



Commercial Hardware

# CL4500 Series

---

Cylindrical Leversets



MAAX™ IS A TRADEMARK OF MAAX HARDWARE INC.

1-844-666-MAAX | [www.maaxhardware.com](http://www.maaxhardware.com)  
Ontario, Canada

- **QUALITY**
- **SECURITY**
- **AESTHETICS**

**CL4500**  
**Cylindrical Leversets**

**TABLE OF CONTENTS**

▪ Overview. . . . .	02
▪ Features and Standards. . . . .	03
▪ CL4500 (Mechanical)- Specifications. . . . .	04
▪ CL4500 (Mechanical)- Functions. . . . .	05-06
▪ CL4500 (Electrified)- Specifications. . . . .	07
▪ CL4500 (Electrified)- Functions. . . . .	08
▪ CL4500- Trims. . . . .	09
▪ CL4500- Finishes. . . . .	10
▪ CL4500- How to Order. . . . .	10
▪ CL4500- Latches. . . . .	11
▪ CL4500- Strikes. . . . .	11
▪ Cylinders, Cores, and Keyways. . . . .	12-13

**OVERVIEW**

**QUALITY:**

- Conforms to ANSI/BHMA A156.2 standard, Series 4000, Grade-1
- Heavy duty cylindrical chassis
- Heavy duty spring provides long life and reduces lever sag
- Limited 10 years warranty on mechanical components

**SECURITY:**

- Offers high security features to discourage abuse and intrusion
- Lever is protected from damages by a clutch free wheeling design which provides vandal resistance

**AESTHETICS:**

- A range of trim designs and finishes that complement different architectural design applications

# CL4500 Cylindrical Leversets Grade - 1



MAAX CL4500 Series Grade-1 heavy duty cylindrical lever set is designed and engineered for long-lasting performance. When you need a reliable lockset for high-traffic and heavy abuse applications, the CL4500 is your right choice for its exceptional quality and easy installation. MAAX CL4500 Series is available in a variety of trim styles and finishes to fulfill your precise architectural decor requirements.

## FEATURES

- Heavy duty for commercial, industrial, and institutional applications
- Non-handed installation
- Concealed Thru-Bolts (fixed) for proper alignment and easy installation
- Concealed mounting screws
- Clutch free-wheeling design to protect the locked external lever from damages where excessive pressure or abusive force might be applied
- Adjustable mounting plate
- A wide range of functions and the most popular finishes

## STANDARDS

- UL/cUL listed for A label - 3 hours fire rating
- Meets UL 10C positive pressure requirements
- Conforms to ANSI/BHMA A156.2 standard, Series 4000, Grade-1
- All standard levers meet the ADA ANSI A117.1 Accessibility code requirements



## CROSS REFERENCE

MAAX	BEST	CORBIN RUSSWIN	DORMA	FALCON	HAGER	SARGENT	SCHLAGE	YALE
CL4500	9K	CL3300	C800	T, K	3400	10 LINE	ND	5400LN

**Note:** Chart prepared by comparing functions of mortise locks based on data obtained from trade sources. It is not guaranteed nor represented that any specific product exactly equals any other product.

## SPECIFICATIONS

## HANDING:

- Non-handed levers, field reversible installation

## DOOR THICKNESS:

- 1-3/8" (35 mm) to 2" (51.4 mm) - standard

## STANDARD DOOR PREP:

- 2-1/8" (54 mm) diameter (bore)
- 1" (25.4 mm) latch hole diameter (cross bore)

## BACKSET:

- 2-3/4" (70 mm) - standard
- 2-3/8" (60.3 mm), 3-3/4" (95.2 mm), 5" (127 mm) - optional

## LATCHBOLT:

- 1/2" (12.7 mm) throw, stainless steel - standard
- 3/4" (19 mm) throw anti friction - optional
- Auxiliary deadlocking on keyed functions to prevent manipulation when door is closed

## FACEPLATE:

- 1-1/8" (29 mm) X 2-1/4" (57 mm), square corner - standard
- 1" (25.4 mm) X 2-1/4" (57 mm), square corner - optional

## CHASSIS:

- Heavy gauge steel chassis, zinc dichromated for corrosion resistance
- Thru-Bolt mounting (fixed) for proper alignment and easy installation
- Clutch free wheeling design on keyed functions to protect external lever against excessive pressure or manipulation when locked

## CYLINDER AND KEYWAY:

- Conventional 6-pin solid brass, Schlage "C" keyway, keyed different - standard
- Other keying options available from factory
- Small format interchangeable core (SFIC), BEST "F" keyway, keyed different - optional
- Other SFIC keying options including 6 & 7-pin cores and other brands keyways
- Large format interchangeable core (LFIC), Schlage "C" keyway, keyed different - optional
- SFIC and LFIC cores ordered separately

## KEYS:

- Two brass keys per lock

## KEYING:

- Can be master keyed (MK) and grand master keyed (GMK)

## STRIKE:

- ASA Strike 1-1/4" (31.4 mm) X 4-7/8" (123.5 mm) X 3/32" (2.4 mm) - standard
- With plastic strike box
- T Strike and Full Lip Strike - optional

CURVA LEVER (CV)  
CL4540-CV

## EXPOSED TRIM:

- Lever: Pressure cast zinc
- Rose: 3-1/2" (90 mm) diameter. Wrought brass

## ROSE STYLE:

- Rose (R) - standard

## LEVER STYLE:

- ENTRADA (ED), CURVA (CV) and RECTO (RT)
- See Trims for details

## FASTENERS:

- Thru-bolt mounted trim
- No exposed screws

## FUNCTIONS:

- A variety of functions including, but not limited to, Passage, Dummy, Office/Entry, Classroom, Storeroom, Institution and Privacy
- See Functions for detailed list

## FINISHES:

- US3 (605) Bright brass clear coated
- US4 (606) Satin brass, clear coated
- US10B (613) Dark satin bronze, clear coated
- US15 (619) Satin Nickel, clear coated
- US26 (625) Bright chromium plated
- US26D (626) Satin chromium plated
- Other finishes available with longer lead time

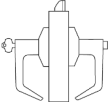
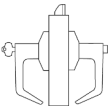
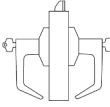
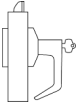
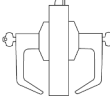
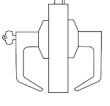
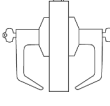
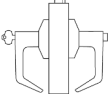
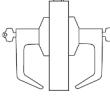
## OPTIONS:

- Lead lining (Rose)
- Tactile warning

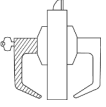
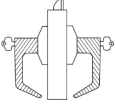
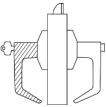


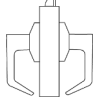

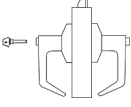
## WARRANTY:

- Limited 10 years on hardware components

**FUNCTIONS**

Function	Model No.	ANSI	Function Description	
<b>KEYED FUNCTIONS</b>				
	Entry/Office	CL4540	F82	<ul style="list-style-type: none"> <li>▪ Deadlocking latchbolt retracted by lever either side, except when outside lever is locked by push button inside.</li> <li>▪ Push button released by key in the outside lever or by turning inside lever.</li> <li>▪ Closing door does not release push button.</li> <li>▪ Inside lever always free for immediate egress.</li> </ul>
	Entry	CL4543	F109	<ul style="list-style-type: none"> <li>▪ Deadlocking latchbolt retracted by lever either side, except when outside lever is locked by push button inside.</li> <li>▪ Key outside or turning inside lever releases push button and unlocks outside lever, except when inside button is pushed and turned to keep outside lever locked.</li> <li>▪ Inside button must be manually turned to unlock outside lever.</li> <li>▪ Inside lever always free for immediate egress.</li> </ul>
	Apartment	CL4560	F88	<ul style="list-style-type: none"> <li>▪ Deadlocking latchbolt retracted by lever either side, except when outside lever is locked by key inside.</li> <li>▪ When outside lever locked, key outside retracts latchbolt.</li> <li>▪ Key inside unlocks outside lever.</li> <li>▪ Inside lever always free for immediate egress.</li> </ul>
	Exit, Communicating Classroom	CL4563	F113	<ul style="list-style-type: none"> <li>▪ Deadlocking latchbolt retracted by lever, except when lever is locked by key.</li> <li>▪ Key locks and unlocks lever.</li> <li>▪ Lever on one side, blank plate on the other side.</li> </ul>
	Store Door	CL4567	F91	<ul style="list-style-type: none"> <li>▪ Deadlocking latchbolt retracted by lever either side.</li> <li>▪ Key in either lever locks or unlocks both levers.</li> </ul>
	Classroom	CL4570	F84	<ul style="list-style-type: none"> <li>▪ Deadlocking latchbolt retracted by lever either side, except when outside lever is locked by key outside.</li> <li>▪ Outside lever unlocked by key outside.</li> <li>▪ Inside lever always free for immediate egress.</li> </ul>
	Communicating	CL4572	F80	<ul style="list-style-type: none"> <li>▪ Deadlocking latchbolt retracted by lever either side.</li> <li>▪ Key in lever locks or unlocks its own lever independently.</li> <li>▪ Must be used only in rooms that have other exits.</li> </ul>
	Corridor/Dormitory Door	CL4573	F90	<ul style="list-style-type: none"> <li>▪ Deadlocking latchbolt retracted by lever either side except when outside lever is locked by key outside or push button inside.</li> <li>▪ Push button released by turning inside lever or by closing door.</li> <li>▪ When outside lever is locked by key, it can be unlocked only by key.</li> <li>▪ Inside lever always free for immediate egress.</li> </ul>
	Classroom Intruder	CL4576	F110	<ul style="list-style-type: none"> <li>▪ Deadlocking latchbolt retracted by lever either side except when outside lever is locked by key either side.</li> <li>▪ Outside lever unlocked by key either side.</li> <li>▪ Inside lever always free for immediate egress.</li> </ul>

**FUNCTIONS (CONTINUED)**

Function	Model No.	ANSI	Function Description	
<b>KEYED FUNCTIONS (CONTINUED)</b>				
	Storeroom/ Closet	CL4580	F86	<ul style="list-style-type: none"> <li>▪ Deadlocking latchbolt retracted by key in outside lever or by rotating inside lever.</li> <li>▪ Outside lever always rigid.</li> <li>▪ Inside lever always free for immediate egress.</li> </ul>
	Utility/ Asylum/ Institutional	CL4582	F87	<ul style="list-style-type: none"> <li>▪ Deadlocking Latchbolt retracted by key in lever either side.</li> <li>▪ Both levers are always rigid.</li> <li>▪ Must be used only in rooms that have other exits.</li> </ul>
	Faculty Restroom/ Hotel	CL4583	F93	<ul style="list-style-type: none"> <li>▪ Latchbolt retracted by lever inside or by key outside.</li> <li>▪ Depressing push button inside shuts out all keys except emergency key and projects visual occupancy indicator in the cylinder face.</li> <li>▪ Push button release by turning inside lever or by closing door.</li> <li>▪ Outside lever always rigid.</li> <li>▪ Inside lever always free for immediate egress.</li> </ul>
<b>NON-KEYED FUNCTIONS</b>				
	Dummy Trim/One Side	CL4501	---	<ul style="list-style-type: none"> <li>▪ Lever used as pull or matching trim on pair of doors. One side only.</li> <li>▪ Trim is surface mounted by single screw or mounting wood screws.</li> </ul>
	Dummy Trim/Two Sides	CL4502	---	<ul style="list-style-type: none"> <li>▪ Lever used as pull or matching trim on pair of doors. Two sides of door.</li> <li>▪ Trim is surface mounted by single screw or mounting wood screws.</li> </ul>
	Passage/ Closet	CL4510	F75	<ul style="list-style-type: none"> <li>▪ Latchbolt retracted by lever either side.</li> <li>▪ Both levers always free.</li> </ul>
	Exit/ Communi- cating Passage	CL4513	F111	<ul style="list-style-type: none"> <li>▪ Latchbolt retracted by lever inside.</li> <li>▪ Lever on one side, blank plate on the other side.</li> </ul>
	Privacy, Bedroom/ Bath	CL4530	F76A	<ul style="list-style-type: none"> <li>▪ Latchbolt retracted by lever either side.</li> <li>▪ Outside lever locked by push/turn button inside.</li> <li>▪ Outside lever unlocked by emergency release tool outside, by turning inside lever, or by closing door.</li> <li>▪ Inside lever always free for immediate egress.</li> </ul>

## SPECIFICATIONS

### APPLICATIONS:

CL4500 Electrified leverset provides remote locking and unlocking to doors in security restricted areas where security access control is necessary. Common applications are:

Common applications are:

- Security rooms
- Pharmaceutical storage rooms
- Cashier rooms
- Telecommunication rooms
- Stair towers

### FEATURES:

- Integral continuous duty solenoid
- Interface with life safety systems
- Used with numerous regulating devices such as card readers, key pad push buttons and central control rooms
- Inside lever always free for immediate egress
- Deadlocking latch
- Key override retracts latchbolt even if the latchbolt is electrically locked

### ELECTRICAL REQUIREMENTS:

- Voltage: 12 VDC or 24 VDC (Specify when ordering)
- Current:  
0.32A at 12 VDC ± 10%  
0.16A at 24 VDC ± 10%

### ELECTRIFIED FUNCTIONS:

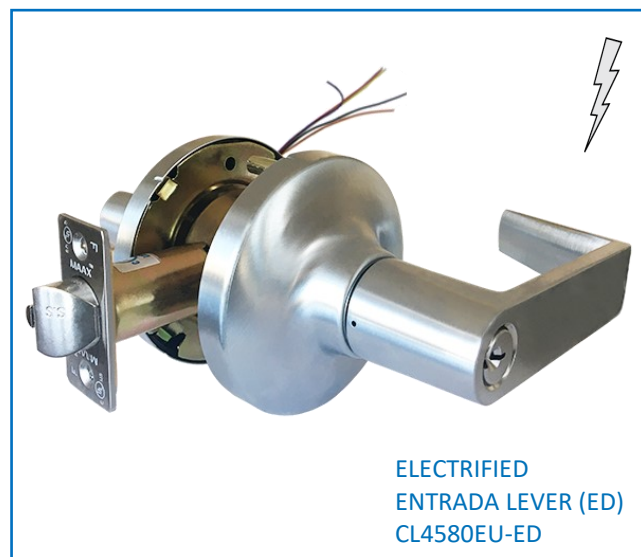
- Electrically locked EL (fail safe)
- Electrically unlocked EU (fail secure)

### ELECTRIFIED OPTIONS:

- Request to exit (RX):  
SPDT micro switch monitors the activation of inside lever and sends a signal to shunt external alarms to allow for non disruptive means of immediate egress  
Voltage: 125VAC  
Current: 1 AMP  
Wire Leads: 22 AWG UL1007

### CYLINDER AND KEYWAY:

- Conventional 6-pin solid brass, Schlage "C" keyway, keyed different - standard
- Other keying options available from factory
- Small format interchangeable core (SFIC), BEST "F" keyway, keyed different - optional
- Other SFIC keying options including 6 & 7-pin cores and other brands keyways
- Large format interchangeable core (LFIC), Schlage "C" keyway, keyed different - optional
- SFIC and LFIC cores ordered separately



### KEYS:

- Two brass keys per lock

### KEYING:

- Can be master keyed (MK) and grand master keyed (GMK)

### EXPOSED TRIM:

- Lever: Pressure cast zinc
- Rose: 3-1/2" (90 mm) diameter. Wrought brass

### ROSE STYLE:

- Rose (R) - standard

### LEVER STYLE:

- ENTRADA (ED), CURVA (CV) and RECTO (RT)
- See Trims for details

### FASTENERS:

- Thru-bolt mounted trim
- No exposed screws

### FINISHES:

- US3 (605) Bright brass clear coated
- US4 (606) Satin brass, clear coated
- US10B (613) Dark satin bronze, clear coated
- US15 (619) Satin Nickel, clear coated
- US26 (625) Bright chromium plated
- US26D (626) Satin chromium plated
- Other finishes available with longer lead time

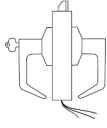
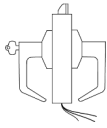
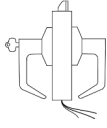
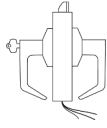
### OPTIONS:

- Lead lining (Rose)
- Tactile warning

### WARRANTY:

- Limited 10 years on hardware components
- Limited 1 year on electrified components

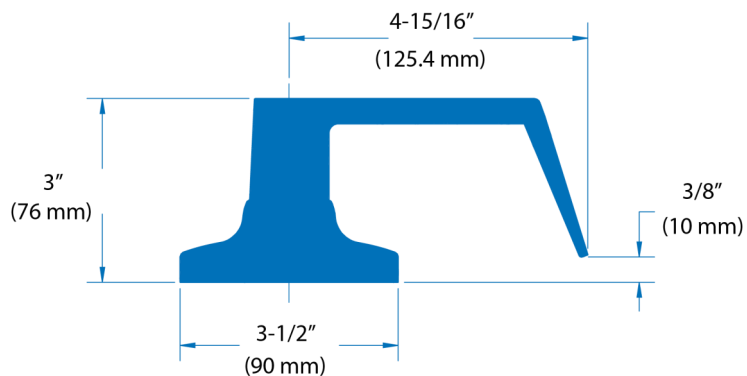
**FUNCTIONS**

Function	Model No.	ANSI	Function Description
<b>KEYED FUNCTIONS</b>			
	Electrically Locked Fail Safe CL4580EL	---	<ul style="list-style-type: none"> <li>Lever outside continuously locked by 12 VDC or 24 VDC.</li> <li>Deadlocking latchbolt retracted by key outside when lock is energized.</li> <li>Switch or power failure unlocks outside lever and allows lever to retract latchbolt.</li> <li>Inside lever always free for immediate egress.</li> </ul>
	Electrically Unlocked Fail Secure CL4580EU	---	<ul style="list-style-type: none"> <li>Lever outside continuously locked.</li> <li>Lever outside unlocked by 12 VDC or 24 VDC.</li> <li>Deadlocking latchbolt retracted by key outside or by lever inside.</li> <li>Inside lever always free for immediate egress.</li> </ul>
	Electrically Locked Fail Safe w/ Request to Exit CL4580ELRX	---	<ul style="list-style-type: none"> <li>Lever outside continuously locked by 12 VDC or 24 VDC.</li> <li>Deadlocking latchbolt retracted by key outside when lock is energized.</li> <li>Switch or power failure unlocks outside lever and allows lever to retract latchbolt.</li> <li>Inside lever always free for immediate egress.</li> <li>Rotating inside lever cycles SPDT switch to signal use of the door.</li> </ul>
	Electrically Unlocked Fail Secure w/ Request to Exit CL4580EURX	---	<ul style="list-style-type: none"> <li>Lever outside continuously locked.</li> <li>Lever outside unlocked by 12 VDC or 24 VDC.</li> <li>Deadlocking latchbolt retracted by key outside or by lever inside.</li> <li>Inside lever always free for immediate egress.</li> <li>Rotating inside lever cycles SPDT switch to signal use of the door.</li> </ul>

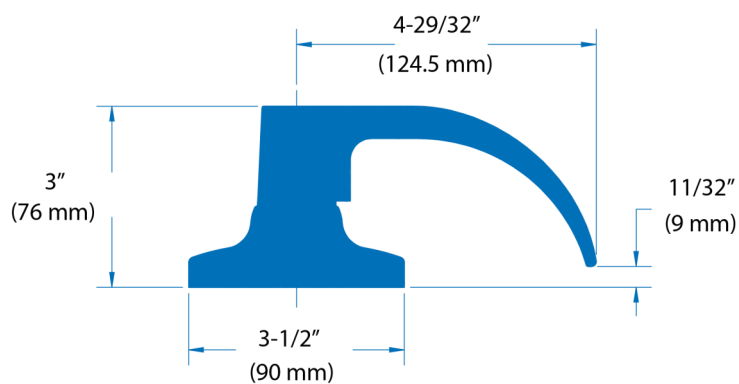


TRIMS

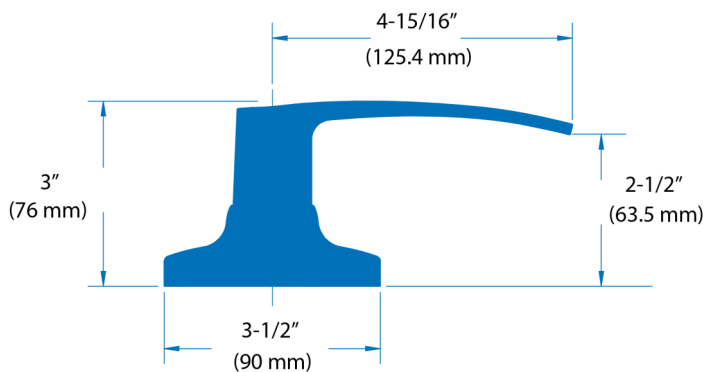
ENTRADA (ED)





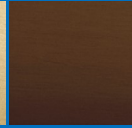



CURVA (CV)



RECTO (RT)



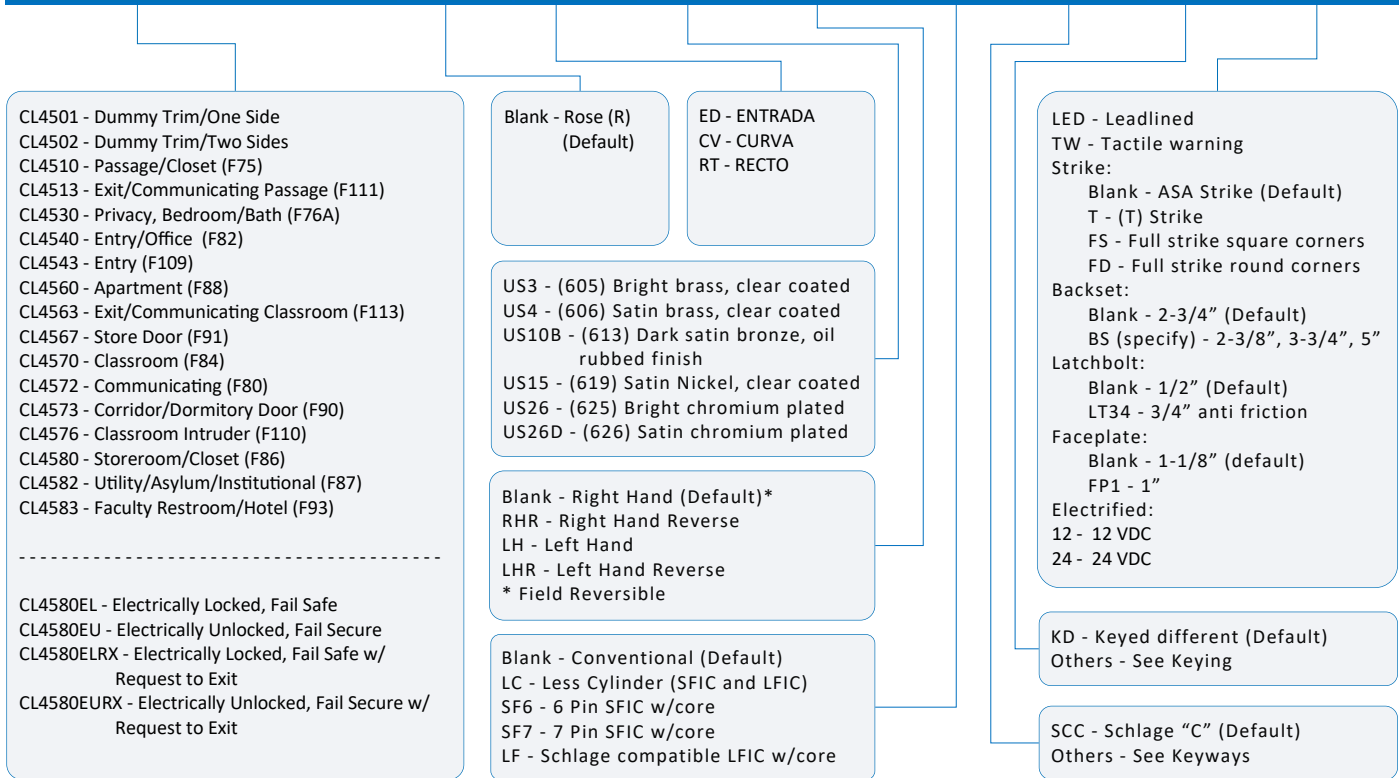
**FINISH OPTIONS**

Finish Options						
Color	Bright Brass	Satin Brass	Oil rubbed Bronze	Satin Nickel	Bright Chrome	Satin Chrome
ANSI/BHMA Number	605	606	613	619	625	626
US Number	US3	US4	US10B	US15	US26	US26D

▪ Other finishes available with longer lead time and minimum order quantity

**HOW TO ORDER CL4500 LEVERSET**

CL4540		ED	US26D			SCC	KD	
Model No./Function	Rose Style	Lever Style	Finish	Handing	Cylinder	Keyway	Keying	Options

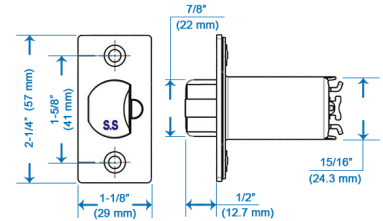


LATCHES

CL4500 CYLINDRICAL LEVERSET - LATCHES

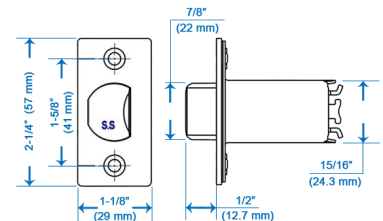
Item No. 400101 Dead Latch - keyed functions

- Faceplate: 1-1/8" (29 mm) X 2-1/4" (57 mm) - standard  
1" (25.4 mm) X 2-1/4" (57 mm) - optional
- Backset: 2-3/4" (70 mm) - standard  
2-3/8" (60.3 mm) - optional  
Extension kit for 3-3/4" (95.2 mm), 5" (127 mm) - optional



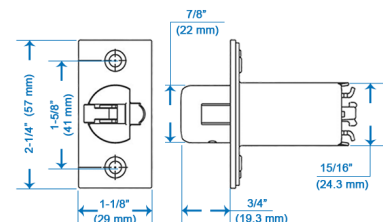
Item No. 400102 Spring Latch (w/out auto release) - passage

- Item No. 400103 Spring Latch (w/ auto release) - privacy
- Faceplate: 1-1/8" (29 mm) X 2-1/4" (57 mm) - standard  
1" (25.4 mm) X 2-1/4" (57 mm) - optional
  - Backset: 2-3/4" (70 mm) - standard,  
2-3/8" (60.3 mm) - optional  
Extension kit for 3-3/4" (95.2 mm), 5" (127 mm) - optional



Item No. 400104 Fire Dead Latch - Optional

- 3/4" Throw, for use on pair fire doors
- Faceplate: 1-1/8" (29 mm) X 2-1/4" (57 mm) - standard
- Backset: 2-3/4" (70 mm) - standard



STRIKES

CL4500 CYLINDRICAL LEVERSET - STRIKES

Item No. 400501  
ASA Strike - Standard

- Size:  
1-1/4" (31.4 mm) X 4-7/8" (123.5 mm) X  
3/32" (2.4 mm) X 1-5/16" (33.5 mm) lip to  
Center
- With plastic strike box



Item No. 400502  
T Strike - Optional

- Size:  
1-1/8" (28.2 mm) X 2-3/4" (69.5 mm) X  
5/64" (2.0 mm) X 1-5/16" (33.5 mm) lip to  
Center
- With plastic strike box



Item No. 400503  
Full Lip Strike (Round Corner) - Optional

- Size:  
1-5/8" (41.0 mm) X 2-1/4" (57.0 mm) X  
5/64" (2.0 mm)
- With plastic strike box



Item No. 400504  
Full Lip Strike (Square Corner) - Optional

- Size:  
1-5/8" (41.0 mm) X 2-1/4" (57.0 mm) X  
5/64" (2.0 mm)
- With plastic strike box



**STANDARD KEY-IN-LEVER CYLINDER**

FEATURES:

- 6 pin conventional Key-in-lever cylinder - Standard
- Keyway: Schlage "C" keyway - Standard
- Cylinder length: 1-1/8" (29 mm) or 1-1/4" (32 mm)
- Keying: Keyed different (KD) - Standard
- Tailpiece: Lever tailpiece - Standard
- Keying: Keyed different (KD) - Standard
- Optional: Other keyways and Master keying

MATERIAL:

- Cylinder body: Solid brass
- Cylinder face: Brass

**INTERCHANGEABLE CYLINDER (IC)**

FEATURES:

- Interchangeable cylinder (IC) is an optional mortise cylinder offering immediate re-keying by simply using a special "control key" to replace the core without removing the cylinder housing
- "SFIC" Small format interchangeable core:
  - 6 pin, 1-1/4" (32 mm) cylinder length
  - 7 pin, 1-3/8" (35 mm) cylinder length
- "LFIC" Large format interchangeable core:
  - 6 pin, 1-1/2" (38 mm) cylinder length
  - 7 pin, 1-1/2" (38 mm) cylinder length
- Keyway: See Keyways and Keying
- Cores are ordered separately

MATERIAL:

- Cylinder body: Solid brass
- Cylinder face: Brass



Conventional Cylinder



SFIC Cylinder w/Core















LFIC Cylinder w/Core

CYLINDER CORES

		
<p>KEY-IN-LEVER Conventional Core</p>	<p>SFIC Core</p>	<p>LFIC Core</p>

**KEYWAYS**

CONVENTIONAL KEY-IN-LEVER CYLINDER		
KEYWAY		SUFFIX
SCHLAGE C (Default)		SCC
ARROW AR1		AR1
CORBIN 60		CO60
CORBIN L4		COL4
KWIKSET		KW1
RUSSWIN D1		RUD1
SARGENT LA		SALA
SCHLAGE E		SCE
SCHLAGE F		SCF
WEISER E		WEE
YALE E1R		YAER
YALE GA		YAGA
SMALL FORMAT INTERCHANGEABLE CORE (SFIC)		
KEYWAY		SUFFIX
BEST F 7-pin (Default)		BF7
BEST A, B, C, D, E, G, H, J, K, L, M, Q		BA6, BA7, BB7, BC7, BD7, BE7, BG7, BH7, BJ7, BK7, BL7, BM7, BQ7
LARGE FORMAT INTERCHANGEABLE CORE (LFIC)		
KEYWAY		SUFFIX
SCHLAGE C (Default)		SCC

**KEYING**

KEYING ABBREVIATIONS	
KEYWAY	SUFFIX
Keyed Different (Default)	KD
Keyed Alike	KA
"0" Zero Bitted	K0
Master Key	MK
Grand Master Key	GMK
Construction Master Key	CMK
KEYING OPTIONS (CONVENTIONAL)	
<ul style="list-style-type: none"> <li>▪ Keyed alike and "0" bitted cylinders (6 pin only)</li> <li>▪ Master keyed: Must specify quantity of master keys</li> <li>▪ Construction master keyed: Schlage C, E &amp; F</li> <li>▪ Submit master keying form</li> <li>▪ Extra cut keys</li> <li>▪ Key marking</li> <li>▪ Cylinder marking</li> <li>▪ Bitting lists (ordered separately)</li> <li>▪ Check availability of keyways at the time of ordering</li> </ul>	
KEYING OPTIONS (SFIC)	
<ul style="list-style-type: none"> <li>▪ Cores are keyed different unless otherwise specified</li> <li>▪ Keyed alike</li> <li>▪ Construction cores</li> <li>▪ Master keyed: Must specify quantity of master keys, control keys or additional change keys</li> <li>▪ Key marking</li> <li>▪ Core marking</li> <li>▪ Do not duplicate</li> <li>▪ Bitting lists (ordered separately)</li> </ul>	
KEYING OPTIONS (LFIC)	
<ul style="list-style-type: none"> <li>▪ Cores are zero bitted unless otherwise specified</li> <li>▪ Keyed different</li> <li>▪ Keyed alike</li> <li>▪ Master keyed: Must specify quantity of master keys, control keys or additional change keys</li> <li>▪ Construction master keyed</li> <li>▪ Key marking</li> <li>▪ Core marking</li> <li>▪ Bitting lists (ordered separately)</li> </ul>	



Commercial Hardware

## CL4500 Series

Cylindrical Leversets

MX-CL4500-20

© 2020 MAAX HARDWARE INC.

MAAX™ IS A TRADEMARK OF MAAX HARDWARE INC.

1-844-666-MAAX | [www.maaxhardware.com](http://www.maaxhardware.com)  
Ontario, Canada