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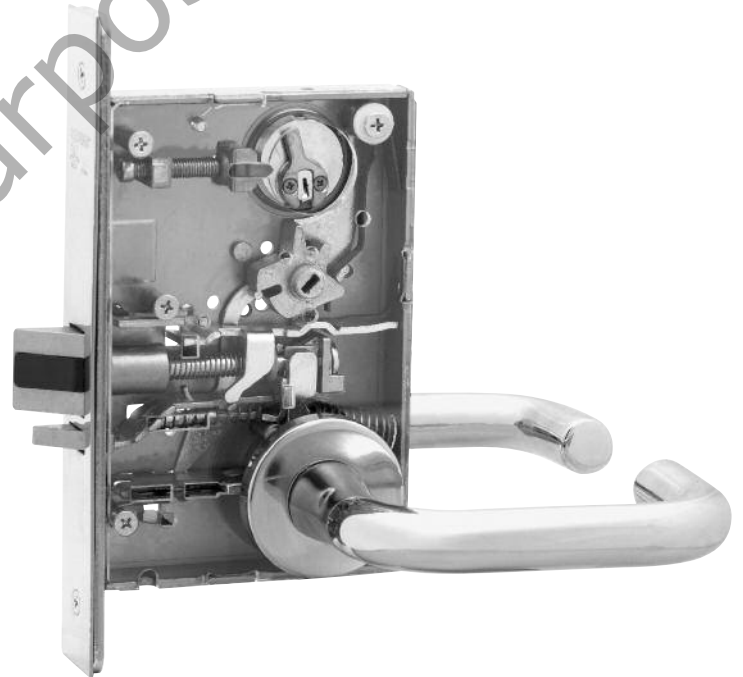
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# 7800 / 8200

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Series Mortise Lock



# Table of Contents

## 8200, R8200 & 7800 Mortise Locks

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### Table of Contents

Certifications .....	1
Features .....	2
Simpli™ Roseless Trim and R8200 Mortise Lock .....	3
Studio Collection Levers .....	4
Ordering Gramercy Series Levers .....	5
Coastal Series™ Decorative Levers, Roses, Escutcheons & Turns .....	6
Lever and Rose Designs .....	7
Escutcheon Designs .....	8
Freewheeling Design, ADA and Handicap Warning .....	9
8200 ALP & 7800 PT Push/Pull Trims and 7800/8200 Anti-Vandal Option .....	10
7800 Knob and Escutcheon Designs .....	11
Functions & Descriptions .....	12-18
Electrical Functions and Monitoring Options .....	18
Electrical Requirements .....	19
Turns, Emergency Releases and Indicators .....	20
Cylinders .....	21
Cylinders and Rosettes .....	22
Cylinder Requirements and Cams .....	23
Strikes and Fronts .....	24
Mechanical & Cylinder Options .....	25-27
How to Order, Finishes, Packaging and Security Screws .....	28
Handing Information .....	28
Multi-functional Lockbody Features .....	29
Architectural Specifications, UL Listed Hurricane-Resistant Certifications & Florida Building Code Information .....	30-31

### Hardwiring Made Easy®



As part of their promise to provide innovative, fast and effective high security solutions to their customers, certain ASSA ABLOY Group brands offer ElectroLynx®, a universal quick-connect system that simplifies the electrification of the door opening. ElectroLynx® is a registered trademark of ASSA ABLOY Inc.



### MicroShield®

As part of their promise to provide innovative solutions to their customers, certain ASSA ABLOY Group brands offer the MicroShield® technology, a silver-based antimicrobial coating designed to stem the spread of germs and bacteria.

MicroShield® is a registered trademark of Yale Security Inc., an ASSA ABLOY Group company.

### MicroShield® Coating

- Revolutionary finish coating available on all SARGENT product lines, utilizes a silver-based antimicrobial compound from Agion Technologies
- As an integral part of the finish coating, MicroShield® lasts for the life of the hardware
- MicroShield® coating permanently suppresses the growth of bacteria, algae, fungus, mold and mildew. It is effective against a broad spectrum of bacteria.
- Non-toxic and completely safe. The Agion antimicrobial compound is EPA and NSF approved and FDA listed for use in medical and food preparation equipment.
- Applications: Anywhere there is need for a clean environment (hospitals, laboratories, schools, medical centers, daycare, food processing etc.)



The Agion antimicrobial is not intended as a substitute for good hygiene. Coated products must still be cleaned to insure the surfaces will be free of destructive microbes. ASSA ABLOY makes no representations or warranties, express or implied, as to the efficacy of the Agion antimicrobial. A copy of the Agion warranty is available upon request.

Agion is a registered trademark of Agion Technologies, Inc., Wakefield, MA, USA

### LiteGuide™

As part of their promise to provide innovative solutions to their customers, certain ASSA ABLOY Group brands offer the LiteGuide™ system, a luminescent egress marking system. LiteGuide™ installation is facilitated by ASSA ABLOY's ElectroLynx®, a universal quick-connect system that simplifies the electrification of the door.

LiteGuide™ is a registered trademark of ASSA ABLOY Inc.

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### SARGuide™ SARGuide

- The SARGuide illuminated mortise lock increases visibility of exit locations in dark or smoke-filled passages, supplementing existing codes for egress lighting
- SARGuide utilizes state-of-the-art FLATLITE electroluminescent lighting from E-Lite Technologies Inc.
- Green-blue electroluminescent light provides unsurpassed visibility in low light conditions
- SARGuide can be wired for continuous operation or activation by fire alarm system
- Mortise lock are placed low enough on a door to provide an extended window of opportunity for safe emergency egress
- Supplements building exit signs required by code
- Intuitive operation. Integral "EXIT" signage guides users directly to the means of egress
- SARGuide can be ordered by adding the TL option to any 8200 series mortise lock with WT Trim, which allows free egress
- Additional TL- Information available page 8



8200 Mortise SARGuide

### On The Cover

- 8237 Multi Function Lock LNJ LHRB

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ASSA ABLOY, the global leader in door opening solutions


# Specifications and Certifications

## 8200, R8200 & 7800 Mortise Locks

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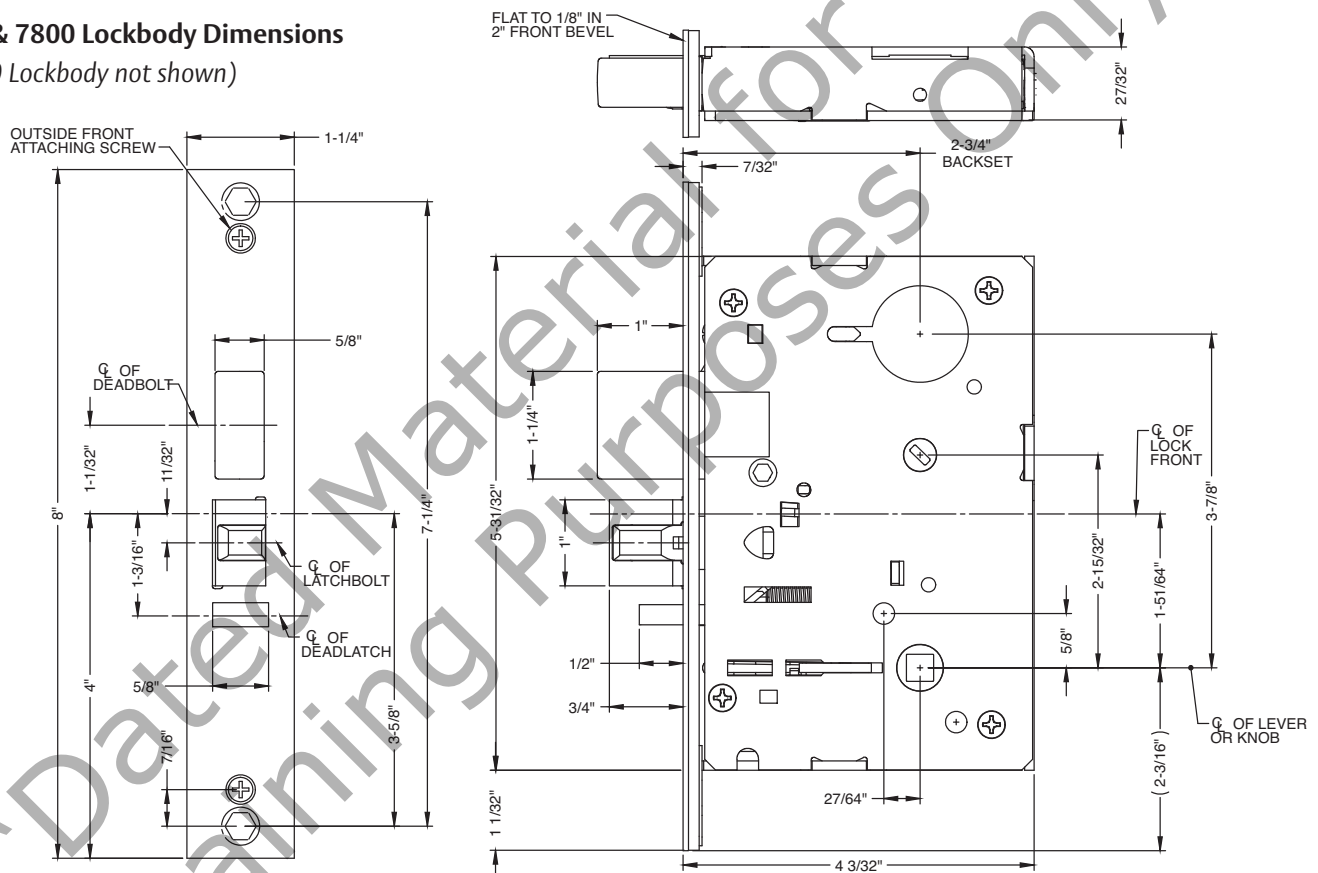
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### Certification Compliance

ANSI/BHMA	Certified to ANSI/BHMA A156.13 Series 1000 Operational Grade 1 and Security Grade 1 with all standard trims. ANSI/ASTM F476-84 Grade 40 with concealed mortise cylinder. Meets or exceeds ASTM F1577-95b paragraph 6.2 detention impact level 1 for deadbolt functions, level 3 for latchbolt only functions. <b>Note: LFIC (Removable) Cylinders and SFIC Cylinders do not meet Security Grade 1 requirements.</b>
ADA 	Meets A117.1 Accessibility Code. Meets BOMA International 4.13.8 Complies with American Disability Act; Consult local authorities
UL	UL and UL Listed to Canadian safety standards for A label 4 x 10 single and 8 x 10 double (3 hour fire door) and lesser class doors, stamped letter F and UL symbol on armored front indicate listing
Positive Pressure	Meets positive pressure requirements UL 10C and UBC 7-2 (1997)
California	California State Reference Code (Formerly Title 19, California State Fire Marshal Standard) All levers with returns comply; levers return to within 1/2" (13mm) of door face
Tornado and Hurricane Codes	See pages 31-32

### 8200 & 7800 Lockbody Dimensions

(R8200 Lockbody not shown)



**Note:** R8200 and 8200 lockbodies are dimensionally the same except for the through-bolt locations

### Explanation of the 8200/7800 Lockbody types:

Lockbody Type <sup>1</sup>	Trim Available x Lockbody type	Standard 8200 Door Prep	Through Bolted Trim	Multi-function lockbody available	How to order lockbody only
8200	Lever x Rose/Escutcheon	Yes	Yes	Yes	82 x Function x Finish <sup>3</sup>
7800	Knob x Rose/Escutcheon	Yes	Yes	Yes	78 x Function x Finish <sup>3</sup>
R8200	Simpli™ roseless trim	No	Yes <sup>2</sup>	Yes	R82 x Function x Finish <sup>3</sup>
8200 for ALP	ALP Push/Pull Trim	Yes	Yes	Yes	Six Digit Part # determined by function*
7800 PT	PT Push/Pull Trim	Yes	Yes	Yes	Six Digit Part # determined by function*

<sup>1</sup> Lockbodies can only be used with the specified trim

<sup>2</sup> Through Bolt locations are different from standard trim, special door prep required

<sup>3</sup> Note: Cylinder and trim not included. Outside front, strike and screwpack are included

\* See Pricebook; Note: Outside Fronts, Strikes, Cylinders and Trim are NOT included

# Electrical Functions and Monitoring Options

## 8200 & R8200 Mortise Locks

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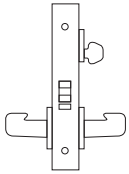
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SARGENT 8200 Electromechanical Mortise locks are designed to handle single opening, stand alone applications, or can be readily integrated into sophisticated access control systems. They meet ANSI/BHMA A 156.13 Grade 1 requirements, are UL listed on fire doors, and satisfy industry standards for operating temperature, shock and fire hazard.

### Electromechanical Functions

#### 70 Electrical (Fail Safe) 71 Electrical (Fail Secure)

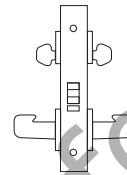
##### 8200 & R8200



- 70 function- Power ON, locks outside lever (by solenoid)
- 71 function- Power ON, unlocks outside lever (by solenoid)
- Always specify voltage: 12VDC or 24VDC
- Key outside retracts latchbolt
- Lever outside retracts latchbolt, except when locked
- Lever outside can only be locked with the solenoid
- Lever inside always retracts latchbolt
- Auxiliary deadlatch

#### 72 Electrical (Fail Safe) 73 Electrical (Fail Secure)

##### 8200 & R8200



- 72 function- Power ON, locks both levers (by solenoid)
- 73 function- Power ON, unlocks both levers (by solenoid)
- Always specify voltage: 12VDC or 24VDC
- Key on either side retracts latchbolt
- Lever from either side retracts latchbolt, except when levers are locked
- Both Levers can only be locked & unlocked with the solenoid
- Levers can not be locked separately, only together
- Auxiliary deadlatch

### Electrical Requirements for solenoid functions:

Voltage: 12VDC or 24VDC Regulated. Full wave rectification installed inside the lockbody.

Current: .25A at 24VDC or .5A at 12VDC

Operating Temp.: Max. 151°F (66°C),  
Min -31°F (-35°C)

UL and CUL listed for use on Fire Doors

**Note: Repeated operation at voltage exceeding +/- 10% is not recommended.**

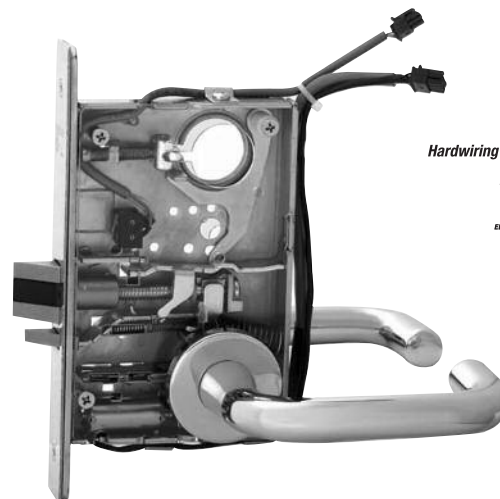
### Warning:

- **Do not** connect locks to a circuit sharing an additional electromagnetic device as the lock may be damaged
- Transient voltage must be suppressed at the source or before connecting with the lock
- Varistor rated at 35 volts (peak) may be used for transient voltage protection

**Note: Opening the lockbody or the solenoid replacement in the field by non-authorized personnel voids UL label and lock warranty.**

### Monitoring Options offered for 8200 & R8200 Series Mortise Lock

- Single Pole Double Throw (SPDT) type C switches, rated 2A at 24VDC
- **RX- option - Request-to-Exit or Enter Signaling Switch**
  - Two switches mounted internally in lockbody that provide independent monitoring of inside and outside lever rotation
  - Available in all functions with non rigid levers
  - Not available for the following options: 1-, 3P, 74
  - Not available for the following trims: LS or FE
- **LX- option - Latchbolt Monitor**
  - Single switch mounted within lockbody signaling latchbolt position
  - Available for all non deadbolt functions
  - Not available with DX
- **DX- option - Deadbolt Monitor**
  - Single switch mounted internally in lockbody that indicates deadbolt position
  - Not available for the following options: 3P-, 74 or LX
  - Available in all deadbolt functions



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**Lynx**  
ELECTRO

⚠ **CAUTION:** Not recommended for use on any door used for Life Safety egress

# Mechanical Options

## 8200, R8200 & 7800 Mortise Locks

**Mechanical Options:** Available mechanical options by lock type

Categories	How to Specify	Detailed Description	8200	R8200	7800
1-3/8" Door	1-	1-1/16" (27mm) wide front for 1-3/8" (35mm) doors (not available with RX-Option) (1-for 93 + 94 function is a special order)	X	-	X
Add Strength	3-	Stainless steel hubs with in the mortise lock	X	-	-
Strike Option	23-	4-7/8" (124mm) ANSI flat lip strike	X	X	X
	OBS-	Open back strike	X	X	X
	WBS-	Wrought box strike	X	X	X
Thick Doors	31-	For doors 1-7/8" (48mm) to 2-1/4" (57mm) thick – see cylinder options for limitations on door thickness. When ordering the following information is required: Location of lock within the door, door thickness -IF paneled -must specify panel thickness & panel location (inside or outside of the door) For doors thicker than 2-1/4" -consult factory.	X	X	X
Security Fasteners	36-	6 Lobe head security screws (Torx® type)	X	-	X
	37-	Spanner head security screw (not available with Studio levers)	X	-	X
Visual Indicators	49-	Visual Status Indicator or Occupancy indicator with emergency release (not available with escutcheon trim; see page 20 for details)	X	X	X
	50-	Secured indicator rose (available with rose trim only; see page 20)	X	-	X
Electrical Options	DX-	Deadbolt monitoring -Monitor deadbolt position (not available with LX-)	X	X	X
	LX-	Latchbolt monitor -Monitors latchbolt position (not available with deadbolt functions)	X	X	X
	RX-	Request to Exit -Monitors each lever independently (not available with LB-option)	X	X	X
	TL-	SARGuide illuminated inside WT trim with the word EXIT illuminated (4-1/2" pocket depth required)	X	-	-
Lever/Knob Combination	68-	8200 Lock furnished w/lever handle outside x knob inside (not available with the AV-Option or FE Trim)	X	-	-
	69-	8200 Lock furnished w/lever handle inside x knob outside (not available with the AV-Option or FE Trim)	X	-	-
Lead Lining	74-	Lead lining or wrapping available with sectional trim only (not available with DX-or LX- Options)	X	-	X
Tactile Warnings	75-	Tactile Warning -Milled levers or knurled knobs. Inside trim only (not available with Studio & Coastal levers, the A Lever & K, N & D knobs)	X	-	X
	76-	Tactile Warning -Milled levers or knurled knobs. Outside trim only (not available with Studio & Coastal levers, the A Lever & K, N & D Knobs)	X	-	X
	77-	Tactile Warning -Milled levers or knurled knobs. Inside & outside trim (not available with Studio & Coastal levers, the A Lever & K, N & D knobs)	X	-	X
	85-	Tactile Warning -Abrasive coating inside trim only (not available with D knobs)	X	X	X
	86-	Tactile Warning -Abrasive coating outside trim only (not available with D knobs)	X	X	X
	87-	Tactile Warning -Abrasive coating inside & outside trim (not available with D knobs)	X	X	X
Anti-Vandal Trim	AV-	Anti-Vandal pull trim (not available with LS & FE trim and Options 1-, 31-, 49-, 50-, 68-, 69-, 76-, 77-, 86-, 87-, DX-or SG-)	X	-	X
Finish Protection	CPC-	Clear Powder Coat (available for 32 & 32D finishes)	X	X	X
	SG-	MicroShield® antimicrobial clear powder coat	X	X	X
Larger Turn	LB-	ADA Extra large thumbturn: the design supplied is based trim ordered (Std-130LB, traditional-130LT & contemporary- 130LC)	X	X	X

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# Cylinder Options

8200, R8200 & 7800 Mortise Locks

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## Cylinder Options:

Categories	How to Specify	Detailed Description	Cylinder Sizes Available
Conventional Cylinder		SARGENT Conventional Cylinders supplied standard	41-44,46,48,50,52,54,56
Signature Key System	10-*	SARGENT Signature Key System (not available with other key systems)	41-44,46,48,50,52,54,56
	10-21-*	SARGENT Signature Construction Key System (Lost Ball)	41-44,46,48,50,52,54,56
	10UL-*	SARGENT Signature UL437 Key System (not available with other key systems)	41-44,46,48,50,52,54,56
Signature Large Format Interchangeable Core (Removable Core)	10-63-*	SARGENT Signature LFIC (removable) Core Cylinder	42, 43, 44 & 46
XC- Key System	11-*	XC Key System (not available with other key systems, unless specified)	41-44,46,48,50,52,54,56
	11-21-*	XC- Construction Key System (Lost Ball)	41-44,46,48,50,52,54,56
XC- Large Format Interchangeable Core (Removable Core)	11-60-*	Hardware to accept XC- Permanent LFIC (removable core), disposable plastic core provided	42, 43, 44 & 46
	11-63-*	Hardware provided with XC- LFIC (removable core) cylinder - (Includes masterkeying, grand masterkeying)	42, 43, 44 & 46
	11-64-*	Hardware provided with keyed construction core to accept XC- LFIC (removable) permanent core ordered separately	42, 43, 44 & 46
XC- Small Format Interchangeable Cores	11-70-7P-*	Hardware to accept XC- SFIC (7-Pin) XC- permanent cores, disposable plastic core provided	43 & 46
	11-72-7P-*	Hardware to accept XC- SFIC (7-Pin keyed construction core provided) cylinder permanent core ordered separately	43 & 46
	11-73-7P-*	Hardware provided with XC- Small format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)	43 & 46
	11-65-73-7P-*	Hardware provided to accept XC- Uncombined 7-Pin SFIC (permanent) core - (packed loose)	43 & 46
Construction Key System	21-*	SARGENT Lost Ball Construction keying for conventional, XC and Signature Series (N/A with 63- or 73-)	-
	22-*	SARGENT Construction Split Key System for conventional cylinders (existing systems only) (N/A with 10-, 11-, 63- or 73-)	-
Old Style Removable Core	51-*	Removable core cylinder (Old style) provided (existing systems only)	142,143,144,146
	52-*	Removable construction core (Old style) permanent core ordered separately (existing systems only)	142,143,144,146

\* Options not available with 50 function lockout cylinder

**NOTE: Interchangeable core and removable core cylinders do not meet Security Grade 1 requirements**

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# Cylinder Options

8200, R8200 & 7800 Mortise Locks

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**Cylinder Options:**

Categories	How to Specify	Detailed Description	Cylinder Sizes Available
Large Format Interchangeable Core	60-	Hardware to accept SARGENT permanent LFIC (removable core), disposable plastic core provided (permanent cores ordered separately)	42, 43, 44 & 46
	63-	Hardware provided with LFIC (removable core) cylinder - (Includes masterkeying, grand masterkeying)	42, 43, 44 & 46
	64-	Hardware provided with Keyed construction core to accept LFIC (removable) permanent core (ordered separately)	42, 43, 44 & 46
Small Format Interchangeable Cores	70-*	Hardware to accept 6- or 7-Pin SFIC permanent cores, disposable plastic core provided	43 & 46
	72-*	Hardware to accept 6- or 7-Pin SFIC (keyed construction core provided) cylinder (permanent core ordered separately)	43 & 46
	73-*	Hardware provided with 6-Pin SFIC (Includes masterkeying, grand masterkeying)	43 & 46
	65-73-*	Hardware provided to accept uncombined 6-Pin SFIC (permanent) core - (packed loose for field keying)	43 & 46
	65-73-7P-*	Hardware provided to accept uncombined 7-Pin SFIC (permanent) core - (packed loose for field keying)	43 & 46
	73-7P-*	Hardware provided with Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)	43 & 46
Keso & Keso F1	81-*	Hardware provided with housings to accept Keso (83) & Keso F1 (F1-83-) removable cores (permanent cores ordered separately)	172-174,176
	82-	Hardware provided with SARGENT Keso security cylinder	71-74,76
	F1-82-	Hardware provided with SARGENT Keso F1 security cylinder (patented)	71-74,76
	83-*	Hardware provided with SARGENT Keso security removable core cylinder	172-174,176
	F1-83-*	Hardware provided with SARGENT Keso F1 security removable core cylinder (patented)	172-174,176
	84-*	Hardware provided with SARGENT Keso construction cores (permanent cores ordered separately)	172-174,176
Additional Security	BR-	Bump resistant cylinder (available with conventional & conventional XC cylinders only)	-
Less Cylinder	LC-	Less cylinder - SARGENT supplies standard blocking rings for 1-1/8" cylinders (for longer cylinders order collars/rings separately)	-
Schlage Keyways	SC-^A	Schlage C keyway cylinder, 0 bitted	#41 Only
	SE-^A	Schlage E keyway cylinder, 0 bitted	#41 Only
<b>NOTE: For V-10 Cylinders and information contact ASSA</b>			

^ Options not available with Freewheeling Trim

\* Options not available with 50 function lockout cylinder

**Note: When using Interchangeable Core Cylinders, the ANSI/BHMA Cylinder Grade determines the grade of the lock, even if the lock is certified ANSI/BHMA Grade 1 with a standard cylinder.**

Cylinder Length	SARGENT Cylinder Sizes	Keso Cylinder Sizes	Keso R/C Cylinder Sizes
1-1/8"	#41	#71	N/A
1-1/4"	#42	#72	#172
1-3/8"	#43	#73	#173
1-1/2"	#44	#74	#174
1-3/4"	#46	#76	#176
2"	#48	N/A	N/A
2-1/4"	#50	N/A	N/A
2-1/2"	#52	N/A	N/A
2-3/4"	#54	N/A	N/A
3"	#56	N/A	N/A







