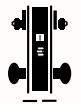


## Lock Functions | Single Cylinder Deadbolt Functions

Schlage	ANSI	Schlage	ANSI
	<b>L9453 F20</b> <b>LV9453</b> <b>Entrance Lock</b> Latchbolt retracted by knob/lever from either side unless outside is locked by 20° rotation of thumbturn. Deadbolt thrown or retracted by 90° rotation of thumbturn. When locked, key outside or knob/lever inside retracts deadbolt and latchbolt simultaneously. Outside knob/lever remains locked until thumbturn is restored to vertical position. Throwing deadbolt automatically locks outside knob/lever. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always free for immediate egress.		<b>L9485 LV9485</b> <b>Faculty / Hotel / Restroom Lock</b> Latchbolt retracted by key outside or by knob/lever inside. Outside knob/lever always fixed. Deadbolt thrown or retracted by inside thumbturn. When deadbolt is thrown all keys become inoperative except emergency or display keys. Turning inside knob/lever retracts both deadbolt and latchbolt simultaneously. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always free for immediate egress.
	<b>L9456 F13</b> <b>LV9456</b> <b>Corridor Lock</b> Latchbolt retracted by knob/lever from either side. Deadbolt thrown or retracted by key outside or inside thumbturn. Throwing deadbolt locks outside knob/lever. Turning inside knob/lever simultaneously retracts deadbolt and latchbolt and unlocks outside knob/lever. Inside lever is always free for immediate egress.		<b>L9486 F15</b> <b>LV9486</b> <b>Faculty / Hotel / Restroom Lock</b> <b>"Do Not Disturb" Indicator</b> Latchbolt retracted by key outside or by knob/lever inside. Outside knob/lever always fixed. Deadbolt thrown or retracted by inside thumbturn. When deadbolt is thrown "Do Not Disturb" plate is displayed. All keys become inoperative except emergency or display keys. Turning inside knob/lever retracts both deadbolt and latchbolt simultaneously. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always free for immediate egress.
	<b>L9465</b> <b>Closet/Storeroom Lock</b> Latchbolt retracted by knob/lever from either side. Deadbolt thrown or retracted by key outside.		<b>L9486 x L583-375</b> <b>LV9486 x L583-375</b> <b>L9486 with "Occupied" Indicator</b> Latchbolt retracted by key outside or by knob/lever inside. Outside knob/lever always fixed. Deadbolt thrown or retracted by inside thumbturn. When deadbolt is thrown "Occupied" plate is displayed and all keys become inoperative except emergency keys. Turning inside knob/lever simultaneously retracts both deadbolt and latchbolt. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always free for immediate egress. (Previously XL11-580)
	<b>L9473 F21</b> <b>Dormitory/Bedroom Lock</b> Latchbolt retracted by knob/lever from either side. Deadbolt thrown or retracted by key outside or thumbturn inside.		<b>L9496</b> <b>Privacy with "Occupied" Indicator</b> Knob/lever retracts latchbolt from either side. Deadbolt thrown or retracted by key outside (retraction by key required in the event of an emergency) or inside thumbturn. Throwing deadbolt locks outside knob/lever and displays "Occupied" plate. Rotating inside knob/lever simultaneously retracts both deadbolt and latchbolt, and unlocks outside knob/lever. Inside lever is always free for immediate egress. (Previously XL11-885)
	<b>L9480</b> <b>LV9480</b> <b>Storeroom Lock With Deadbolt</b> Latchbolt retracted by key outside or by lever or knob inside. Outside knob/lever always fixed. Deadbolt thrown or retracted by key outside or thumbturn inside. Turning inside knob/lever simultaneously retracts both deadbolt and latchbolt. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always free for immediate egress. (Previously XL11-591)		
	<b>L9485 x XL11-557</b> <b>Prison Function Lock</b> Latch retracted by key outside or knob inside. Outside knob always free spinning. Deadbolt only thrown or retracted by guard's key. Inside knob becomes fixed when deadbolt is thrown. Prisoner's key only retracts latchbolt. Furnished standard with tamper-resistant Torx screws. Specify per XL11-557.		

\*In a double-door application where the dummy will be used as the strike order 10-091 Armored Front Strike separately.

## Lock Functions | Double Cylinder Non-Deadbolt Functions

Schlage	ANSI
 <b>L9060</b> <b>LV9060</b>	<b>F09</b>
<b>Apartment Entrance Lock</b>	Latchbolt retracted by knob/lever from either side unless outside is locked by key from inside. When locked, latchbolt retracted by key outside or knob/lever inside. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always free for immediate egress.
 <b>L9071</b> <b>LV9071</b>	<b>Classroom Security Lock</b> Latchbolt retracted by knob/lever from either side unless outside is locked by key from either side. When locked, latchbolt retracted by key outside or knob/lever inside. Auxiliary latch deadlocks latchbolt when door is locked. Inside lever is always free for immediate egress.
 <b>L9077</b> <b>LV9077</b>	<b>Classroom Security Holdback Lock</b> Latchbolt retracted by knob/lever from either side unless outside is locked by key from either side. When locked, latchbolt retracted by key outside or knob/lever inside. Auxiliary latch deadlocks latchbolt when door is locked. Depress inside knob/lever and turn key 360° for holdback feature. Inside lever is always free for immediate egress.
 <b>L9082</b> <b>LV9082</b>	<b>F30</b> <b>Institution Lock</b> Latchbolt retracted by key from either side. Knob/lever on both sides always inoperative. Auxiliary latch deadlocks latchbolt when door is closed.
 <b>L9082EL</b> <b>L9082EU</b> <b>L9082 Electrically Locked or Electrically Unlocked Both Sides*</b>	<b>L9082 Electrically Locked or Electrically Unlocked Both Sides*</b> EL: Outside and inside knob or lever continually locked electrically. Latchbolt retracted by key either side. Switch or power failure allows outside and inside knob/lever to retract latchbolt. Auxiliary latch deadlocks latchbolt when door is closed. EU: Outside and inside knob/lever unlocked electrically. Latchbolt retracted by key either side. Switch or power failure keeps inside and outside knob/lever locked. Auxiliary latch deadlocks latchbolt when door is closed. (Previously XL11-452)

## Lock Functions | Double Cylinder Deadbolt Functions

Schlage	ANSI
 <b>L9457</b> <b>LV9457</b>	<b>Classroom Security Lock with Deadbolt</b> Latchbolt retracted by knob/lever from either side. Deadbolt thrown or retracted by key from either side. Throwing deadbolt locks outside knob/lever. Turning inside knob/lever simultaneously retracts deadbolt and latchbolt, and unlocks outside knob/lever. Inside lever is always free for immediate egress.
 <b>L9466</b> <b>Store/Utility Room Lock with Deadbolt*</b>	<b>F14</b> Latchbolt retracted by knob/lever from either side. Deadbolt thrown or retracted by key from either side.
 <b>L9482 x XL11-943</b> <b>LV9482 x XL11-943</b>	<b>Institution Lock with Deadbolt*</b> Latchbolt retracted by key from either side. Knob/lever on both sides always inoperative. Deadbolt thrown or retracted by key either side. Auxiliary latch deadlocks latchbolt when door is closed. Specify per XL11-543.

In a double-door application where the dummy will be used as the strike order 10-091 Armored Front Strike separately.

\*Caution: Double cylinder locks on residences and any door in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

## Lock Functions | Full Mortise Deadlocks

Schlage	ANSI
	<b>L9460 F17</b> <b>Cylinder x Thumturn Lock</b> Deadbolt thrown or retracted by key outside or thumturn inside.
	<b>L9462 F16</b> <b>Double Cylinder Lock*</b> Deadbolt operated by key from either side.
	<b>L9463</b> <b>Classroom Lock</b> Deadbolt thrown or retracted by key from outside. Inside thumturn cylinder retracts deadbolt, but cannot project it.
	<b>L9464 F18</b> <b>Cylinder Lock</b> Deadbolt thrown or retracted by key from one side. No trim on opposite side.
	<b>L9460 x XL11-635</b> <b>L9460 with Pull</b> Knob/lever both sides fixed. Deadbolt thrown or retracted by key outside or thumturn inside.
	<b>L9460 x XL11-886</b> <b>Single Cylinder Deadlock with Pull</b> Deadbolt thrown or retracted by key outside or thumturn inside. No latch, but inside knob or lever is spring-loaded. Rotating inside knob/lever also retracts deadbolt. Fixed outside knob/lever.
	<b>L9462 x XL11-886</b> <b>Double Cylinder Deadlock with Pull*</b> Deadbolt thrown or retracted by key from either side. No latch, but inside knob/lever is spring-loaded. Rotating inside knob/lever also retracts deadbolt. Fixed outside knob/lever.
	<b>L9464 x XL11-886</b> <b>Deadlock with Pull</b> Deadbolt thrown or retracted by key from one side. No latch, but inside knob/lever is spring-loaded. Rotating inside knob/lever also retracts deadbolt. Fixed outside knob/lever.

## Lock Functions | Small Mortise Deadlocks

Schlage	ANSI
	<b>L460 E06071</b> <b>Cylinder x Thumturn Lock</b> Deadbolt thrown or retracted by key outside or thumturn inside.
	<b>L462 E06061</b> <b>Double Cylinder Lock*</b> Deadbolt operated by key from either side.
	<b>L463 E06091</b> <b>Classroom Lock</b> Deadbolt thrown or retracted by key from outside. Inside thumturn cylinder retracts deadbolt, but cannot project it.
	<b>L464 E06081</b> <b>Cylinder Lock</b> Deadbolt thrown or retracted by key from one side. No trim on opposite side.
	<b>L480</b> <b>Door Bolt</b> Deadbolt thrown or retracted by thumturn from one side. No trim on opposite site.
	<b>L496</b> <b>Deadbolt with "Occupied" Indicator</b> Deadbolt thrown or retracted by key outside or thumturn inside. When deadbolt is thrown "Occupied" plate is displayed. (Previously XL11-911)

# Schlage L-Series Universal Transformation Instructions

The L9050 universal case can be transformed into nine different functions\* with just a few additional parts.

For some functions, additional parts are not necessary.

ANSI Function	Function Type	Function Description
F04	 L9050 (w/thumbturn) Office	Latchbolt operated by lever either side except when outside lever is made inoperative by a stop or other mechanical means other than key. When outside lever is locked, latchbolt is retracted by key from outside or by operating inside lever. Auxiliary deadlatch.
F01	 L9010 Passage	Latchbolt operated by lever from either side at all times.
F05	 L9070 Classroom	Latchbolt operated by lever either side except when outside lever is locked from outside by key or push button mechanism. When outside is locked latchbolt is retracted by key or by operating key or push button, and outside lever from outside or by operating inside lever. Auxiliary deadlatch.
F07	 L9080 Storeroom	Latchbolt operated by key outside or by operating inside lever. Outside lever always inoperative. Auxiliary deadlatch.
F09	 L9060 Apartment Entrance	Latchbolt operated by lever either side, except when made inoperative by key from inside. When outside is locked latchbolt is retracted by key from outside or by operating inside lever. Auxiliary deadlatch.
F31	 L9080 (less outside cylinder) Exit or Communicating	Latchbolt operated by inside lever. Non-removable blank trim or no trim outside.
F32	 L9071 Classroom Security	Latchbolt retracted by lever either side except when outside lever is locked by key from inside or outside. When outside lever is locked latchbolt is retracted by key either side or by inside lever. Auxiliary deadlatch.
	 L9080 (less outside lever) Service	Latchbolt operated by key outside or by operating inside lever. No outside lever. Auxiliary deadlatch.
	 L9080 (less inside trim) Utility	Latchbolt retracted by key outside; outside lever always inoperative. No inside trim. Auxiliary deadlatch.
	 L9070 (less inside trim) Closet	Latchbolt operated by lever on outside except when outside lever is locked from outside by key. When outside is locked latchbolt is retracted by key or by operating key from outside lever. Auxiliary deadlatch.

\* Assumes Everest cylinders and L9050 as base function (L283-133 Chassis/L9050LB Distributor Lock Case) — only applies to sectional trim (not escutcheon).

Transformation Instructions	Additional Part(s)	
Install cloverleaf cam cylinder on outside; install thumbturn assembly 09-509-027 on inside.	No additional parts required.	
Do not install thumbturn unit 09-509-027 on inside or cylinder outside. Install chassis in the unlocked position.	No additional parts required.	
Install cloverleaf cam cylinder on outside; do not install thumbturn assembly 09-509-027 on inside.	No additional parts required.	
Do not install thumbturn 09-509-027 on inside. Install chassis in the locked position. Replace cloverleaf cam L583-153 with straight cam B502-948 (Everest), L583-255 with K510-680 (IC and SFIC) and install on outside.	Cams B502-948 (Everest), K510-680 (IC and SFIC) or L583-476 or L583-477 for modular cylinders	    B502-948      K510-680      L583-476      L583-477 $1\frac{1}{8}'' / 1\frac{1}{8}'' / 1\frac{5}{8}''$ $1\frac{1}{4}'' / 1\frac{1}{2}'' / 1\frac{3}{4}''$
Do not install thumbturn 09-509-027 on inside. Install cloverleaf cam cylinder on inside. Replace clover leaf cam L583-153 with straight cam B502-948 (Everest), L583-255 with K510-680 (IC and SFIC) and install on outside.	Mortise cylinder assembly and cams B502-948 (Everest), K510-680 (IC and SFIC) or L583-476 or L583-477 for modular cylinders	    B502-948      K510-680      L583-476      L583-477 $1\frac{1}{8}'' / 1\frac{1}{8}'' / 1\frac{5}{8}''$ $1\frac{1}{4}'' / 1\frac{1}{2}'' / 1\frac{3}{4}''$
Do not install thumbturn unit 09-509-027 on inside. Install chassis in the locked position. Install inside lever with L283-150 mounting plate; do not install outside lever or cylinder.	Mounting plate L283-150	 L283-150
Do not install thumbturn unit 09-509-027 on inside. Install cloverleaf cam cylinder on inside and outside.	Mortise cylinder assembly and cam L583-153	  Mortise Cylinder Assembly      L583-153 $1\frac{1}{8}'' \times 1\frac{1}{8}'' \times 1\frac{5}{8}''$ $1\frac{1}{4}'' \times 1\frac{1}{8}'' \times 1\frac{3}{4}''$
Do not install thumbturn unit 09-509-027 on inside. Install chassis in the locked position. Replace cloverleaf cam L583-153 with straight cam B502-948 (Everest), L583-255 with K510-680 (IC and SFIC) and install on outside. Install inside lever with L283-150 mounting plate; do not install outside lever.	Cams B502-948 (Everest), K510-680 (IC and SFIC), mounting plate L283-150 or L583-476 or L583-477 for modular cylinders	     L283-150      B502-948      K510-680      L583-476      L583-477 $1\frac{1}{8}'' / 1\frac{1}{8}'' / 1\frac{5}{8}''$ $1\frac{1}{4}'' / 1\frac{1}{2}'' / 1\frac{3}{4}''$
Do not install thumbturn unit 09-509-027 on inside. Install chassis in the locked position. Replace cloverleaf cam L583-153 with straight cam B502-948 (Everest), L583-255 with K510-680 (IC and SFIC) and install on outside. Install inside lever on outside with L283-150 mounting plate; do not install inside lever.	Cams B502-948 (Everest), K510-680 (IC and SFIC), mounting plate L283-150 or L583-476 or L583-477 for modular cylinders	     L283-150      B502-948      K510-680      L583-476      L583-477 $1\frac{1}{8}'' / 1\frac{1}{8}'' / 1\frac{5}{8}''$ $1\frac{1}{4}'' / 1\frac{1}{2}'' / 1\frac{3}{4}''$
Install cloverleaf cam cylinder on outside; do not install thumbturn assembly 09-509-027 on inside. Install inside trim on outside with L283-150 mounting plate.	Mounting plate L283-150	 L283-150

# Electrified Lock Function

## Applications:

Security control centers, cashier rooms, fire safety exits, stairwell doors, telephone equipment rooms, computer rooms, hospital equipment and narcotics storage areas.



L9080PEL  
L9080PEU  
L9082PEL  
L9082PEU

## Regulating Devices:

Recognition Systems, Inc., HandReaders, wall switches, security consoles, access card readers, thermo-sensitive devices, smoke and fire alarms, telephone access controls, automatic time devices and computerized controls.

All installations should be in accordance with local electrical codes and National Electrical Code, NFPA 70.

## Electrical Requirements for EL or EU

Voltage: 24V AC or 24V DC (maximum 26V, minimum 22V)  
Peak Current: Amps 1.3 at 5- to 10-second intervals  
Holding Current: Amps .135 between peak current intervals  
Operating Temperature: Maximum +151° F, minimum -31° F

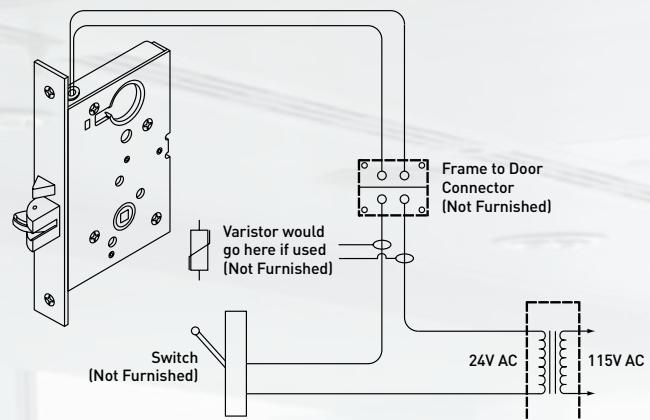
## Micro Switch Electrical Requirements for Request to Exit (RX) Function

Amps: 1.0  
Volts: 24 AC or DC  
Peak Load: Amps, 5; volts, 250 AC or DC

## Replacement Kit

L283-053 – Solenoid and driver, EL or EU

## Typical Wiring Diagram for Electrified L-Series Locks



## Typical Installation

- Electrified L-Series locks contain a transistorized circuit that provides full voltage to the solenoid upon initial application of electrical power and at 5- to 10-second intervals.
- Each lock should preferably have its own 24-volt transformer. Two or more locks may be operated in parallel from a single transformer, provided it has the necessary current rating.

**NOTE:** DO NOT connect locks in series from a higher voltage rated transformer.

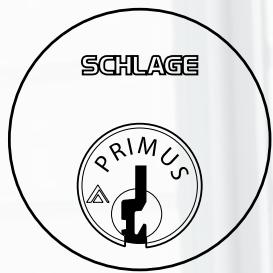
- We DO NOT recommend that these locks be connected to a supply circuit that also contains electromagnetic devices. If an electromagnetic device is connected to the supply circuit, the resulting transient voltages could damage the lock. The transient voltage must be carefully suppressed at the equipment producing them before connecting the lock to the same circuit.
- A varistor rated at 35 volts (peak recurrent) may be used for transient voltage protection.

# Cylinder Types



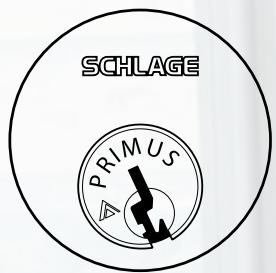
## Standard Cylinders

Schlage locks are provided with cylinders precision-built to extremely close tolerances and the highest standards of accuracy. Using only solid brass bar stock plugs and shells, phosphor bronze springs, and nickel silver keys and bottom pins ensures long life and ease of operation. Our 6-pin Everest cylinders in C123 keyway with two patented keys are standard for stock. C145 is standard for new master key systems.



## Primus® High Security Cylinders

Primus high-security cylinders are available to add patented key control and varying degrees of geographical exclusivity to most Schlage 6-pin key systems, whether Everest or Classic keyways. In addition to a conventional pin tumbler mechanism, Primus cylinders incorporate a patented finger pin and sidebar design, providing a “dual-locking” cylinder that is virtually pick-proof. Resistance to drilling and other physical attack is optional by specifying 20-500 Series UL437 Listed cylinders.

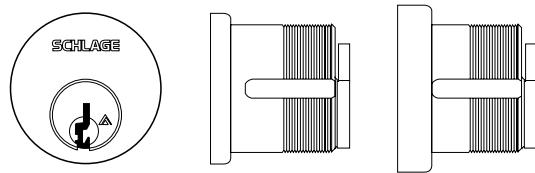


## Primus Lockout Cylinders

For doors where it is frequently desirable to disable all keys from operating the lock temporarily use lockout cylinders. The special lockout key can be removed while the plug is turned to the 11 o'clock position, preventing all normal operating keys, including master keys, from fully entering the cylinder.

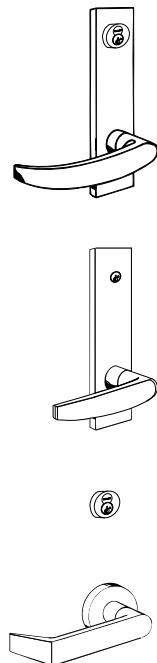
Suggested applications for lockout cylinders include laboratories, dark rooms, clean rooms and exterior doors to dormitories.

Schlage will not master key lockout cylinders.



## Standard (Non-IC) Cylinders

### Standard (Non-IC) Mortise Cylinders



Design	Function	Cylinder Mechanism				
		Conventional	Primus	Primus UL437	Primus Lockout	Primus UL437 Lockout
<b>L &amp; N Escutcheons</b> (cylinders and spring only)	All Except Below	30-021	20-793	20-593	20-717**	20-517**
	L9060P Outside	26-021	20-701	20-501	20-501	20-515**
	L9485, L9486 Hotel Functions	30-022*	N/A	N/A	N/A	N/A
<b>L Escutcheon with concealed shell cylinder</b> (C suffix)	All Except Below	30-004	20-789	20-589	N/A	N/A
	L9080P Outside	26-023	N/A	N/A	N/A	N/A
	L9485, L9486 Hotel Functions	30-005*	N/A	N/A	N/A	N/A
<b>Sectional Trim and L400-Series</b> (cylinder with compression ring & spring)	All Except Below	30-001	20-787	20-587	20-717	20-517
	L9060P Outside	20-001	20-700	20-500	20-715	20-515
	L9060P Outside	30-002*	N/A	N/A	N/A	N/A

\* Specify door hand for hotel function cylinders.

\*\* Discard compression ring for Lockout cylinders with escutcheon trim.

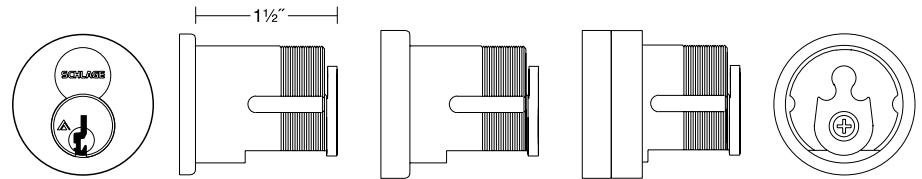
**Finishes:** 605, 606, 611, 612, 613, 619, 625, 626, 629 and 630.

Concealed shell cylinders available in 606 and 626 only.

6-pin Everest C123 keyway standard for stock cylinders; C145 standard for new key systems.

Standard cylinder lengths: sectionals (rose) trim = 11/8" (29 mm), escutcheon trim = 11/4" (32 mm).

Optional cylinder lengths are in 1/8" (4 mm) increments ranging from 11/8" to 13/4" (29 mm to 44 mm).



## Full-Size Interchangeable Core Cylinders

Schlage figure-8 interchangeable core (IC) cylinders allow immediate rekeying at the door. Simply use the special control key to replace the core in seconds. Full-size IC cylinders can be integrated into any existing 5- or 6-pin Schlage key system with no adverse effects on keying capacity. Convert existing mortise locks to interchangeable core merely by replacing the old cylinder with the IC cylinder and proper collar(s).

For ordering information see page 35.

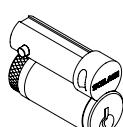
### Full-Size IC Mortise Cylinders



Design	Function	Core Mechanism		
		Conventional	Primus	Primus UL437
<b>L &amp; N Escutcheons</b> (cylinders with compression ring)	All Except Below	30-008	20-798	30-007
	L9060P Outside	30-030	20-782	30-032 + 36-083
	L9485P, L9486P Hotel Functions	30-010*	N/A	30-007
<b>Sectional Trim and L400-Series</b> (cylinder with compression ring, spring and 3/8" blocking ring)	All Except Below	30-138	20-776	30-137
	L9060P Outside	20-061	20-783	30-032 + 36-083 + 35-082-037
	L9485P, L9486P Hotel Functions	30-140*	N/A	N/A

\* Hotel function cores are handed. Specify hand of door. Finishes: 605, 606, 611, 612, 613, 619, 625, and 626. Standard cylinder length is 1½".

### Full Size Interchangeable Cores Only



Number	Description
23-030	Conventional core
20-740	Primus high-security core
30-120	Hotel function core (Specify hand of door)

Available 606 and 626 finish only.  
Standard keyway: 6-pin Everest C123 for stock, C145 for new master key systems