

# 7900

Mortise Locks





# Specifications

#### 7900 Mortise Locks

SARGENT	8
ASSA ABLOY	

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#### **Certification Compliance**

ANSI/BHMA	Certified to ANSI/BHMA A156.13 Series 1000 Operational Grade 1
ADA <b>&amp;</b>	Meets A117.1 Accessibility Code. Meets BOMA International 4.13.8 Complies with Americans with Disabilities Act; Consult local authorities
UL	UL and UL Listed to Canadian safety standards for A label (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 Lever Code	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

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consu with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with all applicable codes and ratings.

#### 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 inhibit the growth of 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.)



#### Agion has achieved:



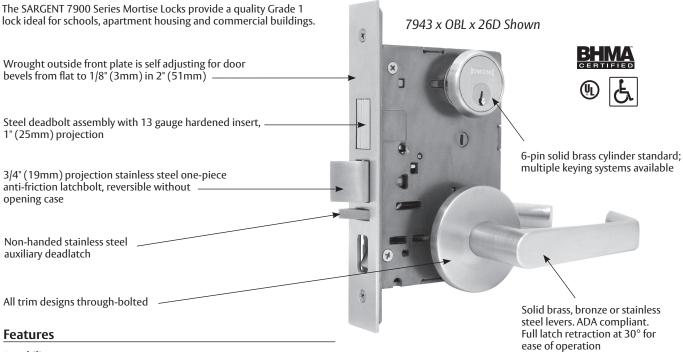
Agion's silver antimicrobial has been certified for its material content, recyclability, and manufacturing characteristics. Cradle To Cradle Certified<sup>CM</sup> products meet established standards for human health, environmental health and recyclability.

Cradle To Cradle Certified CM is a certification mark of MBDC.

#### **Features**

#### 7900 Mortise Locks

# SARGENT ASSA ABLOY



#### Durability

- Certified to ANSI A156.13, Series 1000, Operational Grade 1 with all trim designs
- Heavy duty spring provides long life and reduces lever sag
- 3/4" Projection stainless steel latchbolt. One piece construction
- Steel deadbolt assembly with 13 gauge hardened steel insert, 1" (25mm) projection
- 5 year limited warranty, 2 year limited warranty on electrified locks. Limited to replacement of lock components

#### Flexibility

- Lock is easily re-handed by rotating the locking piece. Latchbolt is changed by removing the outside front and rotating the latchbolt 180°
- 13 Standard architectural grade finishes, including 14 Polished Nickel
   8 15 Satin Nickel
- 21 functions, including 4 electrical functions
- Available for door thicknesses 1-3/8" (35mm), 1-3/4" (44mm), 2" (50mm) and 2-1/4" (57mm)
- UL Listed (10C and UBC 7-2, 1997) for use on single fire doors up to 4' x 10' and double doors up to 8' x 8'

#### Innovations

- Latchbolt retracts with only 30° of lever rotation
- Internal lever spring offers a sleek appearance, simplifies installation and reduces external components
- Solenoid controlled locking mechanisms for remote convenience to lock and unlock the 7900 Series Mortise lock featuring ElectroLynx® quick connectors

#### Security

- Torx® and spanner screws available as an option
- Can be master keyed or grand masterkeyed. Construction key available

#### Specifications

-	
Backset	2-3/4" (70mm) only
Case	Wrought steel, zinc dichromate plated. Thickness 7/64" (3mm) (.109")
Outside Front Plate	Wrought 8" (203mm) x 1-1/4" (31mm), self adjusting beveled
Auxiliary Deadlatch	Stainless steel, non-handed
Strike	Wrought; ANSI Standard A115.1; curved lip, non-handed (strike box optional)
Keys	Two, nickel silver keys, LA is the standard keyway. (control key or emergency key must be ordered when required)
Cylinder	Brass, size #41 (1-1/8" standard)
Masterkeying	Can be masterkeyed or grand masterkeyed. Construction keying available
Door Prep	ANSI A115.1 modified (see template 4589 for 7900 lockbody & trim template varies by design)

Note: Key systems are compatible with a majority of other SARGENT products

# Standard Lever, Knob, Rose and Escutcheon Designs

## ASSA ABLOY

7900 Mortise Locks

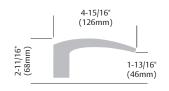
The 7900 lever, knob, rose and escutcheon designs are available in all 13 architectural hardware finishes.

- All levers meet ADA national code requirements
- Lever designs BI, BL and BP have lever returns within 1/2" (13mm) of door face
- Levers BB, BL, BJ & BP are only available with the O rose and the LW1 & the WT escutcheons.
- B knob is only available with the O rose and the KW1 & the WT escutcheons.

#### **BB Lever Design**

- BB Lever with O Rose
- · Lever: Solid forged or cast
- · Rose: Heavy wrought

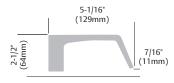




#### **BL Lever Design**

- BL Lever with O Rose
- · Lever: Solid forged or cast
- Rose: Heavy wrought





#### **BI Lever Design**

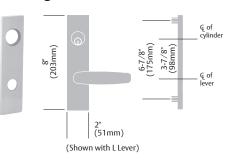
- · BI Lever with O Rose
- · Lever: Solid forged or cast
- Rose: Heavy wrought





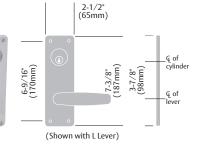
#### LW1/KW1 Escutcheon Design

- Escutcheon: LW1/KW1-Wrought
- (2) Exposed screws inside
- KW1 is used with the B Knob
- LW1 is used with lever designs



#### WT Escutcheon Design

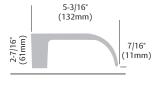
- Escutcheon: WT-Heavy wrought
- Surface mounted both inside and outside
- (4) Exposed screws both inside and outside



#### **BP Lever Design**

- BP Lever with O Rose
- · Lever: Solid forged or cast
- · Rose: Heavy wrought

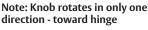


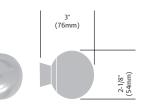


NOTE: All lever height (+/- 1/16") measurements represent total distance from door face.

#### **B Knob Design**

- Knob: B heavy wrought
- 67- Option Knob both inside & outside
- 68- Option Lever outside/knob inside
- 69- Option Knob outside/lever inside





#### **Standard Rose**

Note: The TO, CO, TR, CR and LN roses are only available with the Studio Levers, the O rose is available for both standard and Studio.



O Rose

# SARGENT

Odéon Series (Handed Levers)

## **ASSA ABLOY**

 $MN^3$ 

MH

MK<sup>3</sup>

MS

MU

MV

 $MX^2$ 

NS<sup>2</sup>

NU<sup>2</sup>

### Studio Collection Levers

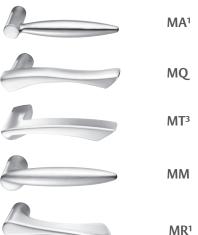
7900 Mortise Locks

Studion<sup>10</sup>

Studio Collection trim is available in a broad array of designs and finishes. It allows for uniformity throughout a facility using the 8200, R8200 and 7900 Series Mortise Locks, Access Control Products, 80 and P Series Exits Devices, DL and RDL Series Tubular Locks.

All levers meet ADA compliance for national codes.

# Centro Series MC1/3 MD MD MP3 ND2 NJ2 Notting Hill Series (Handed Levers) MA1

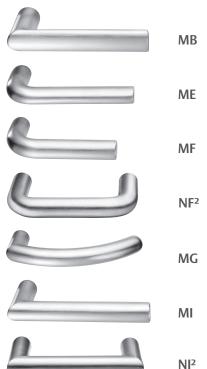


#### **Rialto Series**

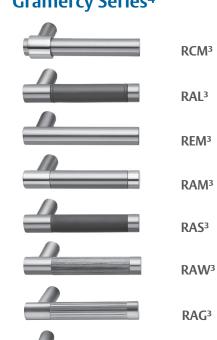
(MZ Lever is Handed)



#### **Aventura Series**







- <sup>1</sup> Contact factory for current lead times
- $^2$  Lever returns within 1/2" (13mm) of door face  $\,$
- $^3$  Levers are not available with Simpli $^{\rm TM}$  Roseless trim
- <sup>4</sup> Gramercy levers are customized. See page 6 for ordering information

 $MY^2$ 

 $MW^2$ 

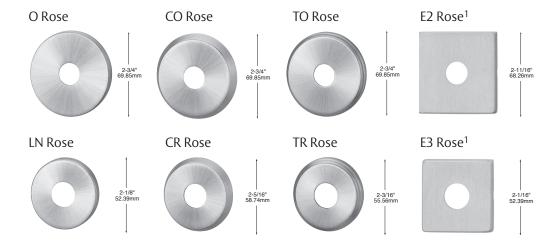
RGM<sup>3</sup>

## Studio Collection Trim

#### **7900 Mortise Locks**

# SARGENT ASSA ABLOY

#### **Roses**

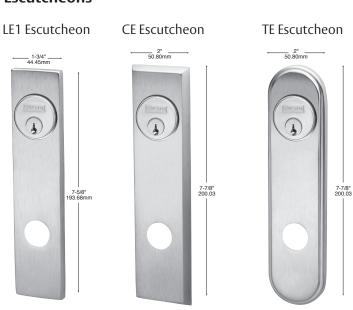


#### **Thumbturns**

Thumbturn backplate will match rose design chosen. See page 5 for more information.



#### **Escutcheons**



<sup>&</sup>lt;sup>1</sup> 1KA square cylinder collar and 130KA square backplate automatically supplied with E2 and E3 roses.

# Thumbturn Designs

#### 7900 Mortise Locks

#### 130W Round Backplate (Shown with Standard Turn)



- Round backplate supplied standard with O and LN roses
- Standard turn automatically supplied with sectional trim for 7900 locks
- Specify T1, T2 or T3 as an option for decorative turns
- 1-1/2" (38mm) round brass, bronze or stainless steel plate
- Meets ADA Requirements

#### **130KT Traditional Backplate**

(Shown with Standard Turn)









Dual radii edge backplate supplied standard with TO and

- Standard turn automatically supplied with sectional trim for 7900 locks
- Specify T1, T2 or T3 as an option for decorative turns
- 1-3/4" (44mm) round brass, bronze or stainless steel plate
- Meets ADA Requirements

#### **130LB Large Round Backplate**

(Shown with Large ADA Turn)







130LT

130LC

- Available with 7900 with sectional trim
- 40% larger than standard thumbturn
- Specify LB as an option for ADA turn
- 2" (51mm) round brass, bronze, or stainless steel plate & turn
- 130LT Traditional backplate, 130LC Contemporary backplate
- · Meets ADA Requirements

#### 130KA Square Backplate

(Shown with Standard Turn)









- Square backplate supplied standard with E2 or E3 roses
- Standard turn automatically supplied with sectional trim for 7900 locks
- Specify T1, T2 or T3 as an option for decorative turns
- 1-1/2" (38mm) round brass, bronze or stainless steel plate
- Meets ADA Requirements

#### 130KC Contemporary Backplate

(Shown with Standard Turn)









Beveled edge backplate supplied standard with CO and

- Standard turn automatically supplied with sectional trim
- for 7900 locks
- Specify T1, T2 or T3 as an option for decorative turns
- 1-3/4" (44mm) round brass, bronze or stainless steel plate
- Meets ADA Requirements

#### 184W Emergency Release



- 1-1/2" (38mm) round brass, bronze or stainless steel plate
- Unlocks 65 & 66 functions by emergency key (14-0057), coin or flat blade screw driver
- Studio Collection Emergency Release
- 184KC Emergency Release Contemporary
- 184KT Emergency Release Traditional

#### Emergency Key 14-0057



- Carbon steel
- For bathroom/privacy function only
- Must be ordered separately

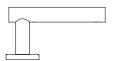
# Ordering Gramercy Series Levers

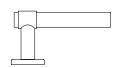
**RCM** 

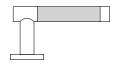
#### **7900 Mortise Locks**



#### **Gramercy Series Levers**







REM, RGM

RAG, RAL, RAM, RAS, RAW

#### **Gramercy Finish Codes**

BHMA Finish	SARGENT Finish	Gramercy Code*	Description
630	32D	30	Satin Stainless Steel
629	32	29	Bright Stainless Steel
N/A	N/A	ВН	Birch (wood insert)
N/A	N/A	ВК	Black (Santoprene™ or leather insert)
N/A	N/A	BN	Brown (leather insert)

<sup>\*</sup>Code used to specify Gramercy Series finishes only. Use available finishes list to specify desired finish when ordering.

#### **Gramercy Lever Descriptions & Available Finishes**

Lever Designation	Lever Description	Available Finishes (AS ORDERED)
RAG	Grooved Insert	2929 or 3030
RAL	Leather Insert	29BK, 29BN or 30BK, 30BN
RAM	Metallic Insert	2930** only
RAS	Santoprene Insert	29BK or 30BK
RAW	Wood Insert	29BH or 30BH
RCM	Raised Band	2929, 3030 or 2930**
REM	Plain	2929 or 3030
RGM	Two Grooves	2929 or 3030

<sup>\*\*</sup>Two-tone finish - grip of lever is 32D, balance of lever is 32. Rose/escutcheon and lock finish will be 32.

To order Gramercy Series levers with SARGENT products, see the examples below. When specifying finish, use the last two digits of the BHMA standard finish code, i.e. use "29" for polished stainless, BHMA finish 629.

#### How to Order 7900 Mortise Locks with Gramercy Series Levers

Options	Series	Function	Voltage	Rose/ Escutcheon	Lever	Finish	Hand
Select from Pages 12-13	79	Select from Pages 5-7	Specified for Electrical Functions	Select from Page 4	Leather insert	Bright stainless steel with brown leather	RHR, RH, LHR, or LH
10-	79	71	12VDC	LN	RAL	29BN	RH

# Function Designations & Descriptions

#### 7900 Mortise Locks

#### **Single Cylinder without Deadbolt**

#### 04 Storeroom or Closet



- Key outside retracts latchbolt
- Lever/Knob outside rigid at all times
- Lever/Knob inside retracts latchbolt
- · Auxiliary deadlatch
- ANSI F07

#### 37 Classroom 7937



- Key outside locks & unlocks lever/knob outside
- Key outside retracts latchbolt
- Lever/Knob inside always retracts latchbolt
- Auxiliary deadlatch
- ANSI F05

#### 55 Office or Entry

7955



- Key outside retracts latchbolt
- Lever/Knob inside retracts latchbolt
- Lever/Knob outside is locked & unlocked with toggle only
- Auxiliary deadlatch

#### **Double Cylinder without Deadbolt**

#### 16 Apartment, Exit or Public Restroom

7916



- Key outside retracts latchbolt
- Key inside locks & unlocks lever/knob outside
- Lever/Knob inside always retracts latchbolt
- · Auxiliary deadlatch
- Special cam Suffix -105 required for inside cylinder (Supplied Standard)
- ANSI F09

#### 38 Classroom Security Intruder Latchbolt

7938



- Key from either side locks & unlocks lever/knob outside
- Key from either side retracts latchbolt
- Lever/Knob inside always retracts latchbolt
- Auxiliary deadlatch
- ANSI F32

ASSA ABLOY, the global leader in door opening solutions

## Function Designations & Descriptions

#### 7900 Mortise Locks

# ASSA ABLOY

#### Single Cylinder with Deadbolt

#### 24 Storeroom Door

7924



- Key outside or thumb turn inside retracts and projects deadbolt
- · Lever/Knob either side retracts latchbolt
- Latchbolt and deadbolt are independent of each other
- ANSI F21

#### 25 Dormitory or Exit

7925



- Key outside or thumb turn inside retracts and projects deadbolt
- Lever/Knob from either side retracts latchbolt, when the deadbolt is in the retracted position
- Lever/Knob outside is locked, when the deadbolt is projected
- When deadbolt is projected, lever/knob inside retracts latchbolt and deadbolt simultaneously, unlocking outside lever/knob
- ANSI F13

#### \_\_\_\_

**43 Apartment Corridor Door 7943** • Key outside



- Key outside or thumb turn inside retracts and projects deadbolt
- Key outside retracts both latchbolt and deadbolt, lever/knob outside remains locked
- Lever/Knob outside is locked by toggle or projecting deadbolt
- Lever/Knob outside is unlocked by toggle only
- Lever/Knob inside (when deadbolt is projected) retracts latchbolt and deadbolt simultaneously, and lever/knob outside remains locked
- · Auxiliary deadlatch
- ANSI F20

#### **45 Dormitory or Exit**

7945



- Key outside or thumb turn inside retracts and projects deadbolt
- Key outside retracts both latchbolt and deadbolt, lever/knob outside remains locked
- Lever/Knob outside is locked by toggle or projecting deadbolt
- Lever/Knob inside (when deadbolt is projected) retracts latchbolt and deadbolt simultaneously, and lever/knob outside remains locked
- ANSI F12

#### **50 Hotel Guest**

7950



- Hotel Cylinder Required (50 Function Cylinder) with two types of Keys (Standard & Emergency)
- Standard Key outside retracts latchbolt only, will not retract or project deadbolt
- Emergency Key outside will retract latchbolt and deadbolt and also project deadbolt
- Thumb turn inside retracts and projects deadbolt
- Lever/Knob inside retracts both latchbolt and deadbolt simultaneously
- Lever/Knob outside is always rigid
- Auxiliary deadlatch
- Not available with certain key systems (see Option chart in this catalog for restrictions)
- ANSI F15

#### **Double Cylinder with Deadbolt**

#### \*26 Store Door

7926



- Key from either side retracts and projects deadbolt
- Lever/Knob from either side retracts latchbolt
- Latchbolt and deadbolt are independent of each other
- ANSI F14

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



f shaded, knob or lever rigid at all times

# SARGENT

#### ASSA ABIOY

# Function Designations & Descriptions

#### 7900 Mortise Locks

#### Non-Keyed

#### 15 Passage or Closet



- Lever/Knob from either side retracts latchbolt at all times
- ANSI F01

# 65 Privacy Bedroom or Bath





- Lever/Knob outside retracts latchbolt except when locked by thumb turn inside
- Lever/Knob inside retracts latchbolt and unlocks outside lever/knob
- Emergency Release unlocks outside lever/knob with coin or flat
- Thumb turn inside, locks and unlocks outside lever
- Closing the door will unlock lever/knob outside
- ANSI F22

#### 93 Single Trim Dummy

7993

- Lever/Knob on inside of door is always rigid
- Lever/Knob only inside used as door pull
- Through bolted

**Note:** Different door prep required, see template 4298

#### 94 Double Trim Dummy

7994

- Lever/Knob on both sides are always rigid
- Lever/Knob only used as door pull
- · Through bolted

**Note:** Different door prep required, see template 4298

#### 66 Privacy Bedroom or Bath

#### 7966



- Lever/Knob outside retracts latchbolt except when deadbolt is projected
- Lever/Knob inside retracts both latchbolt and deadbolt simultaneously, and unlocks outside lever/knob
- Emergency Release retracts and projects deadbolt by coin or flat blade screw driver
- Thumb turn retracts and projects deadbolt
- ANSI F19

#### 95 Single Trim Dummy

7995



- Lever/Knob on one side only is always rigid
- Includes lock case and armor front
- Lever mounted on inside of the door.

#### **Electrical Functions**

#### 70 Electrical Fail Safe 71 Electrical Fail Secure

#### 7970 7971



- 70 function Fail Safe Power off
   Unlocks outside lever
- 71 function Fail Secure Power off Locks outside lever
- Specify 12VDC or 24VDC
- Key outside retracts latchbolt
- Lever outside can only be locked with the solenoid
- Lever inside always retracts latchbolt
- Only available with lever trim
- · Auxiliary deadlatch

#### \*72 Electrical Fail Safe \*73 Electrical Fail Secure

#### 7972 7973



- 72 function Fail Safe Power off
- Unlocks both levers
- 73 function Fail Secure Power off Locks both levers
- Specify 12VDC or 24VDC
- Key either side retracts latchbolt
- Levers can only be locked with the solenoid
- Levers can not be locked independently
- Only available with lever trim
- Auxiliary deadlatch

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



If shaded, knob or lever rigid at all times

## Electro-Mechanical Specifications Strikes & Front

#### 7900 Mortise Locks



SARGENT 7900 Electro-mechanical Mortise locks can be used for single openings, stand alone applications or can be readily integrated into sophisticated access control systems.

Hardwiring Made Easy®



**Applications:** Security and restricted access areas in schools, computer rooms, offices, banks, equipment rooms, laboratories and hospitals. Also used with fire and alarm controls in buildings and stair tower doors.

#### **Electrical Requirements:**

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.

Note: Opening lockbody by non-authorized personnel voids UL label and lock warranty.

#### Warning:

- Do not connect locks with 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

#### **RX- Monitoring Mortise Locks**

7900 Mortise Locks are available with internal switches for independently monitoring inside/outside lever rotation (RX- option).

- SPDT type C switches, rated 2A at 24VDC
- RX- Request to Exit or Enter
  - Two switches mounted internally in lockbody that provide independent monitoring of inside and outside lever rotation
  - Available in all functions w/non rigid levers
  - Not available with 1- option

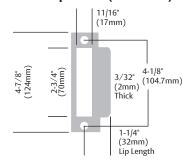
#### **Curved Lip Strikes**

- All locks are packed standard with a universal non-handed curved lip ANSI 4-7/8" (124mm) strike
- All strikes: Brass, bronze or stainless steel
- To order strikes separately, specify strike part number and finish. Strikes ordered separately are furnished with machine screws
- Strike Box is available separately as 77-1141 or WBS-
- For Strikes other than standard, specify part number when ordering with complete lock
- See chart for part number and lip lengths

#### **Curved Lip Strike**

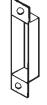
Door Thickness	Part No.	Lip Length	
Double Door	82-0229	7/8" (23mm)	
1-3/8" - 1-1/2" (35mm) (38mm)	82-0109	1-1/8" (29mm)	
1-5/8" - 1-3/4" (41mm) (44mm)	82-0110 (Std)	1-1/4" (32mm)	
1-7/8" - 2" (48mm) (51mm)	82-0111	1-3/8" (35mm)	
2-1/8" - 2-1/2" (54mm) (64mm)	82-0112	1-5/8" (41mm)	

#### **Curved Lip Strike (Standard)**



#### 77-1141 Wrought Box Strike (WBS)

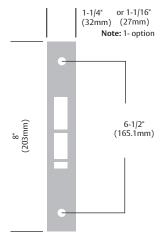
- Specify WBS- when ordering lock to receive Box Strike with lock
- If ordering separately, use part# 77-1141



#### **Outside Front Plate**

Standard Width 1-1/4" (32mm)	Functions
79-0009	15, 65
79-0010	04, 16, 37, 38
79-0011	24, 25, 26, 66
79-0012	50
79-0014	45
79-0015	43
79-0010	70, 71, 72, 73
79-0008	95
79-0013	55

#### **Outside Front Plate**



# **SARGENT**

#### ASSA ABLOY

# Cylinder Lengths

#### **7900 Mortise Locks**

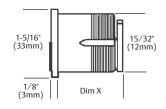
#### Cylinder Lengths (Dim X)

Cylinder No.	41	42	43	44	46	48	50	52	54	56
Dim X Length Under Cylinder Head	1-1/8" (29mm)	1-1/4" (32mm)	- 1 -	, ,	- 1		2-1/4" (57mm)	, ,	2-3/4" (70mm)	3" (76mm)

#### **40 Series Type Cylinder**



- Cylinder body: Solid brass
- Cap: Brass, bronze or stainless steel
- All functions use a standard cam, Except 50 function and the Inside Cylinder for 16 function locks. (see page 10 for more details)





Note: For complete cylinder information, see the appropriate Cylinder Catalog.

# **Cylinders**

#### 7900 Mortise Locks

### ASSA ABLOY

#### 60- or 70- Option Plastic Construction Core



- For doors that do not require key locking during the construction period
- Operate with coin or flat screw driver
- For use with LFIC (60- Option) or SFIC (70- Option) core

#### 124 Series Mortise Cylinder Turn Lever



- Turn lever: Brass, bronze or aluminum
- Cap: Brass, bronze or stainless steel
- Must be ordered separately
- Used on doors where keyed cylinder is not needed

#### 63- Option Large Format Interchangeable (Removable) Core



- Allows immediate removal of the core. Virtually unlimited key changes
- For disposable core, see 60- option
- 10-63- Option: Large Format Interchangeable Core Signature cylinder
- 11-63- Option: Large Format Interchangeable Core XC- cylinder
- 64- Option: Large Format Interchangeable Core construction core
- Control key used to remove core; Must request control key separately

#### 10- Option Signature Series



- · The system offers the building owner full control over duplication of keys. Highly pick resistant cylinders
- 10-63- Option: Large Format Interchangeable Core Signature cylinder
- 10- UL Option: Signature cylinder that meets UL437 requirements for security

#### 73- Small Format Interchangeable Core



- · Small Format Interchangeable Core
- **SARGENT Interchangeable Core cylinders** and MasterKey Systems are available for increased security through quick keying change. It is not necessary to remove a cylinder
- SARGENT 7300B Interchangeable Restricted Cores are available in SARGENT 4A and 4B keyways, as well as the following standard competitor keyways: A, B, C, D, E, F, G, H, J, K, L, M
- For disposable core, see 70- option
- 65-73- Option: 6-Pin Small Format Interchangeable Cores-uncombinated
- 65-73-7P- Option: 7-Pin Small Format Interchangeable Cores-uncombinated
- 70- Option: Small Format Interchangeable disposable core
- 72- Option: Small Format Interchangeable construction core
- 73- Option: 6-Pin Small Format Interchangeable core, SARGENT 4A, 4B keyways
- 73-7P- Option: 7-Pin Small Format Interchangeable core, SARGENT 4A, 4B kevwavs
- Control key used to remove core; Must request control key separately

#### 11- Option XC Key System



- Patented system works with existing SARGENT keyway adding increased security
- 11- Option: XC- Standard Cylinder
- 11-63- Option: Large Format Interchangeable Core XC- cylinder
- 11-73- Option: Small Format Interchangeable Core with XC- feature

#### F1-82- and 82- Option KESO



- The system offers the building owner full control over duplication of keys
- Highly pick resistant cylinders
- Expanded levels of masterkeying
- F1-83- & 83: Option- Keso removable core
- 84- Option: Keso construction core cylinder

The SARGENT construction keying system protects the building owner by providing temporary masterkeying during the construction period

21- Option Lost Ball Construction System

## SARGENT

#### ASSA ABIOY

### Cylinder Rosettes & Cams 7900 Mortise Locks

#### 97 Rosette Cylinder Collar



- Standard for 7900 Mortise Locks
- 1KB Cylinder collar is used for longer cylinders and various door conditions
- Brass, bronze or stainless steel
- Standard for cylinders ordered separately from hardware
- 1-11/16" diameter (43mm), 9/32" (7mm) projection, includes compression spring
- Finishes: 3, 4, 10, 10B, 10BE, 26, 26D, 32, 32D

#### 1 KB Rosette Cylinder Collar



- The KB series of cylinder rosettes will be used as required for various door conditions and cylinders (ex. 60- & 70-)
- Brass, bronze or stainless steel
- 1-1/2" (38mm) diameter, includes compression spring
- Projection from door: 1KB-1:5/16" (8mm) - Standard 1KB-2:7/16" (11mm)

1KB-3:9/16" (14mm)

#### No. 90 Blocking Ring



- Used with 1KB rosettes as spacer when mortise cylinder projects from face of door
- Brass, bronze or stainless steel
- 1-3/8" (35mm) diameter; 1/16" (1.6mm) to 3/8" (9mm) projection in 1/16" (1.6mm) increments. Specify size when ordering.
- Finishes: 3, 4, 10, 10B, 10BE, 10BL, 20D, 26, 26D, 32, 32D

#### **1KA Rosette Cylinder Collar**



- Used with mortise cylinders
- Furnished standard with the E2 and E3 roses
- Brass, bronze or stainless steel
- 1-1/2" (38mm) Square, includes compression spring
- Projection from door: 1KA-1 5/16" (8mm) - Standard 1KA-2 7/16" (11mm) 1KA-3 9/16" (14mm) 1KA-4 11/16" (16mm)
- Finishes: 3, 4, 10, 10B, 10BE, 10BL, 20D, 26, 26D, 32, 32D

#### **Cylinder Cams For Mortise Locks**

#### **SARGENT Conventional Cylinders**

Standard



Std Cam (13-0664) for all functions except for 50 and the Inside cam for 16 function locks



-105 Cam (13-0665) for 16 Function Inside Cylinder



-115 Cam (13-2045) 50 Function Hotel Cam, supplied with 50 function cylinders

#### SARGENT Removable Core Cylinders

- 6300 Cams are factory installed and are not removable
- 6300 Cams are not sold separately
- Specify required Cam as a suffix: 63-44-105 cam
- For Standard Cam: No Suffix is required



Std 6300 Cam for all functions except for 50 and the Inside cam for 16 function locks



-105 Cam for 6300 Series 16 Function Inside Cylinder



-115 Cam for 6300 Series 50 Function Hotel Cam, supplied with 50 function cylinders

Note: For cylinders other than conventional and LFIC (removable core), see Cylinder catalogs for additional information

# Mechanical, ADA & Handicap Warning Options

7900 Mortise Locks



#### **Mechanical Options**

Categories	How to Specify	Detailed Description
1-3/8" Doors	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)
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.
Consider Footonies	36-	6 Lobe head security screws (Torx® type). Screw chart on pg 13. (Not available with Studio Levers)
Security Fasteners	37-	Spanner head security screw. Screw chart on pg 13. (Not available with Studio Levers)
Electrical Option	RX-	Request to exit. Monitors the activation of the inside and outside lever independently (not available with 1- or LB-)
	67-	Knob outside x knob inside (Not available with 70, 71, 72, 73 or 95 functions, RX- Option or Studio Levers)
Knob & Lever Combinations	68-	Lever outside x knob inside (Not available with RX- Option, 95 function or Studio Levers)
	69-	Lever inside x knob outside (Not available with RX- Option, 95 function or Studio Levers)
	75-	Tactile Warning — Milled levers or knurled knobs. Inside trim only (Not available with Studio Levers)
	76-	Tactile Warning — Milled levers or knurled knobs. Outside trim only (Not available with Studio Levers)
Tactile Warning	77-	Tactile Warning — Milled levers or knurled knobs. Inside & outside trim (Not available with Studio Levers)
Options	85-	Tactile Warning — Abrasive coating inside trim only
	86-	Tactile Warning — Abrasive coating outside trim only
	87-	Tactile Warning — Abrasive coating inside & outside trim
	LB-	ADA Extra large thumbturn; backplate matches rose design chosen
Thumbturns	T1	Decorative thumbturn; backplate matches rose design chosen
(See page 5)	T2	Decorative square thumbturn; backplate matches rose design chosen
	Т3	Decorative cylinder thumbturn; backplate matches rose design chosen
Finish Duoto eti	CPC-	Clear Powder Coat (Available for 32 & 32D Finishes)
Finish Protection	SG-	MicroShield antimicrobial clear powder coat
Box Strike	WBS-	Wrought Box Strike

#### **ADA and Handicap Warning**

#### **Lever Return to Door**

- Available with BL, BJ & BP levers
   Lever returns within 1/2" (13mm) of door face or less
  - Meets the strictest ADA code compliances.

NOTE: All lever height (+/- 1/16") measurements represent total distance from door face.



#### **Tactile Handicapped Warning**

- Abrasive Coating: Options 85-, 86- & 87-
- Milled 1/16" Grooves: Options 75-, 76- & 77-BB, BJ, BL and BP Levers grooved on backside surface of lever



#### **Tactile Handicapped Warning**

- Knurled B knob available
- Knobs are NOT ADA compliant



#### **Keys**

- Large key bows available with SARGENT "C" keyways only
- Keys NOT ADA compliant Shown: Large Bow Key on left



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# Cylinder Options 7900 Mortise Locks

#### **Cylinder Options**

DG1-1-   SANGEN Degree key System Level 1 (Bump resistant with patented keys)	cyllider options		
		DG1-*	SARGENT Degree Key System Level 1 (Bump resistant with patented keys)
DG1-64-1   Degree Level 1 Removable Construction Keyed LITC		DG1-21-*	Degree Level 1 Construction Master Keying
Degree Level 1 Lemous Process Proces		DG1-60-*	Degree Level 1 Removable Disposable Construction Core
DC1-55   Degree Level 1 Unassembled Uncombined Core		DG1-63-*	Degree Level 1 Removable Core
DG1-78-		DG1-64-*	Degree Level 1 Removable Construction Keyed LFIC
DG2-11   Degree Level 2 Construction Master Keying		DG1-65-*	Degree Level 1 Unassembled/Uncombined Core
Degree Key System   DG2-21-*   Degree Level 2 Construction Master Keying   DG2-60-*   Degree Level 2 Removable Disposable Construction Core   DG2-64-*   Degree Level 2 Removable Core   DG3-64-*   Degree Level 2 Removable Core   DG3-64-*   Degree Level 3 Removable System (Not Available Vision Ore   DG3-64-*   Degree Level 3 Removable Core   DG3-64-*   DG3-64-*   Degree Level 3 Removable Core   DG3-64-*   DG3-64-*   Degree Level 3 Removable Core   DG3-64-*   DG		DG1-78-*	Degree Level 1 Exposed Plug (For use with LE3/LE4 escutcheons only)
Degree Key System   DG2-66-8   Degree Level 2 Removable Construction Core		DG2-*	SARGENT Degree Key System Level 2 (Geographically exclusive; bump and pick resistant)
DG2-63* Degree Level 2 Removable Core DG2-64* Degree Level 2 Removable Construction Keyed LFIC DG2-65* Degree Level 2 Lansacemble (Juncombined Core DG2-78* Degree Level 2 Lansacemble (Juncombined Core DG2-78* Degree Level 2 Lansacemble (Juncombined Core DG2-78* Degree Level 2 Seposed Plug (For use with LES) LE4 escutcheons only) DG3-60* Degree Level 3 Construction Master Keyning DG3-60* Degree Level 3 Removable Disposable Construction Core DG3-63* Degree Level 3 Removable Disposable Construction Core DG3-64* Degree Level 3 Removable Core DG3-64* Degree Level 3 Removable Core DG3-68* Degree Level 3 Removable Core DG3-78* Degree Level 3 Removable Core SARGENT Signature Key System (Not Available with other Key Systems)  XC- Key System  10-1* SARGENT Signature LE47 Key System (Not Available with other Key Systems)  XC- Key System  11-2* XC- Key System (Not Available with other Key Systems)  Signature Large format Interchangeable Core (Removable Core)  11-63-* Lock to accept XC- Permanent LFIC (Removable Core), disposable plastic core provided  11-63-* Lock to accept XC- Fermanent LFIC (Removable core) disposable plastic core provided  11-63-* Lock to accept XC- SFIC (7-Pin Keyed Construction Core provided) Core or or ordered separately  11-70-7P-* Lock to accept XC- SFIC (7-Pin Keyed Construction Core provided) Core (Includes masterkeying, grand masterkeying)  11-65-73-7P-* Lock to accept XC- SFIC (7-Pin Keyed Construction Core provided) Core (Includes masterkeying, grand masterkeying)  11-65-73-7P-* Lock to accept XC- SFIC (7-Pin Keyed Construction Core provided) Core (Includes masterkeying, grand masterkeying)  11-65-73-7P-* Lock to accept XC- SFIC (7-Pin Keyed Construction Core provided) Core (Includes masterkeyin		DG2-21-*	Degree Level 2 Construction Master Keying
DG2-64-   Degree Level 2 Removable Core	Degree Key System	DG2-60-*	Degree Level 2 Removable Disposable Construction Core
DG2-65-   Degree Level 2 Unassembled   Uncombined Core	Degree key system	DG2-63-*	Degree Level 2 Removable Core
DG2-78-*   Degree Level 2 Exposed Plug (for use with LE3/LE4 escutcheons only)		DG2-64-*	Degree Level 2 Removable Construction Keyed LFIC
DG3-1-   SARCENT Degree Key System Level 3 (Geographically exclusive;Ul-437 certified;bump and pick resistant)		DG2-65-*	Degree Level 2 Unassembled/Uncombined Core
DG3-21-*   Degree Level 3 Construction Master Keying		DG2-78-*	Degree Level 2 Exposed Plug (For use with LE3/LE4 escutcheons only)
DG3-60-*   Degree Level 3 Removable Disposable Construction Core		DG3-*	SARGENT Degree Key System Level 3 (Geographically exclusive;UL437 certified;bump and pick resistant)
DG3-63-*   Degree Level 3 Removable Core		DG3-21-*	Degree Level 3 Construction Master Keying
DG3-64-*   Degree Level 3 Removable Construction Keyed LFIC		DG3-60-*	Degree Level 3 Removable Disposable Construction Core
DG3-78.*   Degree Level 3 Exposed Plug (For use with LE3/LE4 escutcheons only)		DG3-63-*	Degree Level 3 Removable Core
10-2   SARGENT Signature Key System (Not Available with other Key Systems)		DG3-64-*	Degree Level 3 Removable Construction Keyed LFIC
Signature Key System  10-21.* SARGENT Signature Construction Key System (Lost Ball)  XC- Key System  11-* XC Key System (Not Available with other Key Systems, unless specified)  Signature Large Format Interchangeable Core (Removable Core)  (Removable Core)  11-60.* Lock to accept XC- Permanent LFIC (Removable) Core Cylinder  (Removable Core)  11-61.* Lock to accept XC- Permanent LFIC (Removable core), disposable plastic core provided  11-62.* Lock provided with XC- LFIC (Removable core), disposable plastic core provided  11-63.* Lock provided with Keyed construction core to accept XC- LFIC (Removable) Permanent core ordered separately)  11-64.* Lock to accept XC- SFIC (7-Pin) XC- Permanent Cores, plastic disposable core provided  11-73-7P.* Lock to accept XC- SFIC (7-Pin) XC- Permanent Cores provided Core (Includes masterkeying, grand masterkeying)  11-65-73-7P.* Lock to accept XC- SFIC (7-Pin) XC- Permanent Cores provided Cores (Includes masterkeying, grand masterkeying)  11-65-73-7P.* Lock provided with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)  11-65-73-7P.* Lock provided to accept XC- Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose)  21-* SARGENT Lost Ball Construction Split Key System for Conventional, XC and Signature Series (N/A with 63- or 73-)  SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) 2* (51 mm) door thickness max-centered (N/A with 10-, 11-, 63- or 73-)  Lock to accept SARGENT Permanent LFIC (Removable core), disposable plastic core provided (Permanent core ordered separately)  63- Lock to accept SARGENT Permanent LFIC (Removable core) provided (Permanent core ordered separately)  64- Lock provided with Keyed construction core to accept LFIC (Removable) permanent core (Ordered Separately)  72-* Lock to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided  72-* Lock to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided  73-* Small format Fello Interchangeabl		DG3-78-*	Degree Level 3 Exposed Plug (For use with LE3/LE4 escutcheons only)
System  10UL* SARGENT Signature UL437 Key System (Not Available with other Key Systems)  XC. Key System  11.* XC Key System (Not Available with other Key Systems, unless specified)  Signature Large Format Interchangeable Core (Removable Core)  XC. Large Format Interchangeable Core (Removable Core)  (Removable Core)  11-60.* Lock to accept XC- Permanent LFIC (Removable core), disposable plastic core provided  11-63.* Lock provided with XC- LFIC (Removable core), disposable plastic core provided  11-64.* Lock provided with XC- LFIC (Removable core) cylinder - (Includes masterkeying, grand masterkeying)  11-64.* Lock provided with keyed construction core to accept XC- LFIC (Removable) Permanent core ordered separately  11-77-7P.* Lock to accept XC- SFIC (7-Pin) XC- Permanent Cores, plastic disposable core provided  11-73-7P.* Lock to accept XC- SFIC (7-Pin Keyed Construction Core provided) cylinder Permanent core ordered separately  11-65-73-7P.* Lock provided with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)  11-65-73-7P.* Lock provided to accept XC- Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose)  21.* SARGENT Construction Key System for Conventional, XC and Signature Series (N/A with 63- or 73-)  Large Format Interchangeable Core (Removable Core)  11-60. Lock to accept SARGENT Permanent LFIC (Removable core), disposable plastic core provided (Permanent core ordered separately)  12.* SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) 2" (S1mm) door thickness max centered (N/A with 10-, 11-, 63- or 73-)  1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		10-*	SARGENT Signature Key System (Not Available with other Key Systems)
10UL*   SARGENT Signature UL437 Key System (Not Available with other Key Systems)		10-21-*	SARGENT Signature Construction Key System (Lost Ball)
Signature Large Format Interchangeable Core (Removable Core) (Removable Core)  XC- Large Format Interchangeable Core (Removable Core) (Removable Core)  XC- Large Format Interchangeable Core (Removable Core) (Removable Core)  11-60-*  Lock to accept XC- Permanent LFIC (Removable core), disposable plastic core provided  11-63-*  Lock provided with XC- LFIC (Removable core) cylinder - (Includes masterkeying, grand masterkeying)  11-64-*  Lock provided with keyed construction core to accept XC- LFIC (Removable) Permanent core ordered separately  11-70-7P-*  Lock to accept XC- SFIC (7-Pin XC- Permanent Core, plastic disposable core provided  11-72-7P-*  Lock provided with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)  11-65-73-7P-*  Lock provided with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)  11-65-73-7P-*  Lock provided to accept XC- Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose)  21-*  SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63- or 73-)  SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) 2" (51mm) door thickness max centered (N/A with 10-, 11-, 63- or 73-)  Lock to accept SARGENT Permanent LFIC (Removable core), disposable plastic core provided (Permanent cores ordered separately)  63-  Lock to accept SARGENT Permanent LFIC (Removable core) cylinder - (Includes masterkeying, grand masterkeying)  64-  Lock to accept SARGENT Permanent Core or ordered Separately)  70-*  Lock to accept 6-or 7-Pin SFIC (Permanent Core s, plastic disposable core provided  72-*  Lock to accept 6-or 7-Pin SFIC (Sepin Keyed Construction Core provided) Cylinder (Permanent Core Ordered Separately)  73-*  Lock to accept 6-or 7-Pin SFIC (Ge-Pin Keyed Construction Core provided) Cylinder (Permanent Core Ordered Separately)	System.	10UL-*	SARGENT Signature UL437 Key System (Not Available with other Key Systems)
11-60-*   Lock to accept XC- Permanent LFIC (Removable core), disposable plastic core provided	XC- Key System	11-*	XC Key System (Not Available with other Key Systems, unless specified)
11-63-*   Lock provided with XC-LFIC (Removable core) cylinder - (Includes masterkeying, grand masterkeying)   11-64-*   Lock provided with keyed construction core to accept XC-LFIC (Removable) Permanent core ordered separately   11-70-7P-*   Lock to accept XC-SFIC (7-Pin) XC-Permanent Cores, plastic disposable core provided	Signature Large Format Interchangeable Core (Removable Core)	10-63-*	SARGENT Signature LFIC (Removable) Core Cylinder
Interchangeable Core (Removable Core (Removable Core)  In-64* Lock provided with XC- LFIC (Removable core) cylinder - (Includes masterkeying, grand masterkeying)  In-64* Lock provided with keyed construction core to accept XC- LFIC (Removable) Permanent core ordered separately  Interchangeable Cores  In-70-7P-* Lock to accept XC- SFIC (7-Pin) XC- Permanent Cores, plastic disposable core provided  In-72-7P-* Lock to accept XC- SFIC (7-Pin) Keyed Construction Core provided) cylinder Permanent core ordered separately  Interchangeable Core (Includes masterkeying, grand masterkeying)  In-65-73-7P-* Lock provided with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)  In-65-73-7P-* Lock provided to accept XC- Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose)  In-65-73-7P-* SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63- or 73-)  SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) 2" (51mm) door thickness max centered (N/A with 10-, 11-, 63- or 73-)  Large Format Interchangeable Core (Removable Core)  Interchangeable Core (Removable Core)  Interchangeable Core (Removable Core)  Interchangeable Core (Removable Core)  Interchangeable Core (N/A with LFIC (Removable core) cylinder - (Includes masterkeying, grand masterkeying)  Interchangeable Core (Removable Core)  Interchangeable Core (N/A with LFIC (Removable core) cylinder - (Includes masterkeying, grand masterkeying)  Interchangeable Core (N/A with 10-, 11-, 63- or 73-)  Interchangeable Core (N/A with 10-, 11-, 63- or 73-)  Interchangeable Core (N/A with 10-, 11-, 63- or 73-)  Interchangeable Core (N/A with 10-, 11-, 63- or 73-)  Interchangeable Core (N/A with 10-, 11-, 63- or 73-)  Interchangeable Core (N/A with 10-, 11-, 63- or 73-)  Interchangeable Core (N/A with 10-, 11-, 63- or 73-)  Interchangeable Core (N/A with 10-, 11-, 63- or 73-)  Interchangeable Core (N/A with 10-, 11-, 63- or 73-)  Interchangeable Core (N/A with 10-, 11-, 63-	V6.1 5	11-60-*	Lock to accept XC- Permanent LFIC (Removable core), disposable plastic core provided
11-64-* Lock provided with keyed construction core to accept XC- LFIC (Removable) Permanent core ordered separately  11-70-7P-* Lock to accept XC- SFIC (7-Pin) XC- Permanent Cores, plastic disposable core provided  11-72-7P-* Lock to accept XC- SFIC (7-Pin Keyed Construction Core provided) cylinder Permanent core ordered separately  11-73-7P-* Lock provided with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)  11-65-73-7P-* Lock provided to accept XC- Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose)  21-* SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63- or 73-)  SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) 2* (51mm) door thickness max centered (N/A with 10-, 11-, 63- or 73-)  Large Format Interchangeable Core (Removable Core)  63- Lock to accept SARGENT Permanent LFIC (Removable core), disposable plastic core provided (Permanent cores ordered separately)  10-* Lock provided with LFIC (Removable core) cylinder - (Includes masterkeying, grand masterkeying)  10-* Lock to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided  11-73-74 Lock to accept 6- or 7-Pin SFIC (6-Pin Keyed Construction Core provided) Cylinder (Permanent Core Ordered Separately)	Interchangeable Core	11-63-*	Lock provided with XC- LFIC (Removable core) cylinder - (Includes masterkeying, grand masterkeying)
XC- Small Format Interchangeable Cores  11-70-7P-* Lock to accept XC- SFIC (7-Pin) XC- Permanent Cores, plastic disposable core provided  11-72-7P-* Lock to accept XC- SFIC (7-Pin Keyed Construction Core provided) cylinder Permanent core ordered separately  11-73-7P-* Lock provided with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)  11-65-73-7P-* Lock provided to accept XC- Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose)  21-* SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63- or 73-)  SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) 2" (51mm) door thickness maxcentered (N/A with 10-, 11-, 63- or 73-)  Lock to accept SARGENT Permanent LFIC (Removable core), disposable plastic core provided (Permanent cores ordered separately)  63- Lock provided with LFIC (Removable core) cylinder - (Includes masterkeying, grand masterkeying)  64- Lock provided with Keyed construction core to accept LFIC (Removable) permanent core (Ordered separately)  70-* Lock to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided  72-* Lock to accept 6- or 7-Pin SFIC Permanent Core provided) Cylinder (Permanent Core Ordered Separately)	(Removable Core)	11-64-*	Lock provided with keyed construction core to accept XC- LFIC (Removable) Permanent core ordered separately
11-72-7P-*   Lock to accept XC- SFIC (7-Pin Keyed Construction Core provided) cylinder Permanent core ordered separately     11-73-7P-*   Lock provided with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)     11-65-73-7P-*   Lock provided to accept XC- Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose)		11-70-7P-*	
Construction Key Systems  21-*  SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63- or 73-)  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) 2* (51mm) door thickness max  centered (N/A with 10-, 11-, 63- or 73-)  Lock to accept SARGENT Permanent LFIC (Removable core), disposable plastic core provided (Permanent cores ordered separately)  63-  Lock provided with LFIC (Removable core) cylinder - (Includes masterkeying, grand masterkeying)  64-  Lock provided with Keyed construction core to accept LFIC (Removable) permanent core (Ordered separately)  70-*  Lock to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided  72-*  Small Format 6-Pin Interchangeable Core SAPCENT AA 4B Reverys only (Request control key separately) (Includes masterkeying grand master		11-72-7P-*	
Construction Key Systems  21-*  SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63- or 73-)  SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) 2" (51mm) door thickness max  centered (N/A with 10-, 11-, 63- or 73-)  Lock to accept SARGENT Permanent LFIC (Removable core), disposable plastic core provided (Permanent cores ordered separately)  63- Lock provided with LFIC (Removable core) cylinder - (Includes masterkeying, grand masterkeying)  64- Lock provided with Keyed construction core to accept LFIC (Removable) permanent core (Ordered separately)  70-* Lock to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided  72-* Lock to accept 6- or 7-Pin SFIC (6-Pin Keyed Construction Core provided) Cylinder (Permanent Core Ordered Separately)		11-73-7P-*	Lock provided with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)
Construction Key Systems  21-*  SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63- or 73-)  SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) 2" (51mm) door thickness max  centered (N/A with 10-, 11-, 63- or 73-)  Lock to accept SARGENT Permanent LFIC (Removable core), disposable plastic core provided (Permanent cores ordered separately)  63- Lock provided with LFIC (Removable core) cylinder - (Includes masterkeying, grand masterkeying)  64- Lock provided with Keyed construction core to accept LFIC (Removable) permanent core (Ordered separately)  70-* Lock to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided  72-* Lock to accept 6- or 7-Pin SFIC (6-Pin Keyed Construction Core provided) Cylinder (Permanent Core Ordered Separately)		11-65-73-7P-*	Lock provided to accept XC- Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose)
Systems  22-*  SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) 2" (51mm) door thickness max  centered (N/A with 10-, 11-, 63- or 73-)  Lock to accept SARGENT Permanent LFIC (Removable core), disposable plastic core provided (Permanent cores ordered separately)  Lock provided with LFIC (Removable core) cylinder - (Includes masterkeying, grand masterkeying)  Lock provided with Keyed construction core to accept LFIC (Removable) permanent core (Ordered separately)  70-*  Lock to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided  72-*  Lock to accept 6- or 7-Pin SFIC (6-Pin Keyed Construction Core provided) Cylinder (Permanent Core Ordered Separately)	C 1 11 14	21-*	SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63- or 73-)
Large Format Interchangeable Core (Removable Core)  63- Lock provided with LFIC (Removable core) cylinder - (Includes masterkeying, grand masterkeying)  64- Lock provided with Keyed construction core to accept LFIC (Removable) permanent core (Ordered separately)  70-* Lock to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided  72-* Lock to accept 6- or 7-Pin SFIC (6-Pin Keyed Construction Core provided) Cylinder (Permanent Core Ordered Separately)  73-* Small Format 6-Pin Interchangeable Core SAPCENT AA AB Reveway only (Peguest control key separately) (Includes masterkeying grand master		22-*	SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) 2" (51mm) door thickness max centered (N/A with 10-, 11-, 63- or 73-)
Interchangeable Core (Removable Core)  63- Lock provided with LFIC (Removable core) cylinder - (Includes masterkeying, grand masterkeying)  64- Lock provided with Keyed construction core to accept LFIC (Removable) permanent core (Ordered separately)  70-* Lock to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided  72-* Lock to accept 6- or 7-Pin SFIC (6-Pin Keyed Construction Core provided) Cylinder (Permanent Core Ordered Separately)  73-* Small Format 6-Pin Interchangeable Core SAPCENT AA 4B keyway only (Peguest control key separately) (Includes masterkeying grand master	I F	60-	Lock to accept SARGENT Permanent LFIC (Removable core), disposable plastic core provided (Permanent cores ordered separately)
Lock provided with Keyed construction core to accept LFIC (Removable) permanent core (Ordered separately)  70-* Lock to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided  72-* Lock to accept 6- or 7-Pin SFIC (6-Pin Keyed Construction Core provided) Cylinder (Permanent Core Ordered Separately)  73-* Small Format 6-Pin Interchappeable Core SAPCENT 4A 4B keyway only (Peguest control key separately) (Includes masterkeying grand master	Interchangeable Core	63-	Lock provided with LFIC (Removable core) cylinder - (Includes masterkeying, grand masterkeying)
72-* Lock to accept 6- or 7-Pin SFIC (6-Pin Keyed Construction Core provided) Cylinder (Permanent Core Ordered Separately)  73.* Small Format 6-Pin Interchangeable Core SAPCENT 4A 4B keyway only (Peguest control key separately) (Includes masterkeying grand master		64-	Lock provided with Keyed construction core to accept LFIC (Removable) permanent core (Ordered separately)
73.* Small Format 6. Pin Interchangeable Core SAPCENT /A //R keyway only (Pequest control key separately) (Includes masterkeying grand master		70-*	Lock to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided
5. Small Format 6-Pin Interchangeable Core SARGENT 4A. 4B kewway only. (Request control key separately) (Includes masterkeying, grand master		72-*	Lock to accept 6- or 7-Pin SFIC (6-Pin Keyed Construction Core provided) Cylinder (Permanent Core Ordered Separately)
Small Format	Small Format	73-*	Small Format 6-Pin Interchangeable Core SARGENT 4A, 4B keyway only. (Request control key separately) (Includes masterkeying, grand masterkeying)
Interchangeable Cores  65-73-*  Lock provided to accept Uncombinated 6-Pin SFIC (Permanent) Core - (Packed Loose for field keying)	Interchangeable Cores	65-73-*	Lock provided to accept Uncombinated 6-Pin SFIC (Permanent) Core - (Packed Loose for field keying)
65-73-7P-* Lock provided to accept Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose for field keying)		65-73-7P-*	Lock provided to accept Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose for field keying)
73-7P-* Small Format 7-Pin Interchangeable Core SARGENT 4A, 4B keyway only. (Not available with Studio Levers) (Includes masterkeying, grand mast		73-7P-*	Small Format 7-Pin Interchangeable Core SARGENT 4A, 4B keyway only. (Not available with Studio Levers) (Includes masterkeying, grand masterkeying)

\* Options not available with 50 function locks

Note: For V-10 Cylinders and information, contact ASSA

# SARGENT ASSA ABLOY

#### **7900 Mortise Locks**

#### **Cylinder Options**

	70-*	Lock to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided
Small Format	72-*	Lock to accept 6- or 7-Pin SFIC (6-Pin Keyed Construction Core provided) Cylinder (Permanent Core Ordered Separately)
	73-*	Small Format 6-Pin Interchangeable Core SARGENT 4A, 4B keyway only. (Request control key separately) (Includes masterkeying, grand masterkeying)
Interchangeable Cores	65-73-*	Lock provided to accept Uncombinated 6-Pin SFIC (Permanent) Core — (Packed Loose for field keying)
	65-73-7P-*	Lock provided to accept Uncombinated 7-Pin SFIC (Permanent) Core — (Packed Loose for field keying)
	73-7P-*	Small Format 7-Pin Interchangeable Core SARGENT 4A, 4B keyway only. (Not available with Studio Levers) (Includes masterkeying, grand masterkeying)
	81-*	Lock provided with housings to accept Keso (83) & Keso F1 (F1-83-) removable cores. (Permanent Cores ordered separately)
	82-	Lock provided with SARGENT Keso Security Cylinder
Keso & Keso F1	F1-82-	Lock provided with SARGENT Keso F1 Security Cylinder (Patented)
Kesu & Kesu FI	83-*	Lock provided with SARGENT Keso Security Removable Core cylinder
	F1-83-*	Lock provided with SARGENT Keso F1 Security Removable Core cylinder (Patented)
	84-*	Lock provided with SARGENT Keso Construction Cores (Permanent Cores ordered separately)
Added 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 Konnaye	SC-*	Schlage "C" Keyway Number 41 cylinder only, 0 bitted (2" (51mm) door thickness max. — centered)
Schlage Keyways	SE-*	Schlage "E" Keyway, Number 41 cylinder only, 0 bitted (2" (51mm) door thickness max. — centered)

<sup>\*</sup> Options not available with 50 function locks

#### **How to Order 7900 Series Mortise Locks**

10-	79	71	12VDC	LN	MJ	15	RHR
Options*	Series	Function	Voltage	Roses/Escutcheons	utcheons Levers/Knobs		Hand
For all	79	Pages 5-7 for Details	12VDC	Standard Offering	Standards Levers		RHR
available options see Page			24VDC	Page 2	& Knob Page 2,	Dage 14	RH
	Mortise Lock		Voltage must be specified for	Studio Offering	Studio Levers	Page 14	LHR
12 & 13			70, 71, 72 & 73 Functions	Pages 2 & 3	Page 3 & 4		LH

<sup>\*</sup> Multiple options available

#### **Hardware Finishes Available**

7900 Standard Trim	Studio Collection	ANSI/BHMA	Description
03	03	605	Polished brass, clear coated
04	04	606	Satin brass, clear coated
09	09	611	Polished bronze, clear coat
10	10	612	Satin bronze, clear coated
10B	10B	613	Oxidized bronze, oil rubbed
10BE	10BE	613E	Dark oxidized satin bronze — equivalent
10BL	10BL	614	Oxidized satin bronze, clear coat
14	14	618	Polished nickel, clear coat
15	15	619	Satin nickel, clear coat
20D	20D	624	Statuary dark bronze, clear coat
26	26	625	Polished chrome
26D	26D	626	Satin chrome
32	32	629	Polished stainless steel
32D	32D	630	Satin stainless steel

**NOTES:** Split finishes available (Order: outside finish/inside finish)

If inside and outside trim designs differ, please specify (Order: outside/inside trim)

#### Packaging

7955 x OBB	approx. 5.8 lbs. (2.6kg)/box	6 boxes/case
7955 x LW1BB	approx. 6.5 lbs. (2.9kg)/box	6 boxes/case

<sup>&</sup>quot;Wrought Box Strike are specified with Option "WBS-"

7900 Mortise Locks

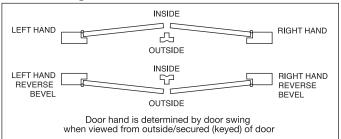
# SARGENT ASSA ABLOY

#### **Changing Lock Hand**

#### Note: Handing of the lockbody:

- 1) The RED surface of the locking slide always faces the side of the door which will be locked. If it is not, change hand of locking slide (Step A)
- 2) The bevel (Angled surface on the latchbolt) must always face the strike. If it does not, change hand of latchbolt (Step B)

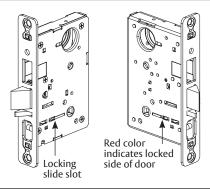
#### **Door Handing**



#### Step A

#### To change hand of locking slide

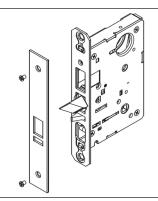
- 1. Turn lockbody to side NOT marked with RED locking piece.
- 2. Insert blade type screwdriver into locking piece slot.
- 3. Push locking piece toward front of lockbody and rotate until RED shows.
- 4. RED indicates locked side (outside).



#### Step B

#### To change hand of latchbolt:

- 1. Remove the outside front by removing the two screws (as shown).
- 2. Depress inside front of lockbody on both sides of latchbolt.
- 3. Rotate the latchbolt by hand 180 degrees, so that the bevel of the latchbolt faces the strike.
- 4. Reattach the outside front with two screws.
- 5. The deadlatch is self adjusting.



#### 6 Lobe & Spanner Bit packs

Part Number	Descriptions
82-3855	6 Lobe Bit Pack 6 bits (sizes- T8, T9, T10, T15, T20, T25, T27) 9/32" Driver
82-3856	Spanner Bit Pack 5 bits (sizes- 6, 8, 10, 12, 14) 1/4" Driver

#### 36- or 37- Option Security Screw Chart

	Fun	ction	ıs																		
Trim Designs	04	15	16	24	25	26	37	38	43	45	50	55	65	66	70	71	72	73	93	94	95
O Roses	5	5	5	6	6	5	5	5	6	6	6	5	7	7	5	5	5	5	4	4	5
LW1/KW1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	7
WT	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	12

Note: 93 & 94 Function locks are not available with a security type screw on the door edge

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# Architectural Specifications

#### 7900 Mortise Locks



#### 2.01 MORTISE LOCKSETS

- A. Mortise locks shall be 7900 Series as manufactured by SARGENT Manufacturing Company, New Haven, CT.
- B. Locks shall meet or exceed the requirements of ANSI/BHMA A156.13 Series 1000, Operational Grade 1 with all standard trims.
- C. Locks shall be easily re-handed without opening the lock body.
- D. Locks shall comply with UL10C and UBC 7-2 positive pressure requirements.
- Locks required for fire doors shall be listed by Underwriters Laboratories for ratings of A label (3 hours) and less, for doors up to 4'0" (1.2m) x 10' 0" (3.0m) and pairs of doors 8'0" (2.4m) x 8'0" (2.4m).
- F. Construction:
  - 1. Lock functions shall be manufactured in a single-sized case.
  - 2. Lock cases shall be closed on all sides and back.
  - 3. Locks shall have field adjustable, beveled, armored front.
  - 4. Locks shall have a 3/4" (19mm) throw one-piece stainless steel latchbolt.
  - 5. Deadbolts, where specified, shall be full one inch (25mm) throw made of steel and have a hardened insert.
- G. Locks shall have a 2-3/4" (70mm) backset, standard.
- H. Strikes shall be non-handed with a curved lip.
- To ensure proper alignment, trim, knobs or levers, shall be thru-bolted and fully interchangeable between rose and escutcheon.
- Locks shall have brass 6-pin cylinder, standard.
- K. Locks shall have a 5 year limited mechanical warranty, 2 year on electrical products.



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Founded in the early 1800s, SARGENT® is a market leader in locksets, cylinders, door closers, exit devices, electro-mechanical products and access control systems for new construction, renovation, and replacement applications. The company's customer base includes commercial construction, institutional, and industrial markets.

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