

PULL DESIGN

2200 PUL NL OR
IC2200 PUL NL



FOR RIM DEVICES ONLY
Outside by pull and key.
Key retracts latchbolt.
ANSI function - 03
Covers 161 cutout.

2200 NL OR
IC2200NL



FOR RIM DEVICES ONLY
Outside by pull and key.
Key retracts latchbolt.
ANSI function - 03
Covers 161 cutout.

2200 DTP



Outside by pull only.
Pull when dogged.
ANSI function - 02
Covers 161 cutout.

2200 EOP



Outside by plate only.
ANSI function - 10
Covers 161 cutout.

8000/K ENTRANCE



Key retracts latchbolt, unlocks knob.
ANSI Function - 08

FINISHES
Powder coated aluminium (alum), dark bronze duranodic (duro), gold.

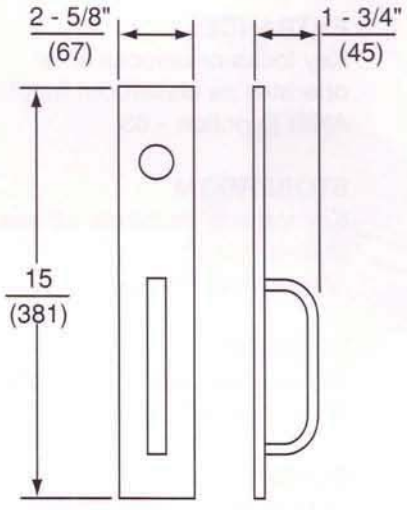
THUMBPIECE TRIM
(OPERATES ON RIM & VERTICAL ROD DEVICES)

THP00 OR
IC THP00
ENTRANCE
Key locks or unlocks thumbpiece.
ANSI Function - 63

THP05 OR
IC THP05
STOREROOM
Key retracts latchbolt, otherwise always locked.
ANSI function - 04

THP30
PASSAGE
Trim always operable and free.
ANSI function - 62

THP40
DUMMY
Dummy trim. One sided.
ANSI function - 10





KEYWAY: Standard 6-pin "C" keyway. Also available in Schlage C-K, Russwin D1, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale GA, Yale 8, Kwikset. Can also accept Medeco, Assa, and Kaba high security cylinders.

INTERCHANGEABLE CORE
Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.

FINISHES
Powder coated aluminum (alum), dark bronze duranodic (duro), gold.

DOOR THICKNESS
Standard 1¾". For 2 ¼" thick door use additional part # tail 7

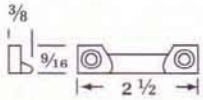
CAL-ROYAL
PRODUCTS, INC.

Strikes & Accessories

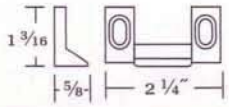
Strikes for use with 2260 vertical rod exit device

All strikes are black nylon coated

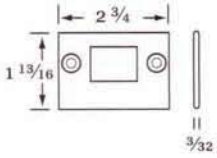
221
Standard for 2260.
Applied to surface of floor or to a flat threshold.
Standard packaging.



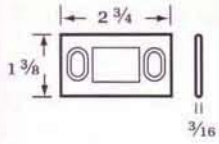
227
Applied to surface of stop.
No mortise required.
Standard packaging.



233
Bottom strike. Alternate bottom Strike. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor.

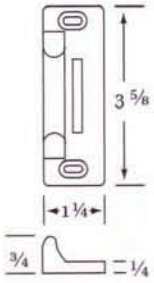


RIM 238
Strike for 2 3/8" Backset Application



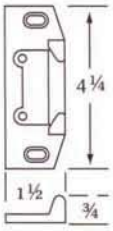
Strike for use with 2200 rim type exit device

239
For 2200 surface applied.
Standard packaging.

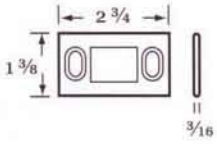


Strikes for use with F2260 vertical rod fire rated exit device

245
Surface applied for F2260.
Standard packaging.

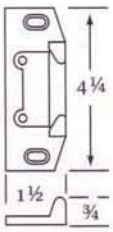


233
Bottom strike for F2260.
Flush mounting stainless steel.
Furnished with expansion shields.
Requires mortise in the floor.
Standard packaging.



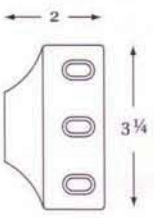
Strike for use with F2200 rim fire exit device

245
For F2200 surface applied,
Standard packaging.



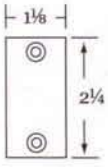
Overlapping Strike

251
Surface applied. Used on inactive leaf for device on active leaf of pair of doors without mullion.

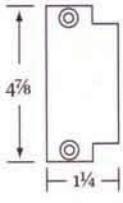


Additional strikes

LFF
Lock front filler.



SF
Strike filler.



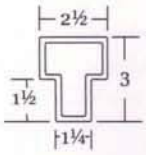
CAL-ROYAL
PRODUCTS, INC.

Accessories

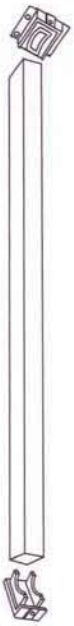
Mullions

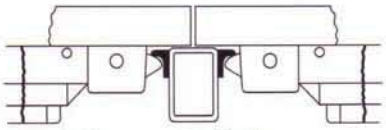
418 - Removable mullion Aluminum painted (Prime coat) includes top and bottom retainer supplied as a stock 96" for non fire rated applications.





424 - Fire exit mullion. 2" x 3" steel tubing round corner, iron construction with iron top and bottom retainers. To be used with two rim type devices on two independent active doors with full double door openings.





239 Strike 424 Mullion
4 5/8" Min. Stile.

Lockable and electric lockable mullions are available on request.

Additional Rods

Vertical rod for 10 feet high doors available on non fire rated vertical rod devices only. Use part # **VRRD-10.**

GLASS BEAD SHIM KITS

401 - For rim type, ⅛" thick
406 - For vertical type, ⅛" thick
412 - For firerated vertical type, ⅛" thick
When exit devices are used with shim kits with outside trim, spindle length thumbpiece and thru bolt length must be increased accordingly.

CYLINDER DOGGING KITS



Prefix "CD" before part#. Available for all 2200 Series devices except fire exit hardware. Cylinder dogging with a mortise cylinder is located on the mounting insert locks bolt in retracted position. 27" minimum door width is required.

To order kit only use part# 36CYLD2200 for 36"and 48CYLD2200 for 48" devices. Specify finish.

CAL-ROYAL
PRODUCTS, INC.

Fire Exit Hardware Selector

FIRE EXIT HARDWARE			UL FIRE DOOR RATING
APPLICATION	**MODEL NUMBER**	**MAXIMUM DOOR OPENING**	**(A) 3 HOUR**
SINGLE DOORS Rim type	F2200EO36 F2220EO48	4'0" X 8'0"	✓
PAIRS OF DOORS Two surface mounted standard vertical rod type or less bottom rod (LBR) application. Prefix **LBR** before Part# a) Swinging in same direction b) Swinging in opposite direction (double egress)	F2260V3684 X F2260V3684	8'0" X 7'2"	✓
	F2290V3696 X F2290V3696 F2280V4896 X F2280V4896	8'0" X 8'0"	✓
PAIRS OF DOORS Two rim type with Mullion	F2200EO36 F2220EO48	8'0" X 8'0"	✓

All fire rated exit devices in all applications, are also labeled for (B) 1½ hour, (C) ¾ hour, (D) 1 hour, (E) ¾ hour.
All fire exit hardware meet UL10C and UBC 7-2-1997 codes.

HOW TO ORDER INFORMATION

Exit device model number

Panic grade
2200 E036 Rim type 36" door
2220 E048 Rim type 48" door
2260 V3684 Vertical rod type 36" x 84"
2290 V3696 Vertical rod type 36" x 96"
2280 V4896 Vertical rod type 48" x 96"
2250 V36120 Vertical rod type 36" x 120"
2240 V48120 Vertical rod type 48" x 120"

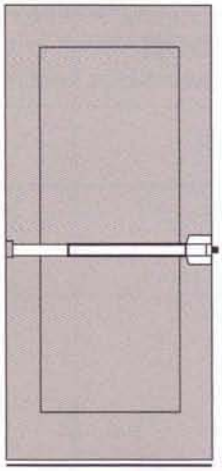
Fire grade
F2200 E036 Rim type 36" door
F2220 E048 Rim type 48" door
F2260 V3684 Vertical rod type 36" x 84"
F2290 V3696 Vertical rod type 36" x 96"
F2280 V4896 Vertical rod type 48" x 96"

1] Specify exit device model number according to size of door.
2] Specify trim selection. For interchangeable core prefix "IC" before part #. See page 3.
3] For vertical rod devices specify LHR (Left Hand Reverse) or RHR (Right Hand Reverse) for convenience easily field reversible, otherwise shipped as LHR.
4] Specify finish:
Alum - Powder coated to match US26D
Duro - Powder coated to match US10B
Gold - Powder coated to match US4, US3
5] On thru bolt applications, fire rated vertical rod devices are packed with thru bolts as standard feature. Thru bolts are also available for other devices. To order thru bolts add "SBN" to trim pack.
When ordering separately use following part#
Cal-Royal part # 357 —— Thru bolts for rim devices, 6 PCs / pack.
Cal-Royal part # 369 —— Thru bolts for vertical rod devices, 14 PCs / pack.
Cal-Royal part # 363 —— Thru bolts for rim devices, 6 PCs / pack for 2¼" thick doors.
Cal-Royal part # 375 —— Thru bolts for vertical rod devices, 14 PCs / pack for 2¼" thick doors.
Ordering example: 2200E036 ALUM X SBN X ENTOOL 26D
F2280V4896 DURO X ICSTRO5L 10B

2200 & F2200 Rim Type Panic And Fire Exit Devices
2260 & F2260 Vertical Rod Panic And Fire Exit Devices
ANSI A156.3 Grade 1

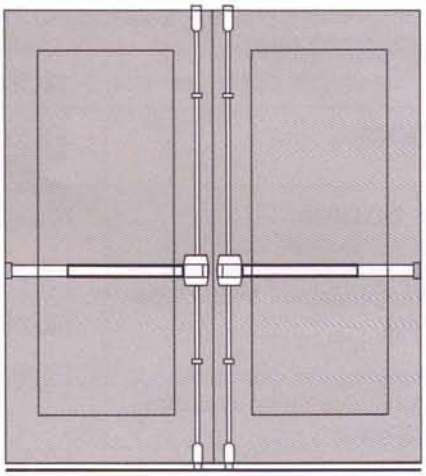
Selector Chart

SINGLE DOOR



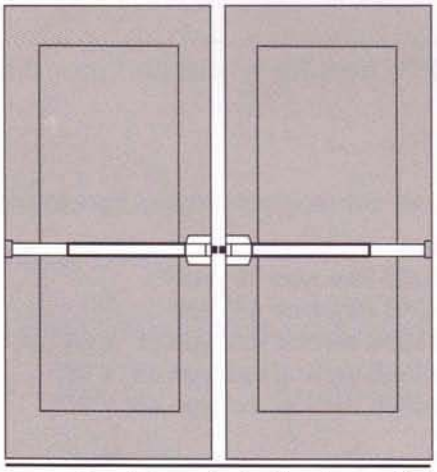
Vertical rod type or Rim type — Surface applied 2 point lock. Surface application.

PAIRS OF DOORS WIT OUT MULLION



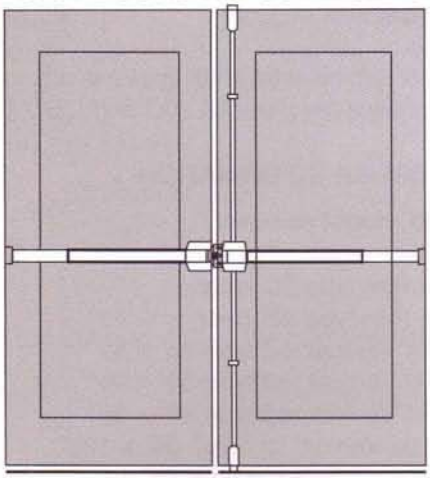
2 Vertical rod type — Surface applied 2 point locking both doors. Each door active same direction. Do not use with overlapping astragal.

PAIRS OF DOORS WIT MULLION



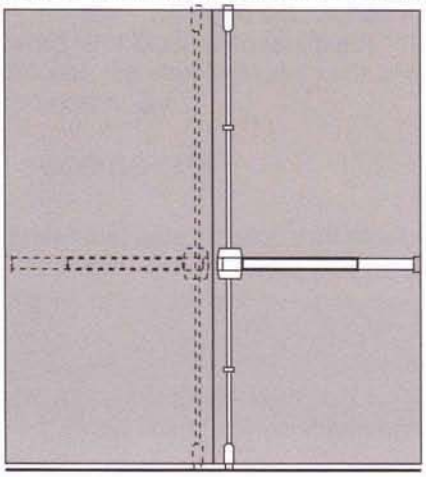
2 Rim type with mullion — Two independent active doors with full double door openings when required. Same direction.

PAIRS OF DOORS WIT OUT MULLION



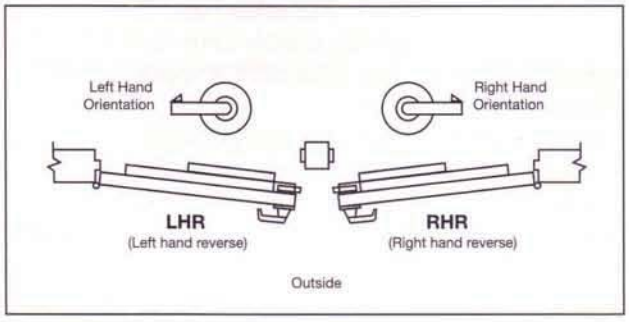
1 Vertical rod and 1 rim type — Both devices are surface applied. A coordinator and overlapping strike is recommended.

PAIRS OF DOORS WIT OUT MULLION



2 Vertical rod type — Double egress surface applied. 2 point locking both doors opposite directions.

ANDING



CAL-ROYAL PRODUCTS, INC.
6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com • Email: sales@cal-royal.com

CAL-ROYAL PRODUCTS, INC.

CAL-ROYAL

P R O D U C T S, I N C.

c UL us
3 HOUR FIRE RATED

5000 & F5000 Rim Type Panic And Fire Exit Devices
5000V & F5000V Vertical Rod Panic And Fire Exit Devices
ANSI A156.3, Grade 2



Features & Construction

- ANSI A156.3, Grade 2 heavy duty exit device in surface vertical rod and rim designs.
- UL Listed for Panic and UL10C, UBC 7-2-1997 codes.
- UL Listed for Fire Exit Hardware. **3 hours.**
- Conforms & Meets ADA Regulations.
- (A) label rating on pairs of doors up to 8'0"x8'0" swinging in same or opposite directions.
- Uncompromising security and safety in single and double fire exit doors.
- Chassis mounted unit construction.
- Available in standard functions. Lever and knob trims are grade 2 construction with optional clutch freewheeling mechanism. Rose covers 161 cut out.

Suggested Architect's Specifications

- All exit devices shall be of touch bar design with smooth operation and be operative over 2/3 of the door's clear opening width.
- All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC 7-2-1997 codes.
- All exit devices shall be of chassis mounted unit construction.

5000 & F5000 Series

Rim Type Exit Device

Specifications

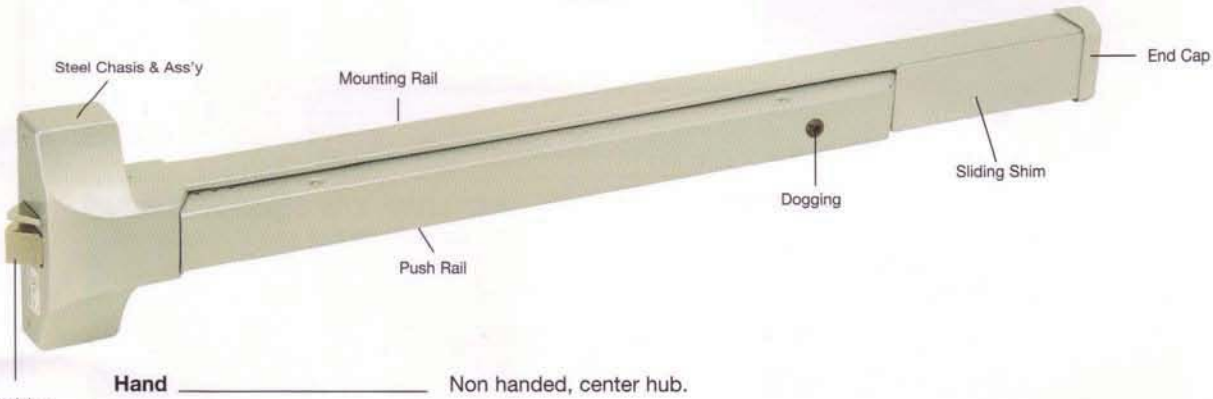
For Doors — 1¾" thick standard 4½" minimum stile width required for single or double door application using standard 239 strike and pull or lever trims.

Chassis — Steel (Panic Grade), steel (Fire Grade).

Cover — Covers stock hollow metal doors with 161 cutout.

Mounting — Furnished standard with wood and machine screws. Available with thru bolts on request. **Thru bolts are standard packaging on fire rated devices.**

End Cap — Steel construction.



Hand — Non handed, center hub.

Latch Bolt — Stainless steel ¾" throw.

Spring — Steel throughout.

ANSI Standard — A156.3, Grade 2.

Rail Assembly — Heavy gauge steel, painted.

Strike — 239 packed standard (See strike page).

Dogging Feature — Allen-type key furnished standard on non-fire labeled devices.

Mullion — Available.

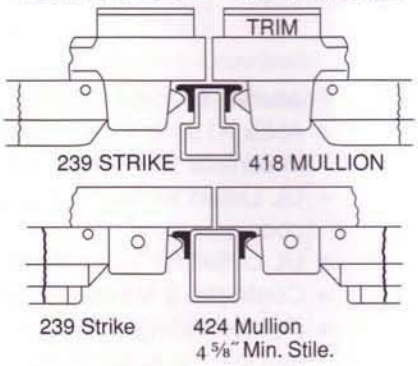
UL and ULC Listed — 5000 Series for panic. F5000 Series for fire exit hardware for all types of 3' x 7' single doors and 6' x 7' double doors for up to 3 hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes.

Finish — Aluminum (alum), US32D (Stainless Steel).

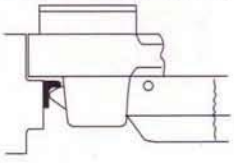
Door size — 5000E036 and F5000E036 for 36" doors.

Minimum Stile Requirements
4" escutcheon trims & 4½" for thumbpiece and rose trims

DOUBLE DOOR 4½" MIN. STILE



SINGLE DOOR 4½" MIN. STILE



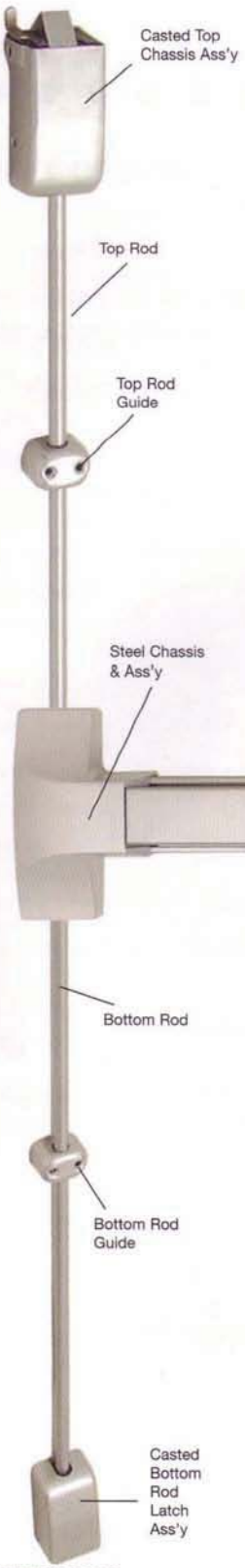
DIMENSIONS

Touchbar height to finished floor	41" (1043mm) at center
Touchbar projection	
neutral	2½" (64mm)
depressed	1¾" (45mm)
Center case	5⅛" x 2¾" x 2" (129mm x 69mm x 52mm)
Device length—Short 3' (914mm)	2'2" to 3' (840mm to 914mm) door size

5000V & F5000V Series

Vertical Rod Type Exit Device

CAL-ROYAL PRODUCTS, INC.



Specifications

For Doors — 1¾" thick standard. 3¾" minimum stile width required for single door application. 3½" minimum stile width required for double door application. Lever and not trims available.

Chassis — Steel (Panic Grade), steel (Fire Grade).

Cover — Covers stock hollow metal doors with 161 cutout.

Mounting — Furnished standard with wood and machine screws. **Thru bolts are standard packaging on fire rated devices.**



End Cap — Steel Construction.

Hand — Easily field reversible. Specify at time of order LHRB, RHRB for convenience.

Latch Bolt, Spring — Stainless steel.

ANSI Standard — A156.3, Grade 2.

Rail Assembly — Heavy gauge steel, painted.

Strike — See strike page.

Dogging Feature — Allen-type key furnished standard on non-fire labeled devices.

UL and ULC Listed — 5000V Series for panic. F5000V Series for fire exit hardware for all types of 6' x 7' double doors for up to 3 hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes.

Finish — Aluminum (alum), US32D Stainless Steel.

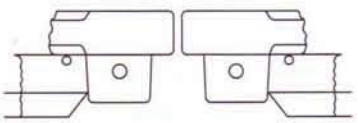
Door size — 5000 V 3684 and F5000V3684 for 36" x 84" doors.

DIMENSIONS

Touchbar height to finished floor	41" (1043mm) at center
Touchbar projection	
neutral	2½" (64mm)
depressed	1¾" (45mm)
Center case	5⅛" x 2¾" x 2" (129mm x 69mm x 52mm)
Device length—Short 3' (914mm)	2'2" to 3' (840mm to 914mm) door size
Panic grade top & bottom latch case	3 15/16" x 2⅛" x 1⅜" (100mm x 52mm x 42mm)
Fire grade top latch case	3 15/16" x 2 11/16" x 2 1/16" (100mm x 68mm x 53mm)
Fire grade bottom latch case	3 15/16" x 2⅛" x 1⅜" (100mm x 52mm x 42mm)
Top and bottom rod length for 36" x 84" doors	Top rod 43¼"(1100mm), bottom rod 37 ¾" (960mm)
Vertical rods	½" (13mm) Round tubing

Minimum Stile Requirements

Double Door-With Two Vertical Rod Type Exit Devices



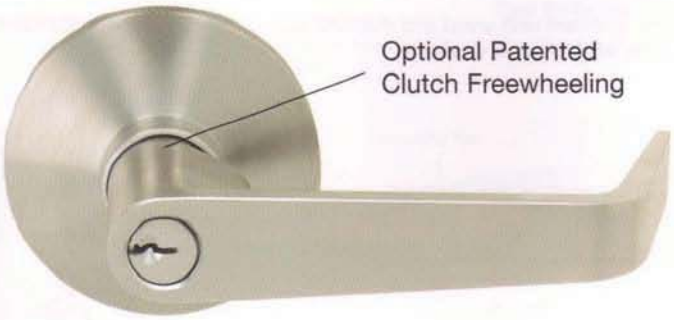
3 ½" Min. Stile

Trim Selection

LEVER DESIGN

Non handed Grade 2 (Optional Clutch)
Tubular body hardened steel heavy duty tailpiece.
For 1¾" doors. Available for fire and non fire rated rim and vertical rod exit devices.
Rose diameter 3",lever length 4¾". Fits and covers 161 cutout.

Finishes: US26D



8000/L **ENTRANCE**
Key retracts latchbolt,
operates as classroom function.
unlocks lever.
ANSI Function - 08

CLU5000 L **CLUTCH FREE WHEELING (ENTRANCE)**
Key operates latchbolt,
unlocks lever .
ANSI function - 08

8000/S **STOREROOM**
Key operates lever, otherwise always locked.
ANSI function - 04

8000/PAS **PASSAGE**
Lever always operable and free.
ANSI function - 15

8000/DUM **DUMMY**
Dummy trim. One sided.
ANSI function - 10

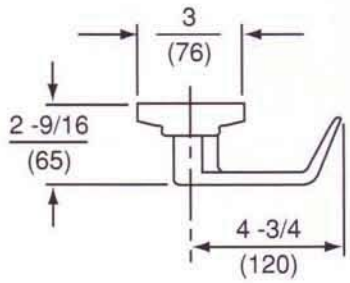
KNOB DESIGN

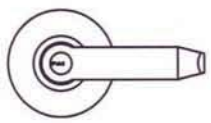
Non handed Grade 2
Tubular body hardened steel heavy duty tailpiece.
For 1¾" doors. Available for fire and non fire rated rim and vertical rod exit devices.
Rose diameter 3". Fits and covers 161 cutout.

Finishes: US32D



8000/K **ENTRANCE**
Key retracts latchbolt,
unlocks knob.
ANSI Function - 08





KEYWAY: Standard 6-pin "C" keyway. Also available in Schlage C-K, Russwin D1, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale GA, Yale 8, Kwikset. Can also accept Medeco, Assa, and Kaba high security cylinders.

Trim Selection

PULL DESIGN

5000 NL



FOR RIM DEVICES ONLY

Outside by pull and key.
Key retracts latchbolt.
ANSI function - 03
Covers 161 cutout.

5000 DTP



Outside by pull only.
Pull when dogged.
ANSI function - 02
Covers 161 cutout.

5000 EOP



Outside by plate only.
ANSI function - 10
Covers 161 cutout.

FINISHES

Powder coated aluminium (alum).

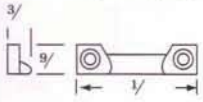
Strikes & Accessories

Strikes for use with 5000V vertical rod exit device

All strikes are black nylon coated

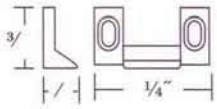
221

Standard for 5000V.
Applied to surface of floor or to a flat threshold.
Standard packaging.



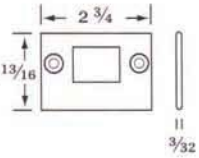
227

Applied to surface of stop.
No mortise required.
Standard packaging.



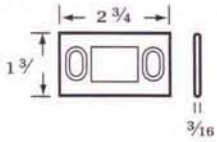
233

Bottom strike. Alternate bottom Strike. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor.



RIM 238

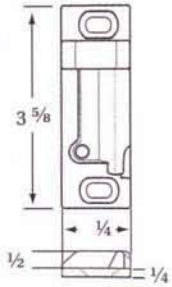
Strike for ⅜" Backset Application



Strike for use with 5000 rim type exit device

240

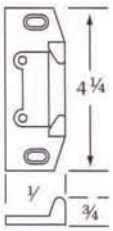
For 5000 surface applied. Standard packaging.



Strikes for use with F5000V vertical rod fire rated exit device

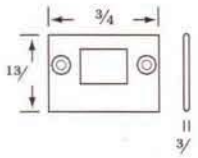
245

Surface applied for F5000V.
Standard packaging.



233

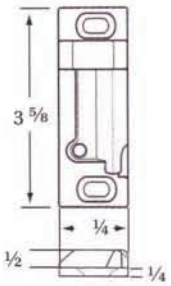
Bottom strike for F5000V.
Flush mounting stainless steel.
Furnished with expansion shields.
Requires mortise in the floor.
Standard packaging.



Strike for use with F5000 rim fire exit device

240

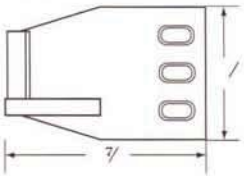
For F5000 surface applied, Standard packaging.



Overlapping Strike

254

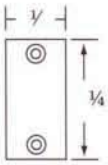
Surface applied. Used on inactive leaf for device on active leaf of pair of doors without mullion.



Additional strikes

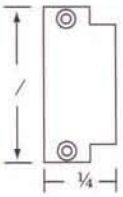
LFF

Lock front filler.



SF

Strike filler.



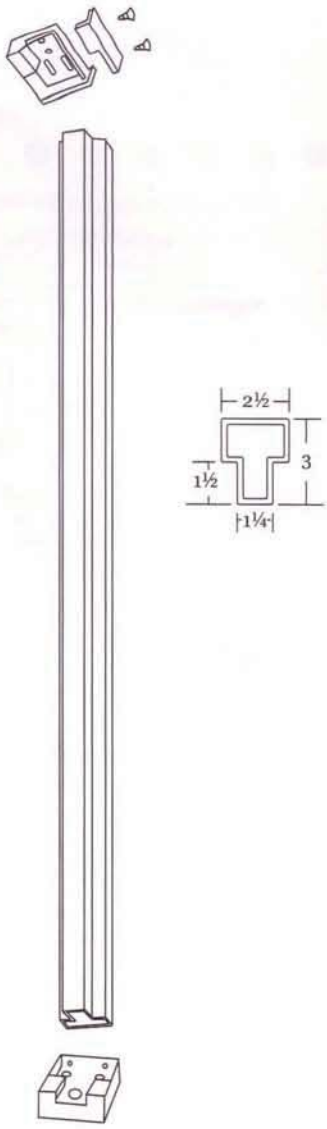
CAL-ROYAL
PRODUCTS, INC.

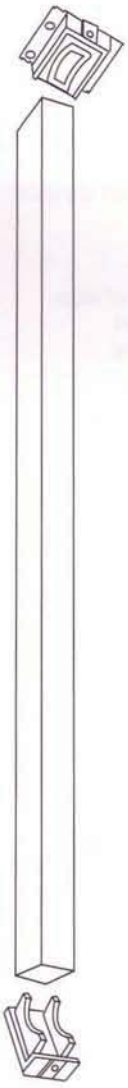
Accessories

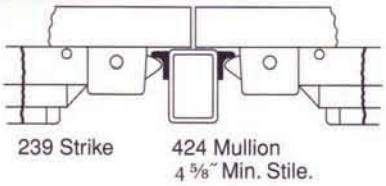
Mullions

418 - Removable mullion Aluminum painted (Prime coat) includes top and bottom retainer supplied as a stock 96" for non fire rated applications.

424 - Fire exit mullion. 2" x 3" steel tubing round corner, iron construction with iron top and bottom retainers. To be used with two rim type devices on two independent active doors with full double door openings.







Lockable and electric lockable mullions are available on request.

CAL-ROYAL
PRODUCTS, INC.

Fire Exit Hardware Selector

FIRE EXIT HARDWARE			UL FIRE DOOR RATING
APPLICATION	**MODEL NUMBER**	**MAXIMUM DOOR OPENING**	**(A) 3 HOUR**
SINGLE DOORS Rim type	F5000EO36	3'0" X 7'0"	✓
PAIRS OF DOORS Two surface mounted standard vertical rod type	F5000V3684 X F5000V3684	6'0" X 7'2"	✓
a) Swinging in same direction b) Swinging in opposite direction (double egress)	F5000V3684 X F5000V3684	6'0" X 7'2"	✓
PAIRS OF DOORS Two rim type with Mullion	F5000EO36	6'0" X 7'2"	✓

All fire rated exit devices in all applications, are also labeled for (B) 1½ hour, (C) ¾ hour, (D) 1 hour, (E) ¾ hour.
All fire exit hardware meet UL10C and UBC 7-2-1997 codes.

HOW TO ORDER INFORMATION

Exit device model number

Panic grade
5000 E036 Rim type 36" door
5000 V3684 Vertical rod type 36" x 84"

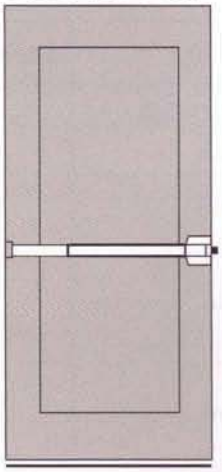
Fire grade
F5000 E036 Rim type 36" door
F5000 V3684 Vertical rod type 36" x 84"

1] Specify exit device model number according to size of door.
2] Specify trim selection.
3] For vertical rod devices specify LHR (Left Hand Reverse) or RHR (Right Hand Reverse) for convenience easily field reversible, otherwise shipped as LHR.
4] Specify finish:
Alum - Powder coated to match US26D
US32D Stainless Steel
5] On thru bolt applications, fire rated vertical rod devices are packed with thru bolts as standard feature. Thru bolts are also available for other devices. To order thru bolts add "SBN" to trim pack.
When ordering separately use following part#
Cal-Royal part # 357 —— Thru bolts for rim devices, 6 PCs / pack.
Cal-Royal part # 369 —— Thru bolts for vertical rod devices, 14 PCs / pack.
Ordering example: 5000E036 ALUM X 8000L 26D
5000V 3684 32D X CLU5000L 26D

5000 & F5000 Rim Type Panic And Fire Exit Devices
5000V & F5000 Vertical Rod Panic And Fire Exit Devices
ANSI A156.3 Grade 2

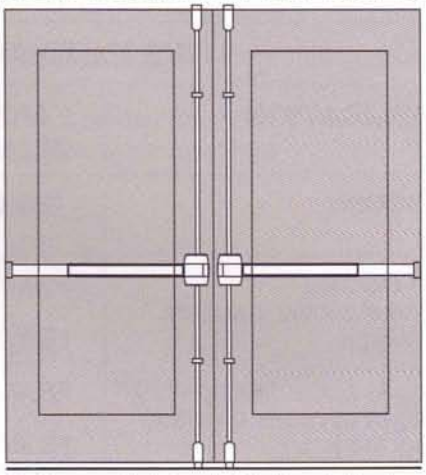
Selector Chart

SINGLE DOOR



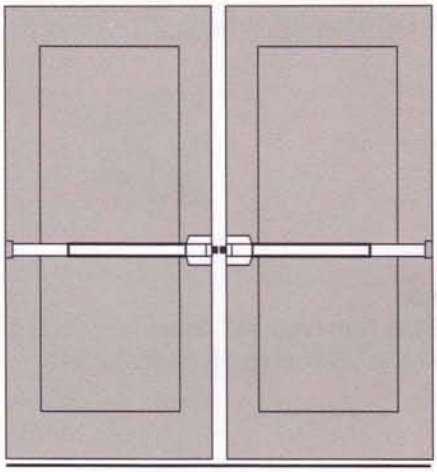
Vertical rod type or Rim type — Surface applied 2 point lock. Surface application.

PAIRS OF DOORS WIT OUT MULLION



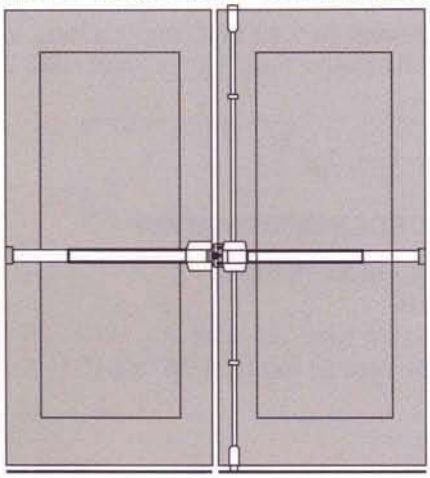
2 Vertical rod type — Surface applied 2 point locking both doors. Each door active same direction. Do not use with overlapping astragal.

PAIRS OF DOORS WIT MULLION



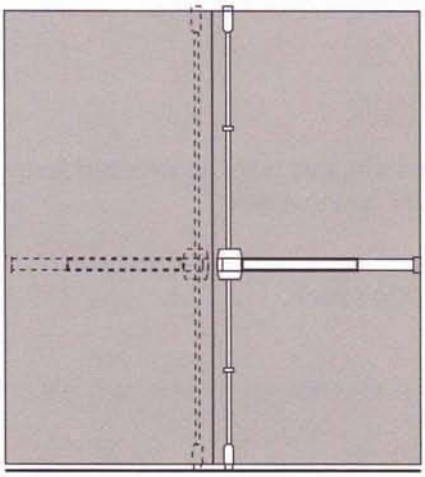
2 Rim type with mullion — Two independent active doors with full double door openings when required. Same direction.

PAIRS OF DOORS WIT OUT MULLION



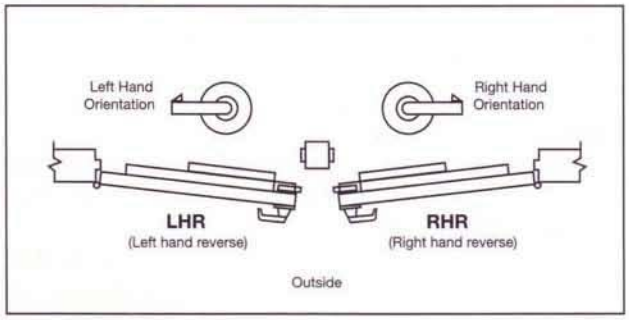
1 Vertical rod and 1 rim type — Both devices are surface applied. A coordinator and overlapping strike is recommended.

PAIRS OF DOORS WIT OUT MULLION



2 Vertical rod type — Double egress surface applied. 2 point locking both doors opposite directions.

ANDING



CAL-ROYAL PRODUCTS, INC.
6605 FLOTILLA ST, COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com • Email: sales@cal-royal.com

4400 Series

CAL-ROYAL PRODUCTS, INC.

Rim Type Exit Device

Specifications

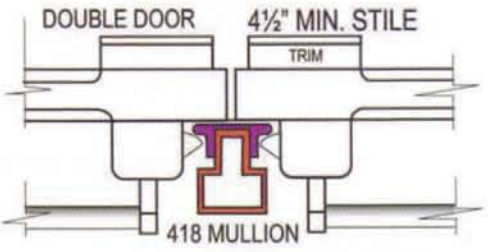
For Doors	1 3/4" thick standard. 4 1/2" minimum stile width required for single or double door application.
Chassis	Nonferrous alloy. (Panic Grade)
Cover	Nonferrous alloy. Covers stock hollow metal doors with 161 cutout.
Mounting	Furnished standard with wood and machine screws. Available with thru bolts on request.

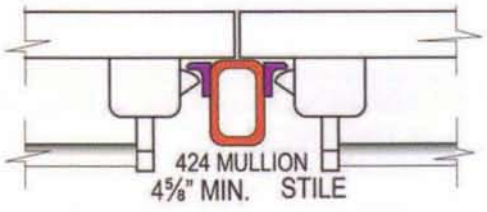


UL®

Safety and Panic

Minimum Stile Requirements
4" escutcheon trims & 4 1/2" for thumbpiece and escutcheon trims

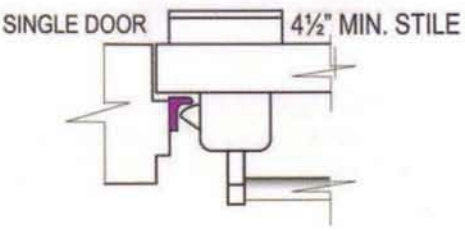




Hand	Non handed, center hub for 2 3/4" or 2 3/8" backset.
Latch Bolt	3/4" throw.
Spring	Stainless steel.
ANSI Standard	A156.3, Grade 2.
Crossbar	1" aluminum, 0.062" thick for 36" or 48" wide doors.
Strike	Roller type.
Dogging Feature	Allen-type key furnished standard.
Mullion	Available.
UL and ULC Listed	4400 Series for panic.
Finish	US26D Satin chrome, dark bronze duranodic (duro).
Door Size	4400EO36 for 36" doors. 4400EO48 for 48" doors.

DIMENSIONS

Touchbar height to finished floor	41" (1034mm) at center
Touchbar projection	
neutral	4 3/4" (121mm)
depressed	3" (76mm)
Center case	5 1/8" X 2 3/4"X 2"(130mm x 70mm x 51mm)
Device length -- Short 3' (914mm)	1' to 3' (305mm to 914mm) door size
-- Long 4' (1219mm)	1' to 4' (305mm to 1219mm)



Trim Selection

CAL-ROYAL PRODUCTS, INC.

ESCUTCHEON LEVER DESIGN

ESC4400 or ICESC4400 — **ENTRANCE**
Rigid, non clutch mechanism
Key locks or unlocks lever.
(Operates as classroom function)
ANSI Function – 63

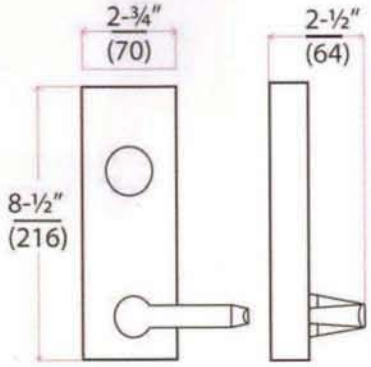
ESC4430 — **PASSAGE**
Trim always operable and free.
ANSI Function – 04

ESC4440 — **DUMMY**
Trim always operable and free.
ANSI Function – 04



ESCUTCHEON DIMENSIONS

2 3/4" width X 8 1/2" length. Lever length: 4 3/4".
Fits and covers 2 1/8" 161 cutout.



CONSTRUCTION

Thrubolted design, rigid design. Non-handed design. Easily field reversible. Hardened steel heavy duty tailpiece.

THUMBPIECE TRIM

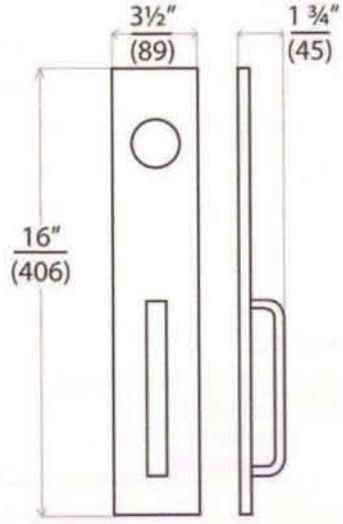
THP4400 or ICTHP4400 — **ENTRANCE**
Key locks or unlocks lever.
(Operates as classroom function)
ANSI Function – 63

THP4430 — **PASSAGE**
Trim always operable and free.
ANSI Function – 04



THUMBPIECE DIMENSIONS

3 1/2" width X 16" length



❖ ESCUTCHEON AND THUMBPIECE ❖

DOOR THICKNESS

Standard 1 3/4".

FINISHES

Satin Chrome (US26D), Duro.

INTERCHANGEABLE CORE

Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.

CAL-ROYAL
PRODUCTS, INC.

MAGNETIC DOOR HOLDERS
COORDINATORS AUTO FLUSH BOLTS

MAGNETIC DOOR HOLDER

Series

CAL-ROYAL PRODUCTS, INC.

Features

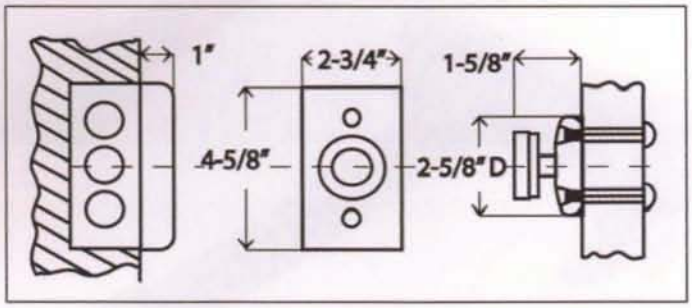
- Tri-voltage (can be wired 12V DC, 24V AC/DC or 120V AC)
- Can be used on fire or smoke barrier doors held open until released by a remote switching device
- Used alternatively as hold open system
- Thru-bolted armature for security
- 30-45 pound holding power
- Underwriters US and Canada Listed
- ANSI/BHMA 156.14
- Available in US28 (brushed aluminum), Duro and Gold Finishes

MDHR-1
RECESSED WALL MOUNT

PACKED WITH 1" EXTENSION BOLT

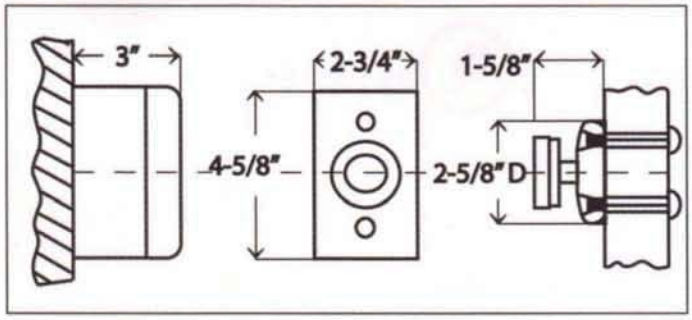






MDHS-2
SURFACE WALL MOUNT





PERFORMANCE DATA			
MODEL	**VOLTS**	**mAmps**	**VA**
MDHR-1	12 DC	60	72
MDHS-2			

CROSS REFERENCE

FUNCTION	CAL-ROYAL	ABH	DORMA	RIXSON	NORTON	YALE	SARGENT	CORBIN RUSSWIN	LCN
RECESSED WALL MOUNTED 3-5/8" TOTAL PROJECTION	MDHR-1	2100* w/ 1" extension	EM-F24120	FM-998	6933	5933	1560	MA 204 MA 244	SEM 7850
RECESSED WALL MOUNTED 2-5/8" TOTAL PROJECTION	MDHR-1	2100	EM-F24120	FM-997	6934	5934	1560	MA 203 MA 243	SEM 7840
SURFACE WALL MOUNTED 4-5/8" TOTAL PROJECTION	MDHS-2	2300	EM-S24120	FM-996 FM-999	6935	5935	-	-	SEM 7830

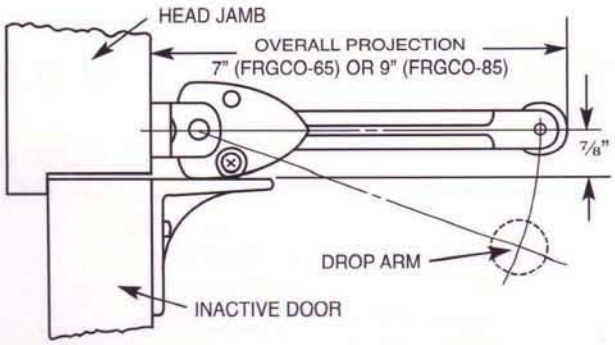
CAL-ROYAL
PRODUCTS, INC.

FRGCO-65, FRGCO-85

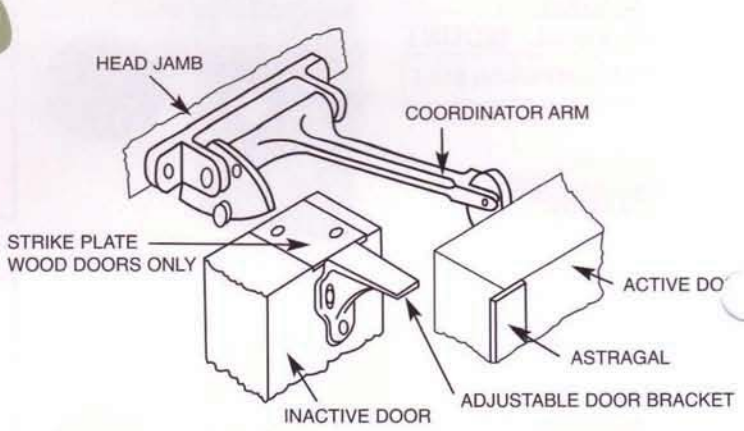
DOOR COORDINATORS



c UL us LISTED



Door bracket adjustable for ease of installation.
Rubber roller provides efficient, quiet operation.
Solid forged brass construction carry bar also available for use with coordinator to push active door open when inactive door is open first. Helps prevent damage to astragal or other hardware.



NON-HANDED - REVERSIBLE

FRGCO-65, FRGCO-85: BHMA 4.1.1 TYPE 21; ANSI 156.3

FRGCO-65 AND **FRGCO-85** coordinators are made for use on pairs of doors with or without an astragal.Roller arm (**FRGCO-65—7"** projection), (**FRGCO-85—9"**) stops active door from closing before the inactive door.

Gravity action arm and door bracket are adjustable on the job for ease of installation. It features a nylon roller to enable the inactive door to easily operate the coordinating device.

The solid brass device is field reversible and supplied with all necessary fasteners and installation instructions.

The base material are made of forged brass and are available in US26D, 10B, 3, 4, 10 and 26 finishes.

CB01 carry bar is used for situations when the inactive door can be opened first.

Using door sizes and astragal locations, select Coordinator from selection chart.

COORDINATOR SELECTION CHART

FRGCO-65—7" projection

- Use on pairs of doors with astragal on active door up to 4'
- With astragal on inactive up to 3' 4"
- With astragals on both doors up to 2' 10"

FRGCO-85—9" projection

- Use on pairs of doors with astragal on active door over 4'
- With astragal on inactive over 3' 4"
- With astragals on both doors over 2' 10"

WOOD DOOR
2 - #10 x 1" PH OH sms Coordinator
2 - #10 - 24 x 1" PH FH ms Coordinator
3 - #8 x 1" PH FH sms Door Brackets
2 - #8 x PH FH sms Roller Strike

METAL DOOR
2 - #10 x 1" PH OH sms Coordinator
2 - #10 - 24 x 1" PH FH ms Coordinator
3 - #8 x 1" PH FH sms Door Brackets
2 - #8 x PH FH sms Roller Strike

CAL-ROYAL PRODUCTS, INC.
Tel: 800-876-9258 / Fax: 800-22-3316

DOOR COORDINATOR

CAL-ROYAL PRODUCTS, INC.

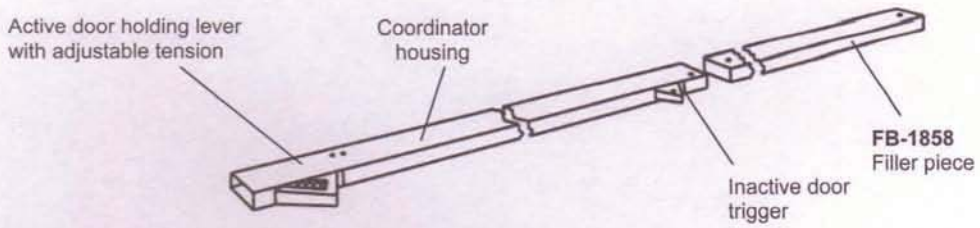
For Fire Labeled Doors

ITEM# DORCO-1

SPECIFICATION

Non-handed, automatic coordinating device for sequential closing of paired doors with or without astragal. For use with frame openings 60", 72" or 84". Specify width when ordering.

- MATERIAL: All metal construction
- FINISH: Black prime coat
- PACKAGING: Packed with 18-5/8" filler piece for up to 72" door width. FB-3258 filler bar must be ordered for 84" door width opening.

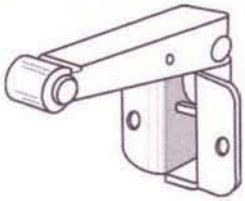


❖ADDITIONAL PARTS

ITEM# CBCO-1

Carry bar for DORCO-1 coordinator.
For use on pair of doors with astragal.

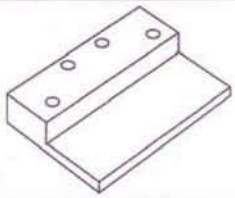
- SIZE: 1¾" x 2¼" plate
- FINISH: Black prime coat



ITEM# MB-4250

Mounting brackets for DORCO-1 coordinator.

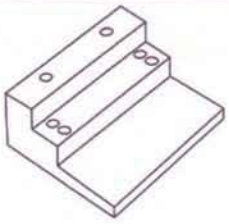
- SIZE: 4¼" Jamb depth, 5/8" stop height, for stop width 2¼" and over.



ITEM# MB-4750

Mounting brackets for DORCO-1 coordinator.

- SIZE: 4¾" Jamb depth, 5/8" stop height, For stop width 7/8" to 2¼" and over.



CAL-ROYAL
PRODUCTS, INC.

AUTOMATIC FLUSHBOLTS

BHMA 4.4 TYPE 25, ANSI 156.3

METAL DOORS

c UL us

3 HOUR FIRE RATED

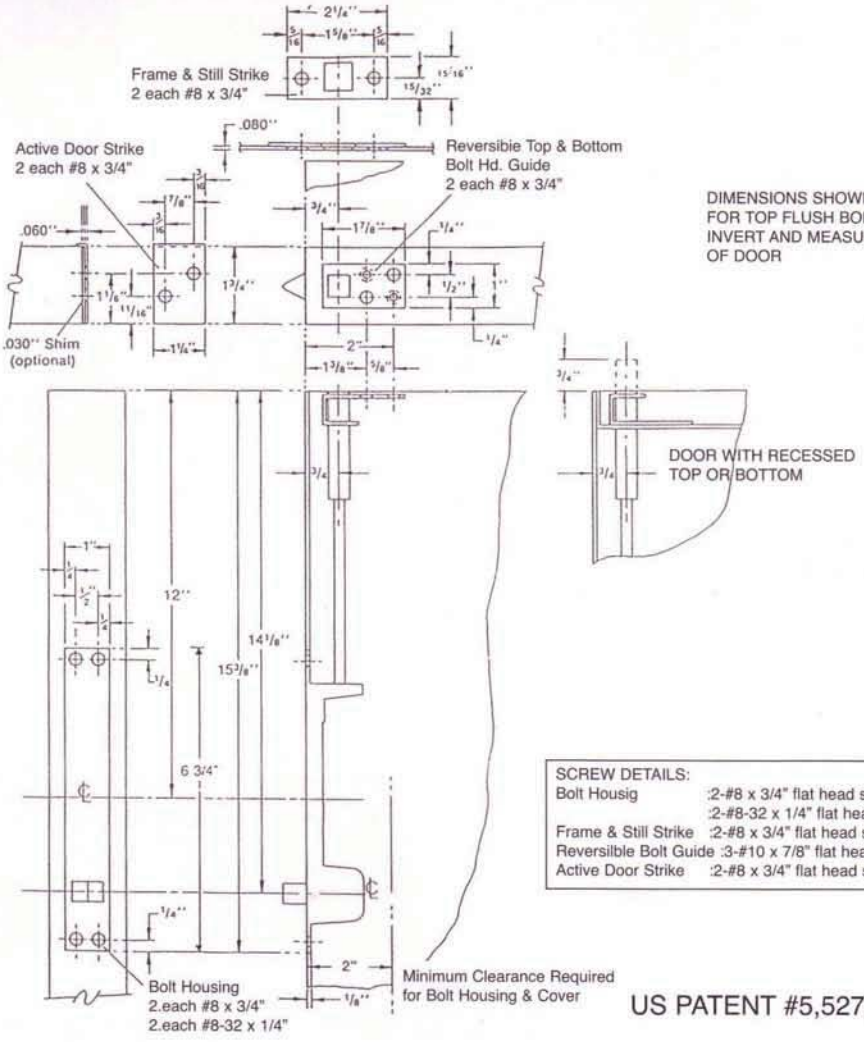
FEATURES AND CONSTRUCTION

AUTOFLM-1 (For metal doors)

- Fits standard and ANSI preparation for metal doors.
- UL Listed for (A,B,C,D, and E Lable) metal fire doors, maximum8 feet in height. Conforms to UL10C and UBC 7-2-1997.
- Steel body with stainless steel components, specially designed thermal lock automatically locks inactive door in case of fire.
- Fully automatic, when active door is opened top and bottom bolts are automatically retracted for easy agress. when active door is closed 3/4" bolt projects into the frame, securing latching of the inactive leaf.
- Reversible, non handed.
- Override feature, prevents damage to doors of frame in case the strike and bolt are not aligned.
- Smooth easy action, requires only 5 Lbs of force to actuate cam and piston mechanism, therefore meeting ADA regulations.
- Bolts have a 1" vertical adjustment without removing door from frame for unusual conditions.
- Stock finishes: US26D, US10B, US3, US4, US26. Other finishes available on request. Packed 2 bolts per box with complete installation template.



AUTOFLM-1



DIMENSIONS SHOWN ON THIS TEMPLATE ARE FOR TOP FLUSH BOLTS. FOR BOTTOM BOLTS INVERT AND MEASURE FROM BOTTOM EDGE OF DOOR

SCREW DETAILS:	
Bolt Housig	:2-#8 x 3/4" flat head sheet metal/machine screws
	:2-#8-32 x 1/4" flat head sheet metal screws
Frame & Still Strike	:2-#8 x 3/4" flat head sheet metal/machine screws
Reversilble Bolt Guide	:3-#10 x 7/8" flat head sheet metal/machine screws
Active Door Strike	:2-#8 x 3/4" flat head sheet metal/machine screws

US PATENT #5,527,074

CAL-ROYAL
PRODUCTS, INC.

AUTOMATIC FLUSHBOLTS

BHMA 4.4 TYPE 25, ANSI 156.3

FEATURES AND CONSTRUCTION

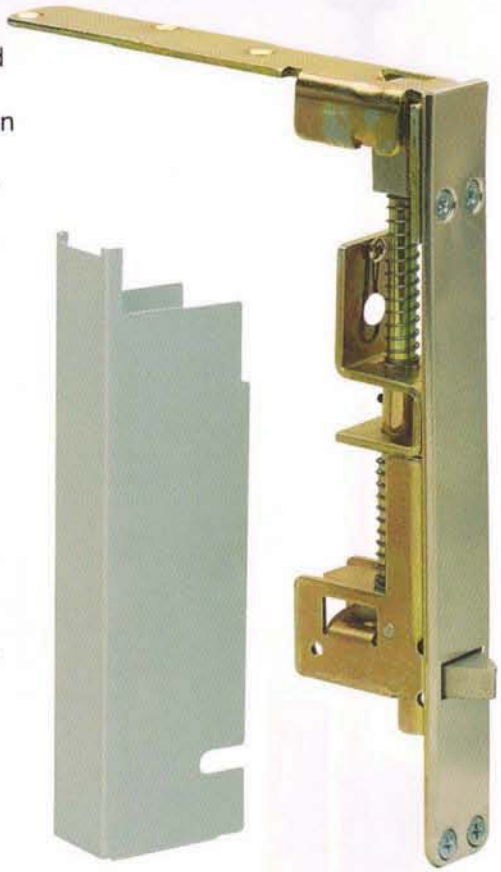
AUTOFLM-22 (For wood doors)

- Fits standard and ANSI preparation for wood doors.
- UL Listed for (B,C,D, and E Lable) wood composite core fire doors, maximum 8 feet in height. Conforms to UL10C and UBC 7-2-1997.
- Steel body with stainless steel components, specially designed thermal lock automatically locks inactive door in case of fire.
- Fully automatic, when active door is opened top and bottom bolts are automatically retracted for easy agress. when active door is closed 3/4" bolt projects into the frame, securing latching of the inactive leaf.
- Reversible, non handed.
- Override feature, prevents damage to doors of frame in case the strike and bolt are not aligned.
- Smooth easy action, requires only 5 Lbs of force to actuate cam and piston mechanism, therefore meeting ADA regulations.
- Bolts have a 3/4" vertical adjustment without removing door from frame for unusual conditions.
- Stock finishes: US26D, US10B, US3, US4, US26. Other finishes available on request. Packed 2 bolts per box with complete installation template.

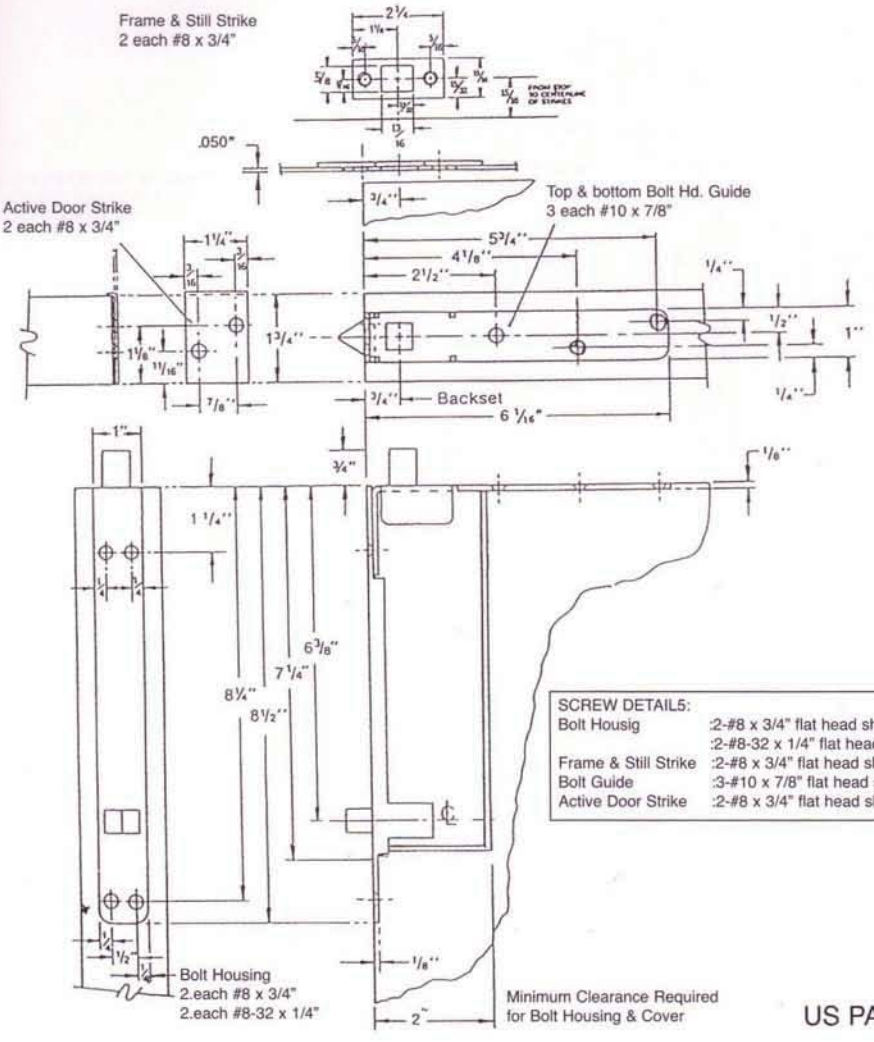
c UL us

3 HOUR FIRE RATED

WOOD DOORS



AUTOFLW-22



SCREW DETAIL5:	
Bolt Housig	:2-#8 x 3/4" flat head sheet metal/machine screws
	:2-#8-32 x 1/4" flat head sheet metal screws
Frame & Still Strike	:2-#8 x 3/4" flat head sheet metal/machine screws
Bolt Guide	:3-#10 x 7/8" flat head sheet metal/machine screws
Active Door Strike	:2-#8 x 3/4" flat head sheet metal/machine screws

DIMENSIONS SHOWN ON THIS TEMPLATE ARE FOR TOP FLUSH BOLTS. FOR BOTTOM BOLTS INVERT AND MEASURE FROM BOTTOM EDGE OF DOOR

US PATENT #5, 527, 074


CAL-ROYAL
PRODUCTS, INC.

CAL-ROYAL
PRODUCTS, INC.

AMERICANS WITH DISABILITIES ACT(ADA) RESTROOM SIGNS

COMPLIES TO EXTERIOR AND INTERIOR ACCESS ACCESSIBLE RESTROOMS AND INTERNATIONAL SYMBOL OF SIGNS.



WHS-5 12" Circle



MHS-6 12" Triangle



UHS-7 Unisex



WHS-5A



MHS-6A



UCHS-10

- RAISED LETTERS AND SYMBOLS.
- **BRAILLED FOR THE BLIND.**
- AVAILABLE IN BLUE OR BLACK.
- DOUBLE FACED TAPE FOR EASY INSTALLATION.
- INDIVIDUALLY POLLY BAGED.
- PACKED 10 PIECES PER INNER BOX, 50 PIECES PER MASTER CARTON.

OTHER SIGNS

THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS

WDC-13 White on Black-Decal 1 1/2"X 24" • BDC-12 Black on Clear-Decal 1 1/2" X 24"

THESE DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS

TDUW-8 White on Black-Decal 1 1/2"X 24" • TDUB-1 Black on Clear-Decal 1 1/2" X 24"

THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED

WDO-11 White on Black-Decal 1 1/2"X 27 1/2" • BDO-5 Black on Clear-Decal 1 1/2" X 27 1/2"

THESE DOORS TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED

TWOC-14 White on Black-Decal 1 1/2"X 27 1/2" • TBOC-19 Black on Clear-Decal 1 1/2" X 27 1/2"

PACKAGING : SUBJECT TO CUSTOMER REQUEST



CHS-9
BLUE PLASTIC HANDICAP SIGN WITH DOUBLE FACED TAPE 8" X 8".



HI-11
INSIGNIA HANDICAP WHITE ON BLUE DECAL 4" X 4".

CAL-ROYAL
PRODUCTS, INC.
6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
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CAL-ROYAL
PRODUCTS, INC.

AMERICAN WITH DISABILITIES ACT(ADA) RESTROOM SIGNS



M68
6"X8"



W68
6"X8"



RS68
6"X8"



NS68
6"X8"



MH68
6"X8"



WH68
6"X8"



RSH68
6"X8"



EX66
6"X6"



M1346
1¾"X6"



W1346
1¾"X6"

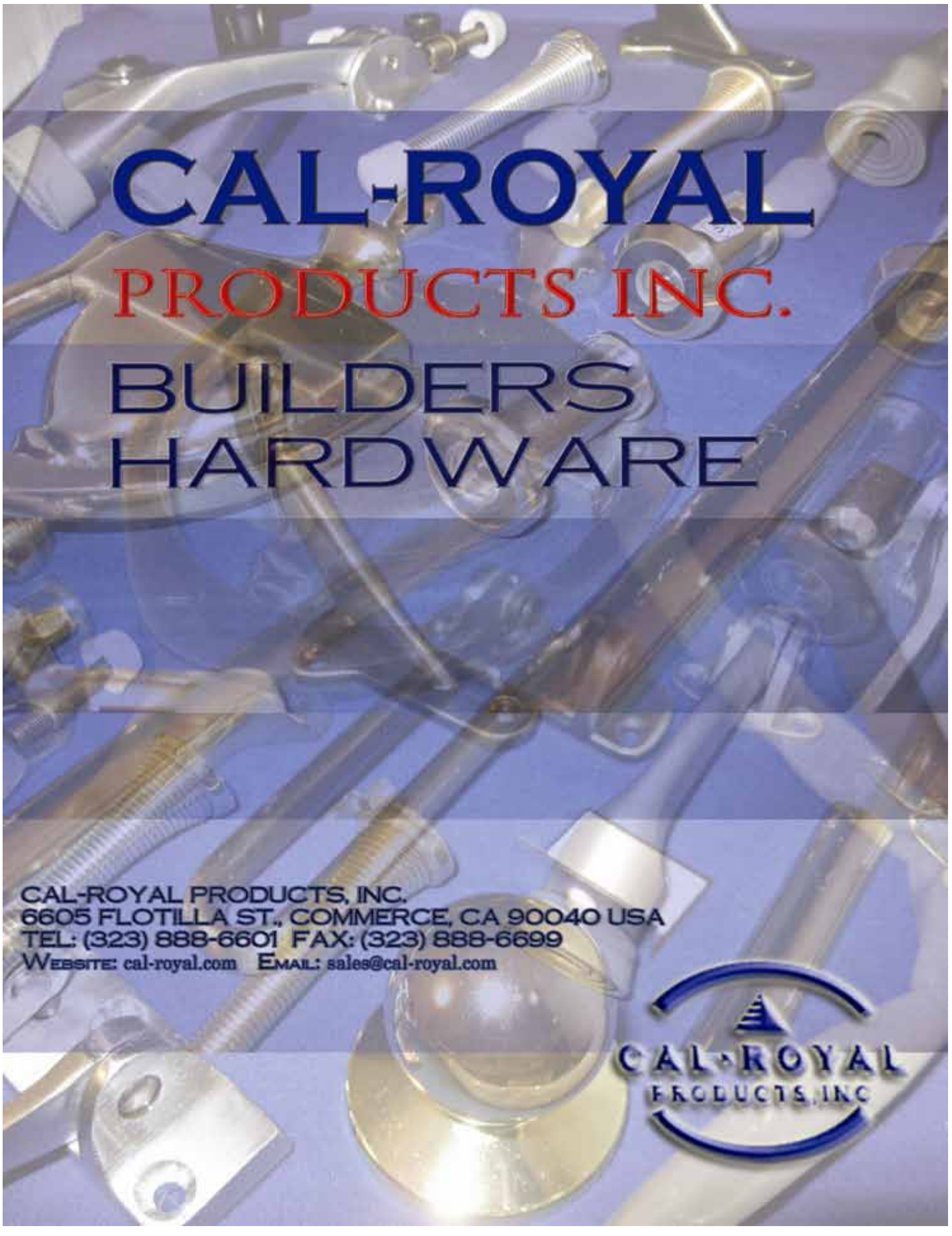


RS1346
1¾"X6"

- INCLUDES TACTILE CHARACTERS & GRADE II BRAILLE
- MEETS SIZE AND PLACEMENT SPECIFICATIONS
- AVAILABLE IN BLUE & BLACK
- DOUBLE FACE TAPE FOR EASY INSTALLATION
- INDIVIDUALLY POLLY BAGED
- PACKED 10 PCS. PER INNER BOX, 100 PIECES PER MASTER CARTON.

CAL-ROYAL
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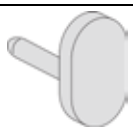
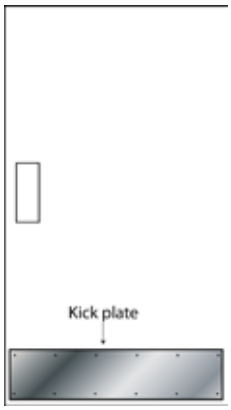
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BUILDERS
HARDWARE
CAL-ROYAL PRODUCTS, INC.
6605 FLOTILLA ST., COMMERCE, CA 90040 USA
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WEBSITE: cal-royal.com EMAIL: sales@cal-royal.com
CAL-ROYAL
PRODUCTS, INC

	TEM NO.	FINISH	DESCRIPTION	PCS/INNER BOX	PCS/MSTR CARTON
SOLID BRASS NUMBERS AND LETTERS					
	SBN2	US3	2" Solid Brass Numbers 0-9.	10	200
	SBN3 SBN4	US3 US3	3" Solid Brass Numbers 0-9. 4" Solid Brass Numbers 0-9.	10 10	100 100
	SBN3 SBL3 SBN4 SBL4	US15,10B US15,10B US15,10B,26 US15,10B,26	3" Solid Brass Numbers 0-9. 3" Solid Brass Letters A-Z. 4" Solid Brass Numbers 0-9. 4" Solid Brass Letters A-Z. **26D Finishes available subject to quantity and factory lead time*	20 20 20 10	200 200 200 100
	SBN6	US3	6" Solid Brass Numbers 0-9.	10	100
	ZN5	US3,15,10B	5" Diecast Numbers 0-9.	10	200
	SBN8	US3	8" Solid Brass Numbers 0-9.	5	50
	SBL2 SBL3 SBL4	US3 US3 US3	2" Solid Brass Letters A-Z. 3" Solid Brass Letters A-Z. 4" Solid Brass Letters A-Z.	10 10 10	200 100 100
MISCELLANEOUS DOOR AND WINDOW HARDWARE					
	SBCF222 SBCF222	US3,5 US10B,15 US15A,26,26D US19	Window Casement Fasteners, Solid Brass ($1\frac{5}{8}$" x $\frac{7}{8}$", Projection $1\frac{3}{8}$") Window Casement Fasteners, Solid Brass ($1\frac{5}{8}$" x $\frac{7}{8}$", Projection $1\frac{3}{8}$")	20 20	100 100
	SBCF333 SBCF333	US3,5 US10B,15 US15A,26,26D USS19	Window Casement Fasteners, Solid Brass ($2\frac{1}{16}$" x $1\frac{1}{16}$", Projection $1\frac{7}{8}$") Window Casement Fasteners, Solid Brass ($2\frac{1}{16}$" x $1\frac{1}{16}$", Projection $1\frac{7}{8}$")	10 10	100 100
	ASA478	US32D US3,26,10,10B	Template ASA Strike ($4\frac{7}{8}$"x$3\frac{3}{8}$"x1 ¼""), Stainless Steel Template ASA Strike ($4\frac{7}{8}$"x$3\frac{3}{8}$"x1¼"), Solid Brass	100	100
	ASAST	US26D,3,26 US10B,10	Template ASA Strike ($4\frac{7}{8}$"x$3\frac{3}{8}$"x1¼"), Steel Base Template ASA Strike ($4\frac{7}{8}$"x$3\frac{3}{8}$"x1¼"), Steel Base	100	100
	SDTP3625	US3,10B,15 US15A,26	Heavy Duty Security Strike Size:$3\frac{5}{8}$"x$1\frac{7}{8}$" Individually Poly-bagged with 2 pcs #10x3/4" Wood Screws	1	200

20% CHARGE FOR BROKEN QUANTITY

MISCELLANEOUS DOOR AND WINDOW HARDWARE

	TEM NO.	FINISH	DESCRIPTION	PCS/INNER BOX	PCS/MSTR CARTON
	DTS80	ZINC	Drive In Thimble Strike (Length: 1 1/8". Diameter 1")	100	200
	DPSTRK1	US26D,10B US3,26	Brass Dustproof Strike. Face Plate: 1 3/8" x 2 7/8"	10	100
	ARL1338	US3,5,10B,26 US26D,15 US15A,19	Heavy Duty Roller Catch. Adjustable Nylon Roller With Square Heavy Duty Cast 2 1/4" Full Lip Strike: Size: 1/8"x1"x3 3/8", Depth: 1 13/16" BHMA:E09091	10	100
	ARLSTRK62	US3,5,10B,26 US26D,15,15A US19	Optional T Strike for Heavy Duty Roller Catch ARL1338	1	1
	DSM21	Rubber	Door Silencer. ½" Dia. 1 1/16' Length For Metal Frames	200/Bag	10,000
	DSW85	Rubber	Door Silencer. 3/8" x ¾" Base, ¾" Length For Wood Frames.	200/Bag	10,000
	BKICK834	US32D US10B	Metal Kick Plates With Screws Size: .050" x 8" x 34"	1	10
	AKICK834	US32D	Metal Kick Plates With Screws Size: .040" x 8" x 34"	1	10
	BKICK1034	US32D US10B	Metal Kick Plates With Screws Size: .050" x 10" x 34"	1	10
	AKICK1034	US32D	Metal Kick Plates With Screws Size: .040" x 10" x 34"	1	10
			PRICES ON STAINLESS STEEL KICK PLATES ARE SUBJECT TO CHANGE WITHOUT NOTICE. PLEASE INQUIRE CURRENT PRICE BEFORE ORDERING		
	ANO634	US3 US10B,15	Aluminum Kick Plate With Screws Size: 0.32" x 6" x 34"	1	10
	ANO834	US3 US10B,15	Aluminum Kick Plate With Screws Size: 0.32" x 8" x 34"	1	10
	ANO1034	US3 US10B,15	Aluminum Kick Plate With Screws Size: 0.32" x 10" x 34"	1	10

20% CHARGE FOR BROKEN QUANTITY

MISCELLANEOUS DOOR AND WINDOW HARDWARE

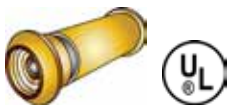
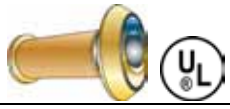
	TEM NO.	FINISH	DESCRIPTION	PCS/INNER BOX	PCS/MSTR CARTON
	PULPL3515	US32D,3 US10B,26,10 US4,5	Pull Plate Size: 0.050" x 3½" x 15" Packed with Solid Brass 6" Handle, Fasteners and Washers. One piece mounted, easy installation.	1	6
	PULPL4015	US32D,3 US10B,26,10 US4,5	Pull Plate Size: 0.050" x 4" x 15" Packed with Solid Brass 6" Handle, Fasteners and Washers. One piece mounted, easy installation.	1	6
	PSPL3515 PSPL3515	US32D US3 US10B,26,10 US4,5	Push Plate Size 0.050" x 3½ " x 15" Packed with Protective Film and Screws.	1	60
	PSPL4016 PSPL4016	US32D US3 US10B,26,10 US4,5	Push Plate Size 0.050" x 4" x 16" Packed with Protective Film and Screws.	1	60
	LPG2	USP,ALUM DURO,GOLD	Latch Guard Protector Size: 2 7/8" x 11"	10	60
	GJLPG2	US32D	Latch Guard Protector Size: 3" x 11" Similar TO Glynnn Johnson #LP1	10	60
	PN20BK	BLACK	4" Die Cast House Number (0-9) and Letters (A-F) Packed With Nails. Affix number or letter to be ordered with Item code. E.g. "PN20BK 4" to order "4" in black finish.	100	100
	PN20US3	US3	4" Die Cast House Number (0-9) and Letters (A-E) Packed With Nails. Affix number or letter to be ordered with Item code. E.g. "PN20US3 4" to order "4" in US3 finish.	100	100
	WP300	US3,26,26D US10B	3" Solid Brass Drawer Pull, 5/16" Dia. Of Rod. Screws for ¾" – 1 3/8" thick drawers or doors.	50	200
	WP350	US3,26,26D US10B	3½" Solid Brass Drawer Pull, 5/16" Dia. Of Rod. Screws for ¾" – 1 3/8" thick drawers or doors.	50	200
	WP400	US3,26,26D US10B	4" Solid Brass Drawer Pull, 5/16" Dia. Of Rod. Screws for ¾" – 1 3/8" thick drawers or doors.	50	200

DOOR KNOCKERS, DOOR VIEWERS

	SBDK356	US3,15,10B,5 US15A,26,26D	Solid Brass Door Knocker Size: 3½ " x 6 7/8" Similar to IVES#312	10	50
	SBDK/DV180	US3	Solid Brass Door Knocker With 180° Door Viewer, 9/16" Bore. Size: 3½" x 6" For Doors 1 3/8" to 1¾" Thick	10	50

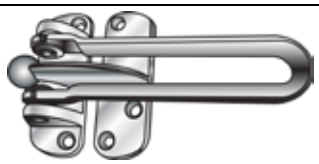
20% CHARGE FOR BROKEN QUANTITY

DOOR KNOCKERS, DOOR VIEWERS

	TEM NO.	FINISH	DESCRIPTION	PCS/INNER BOX	PCS/MSTR CARTON
	SSBDK234	US3	Solid Brass Door Knocker Size: 2⅛" x 3¾" Similar to IVES#3102	20	200
	DK93	US3,5,26D,15 US15A,10B	Door Knocker With 160° Viewer, ½" Bore. Size 1¾" x 4", For Doors 1⅜" To 1 ¾" Thick. Non UL.	24	240
	ULDK93	US3,5,26D,15	Door Knocker With 160° Viewer, ½" Bore. Size 1¾" x 4", For Doors 1⅜" To 1 ¾" Thick. UL Listed.	24	240
	DK94	US3,5,26D,15 US15A,10B	Door Knocker With 180° Viewer, 9/16" Bore. Size 2⅜" x 5¼", For Doors 1⅜" To 1 ¾" Thick. Non UL.	12	120
	DKN95	US3,5	Door Knocker With 160° Viewer Name Card. Size 2" x 4¾", For Doors 1" To 1¾" Thick.	12	120
	DV90	US3,5,26D,26 US15,10B	Brass Door Viewer, 160°, ½" Bore, Plastic Lens For Doors 1⅜" To 2" Thick.	24	600
	DV91	US3,5,26D,26 US15,10B	Brass Door Viewer, 180°, ½" Bore, Plastic Lens For Doors 1⅜" To 2" Thick.	12	600
	DV180	US3,5,26D,26 US15,10B,15A	Brass Door Viewer, 180°, 9/16" Bore, Plastic Lens For Doors 1⅜" To 2" Thick.	12	600
	ULDV160	US3,26,26D US10B,10A15	UL Listed Door Viewer, 160° ½" Bore Glass Lens For Doors 1⅜" To 2" Thick.	25	1000
	ULDV200	US3,26,26D US10B,10A15	UL Listed Door Viewer, 200° 9/16" Bore Glass Lens For Doors 1⅜" To 2" Thick.	25	500
	10ULDV201	US3,10B,26D US15	UL Listed Door Viewer, 200° 9/16" Bore Glass Lens For Doors 1" To 1⅜" Thick.	25	500

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DOOR GUARDS

	TEM NO.	FINISH	DESCRIPTION	PCS/INNER BOX	PCS/MSTR CARTON
	DG22	US3 US5,26	Solid Brass Chain Door Guard, 6 ¾" Chain. Solid Brass Chain Door Guard, 6 ¾" Chain.	20 20	200 200
	BBDHG88	US3,5,26,4 US26D,10B	Zinc Diecast Swing Bar Door Guard With Ball Bearing	10	100
	PDG88	US3,10B,26 US4,26D	Diecast Swing Bar Door Guard With Ball Bearing and Protective Rubber Insert On Both Sides Of Arms	10	100
	SBDG00	US26D US3,26,10B,4	Solid Brass Door Guard Packed With Angle Protector. Comparable to IVES 482B, arm length 4 ¾". With Ball Bearing	10 10	100 100
	DAP77	US26D,3,4 US5,10B,26	Door Angle Protector with Adhesive and Individual Screw For Secure Mounting. To Be Used With BBDHG88 and PDG88 Door Guards.	100	500
	DGS39	Black	Door Guard Shim to be Used When Face of Door is Recessed From Face of Jamb. Fits Under Door Guard Sector Which Attaches to Door. To Be With Used With BBDHG88 and PDG88. 1/8" Thick.	100	500
	DGS100	Black	Door Guard Shim to be Used When Face of Door is Recessed From Face of Jamb. Fits Under Door Guard Sector Which Attaches to Door. To Be Used With SBDG00. 1/8" Thick.	100	500

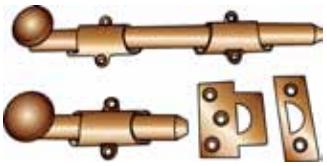
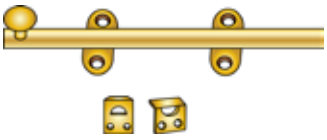
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SLIDING DOOR LOCKS

	TEM NO.	FINISH	DESCRIPTION	PCS/INNER BOX	PCS/MSTR CARTON
	PRIPDL21	US15,10B,15A US26D,5,26,3	Heavy Duty Privacy Sliding Door Lock Function, Standard Door Prep 2 7/8"(L) x 1 3/4"(W) Can be used on 1 3/8" and 1 3/4" Door Thickness.	10	50
	PASPDL34	US15,10B,15A US26D,5,26,3	Heavy Duty Passage Sliding Door Lock Function, Standard Door Prep 2 7/8"(L) x 1 3/4"(W) Can be used on 1 3/8" and 1 3/4" Door Thickness.	10	50
	SDL16	US3 US3/26,5/26 US5,26,26D US10B,10B/26 US15A,15	Privacy Sliding Door Lock Comparable to Quality No. 101	10	50
 SDLPIN not shown to size	SDLPIN		1 1/8" Long Extension Pin for SDL16 Privacy Function. To Be Used For 1 3/4" Door Thickness.	1	1
	SDL17	US3 US5,26,26D US10B US15A,15 US3/26	Privacy Sliding Door Lock Comparable to Quality No. 100	10	50
	STRKSDL	US3,5,26,26D US15A,10B,15	Strike for Privacy SDL16 Packed with 2 Screws	10	50
	EP23	US3,5	Edge Pull, Flush Mount Size 3"	150	600

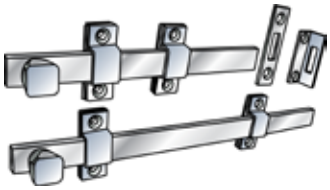
20% CHARGE FOR BROKEN QUANTITY

SECURITY BOLTS

	TEM NO.	FINISH	DESCRIPTION	PCS/INNER BOX	PCS/MSTR CARTON
	DDSB4	US3 US26,10B US15A,15,5	Solid Brass 4" Decorative Dutch Door Bolt Packed With Mortise and Universal Strikes.	10	60
	DDSB8	US3 US26,10B US15A,15,5	Solid Brass 8" Decorative Dutch Door Bolt Packed With Mortise and Universal Strikes.	10	60
	DDSB12	US3 US26,10B US15A,15,5	Solid Brass 12" Decorative Dutch Door Bolt Packed With Mortise and Universal Strikes.	10	60
	DDSB18	US3 US26,10B US15A,15,5	Solid Brass 18" Decorative Dutch Door Bolt Packed With Mortise and Universal Strikes.	10	60
	DDSB24	US3 US26,10B US15A,15,5	Solid Brass 24" Decorative Dutch Door Bolt Packed With Mortise and Universal Strikes.	10	60
	SB873	US3,15,26 US15A,10B,5	3" Brass Surface Bolt, Poly Packed With Screws.	20	400
	SB874	US3,15,26 US15A,10B,5	4" Brass Surface Bolt, Poly Packed With Screws.	20	200
	SB876	US3,15,26 US15A,10B,5	6" Brass Surface Bolt, Poly Packed With Screws.	20	200
	SB8712	US3,15,26 US15A,10B,5	12" Brass Surface Bolt, Poly Packed With Screws.	20	100
	DCSB4	US3,5,10B US15,15A US26,26D	Decorative 4" Surface Bolt Included: Packed in individual Poly Bag with 2 strikes and Screws. Comparable to IVES No. 043 surface bolt.	50	300
	DCSB6	US3,5,10B US15,15A US26,26D	Decorative 6" Surface Bolt Included: Packed in individual Poly Bag with 2 strikes and Screws. Comparable to IVES No. 043 surface bolt.	50	200
	MB85R	US3 US5,10B,26 US26D,15A,15	6" Brass Flush Bolt Round End. 1" Throw	10 10	100 100
	STRKMB85R	US3,5,26,26D US15A,15	Strike for MB85R and MB86S. Packed with 2 screws.	10	50
	MB86S	US3 US5,10B,26 US26D,15A,15	6" Brass Flush Bolt Square End. 1" Throw	10 10	100 100

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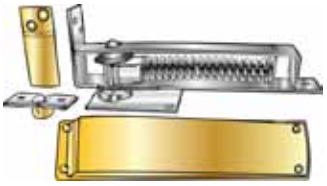
SECURITY BOLTS

	TEM NO.	FINISH	DESCRIPTION	PCS/INNER BOX	PCS/MSTR CARTON
	FBG6	US3,5,26 US26D,15,15A US10B	Solid Brass Single Route Flush Bolt Round End, Similar to (IVES #260) Size 7"	10 10	100 100
	STRKFBG6	US3,5,26,26D US10B,15,15A	Strike for FBG6 and FBGEX12 Packed with 2 screws	10	100
	FBGEX12	US3,5 US26,26D,15 US15A,10B	Solid Brass Single Route Extension Flush Bolt, 18" Rod, Size 7 3/8" Round Both Ends.	2 2	100 100
	ZDFB800	US3 US5,26D,26 US10B,15	Solid One Piece Heavy Construction, Diecast Base, Single Route Flushbolt, Round End. Size 6 ¾".	10 10	100 100
	SBUL8	US26D	UL Listed 8" Surface Bolt. Features Tamper-Resistant Mounting. Concealed Screw, Steel Construction. Bolt Throw – 1", Width 1", Projection 1 5/8", Length 8" Comparable to IVES #361	1	36
	ESBUL50	US26D	UL-Listed 8" Surface Mounted Heavy Duty Surface Bolt. Steel Construction. Bolt Throw 1 3/16", Width 1", Length 8" Projection 1 5/8". Packed with Mortise and Universal Strikes. Comparable to IVES #453	1	50
	ESBUL12	US26D	12" Length, same specs as above	1	50

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	TEM NO.	FINISH	DESCRIPTION	PCS/INNER BOX	PCS/MSTR CARTON
SECURITY BOLTS					
	ULFB634	US26D,3 US10B,26,15A US5,15,10,4	UL-Listed Solid Brass Lever Extension Flush Bolt. Commercial Type, 1" x 6 ¾", 12" Extension, ¾" Throw. New Extruded Brass Design.	2	50
	FBROD18		18" Extended Rod for ULFB634	1	1
	FBROD24		24" Extended Rod for ULFB634	1	1
	FBROD36		36" Extended Rod for ULFB634	1	1
	FBROD48		48" Extended Rod for ULFB634	1	1
	WFUL634	US26D,3,10B US26,15,15A	UL-Listed Solid Brass Lever Extension Flush Bolt. Commercial Type, 1" x 6 ¾", ¾" Throw. For Wood or Composite Doors.	1	50
HANDRAIL BRACKETS					
	JUHB28	US3,5,26 US15,15A US10B	Jumbo Heavy Duty Handrail Bracket Packed With Mounting Screws	50	100
	HB96	US3,5,26 US15,15A US26D,10B	Hand Rail Bracket, Poly Bagged With Screws. Height: 2 ¼", Width: 1 ¼"	50	200
	HDHB40	US3,5,26 US15,15A,26D US10B	Heavy Duty Cast Aluminum Handrail Bracket Comparable To IVES #059 (Height: 2 ¼", Width: 1 ⅜")	50	200
	DMHB83	US3,15,15A US26D US10B	Heavy Duty Handrail Bracket. Poly Bagged with Screws. Size: 2 ½" (H) x 1 ½" (W) Projection: 3 ¼"	50	100

20% CHARGE FOR BROKEN QUANTITY

	TEM NO.	FINISH	DESCRIPTION	PCS/INNER BOX	PCS/MSTR CARTON
DOUBLE-ACTING FLOOR SPRING HINGE					
	DAFH8	US3,15,10B US26D,5	Double-Acting Residential Floor Spring Hinge Heavy Duty Ball Bearing Type with 90° Hold Open. Door Range 1 1/8" – 1 ¾". Can Hold Doors up to 90 lbs.	1	10
CRASH CHAINS AND BOLTS					
	CCD30	Zinc	Single Spring Crash Chain Door Guard, No Vinyl, 21¾" Chain	10	120
	CDV24	Zinc	Single Spring Crash Chain Door Guard, With Vinyl, 21¾" Chain	10	120
	HDCDV48	US26D	Super Heavy Duty Adjustable Chain Door Stop With Vinyl Cover, comparable to IVES #115. For Heavy Commercial Doors. Adjustable 20" to 30 ½".	1	50
	CB6	Zinc Chromium	24" Chain Bolt Hardened Steel, Supplement to a regular door Lock for added security. Included: Packed in individual poly bag with strikes and screws.	10	50
SOLID BRASS DOOR STOPS					
	WB26	US32D US3,10B,26 US10,4,5,15A	Stainless Steel Concave Wall Stop, Size 2 ½" Diameter Projection: 1 3/16", Toggler & RP. Solid Brass Concave Wall Stop, Size 2 ½" Diameter Projection: 1 3/16", Toggler & RP. ANSI/BHMA 156.16 L12251	50 50	300 300
	CONWB42	US32D US3,10B,26 US10,4,5,15A	Stainless Steel Convex Wall Stop, Size 2 ½" Diameter Projection: 1 3/16", Toggler & RP. Solid Brass Convex Wall Stop, Size 2 ½" Diameter Projection: 1 3/16", Toggler & RP. ANSI/BHMA 156.16 L12101	50 50	300 300
	SWB	US26D,10B,3 US26,4,15,15A	Solid Brass Convex Wall Stop, 1" Diameter, ½" Projection, Concealed Mounting. Comparable to IVES #404	50	500
	HDWDS99	US3,26D,10B	Heavy Duty Commercial Grade Wall Door Stop for high traffic Conditions. Solid cast brass or bronze heavy duty Construction. Includes mounting hardware for all wall construction applications. Overall projection of unit is 3 5/8", Base Diameter is 2 ¼". ANSI: A156.16, BHMA, L11351, FED SPEC: 1321E	10	50

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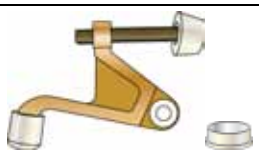
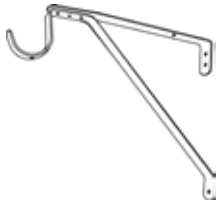
SOLID BRASS DOOR STOPS

	TEM NO.	FINISH	DESCRIPTION	PCS/INNER BOX	PCS/MSTR CARTON
	HDFDSH66	US3,26D,10B	Heavy Duty Commercial Grade Floor Door Stop for high Traffic Conditions. Solid cast brass or bronze heavy duty Construction. Includes mounting hardware for all floor construction applications. Overall projection of unit is 3 5/8", Base Diameter is 2 ¼". ANSI: A156.16, BHMA, L11371, FED SPEC: 1329E	10	50
	CWS18	US3,26D US10B	Commercial Grade Wall Door Stop For High Traffic Conditions. Solid cast brass or bronze heavy duty Construction. Includes mounting hardware for all wall construction applications. Overall projection of unit is 3 5/8", Base Diameter is 2 ¼". ANSI: A156.16, BHMA, L12021, FED SPEC: 1320E	10	50
	CFS20	US3,26D US10B	Commercial Grade Floor Door Stop For High Traffic Conditions. Solid cast brass or bronze heavy duty Construction. Includes mounting hardware for all floor construction applications. Overall projection of unit is 3", Base Diameter is 2 ½". ANSI: A156.16, BHMA, L12131, FED SPEC: 1328E	10	50
	GS118	US26D,3 US26,10B,10 US4,15A,15	Cast Floor Stop, 2 1/8" High, Base: 2 5/8" x 1 5/8". Combo Packed with (1) 5/16" Hanger Bolt and (1) #14 x 1" Woodscrew, 5/16" x 2 ½" Stud with expansion shield and (1) ¼-20x1" Machine Screw and Anchor. ANSI/BHMA 156.16	10	50
	GS119	US26D,3 US26,10B,10 US4,15A,15	Cast Floor Stop, 2 7/8" High, Base: 2 ¾" x 1 ½". Combo Packed with (1) 5/16" Hanger Bolt and (1) #14 x 1" Woodscrew, 5/16" x 2 ½" Stud with expansion shield and (1) ¼-20x1" Machine Screw and Anchor. ANSI/BHMA 156.16	10	50
	CURB19	US3,4,10B US26D	Solid Brass Curved Roller Stop ANSI/BHMA 156.16	10	100
	SRB82	US3,4,10B US26D	Solid Brass Straight Roller Stop ANSI/BHMA 156.16	10	100
	DSHP18	US26D,3,10B US26,10,4,5 US15,15A	Solid Brass Dome Stop High Profile. (1 ¾" Diameter, ½" Thick Base) Projection: 1 3/8" ANSI/BHMA 156.6	10	200
	DSLP4	US26D,3,10B US26,10,4,5 US15,15A	Solid Brass Dome Stop Low Profile. (1 ¾" Diameter, 1/8" Thick Base) Projection: 1 1/8" ANSI/BHMA 156.6	10	200

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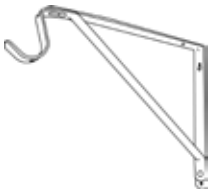
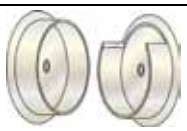
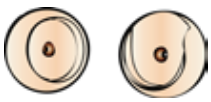
	TEM NO.	FINISH	DESCRIPTION	PCS/INNER BOX	PCS/MSTR CARTON
SOLID BRASS DOOR STOPS					
	RIS375	Alum	Riser For Dome Stops With 1 ¾" Screws, ⅜" Thick.	50	400
	RIS625	Alum	Riser For Dome Stops With 1 ¾" Screws, ⅝" Thick.	50	250
	NEWRIS3750	US26D,3,10B US26,10,4,5 US15,15A	Riser For Dome Stops With 2" Screws, ⅜" Thick. ANSI/BHMA 156.1	10	100
	SBDH5	US26D,3,10B US26,10	5" Solid Brass Kick Down Door Holder, Base: ⅞" x 1 ¾". Comparable to IVES #455. ANSI/BHMA 156.16 L11382	10	100
	SBDH41300	US26D US10B,3,26 US10,4	5" Solid Brass Kick Down Holder, Base: 1 ¼" x 2". ANSI/BHMA 156.16 L11391	10	60
	RUBSBDH	Grey	Vinyl Rubber Stop With Concentric Circular Groove Design For use with SBDH5 or SBDH41300 door stops.	1	1
	SBRS3	US3,26,15,15A US10B	3" Solid Brass Rigid Door Stop, Packed With Both White and Black Rubber Tips. Comparable to IVES #64.	50	200
	SBRS4	US3,26,15,15A US10B	4" Solid Brass Rigid Door Stop, Packed With Both White and Black Rubber Tips. Comparable to IVES #64.	50	200
DOOR STOPS					
	FS89	US3,26,5 US10B,15,15A	3" Flexible Door Stop With Fixed Screw. Diecast Base, One Piece Style.	100	1000
	RS92	US3,5,26 US26D,10B,15 US15A	3" Cast Rigid Door Stop With Molded Screw.	100	1000
	SOFS3	US3,5,26 US15A,15,10B	3" Heavy Duty Flexible Snap On Door Stop 3 Pieces, Steel Base. Comparable to IVES #060.	100	1000
					

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	TEM NO.	FINISH	DESCRIPTION	PCS/INNER BOX	PCS/MSTR CARTON
DOOR STOPS					
	DH25	US3,26,26D DURO	4" Zinc Diecast Drop Down Door Holder. ANSI/BHMA 156.16 L11382	50	200
	RUBDH25	Grey	Vinyl Rubber Stop With Concentric Circular Groove Design For use with DH25	1	1
	IVHP23	US3,26,10B,5 US15A,15,26D	Jumbo Heavy Duty Hinge Pin Stop With Removable Bushing, Adjustable Angle Setting. For Commercial Grade Hinges, ¼" or $^{5}/_{16}$" Diameter Hinge Pins. (4 ½" x 4 ½", 4" x 4" and 3 ½" x 3 ½") Individually Poly Packed. Comparable to IVES #69, 69F.	50	500
	JHP11	US3,5,26 US15,15A US10B	Jumbo Hinge Pin Door Stop. Poly Bagged With Nylon Bushing	50	500
	NHP78	US3,5,26 US15,15A US10B,26D	Deluxe Hinge Pin Door Stop. Poly Bagged W/ Nylon Bushing	50	500
	HP95	US3,5,26,15A US15,10B	Hinge Pin Door Stop. Poly Bagged W/ Nylon Bushing	100	1000
	HDFS3	US3,5,26 US15,15A,10B	3 $^{1}/_{8}$" Heavy Duty Flexible Door Stop With Screw and Metal Base.	100	600
	JFS13	US3,5,26 US15,15A,10B	3 ¾" Heavy Duty Jumbo Spring Door Stop With Screw And Metal Base.	100	600
	JRS34	US3,5,26 US15,15A US10B	4" Diecast Jumbo Rigid Door Stop With Molded Screw.	100	500
CLOSET HARDWARE					
	ACR1830 ACR3048 ACR4872 ACR7296 ACR72120 ACR96150	Bright Zinc Bright Zinc Bright Zinc Bright Zinc Bright Zinc Bright Zinc	18" to 30" Adjustable Closet Rod 30" to 48" Adjustable Closet Rod 48" to 72" Adjustable Closet Rod 72" to 96" Adjustable Closet Rod 72" to 120" Adjustable Closet Rod 96" to 150" Adjustable Closet Rod	1	10
	ASR41	White	Adjustable Shelf and Rod Support. Supports Shelves Up to 14" Wide and Rods up to 1 ½" Dia. Screws Packed Individually with Bracket.	40	40

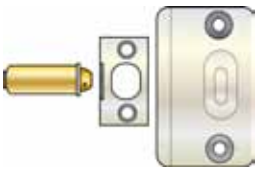
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CLOSET HARDWARE

	TEM NO.	FINISH	DESCRIPTION	PCS/INNER BOX	PCS/MSTR CARTON
	ADJ42	White	Adjustable Shelf Support Only. Supports Shelves up to 14" wide. Screws Packed Individually with Bracket.	40	40
	SR27	White	Single Shelf & Rod Support. Supports Shelves Up to 14" Wide and Rods up to 1 ½" Dia. Screws Packed Individually with Bracket.	80	80
	FSR123	White	Heavy Duty Shelf & Rod Support. Supports Shelves Up to 14" Wide and Rods up to 1 ½" Dia. Screws Packed Individually with Bracket.	40	40
	PS99	White	Closet Pole Socket for 1 3/8" Pole, Nylon. Poly Bagged with Screws.	50	500
	MPS3	US3,26	Steel Closet Pole Socket for 1 3/8" Pole. Poly Bagged with Screws.	100	500
	WDPS82	Wood	Wood Closet Pole Socket 1 3/8"	50	400
	RC88	US3, Zinc US10B	Jumbo Roller Catch, Size 2" Poly Bagged with Screws.	50	500
	SBBC58	US3 US15,15A,26 US26D,5,10B	Solid Brass Adjustable Ball Catch 1" x 2 1/8", ¼" Radius Latch Face & Strike Strike Size: 1 3/8" x 2 1/8", Round Corner	20	200
	BC97	US3,5 US15A,10B,15 US26,26D	Adjustable Ball Catch (2 ¼" x 1") with Full Lip Strike Plate RC Strike Size: 1 3/8" x 2 ¼", Round Corner	100	200
	DIB1	US3,5,26,1 US26D,15 US15A,10B	Adjustable Drive-In Ball Catch, Packed With Full Lip Strike, Round Corner, Poly-Bagged with Screws. Strike Size: 1 3/8" x 2 ¼", Round Corner	100	200
	BLKDIB777	US3	Adjustable Drive-In Ball Catch, Packed With Full Lip Strike, Round Corner, Poly-Bagged with Screws. Strike Size: 1 3/8" x 2 ¼", Round Corner Bulk Packed	100	200

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CLOSET HARDWARE

	TEM NO.	FINISH	DESCRIPTION	PCS/INNER BOX	PCS/MSTR CARTON
	STRKBC97	US3,5,26,15A US26D,15,10B	Full Lip Strike Plate Round Corner For BC97 and DIB1 Strike Size: 1 3/8" x 2 1/4", Round Corner	10	100
	BULLCAT11	US3,15 US10B,26,5	Bullet Catch ½" Diameter x 1 1/8" Packaging: Individually poly-bagged with standard full lip round corner and square corner strikes. Square Corner Strike Size: 5/8" x 1 1/4" Optional T-strike: Part# TCAT-108	50	500
	TCAT108	US3,15 US10B,26,5	T-Strike For Bullet Catch Size: 7/8" x 2 1/4"	50	500
	BK14	US3,5,26D,26 US15A,15,10B	Bi-Fold Ball Knob (Width: 1 1/4", Height: 1 3/8") Poly-Bagged Individually with 1 5/8", 1 7/8" and 2" screws.	20	200
	PLA2	US3,5,26D,26 US15A,15,10B	Back Plates For BK14, Diameter 1 3/4".	20	200
	CH28	US3,26	Coat and Hat Hook, Diecast Material	50	1000
	CK130	US3,5,26D	Bi-Fold Concave Knob Beveled Edge (1") Screw, 1 3/8" Dia.	20	200
	DIFP218	US3,5,26 US15A,10B,15 US26D	Drive In Finger Pull (2 1/8" Diameter), No Nails	150	600
	FP98	US3,5,26	Finger Pull (2 1/8" Diameter), With Nails	150	600

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