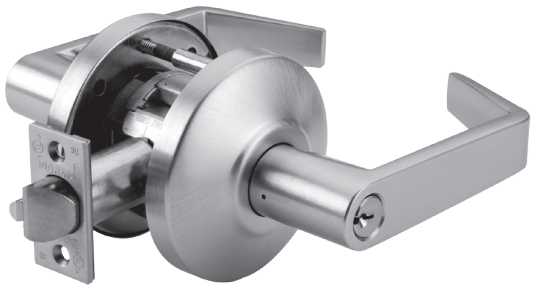
DORMA



C800

Grade 1 Heavy-Duty Cylindrical Locksets

Table of Contents





C800 Grade 1 Cylindrical Locksets

Features . . . 3
Technical Details . . . 4
How to Order . . . 5

Trim Designs
C800 LC Lever . . . 6
C800 LF Lever . . . 6
C800 LG Lever . . . 6
C800 LR Lever . . . 6
C800 LT Lever . . . 6
C800 LV Lever . . . 6
C800 KB Knob . . . 6

Functions
Dummy Trim One Side – C801 . . . 7
Dummy Trim Two Sides – C802 . . . 7
Passage/Closet – C810 . . . 7
Exit – C812 . . . 7
Exit/Communicating Passage – C825 . . . 7
Patio – C830 . . . 7
Privacy, Bedroom or Bath – C840 . . . 7
Hospital Privacy – C844 . . . 7
Exit/Communicating Storeroom – C848 . . . 7
Entry/Office – C850 . . . 7
Entry – C853 . . . 8
Service Station – C855 . . . 8
Apartment – C860 . . . 8
Exit/Communicating Classroom – C865 . . . 8
Store Door – C866 . . . 8
Classroom – C870 . . . 8
Communicating – C872 . . . 8
Corridor – C873 . . . 8
Classroom Intruder – C877 . . . 8
Storeroom – C880 . . . 9
Electrically Locked Fail Safe – C880EL . . . 9
Electrically Unlocked Fail Secure – C880EU . . . 9
Asylum – C882 . . . 9
Faculty Restroom/Hotel – C885 . . . 9
Electrical Requirements . . . 9
Monitoring Options . . . 9

Lock Options
1/2" Throw Latch Bolt, 2-3/4" Backset . . . 10
1/2" Throw Latch Bolt, 3-3/4" Backset . . . 10
1/2" Throw Latch Bolt, 5" Backset . . . 10
1/2" Throw Latch Bolt, 2-3/8" Backset . . . 10
3/4" Throw Latch Bolt . . . 10
Backset Links . . . 11
4-7/8" Strike . . . 11
T-Strike . . . 11
Full Lip Strike . . . 11
Stamped Rose . . . 11
Tactile Warning (Knurling) . . . 11

The quality management systems at the Reamstown, PA and Steeleville, IL facilities are certified to ISO-9001:2008.*

Intertek

*DORMA Door Controls, Inc. dba DORMA Architectural Hardware

DORMA's C800 Series Grade 1 heavy-duty cylindrical locksets provide 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 lever and knob trim designs.

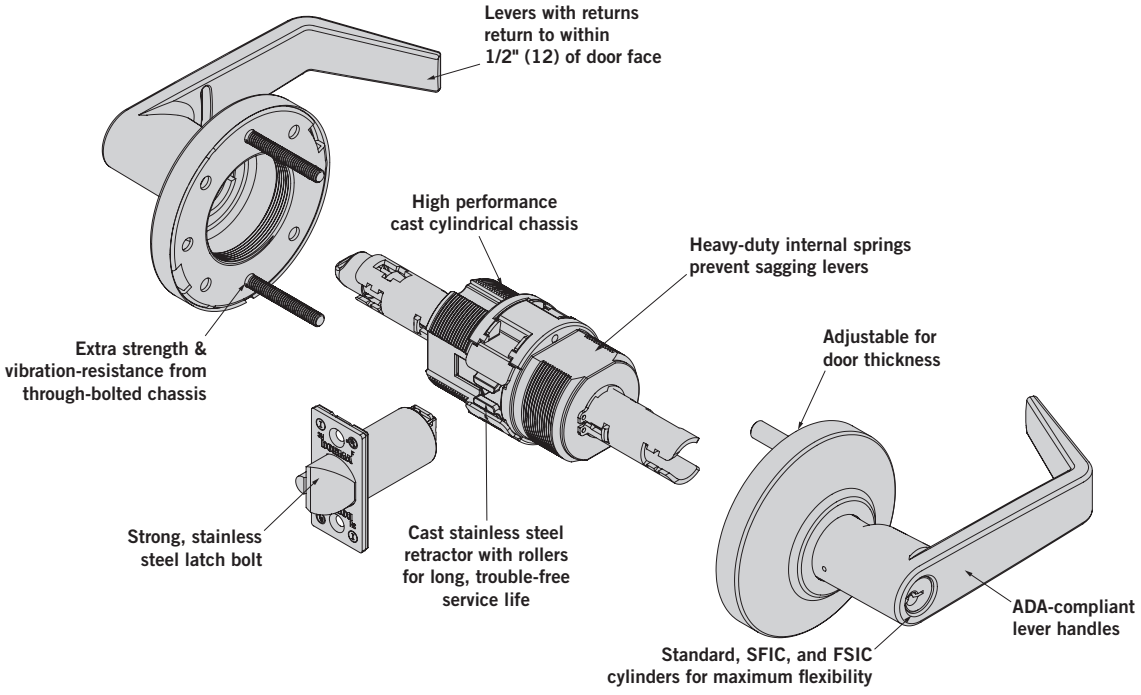
Features

- All DORMA C800 Series locks feature advanced design concepts for extreme reliability and are manufactured with the finest materials for exceptional durability.
- To ensure exceptionally smooth operation, the C800 Series locks with lever trim 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.
- DORMA C800 Series locksets are easy to install in both wood and hollow metal doors with ANSI/BHMA Standard A156.115 preparations for cylindrical locks.
- All C800 Series lever locks are through-bolted for additional strength and reliability.

Recommended Applications

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

- All 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.
- All C800 Series lever handle locks include a special, high-strength spring and positive stop to eliminate unsightly sagging levers.
- All C800 Series lever locks are easily adjustable to accommodate doors from 1-3/4"–2-1/4" thick without spacers (1-3/8"–1-3/4" 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.



Technical Details:

ANSI/BHMA A156.2 Series 4000, Grade 1	Yes	Highest grade level obtainable
UL listed for UL 10C	Yes	UL and CUL listed for use on 3-hour fire-rated doors and for all positive pressure applications
Non-handed*	Yes	Simple installation
Key-in-lever lock through-bolted	Yes	Provides added strength and security
Cast stainless steel latch retractor with roller bearings	Yes	Provides exceptionally smooth operation and superior strength and durability against lock-in or lock-out situations
Lock chassis constructed of steel, stainless steel, and zinc components	Yes	Provides superior strength, durability, and corrosion resistance
Stainless steel latch bolt	Yes	Provides superior strength and wear resistance
Auxiliary deadlocking latch bolt	Yes	Provides superior strength and wear resistance
Premium PVD Finishes	Yes	PVD (physical vapor deposition) finishing used on 605, 606, 612, 613, 619 for consistent durable color
Accepts standard and interchangeable core cylinders	Yes	Allows flexibility of using most currently available standard and interchangeable core cylinders

*Excluding LF or LV handed lever selections.

Certification/Compliance:

ANSI: Meets A156.2 Series 4000 Grade 1. Meets A117.1 accessibility code and ADA requirements for barrier-free accessibility.

UL/CUL – UL 10C Positive Pressure: All C800 are listed 3 hour fire rated. Locks with 1/2" throw latch bolts are listed for A label and lessor class doors, 4'0" × 8'0" maximum per leaf.

California State Reference Code: (formerly title 19, California State Fire Marshall standard) All levers with returns, return to within 1/2" (12 mm) of door face.

Cylinders and Keying:

- Unless otherwise specified, cylinders will be provided in DORMA standard 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.

Warranty: For details, refer to **Limited Warranty Policy** in the current DORMA Price List.

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).

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

Antimicrobial Protected Coating: Specify **AM**.

Special Finish Notes:

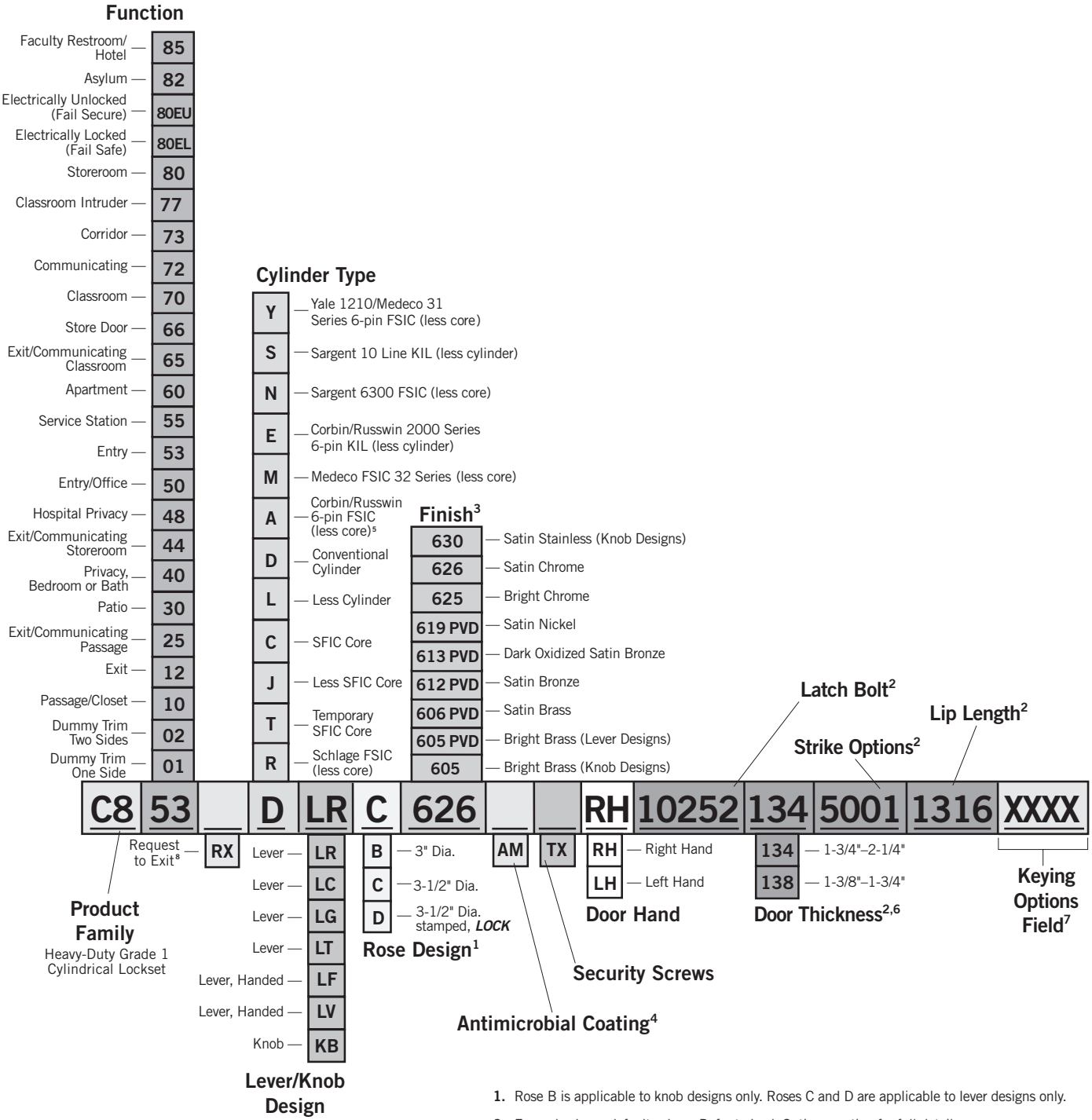
ANSI/BHMA A156.18 standards describe 613 Dark Oxidized Satin Bronze finish as a category B finish. B category finishes, "do not match from one alloy or form of material to the next and from one manufacturer to the next." The 613 finish may vary between manufacturers' products and models.

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**.

How to Order C800 Series

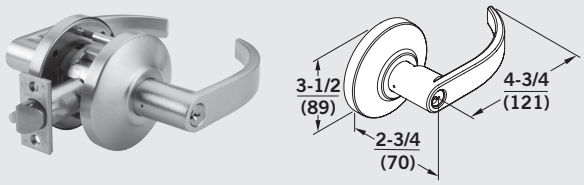


1. Rose B is applicable to knob designs only. Roses C and D are applicable to lever designs only.
2. Example shows default values. Refer to Lock Options section for full details.
3. For split finishes, available on levers only, consult factory. Specify hand.
4. Available on lever trim, 626 finish only. Consult factory for other finishes.
5. Will also accept the Corbin/Russwin Pyramid 7-Pin IC core.
6. Door Thickness Range:
   Lever locks 1-3/4"–2-1/4" without spacers, 1-3/8"– 1-3/4" with spacers
   Knob locks 1-3/8"–2" without spacers or special tools.
7. Refer to **DORMA Price List** for full details.
8. Request to exit option only available on lever locks. Refer to page 9 for available functions.

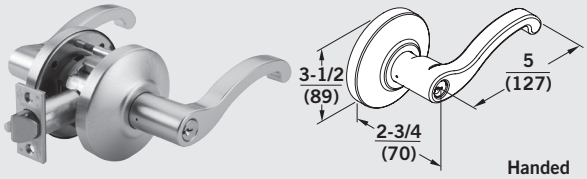
The C800 Series ANSI/BHMA Grade 1 Heavy-Duty Cylindrical Locks are available in many trim designs that complement DORMA mortise locks and exit devices.

- C800 Series lever locks feature a custom designed mechanism that allows locked outside lever to rotate through approximately 60° without damage.
- ADA compliant levers feature solid, cast handles.
- Levers with returns, return to within 1/2" (12 mm) of door face.
- Independent internal return springs hold levers in correct horizontal position
- All designs available with either conventional cylinders or small format interchangeable cores.
- Roses and knobs made of brass or stainless steel.

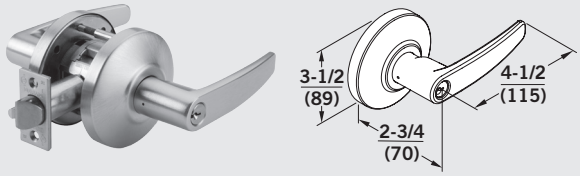
Lever Design – LC



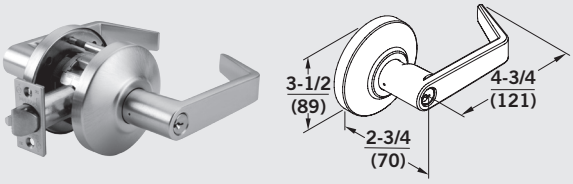
Lever Design – LF



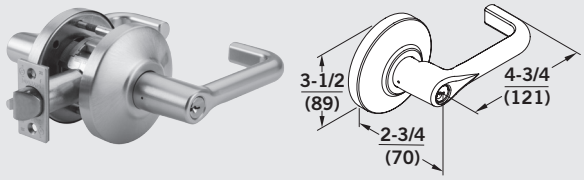
Lever Design – LG



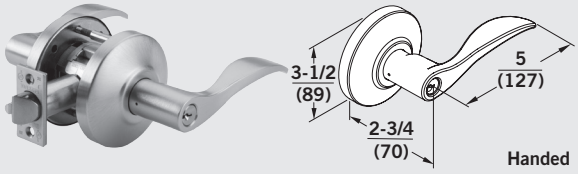
Lever Design – LR



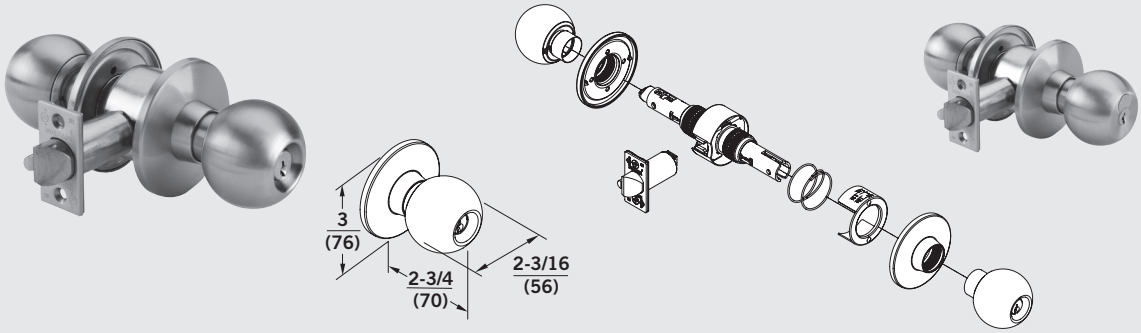
Lever Design – LT

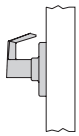
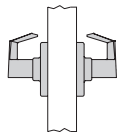
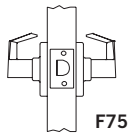
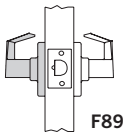
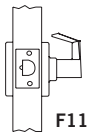
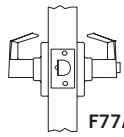
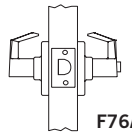
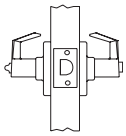
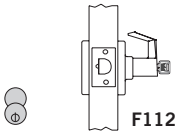
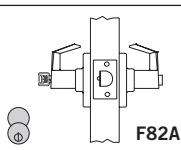


Lever Design – LV



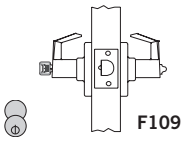
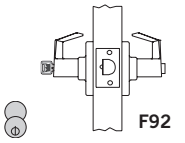
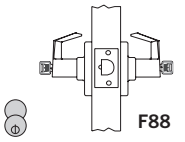
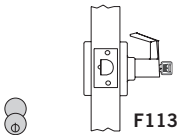
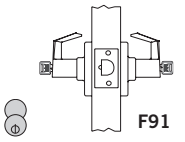
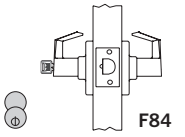
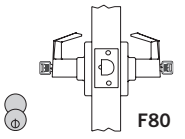
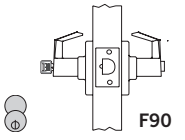
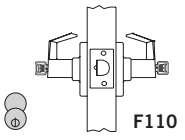
Knob Design – KB



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.

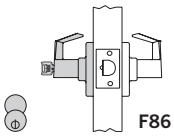
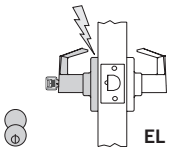
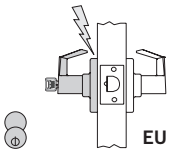
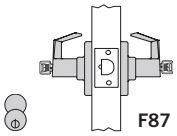
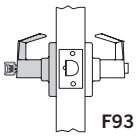
 Indicates SFIC core available.

 Indicates rigid or inoperable lever.

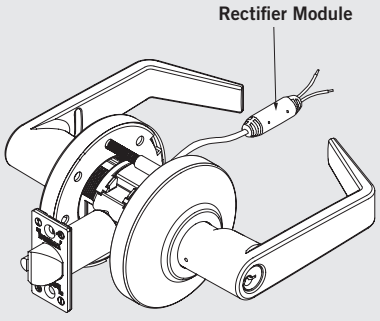
FUNCTION	SERIES	OUTSIDE/INSIDE	DESCRIPTION
Entry	**C853**	 F109	• Deadlocking latch bolt operated by trim either side, except when outside trim locked by push button inside. • Key outside releases push button, unlocking outside trim, except when inside button pushed and turned to keep outside trim locked. • 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	• Deadlockig 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.

 Indicates SFIC core available.

 Indicates rigid or inoperable lever.

FUNCTION	SERIES	OUTSIDE/INSIDE	DESCRIPTION
Storeroom	**C880**	 F86	• Deadlocking latch bolt retracted by key outside. • Deadlocking latch bolt operated by trim inside • Outside trim always inoperable.
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).

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.

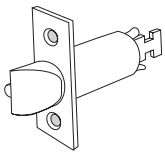
- Solenoids are rated for continuous duty.
- Repeated operation at voltage exceeding +/–10% is not recommended.

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

- A microswitch attached to the chassis is activated when the inside lever rotates. 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.

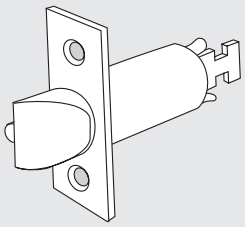
When ordering specify **RX**. Example: C880EURX.

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

1/2" THROW LATCH BOLT			
 DORMA FUNCTION (ANSI)	PART NUMBER		
	2-3/4" Backset 1-1/8"W × 2-1/4"H	3-3/4" Backset 1-1/8"W × 2-1/4"H	5" Backset 1-1/8"W × 2-1/4"H
810 (F75) – Passage/Closet	**10202**	10302	10502
840 (F76A) – Privacy, Bedroom or Bath	**10202**	10302	10502
844 – Hospital Privacy	**10202**	10302	10502
830 (F77A) – Patio	**10252**	10352	10552
872 (F80) – Communicating	**10252**	10352	10552
850 (F82A) – Entry/Office	**10252**	10352	10552
870 (F84) – Classroom	**10252**	10352	10552
880 – (F86) – Storeroom	**10252**	10352	10552
882 – (F87) Asylum	**10252**	10352	10552
860 – (F88) Apartment	**10252**	10352	10552
812 (F89) – Exit	**10252**	10352	10552
873 (F90) – Corridor	**10252**	10352	10552
866 (F91) – Store Door	**10252**	10352	10552
855 (F92) – Service Station	**10252**	10352	10552
885 (F93) – Faculty Restroom/Hotel	**10252**	10352	10552
853 (F109) – Entry	**10252**	10352	10552
877 (F110) – Classroom Intruder	**10252**	10352	10552
825 (F111) – Exit/Communicating Passage	**10252**	10352	10552
848 (F112) – Exit/Communicating Storeroom	**10252**	10352	10552
865 (F113) – Exit/Communicating Classroom	**10252**	10352	10552
880EL – Electrically Locked Fail Safe	**10252**	10352	10552
880EU – Electrically Unlocked Fail Secure	**10252**	10352	10552
801 – Dummy Trim One Side	—	—	—
802 – Dummy Trim Two Sides	—	—	—

NOTE: 2-3-4" backset with 1/2" throw is the C800 Series default.

1/2" Throw Latch Bolt, 2-3/8" Backset



10100 — 1" × 2-1/4" optional latch bolt with spring latch, square corner. Use with C810, 840, 844 lock functions.

10101 — 1" × 2-1/4" optional latch bolt with spring latch, 1/4" radius corner. Use with C810, 840, 844 lock functions.

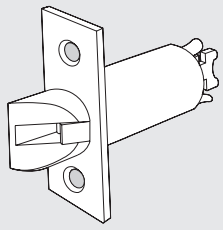
10102 — 1-1/8" × 2-1/4" optional latch bolt with spring latch, square corner. Use with C810, 840, 844 lock functions.

10150 — 1" × 2-1/4" optional latch bolt with dead latch, square corner. Use with all other lock functions.

10151 — 1" × 2-1/4" optional latch bolt with dead latch, 1/4" radius corner. Use with all other lock functions.

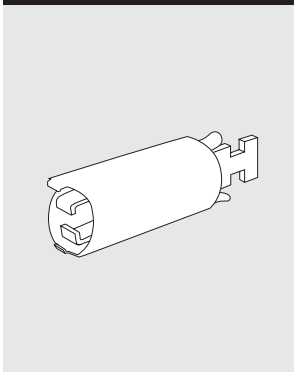
10152 — 1-1/8" × 2-1/4" optional latch bolt with dead latch, square corner. Use with all other lock functions.

3/4" Throw Latch Bolt



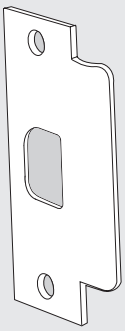
18262 — 1-1/8" × 2-1/4" optional latch bolt with 2-3/4" backset. Use with all C800 Series lock functions. Available in 605 and 626 finishes. For others, consult factory.

Backset Links



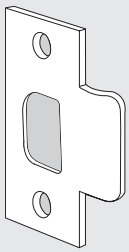
76016007 — Link combines with default 2-3/4" backset latch bolt to provide 3-3/4" backset. Use with all C800 Series lock functions.
76016008 — Link combines with default 2-3/4" backset latch bolt to provide 5" backset. Use with all C800 Series lock functions.

4-7/8" Strike



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

T-Strike

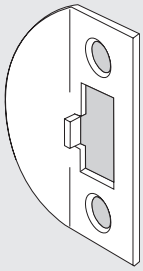


Dust box included.

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.

Full Lip Strike



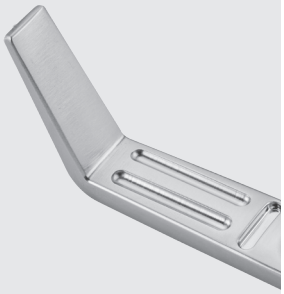
5201 — 1-5/8" × 2-1/4" full curved lip strike with square corners. 1-1/8" lip length. Optional for all C800 Series locks.
5202 — 1-5/8" × 2-1/4" full curved lip strike with 1/4" radiused corners. 1-1/8" lip length. Optional for all C800 Series locks.

Stamped Rose



D Rose — The word **LOCK** is stamped on the inside rose for double cylinder functions. Available on C860 and C877. Specify **D Rose** and finish.

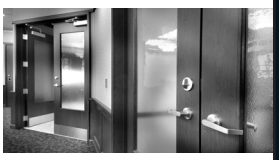
Tactile Warning (Knurling)



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

DORMA

www.dorma-usa.com



Door Hardware



Glass Systems



Door Automation



Revolving Doors



Moveable Walls

DORMA Americas

DORMA Architectural Hardware
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
Astrónomos 28, Col. Escandón
México, D.F. 11800
Del. Miguel Hidalgo
TEL: 5255 5272 6937
FAX: 5255 5272 6948
operacion@dorma.com.mx

07000408 USA 4.12CT 2.5M Subject to change without notice.