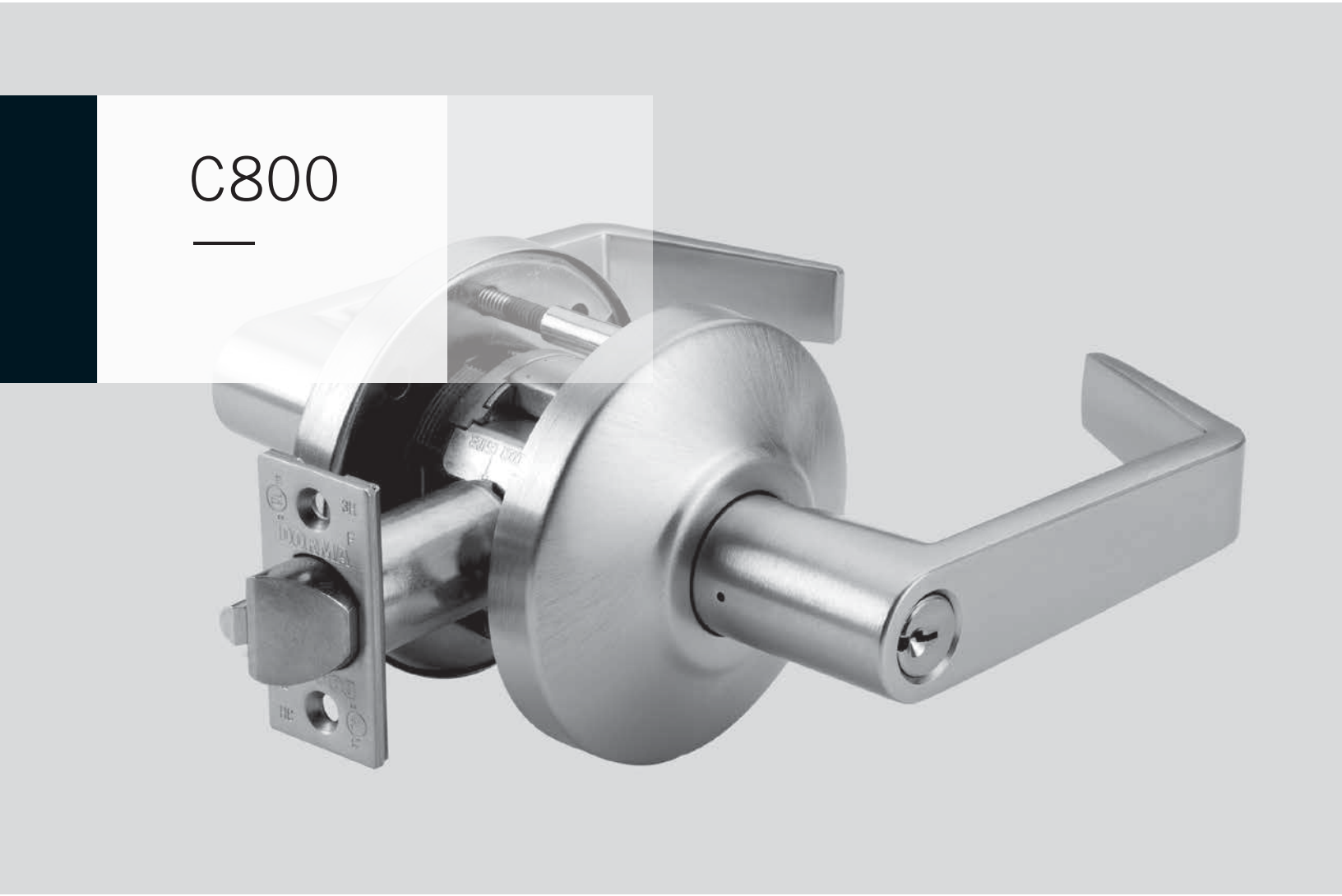
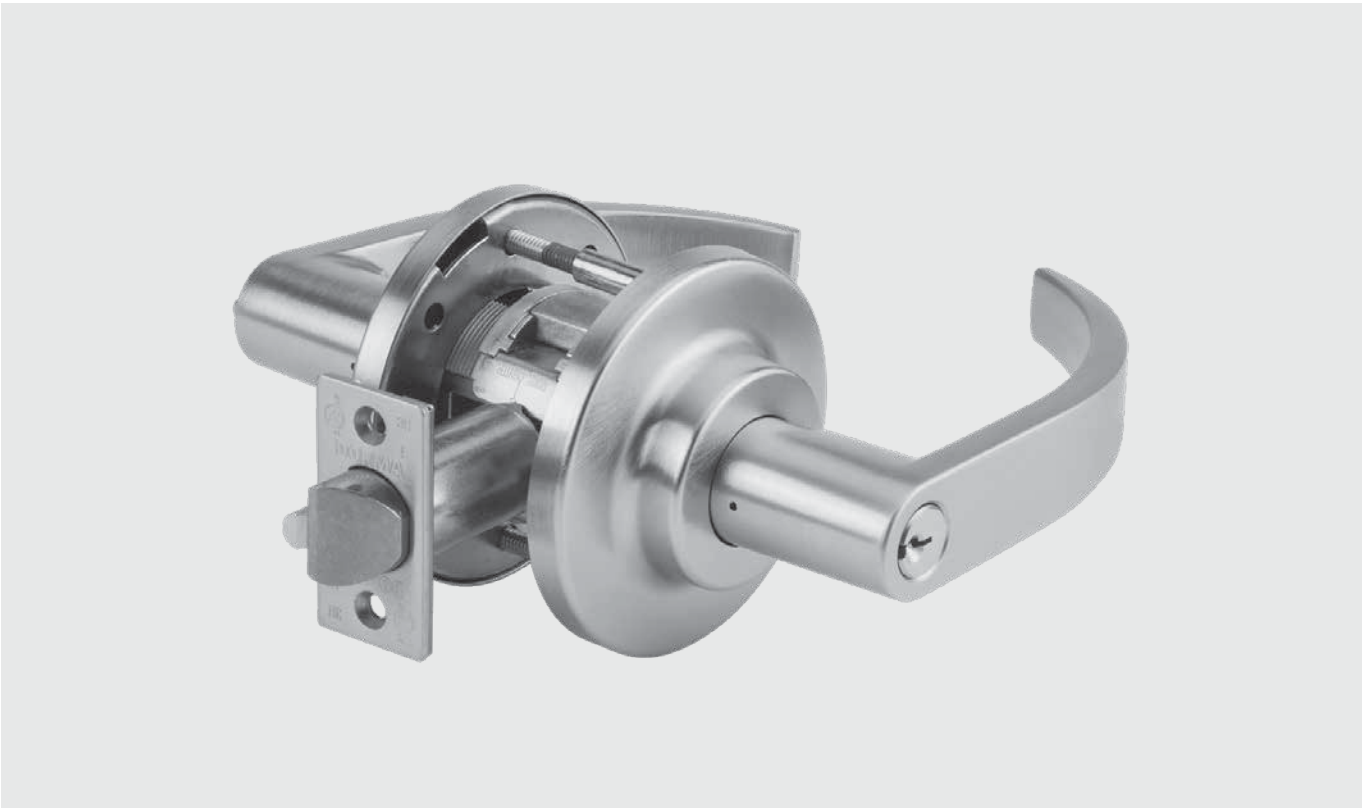
C800



Grade 1 Heavy-Duty Cylindrical Locksets



CONTENTS

Grade 1 Heavy-Duty Cylindrical Locksets	Features	3
	Technical Details	4
Ordering Guide	Locks	5
	Keyways	6
Functions	Available Functions	7
Electromechanical Options	Electrical Requirements	9
	Monitoring Option	9
Lock Options	Trim Options	10
	Roses	10
	Tactile Warning (Knurling)	11
	Strike Options	11
	Latch Bolt Options	11

DORMA USA quality and environmental management systems in Reamstown, PA and Steeleville, IL are certified to ISO 9001:2008 and ISO 14001:2004.

C800 – GRADE 1 HEAVY-DUTY CYLINDRICAL LOCKSETS

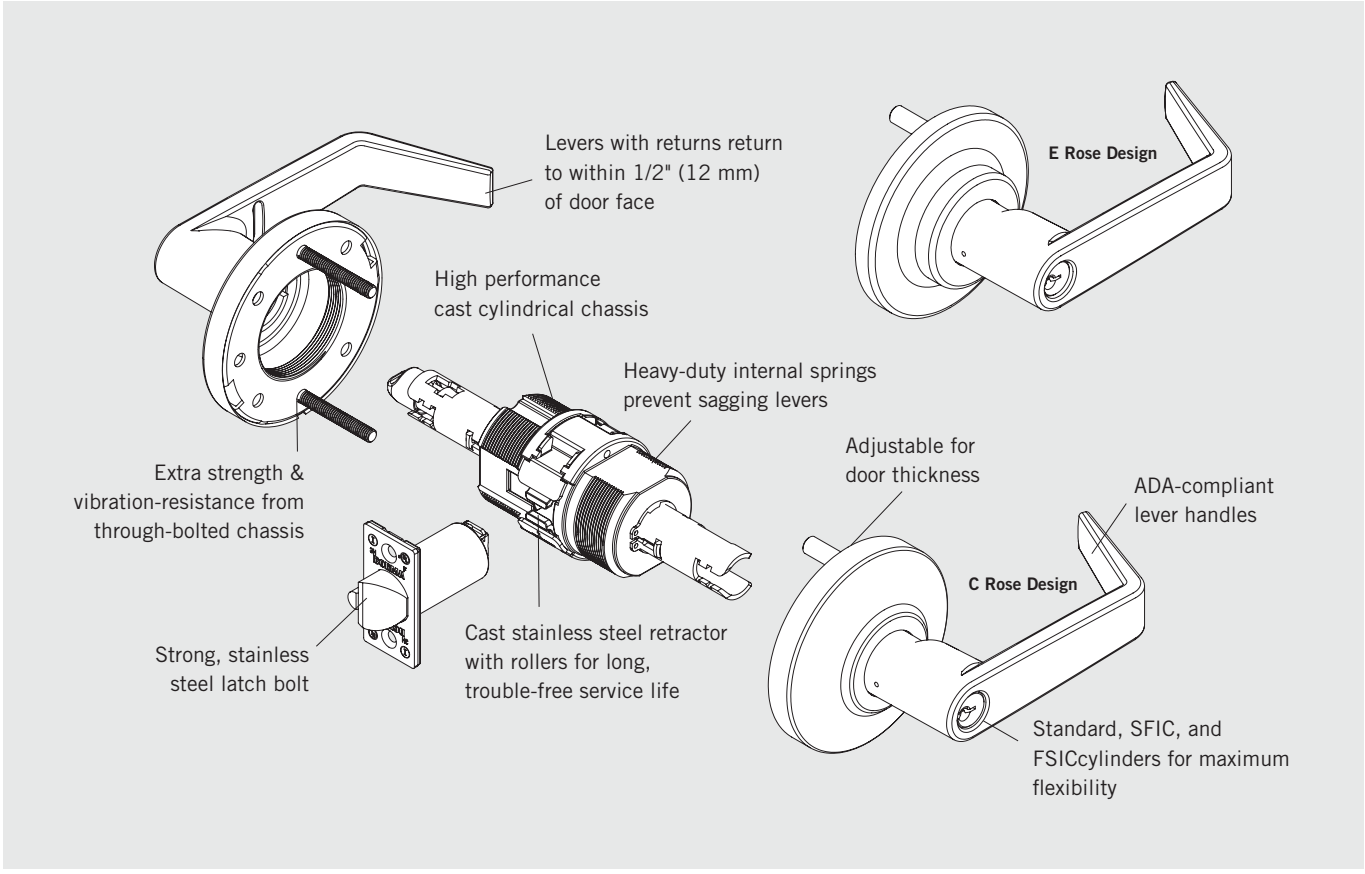
Exceptional security, enhanced aesthetics, and rugged dependability.
These premium locks are built with a high performance cylindrical chassis for all applications where ANSI/BHMA A156.2 Series 4000 Grade 1 products are required. To meet the aesthetic needs of your project, these versatile locks are available in a range of trim designs.

Features

- DORMA C800 Series locks feature advanced design concepts for extreme reliability and are manufactured with the finest materials for exceptional durability.
- For exceptionally smooth operation, C800 Series lever locks incorporate a cast stainless steel retractor combined with roller bearings. This design provides both extremely high strength and an extended service life for the lock mechanism. All steel parts are zinc dichromate plated.
- C800 Series locks are easy to install in both wood and hollow metal doors with ANSI/BHMA Standard A156.115 preparations for cylindrical locks.
- C800 Series lever locks are through-bolted for additional strength and reliability.
- C800 Series lever locks are available with two rose designs, C or the stepped E.
- C800 Series operating lever trim features a specially designed freewheeling function to protect the lock from damage caused by excessive torque applied to the lever handles. When locked, the outside lever handle will move freely through a 60° arc without operating the latch bolt. This free movement minimizes the opportunity for damage to the lock mechanism.
- C800 Series lever locks include a special, high-strength spring and positive stop to eliminate unsightly sagging levers.
- C800 Series lever locks are easily adjustable to accommodate doors from 1-3/4"–2-1/4" thick without spacers (1-3/8"–1-5/8" with spacers 660005). Consult the factory for other thicknesses.
- C800 Series knob locks will accommodate doors from 1-3/8"–2" thick without spacers or special tools.

Recommended Applications

- Schools and Universities
- Hotels
- Apartments
- Hospitals and Nursing Homes
- Churches
- Municipal Buildings
- Airports
- Retail Complexes
- Offices
- Warehouses



Technical Details

- Non-handed for simple installation (excluding LF or LV handed levers).
- Key-in-lever lock is through-bolted for additional strength and security.
- Cast stainless steel latch retractor with roller bearings for exceptionally smooth operation and superior strength and durability.
- Lock chassis constructed of steel, stainless steel and zinc components for superior strength and corrosion resistance.
- Stainless steel latch bolt.
- Auxiliary deadlocking latch bolt.
- Premium PVD (physical vapor deposition) finishes for consistent durable color.
- Accepts standard and interchangeable core cylinders.

Certification

- ANSI/BHMA A156.2 Grade 1 certified.

- Tested to 3.5 million cycles by an independent laboratory.
- Meets A117.1 accessibility code and ADA requirements for barrier-free accessibility.
- UL listed 3 hour fire rated. Locks with 1/2" throw latch bolts are listed for A label and lesser class doors, 4'0" × 8'0" maximum per leaf.
- California State Fire Marshall approved (CSFM).

Cylinders and Keying

- Unless otherwise specified, cylinders will be provided in Schlage **C** keyway with two (2) nickel silver keys.
- Optional patented key system available.
- Refer to separate **DORMA Price List** for full details and options such as master keying, retrofit cylinders and keyways, and small format and full size interchangeable cores.

Finishes

- Brass: 605* (Bright, Clear Coated), 605 PVD (Bright), or 606 PVD (Satin)
- Bronze: 612 PVD (Satin) or 613 PVD (Dark Oxidized Satin)
- Nickel: 619 PVD (Satin)
- Chrome: 625 (Bright) or 626 (Satin)
- Stainless: 630* (Satin)
- Black: 622 (Satin)

*Available on knob locksets only.
NOTE: Consult factory for finishes not shown.

Antimicrobial Protected Coating
Specify **AM**.

Special Finish Notes
ANSI/BHMA A156.18 standards describe 613 Dark Oxidized Satin Bronze finish as a category B finish. B category finishes, "do not match from one alloy or form of material to the next and from one manufacturer to the next." The 613 finish may vary between manufacturers' products and models.

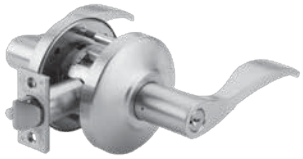
In some instances, for customer convenience, the most appropriate BHMA finish symbols are used to indicate similarity of appearance, regardless of base metal or finishing process. Finishes of latches, strikes, cylinders/cores, and visible mounting screws, though similar in appearance, may differ from the finish of the trim. Finish designations in the 600 numbers are the BHMA (Builders Hardware Manufacturers Association) industry standard.

Security Screws
Torx® tamper-resistant screws are available for all exposed screws. Specify **TX**.

Warranty
For details, refer to **DORMA Limited Warranty** on our website at **go.dorma.com/terms**.

LR Lever with C Rose

LF Lever with C Rose



LV Lever with C Rose

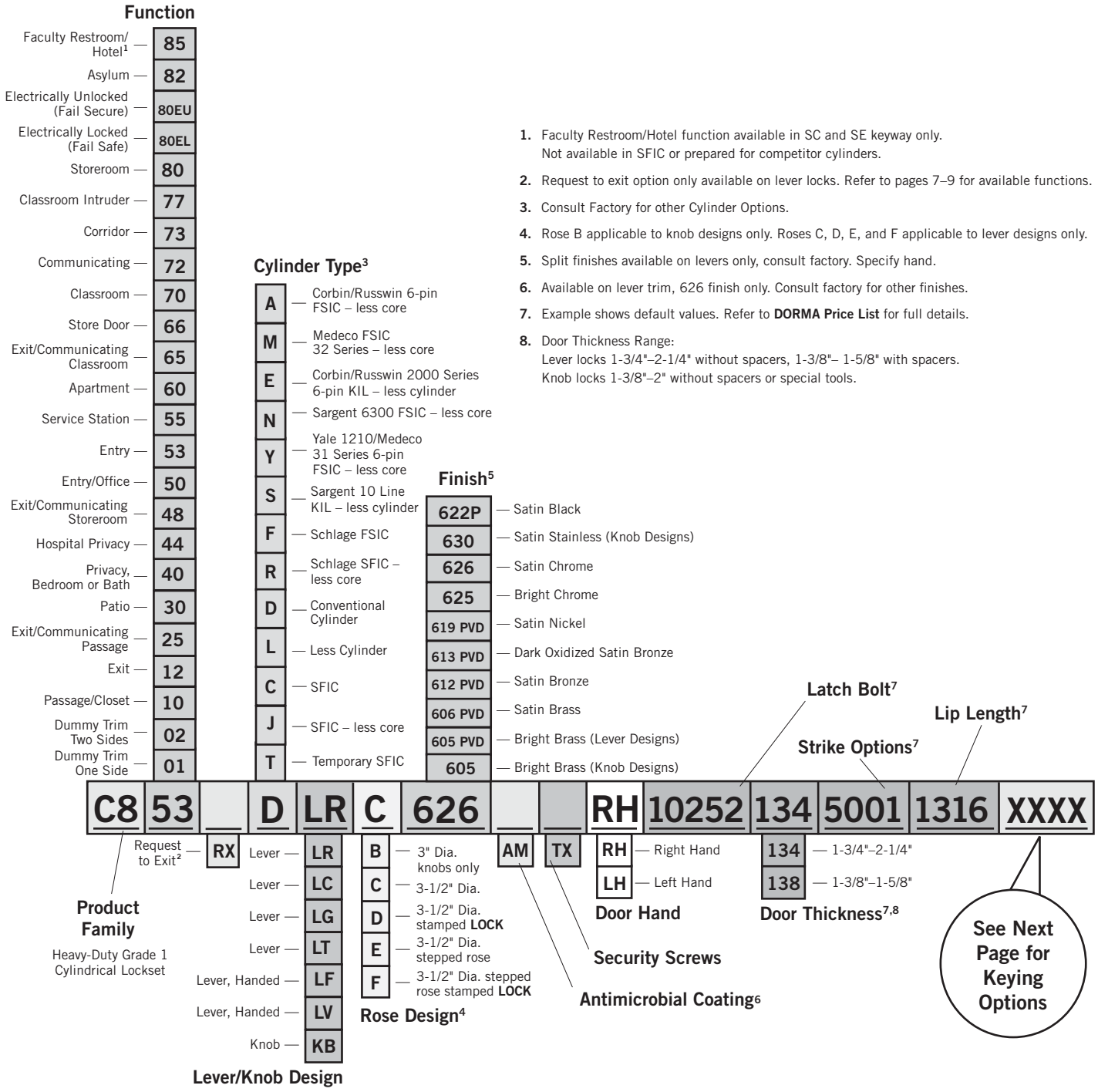
LT Lever with C Rose

LC Lever with E Rose

LG Lever with E Rose

KB Knob IC with B Rose

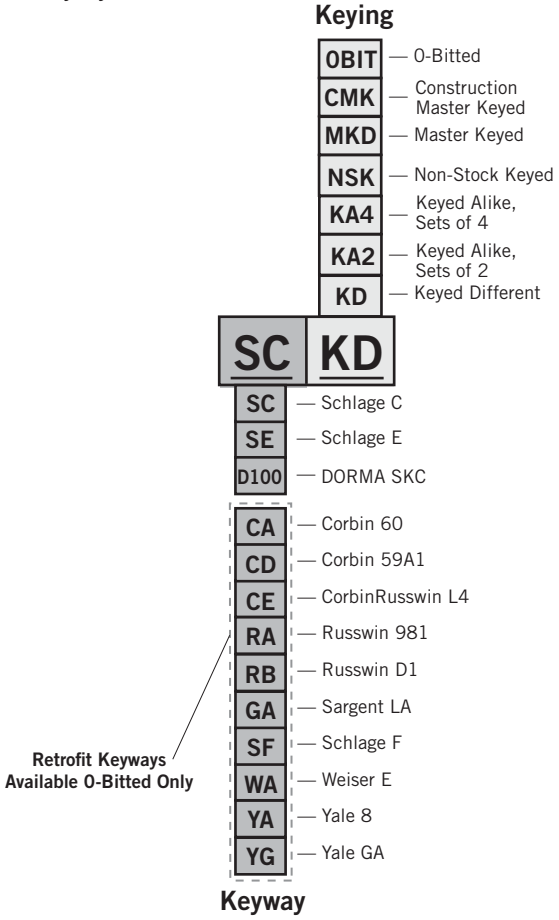
HOW TO ORDER C800 SERIES LOCKS



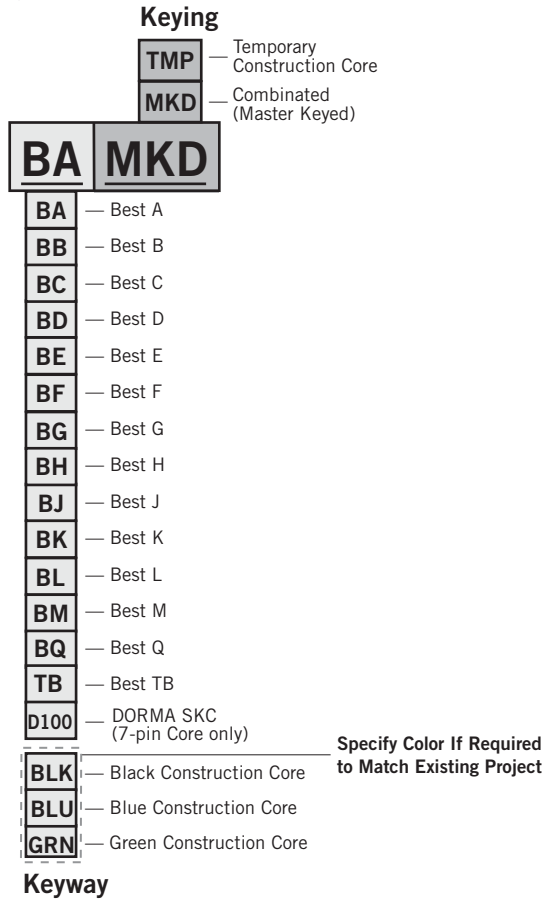
1. Faculty Restroom/Hotel function available in SC and SE keyway only. Not available in SFIC or prepared for competitor cylinders.
2. Request to exit option only available on lever locks. Refer to pages 7–9 for available functions.
3. Consult Factory for other Cylinder Options.
4. Rose B applicable to knob designs only. Roses C, D, E, and F applicable to lever designs only.
5. Split finishes available on levers only, consult factory. Specify hand.
6. Available on lever trim, 626 finish only. Consult factory for other finishes.
7. Example shows default values. Refer to **DORMA Price List** for full details.
8. Door Thickness Range: Lever locks 1-3/4"–2-1/4" without spacers, 1-3/8"– 1-5/8" with spacers. Knob locks 1-3/8"–2" without spacers or special tools.

KEYING OPTIONS

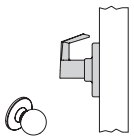
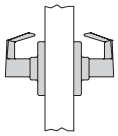
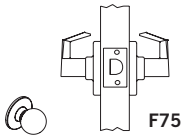
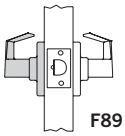
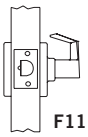
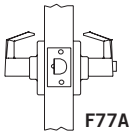
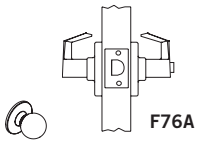
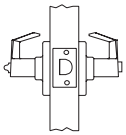
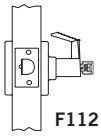
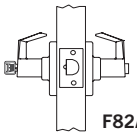
Standard Keyways

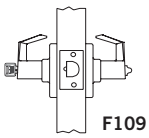
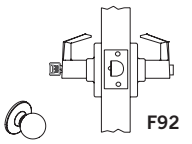
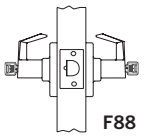
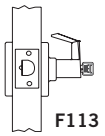
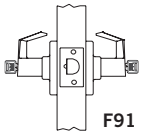
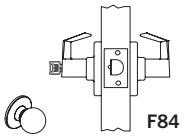
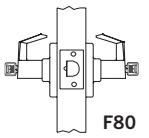
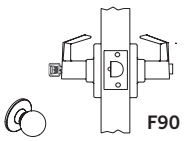
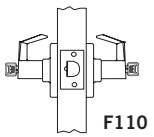
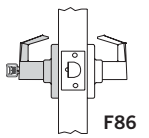


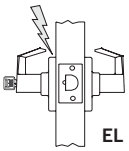
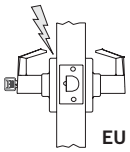
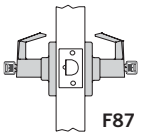
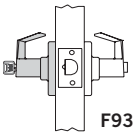
SFIC Keyways



FUNCTIONS

Function	Series	Outside/Inside	Description
Dummy Trim One Side	C801		▪ Used as pull or matching trim on pairs of doors. ▪ For wood or custom hollow metal doors. ▪ Trim is surface mounted.
Dummy Trim Two Sides	C802		▪ Used as pull or matching trim on pairs of doors. ▪ For wood or custom hollow metal doors. ▪ Trim through-bolted.
Passage/Closet	C810	 **F75**	▪ Latch bolt operated by trim either side at all times.
Exit	C812	 **F89**	▪ Deadlocking latch bolt operated by inside trim. ▪ Outside trim always rigid. ▪ Inside trim always unlocked.
Exit/Communicating Passage	C825	 **F111**	▪ Deadlocking latch bolt operated by inside trim. ▪ Blank plate outside. ▪ Minimum clearance 1" on single doors and 2" between double doors.
Patio	C830	 **F77A**	▪ Deadlocking latch bolt operated by trim either side. ▪ Outside trim locked by push button or locking device inside. ▪ Outside trim unlocked by trim inside. ▪ Outside trim unlocked by closing door. ▪ Inside trim always operates latch bolt. ▪ Do not use in rooms that have no other entrance.
Privacy, Bedroom or Bath	C840	 **F76A**	▪ Latch bolt operated by trim either side. ▪ Outside trim locked by push button or locking device inside. ▪ Outside trim unlocked by emergency release outside. ▪ Outside trim unlocked by trim inside. ▪ Outside trim unlocked by closing door. ▪ Inside trim always operates latch bolt.
Hospital Privacy	C844		▪ Latch bolt operated by trim either side. ▪ Outside trim locked by push button or locking device inside. ▪ Outside trim unlocked by emergency release outside. ▪ Outside trim unlocked by trim inside. ▪ Outside trim unlocked by closing door. ▪ Inside trim always operates latch bolt.
Exit/Communicating Storeroom	C848	 **F112**	▪ Deadlocking latch bolt operated by key in trim. ▪ Trim always inoperable. ▪ Blank plate outside. ▪ Minimum clearance 1" on single doors and 2" between double doors.
Entry/Office	C850	 **F82A**	▪ Deadlocking latch bolt operated by trim either side, except when outside trim locked by push button inside. ▪ Key outside releases push button, unlocking outside trim. ▪ Operating inside trim releases push button, unlocking outside trim. ▪ Closing door does not release push button. ▪ Inside trim always operates latch bolt.

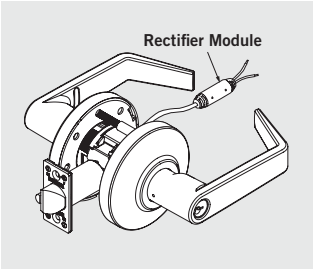
Function	Series	Outside/Inside	Description
Entry	C853	 **F109**	▪ Deadlocking latch bolt operated by trim either side, except when outside trim locked by push button inside. ▪ Key outside releases push button, unlocking outside trim, except when inside button pushed and turned to keep outside trim locked. ▪ Operating inside trim releases push button, unlocking outside trim, except when inside button pushed and turned to keep outside trim locked. ▪ Inside button must be turned to unlock outside trim. ▪ Inside trim always operates latch bolt
Service Station	C855	 **F92**	▪ Deadlocking latch bolt operated by trim either side, except when outside trim locked by push button inside. ▪ Key outside, operating inside trim, or closing door releases push button, unlocking outside trim, except when slotted push button fixed in locked position by turning inside trim coin slot. ▪ Slotted inside button must be manually released.
Apartment	C860	 **F88**	▪ Deadlocking latch bolt operated by trim either side, except when outside trim locked by key inside. ▪ When outside trim locked, latch bolt retracted by key outside. ▪ When outside trim locked, latch bolt operated by trim inside.
Exit/Communicating Classroom	C865	 **F113**	▪ Deadlocking latch bolt operated by trim. ▪ Key locks or unlocks trim. ▪ Blank plate outside. ▪ Minimum clearance 1" on single doors and 2" between double doors.
Store Door	C866	 **F91**	▪ Deadlocking latch bolt operated by trim either side. ▪ Key in either trim locks or unlocks both trims.
Classroom	C870	 **F84**	▪ Deadlocking latch bolt operated by trim either side, except when outside trim locked by key outside. ▪ Outside trim locked or unlocked by key outside. ▪ Inside trim always operates latch bolt.
Communicating	C872	 **F80**	▪ Deadlocking latch bolt operated by trim either side. ▪ Turning key in trim locks, or unlocks, its own trim independently. ▪ Do not use on doors in rooms that have no other exit.
Corridor	C873	 **F90**	▪ Deadlocking latch bolt operated by trim either side, except when outside trim locked by key outside, or when outside trim locked by push button inside. ▪ Outside trim locked or unlocked by key outside. ▪ Operating inside trim or closing door releases push button. ▪ Inside trim always operates latch bolt.
Classroom Intruder	C877	 **F110**	▪ Deadlocking latch bolt operated by trim either side. ▪ Key in either trim locks or unlocks outside trim. ▪ Inside trim always operates latch bolt.
Storeroom	C880	 **F86**	▪ Deadlocking latch bolt retracted by key outside. ▪ Deadlocking latch bolt operated by trim inside ▪ Outside trim always inoperable.

Function	Series	Outside/Inside	Description
Electrically Locked Fail Safe	C880EL	 **EL**	▪ Outside trim locked when power is on. ▪ Outside trim unlocked when power is interrupted. ▪ Deadlocking latch bolt retracted by key outside. ▪ Inside trim always operates latch bolt.
Electrically Unlocked Fail Secure	C880EU	 **EU**	▪ Outside trim unlocked when power is on. ▪ Outside trim locked when power is interrupted. ▪ Deadlocking latch bolt retracted by key outside. ▪ Inside trim always operates latch bolt.
Asylum	C882	 **F87**	▪ Deadlocking latch bolt retracted by key either side. ▪ Both trims always rigid.
Faculty Restroom/ Hotel	C885	 **F93**	▪ Deadlocking latch bolt operated by trim inside at all times. ▪ Outside trim always inoperable. ▪ Latch bolt retracted by key outside and lever inside, except when push button inside activates visual ***occupancy*** indicator in cylinder face, allowing only emergency master key to operate. ▪ Operating inside lever or closing door releases visual occupancy indicator. ▪ Rotating inside spanner button provides lock out feature by keeping visual occupancy indicator thrown. Released by lock out tool only (tool provided). ▪ Faculty Restroom/Hotel function available in SC and SE Keyway only. ▪ Not available in SFIC or prepared for competitor cylinders.

Indicates rigid or inoperable lever.

Indicates also available in knob trim.

ELECTROMECHANICAL OPTIONS



Electromechanical Functions

- Electrically locked (fail safe).
- Electrically unlocked (fail secure).

Electrical Requirements for Solenoid Functions

Voltage: 24 VDC regulated, filtered.
Current: 0.145 A.
UL and CUL listed for use on fire doors.

- Solenoids are rated for continuous duty.
- Repeated operation at voltage exceeding +/–10% is not recommended.
- Recommended power supply: DORMA PS610RF

Monitoring Options

RX — Request-to-exit signaling switch.
Voltage: 250 VAC.
Current Rating: 1 A.
Wire Leads: 22 AWG.

- A microswitch attached to chassis is activated by inside lever. The switch signals the lever use to security, allowing a means of immediate egress
- Available on the following functions: C810, C850, C853, C870, C880, C880EL, C880EU.

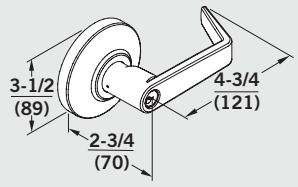
When ordering specify **RX**.
Example: C880EURX.

CAUTION: Not recommended for use on doors used for Life Safety egress.

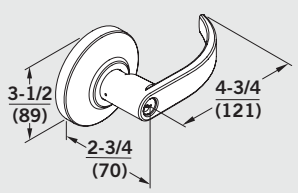
LOCK OPTIONS

Trim Options

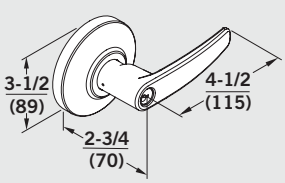
LR



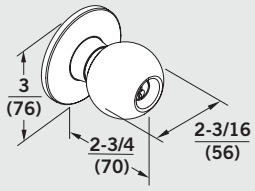
LC



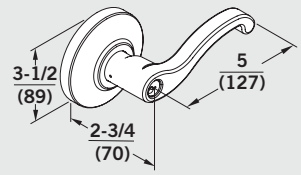
LG



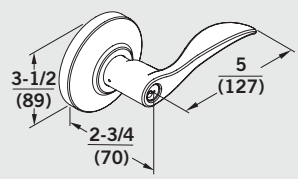
KB



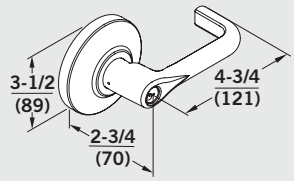
LF



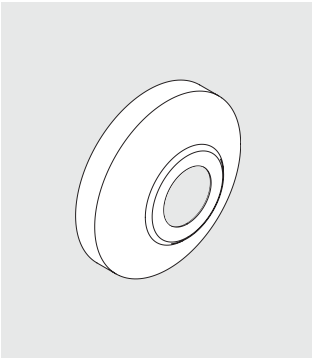
LV



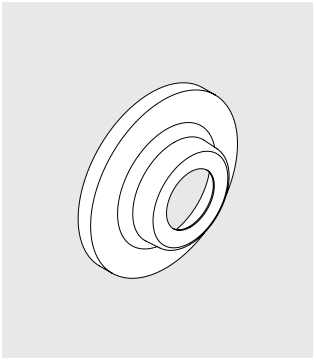
LT



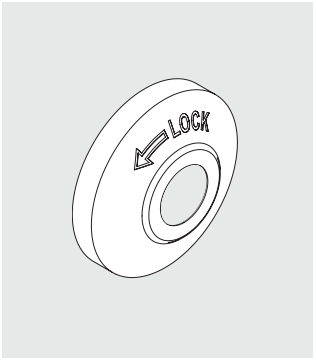
Roses



C Rose — Default Rose for all C800 lever style locks.



E Rose — Optional stepped rose for all C800 lever style locks.



D Rose — C-style rose with **LOCK** stamped on the inside trim for double cylinder functions. Available on C860 and C877. Specify **D Rose**.

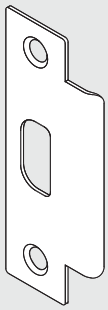
F Rose — E-style stepped rose with **LOCK** stamped on the inside trim for double cylinder functions. Available on C860 and C877. Specify **F Rose**. Call customer service for availability.

Tactile Warning (Knurling)

Grooved or knurled levers available on LR and LG designs only. All other lever and knob designs available with abrasive coating only.

Strike Options

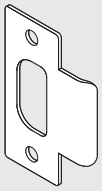
Standard – ANSI



Dust box included.

5001 — ANSI 1-1/4" × 4-7/8" strike. 1-3/16" lip length. Default strike for all C800 Series locks.

Optional – T Strike

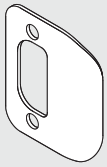


Dust box included.

5101 — 1-1/8" × 2-3/4" square T-strike. 1-1/8" lip length. Optional for all C800 Series locks.
5102 — 1-1/8" × 2-3/4" T-strike with radiused corners. 1-1/8" lip length. Optional for all C800 Series locks.

For optional 1-1/2" lip length, specify 5101-112 or 5102-112.

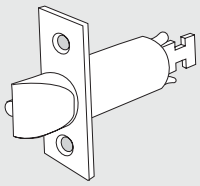
Optional – Full Lip



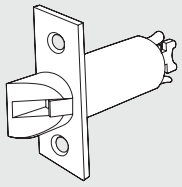
5201 — 1-5/8" × 2-1/4" full curved lip strike with square corners. 1-1/8" lip length. Optional for all C800 Series locks.
5202 — 1-5/8" × 2-1/4" full curved lip strike with 1/4" radiused corners. 1-1/8" lip length. Optional for all C800 Series locks.

Latch Bolt Options

1/2" Throw Latch bolt, 2-3/4" Backset



3/4" Throw Latch bolt



Available Latches

Item #	Throw	Backset	Face	Functions
10100	1/2"	2-3/8"	1", Square Corner	C810, C840, C844
10101	1/2"	2-3/8"	1", 1/4" Radius	C810, C840, C844
10102	1/2"	2-3/8"	1-1/8", Square Corner	C810, C840, C844
10150	1/2"	2-3/8"	1", Square Corner	All Functions except C810, C840, C844
10151	1/2"	2-3/8"	1", 1/4" Radius	All Functions except C810, C840, C844
10152	1/2"	2-3/8"	1-1/8", Square Corner	All Functions except C810, C840, C844
10202	1/2"	2-3/4"	1-1/8", Square Corner	C810, C840, C844
10252	1/2"	2-3/4"	1-1/8", Square Corner	All Functions except C810, C840, C844
10302	1/2"	3-3/4"	1-1/8", Square Corner	C810, C840, C844
10352	1/2"	3-3/4"	1-1/8", Square Corner	All Functions except C810, C840, C844
10502	1/2"	5"	1-1/8", Square Corner	C810, C840, C844
10552	1/2"	5"	1-1/8", Square Corner	All Functions except C810, C840, C844
18662	3/4"	2-3/4"	1-1/8", Square Corner	All Functions

DORMA

www.dorma.com

DORMA USA, Inc.
Dorma Drive, Drawer AC
Reamstown, PA 17567
Tel: 800 523 8483
Fax: 800 274 9724
archdw@dorma-usa.com

DORMA Canada
1680 Courtney Park Drive, Unit 13
Mississauga, Ontario L5T 1R4
Tel: 800 387 4938
Fax: 905 670 5850
sales@dormacanada.com

DORMA Mexico
Calle Sur 110 no. 63, Col. Tolteca
01150 México, D.F.
Tel: 5255 5272 6937
Fax: 5255 5272 6948
operacion@dorma.com.mx

07000408 · 5.16CT · 2M · USA