



E SERIES

Mortise and Rim Cylinders

STANLEY
Security Solutions

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1E SERIES — FEATURES

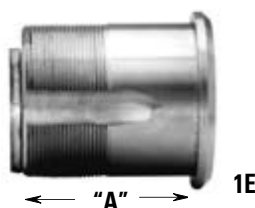
1E Mortise Cylinder

Standard mortise applications require use of BEST's 1E series cylinders with standard 1E-C4 cam. BEST cylinders may be altered to function with other manufacturers' locks by use of different cams (see page 8) and different cylinder rings (see page 9). Special cylinder variations are available for most applications (see pages 4 & 5). BEST cylinders are machined from brass or bronze bar stock and are available in a variety of finishes. Additional security is provided by a set screw that mounts diagonally in the cylinder wall and when tightened, holds the cylinder securely in the housing. BEST mortise cylinders feature the BEST interchangeable core and may be master-keyed into any existing BEST system. Contact your local Stanley Security Solutions sales office for information on special cylinder applications not listed in this catalog.



12E Rim Cylinder

Standard rim cylinder applications require the use of BEST's 1E rim cylinder series. BEST rim cylinders are interchangeable with other manufacturers' rim cylinders. BEST rim cylinders are machined from solid bar stock and are available in a variety of finishes. The standard package for the BEST rim cylinder includes cylinder, RP3 ring package, 1E-S2 spindle, clamp plate and clamp plate screws. BEST rim cylinders feature the BEST interchangeable core and may be masterkeyed into any existing Best system.



1E

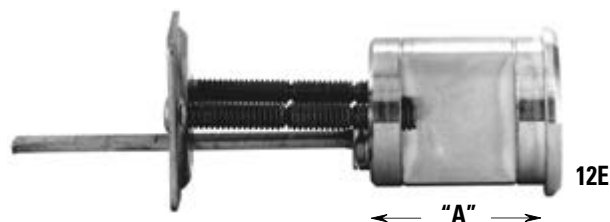
Specifications

Cylinder Nomenclature	Dimension "A"	Door Thickness
1E-64	1 1/8"	1 5/8" to 2 1/4"
1E-74	1 1/4"	1 3/8" to 2 1/2"

Cylinder diameter— 1 5/32"

To order: example: 1E74-C4-RP3-626

Products covered by on or more of the following patents:
5,590,555 5,794,472



12E

Specifications

Cylinder Nomenclature	Dimension "A"	Door Thickness
12E62	1 3/16"	1" to 2 3/4"
12E72	1 11/32"	1 1/4" to 3"

Cylinder diameter— 1 5/32"

To order: example: 12E72-S2-RP3-626

1E SERIES HOW TO ORDER

1E	7	4		C4	RP3	626	**
Series	Core Housing	Function Code	Length Code	Cam or Spindle	Rings	Finish	
See p. 12	0— dummy 6— 6-pin 7— 7 pin housing accepts all Best cores	See p. 12	(1E74 only) Blank— Standard 22— 1 3/8" 24— 1 1/2" up to 6"	C4— Standard cam C181— Adams Rite MS cam S2— Standard spindle	RP— Rim cylinder RP1— Tapered cylinder RP2— 6 pin mortise RP3— 7 pin mortise RP4— 3E mortise	626 690 Satin* 606 612 613 619 Bright* 605 611 625	
			(See page 4-5) (See code below)	(For special cams see page 8)	(For special rings see page 9)		

*Indicates extra cost

** Must specify keymark and number of keys or designate L/C for less core.

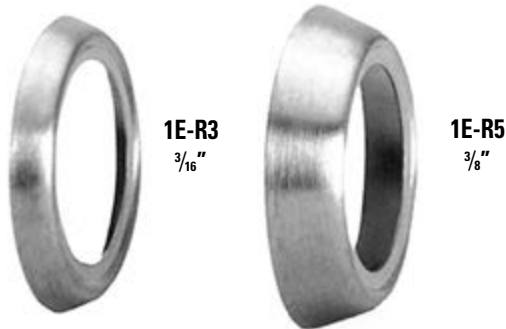


MORTISE AND

STANDARD RINGS

RP Standard Ring Package

The RP standard ring package includes a 1E-R3 ($\frac{3}{16}$ ") and 1E-R5 ($\frac{3}{8}$ ") ring.



RP Standard Ring Package

The RP standard ring package includes a 1E-R3 ($\frac{3}{16}$ ") and 1E-R5 ($\frac{3}{8}$ ") ring.



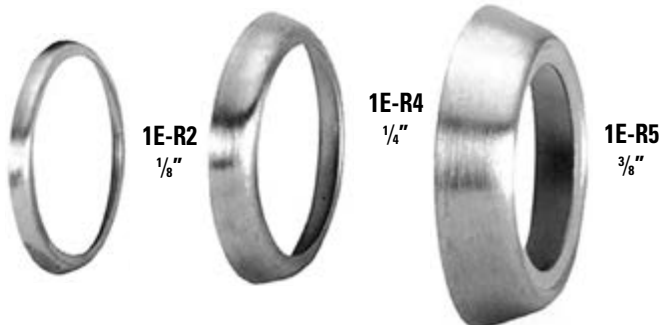
RP3 Ring Package

The RP3 ring package for the 1E-62, 1E-72 and 1E-74 cylinders includes a 1E-R2 ($\frac{1}{8}$ ") and a 1E-R5 ($\frac{3}{8}$ ")



RP5 Ring Package

The RP5 ring package for the 1E-62, 1E-72 and 1E-74 cylinders includes a 1E-R2 ($\frac{1}{8}$ "), 1E-R4 ($\frac{1}{4}$ ") and a 1E-R5 ($\frac{3}{8}$ ")



STANDARD CAM

Standard Cam for 1E-64, and 1E-74 Mortise Cylinders

Unless otherwise specified, the 1E-C4 cam plied on all 1E mortise cylinders.

Commonly used cams are listed on page 8.

If a cam other than the variety listed is needed, a sample cam should be forwarded to your local BEST office along with the lock manufacturer's name and lock series or identification number.



Standard
1E-C4 Cam

SPINDLES



1E-S2 Spindle (Steel) - A-40100-SH

1E-S3 Spindle (Bronze) - A-40100-Z

5" Spindle - A-54950; $\frac{5}{32}$ " Spindle - A-40101

The 1E-S2 flat spindle is supplied standard on all 1E rim cylinders. If marine application is necessary, request "marine construction" (1E-S3 bronze spindle and non-ferrous materials supplied). A five (5) inch spindle is available for thick door applications.

MORTISE SERVICE EQUIPMENT



ED211



ED212

ED211 Mortise Cylinder Wrench

The BEST mortise cylinder wrench and test handle is an essential dual-purpose tool. The double end is used primarily to install or remove BEST mortise cylinders without marring the cylinder surface finish. The single end may be used to test the lock operation, as well as align the throw pins.

To order specify: ED211 mortise cylinder wrench.

ED212 Mortise Cylinder Cam Assembly Tool

Mortise cylinder cams are quickly changed with the use of this tool. Approximate length $1\frac{3}{4}$ ".

To order specify: ED212 assembly tool.

ED221 Mortise Cylinder Thread Repair Die

Tool for re-threading $1\frac{5}{32}$ " diameter cylinders.

To order specify: ED221 thread repair die.

ED222 Cylinder Cam Testing Tool

Special cylinder / wrench assembly. Screws provide rapid means to install cams for testing.

To order specify: ED222 cam testing tool.

ED225 Hole Tap For $1\frac{5}{32}$ " Mortise Cylinder

Tap tool used to re-thread housing threads for 1E mortise cylinders.

A40095 Standard Throw Pins

RIM CYLINDERS



SPECIAL CYLINDERS

Special Length Mortise Cylinders Specifications

Diameter: 1 $\frac{5}{32}$ "

Uses: Special thickness doors

Length: See chart

Material: Solid brass or bronze

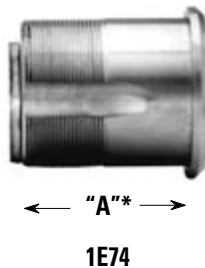
Cam: Standard 1E-C4 cam (see page 2)

supplied unless otherwise specified.

Rings: The RP2 (for 6 pin) and RP3 (for 7 pin) package are supplied standard (page 2) unless otherwise specified.

To order: Designate desired length from chart under length code step "D" as shown (page 2).

Example: 1E-74-32



Mortise Cylinder Length Chart		
Length "A"	Designate this number on step "D" of order procedure (page 2)	
1 $\frac{3}{8}$ "	22	Riveted cams
1 $\frac{1}{2}$ "	24	
1 $\frac{5}{8}$ "	26	
1 $\frac{3}{4}$ "	28	
1 $\frac{7}{8}$ "	30	
2"	32	Screw-on cams
2 $\frac{1}{8}$ "	34	
2 $\frac{1}{4}$ "	36	
2 $\frac{1}{2}$ "	40	
2 $\frac{3}{4}$ "	44	
3"	48	
3 $\frac{1}{2}$ "	56	
4"	64	
4 $\frac{1}{2}$ "	72	
5"	80	
5 $\frac{1}{4}$ "	88	
6"	96	

*ONLY AP TO 1E74

1 $\frac{1}{2}$ " Diameter Mortise Cylinder Specifications

Diameter: 1 $\frac{1}{2}$ "

Length: 6 pin-1 $\frac{1}{8}$ " ; 7 pin-1 $\frac{1}{4}$ "

Door thickness:

6 pin-1 $\frac{3}{8}$ " to 2 $\frac{1}{4}$ " (includes trim)

7 pin-1 $\frac{1}{8}$ " to 2 $\frac{1}{2}$ "

Material: Solid brass or bronze

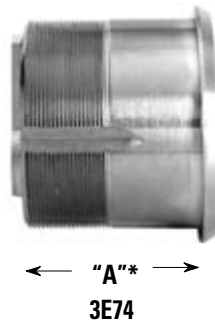
Cam: Standard 3E-C3 cam supplied unless otherwise specified.

Rings: The RP4 ring package is supplied with 3E cylinders. This package includes a 3E-R2 ($\frac{1}{8}$ ") and a 3E-R4 ($\frac{1}{4}$ ") ring.

To order: Designate "3E" on step "A" of order procedure (page 2) **Example:** 3E-74-C3-RP4-626

Options: 3E-04-Dummy, 3E-7A4-Turn knob, 3E-7B4-Dust Cover.

Adaptor ring to allow 1E74 cylinders to fit a 3E tapped hole - A26139.



Taper Head Mortise Cylinder Specifications

Diameter: 1 $\frac{5}{32}$ "

Length: 6 pin - $\frac{23}{32}$ " ; 7 pin - $\frac{3}{4}$ "

Door thickness: 6 pin- 1 $\frac{3}{8}$ " to

1 $\frac{3}{4}$ " (including trim)

7 pin- 1 $\frac{3}{8}$ " (including trim)

7 pin- 1 $\frac{3}{4}$ " (without trim)

Material: Solid brass or bronze

Cam: Standard 1E-C4 cam supplied unless otherwise specified.

Rings: The RP1 ring package (page 2) is supplied standard with all 1E taper cylinders (page 2).

To order: See page 2. **Example:** 1E-76-C181-626



Dummy Mortise and Rim Cylinders Specifications

Diameter: 1 $\frac{5}{32}$ "

Length: Mortise -1 $\frac{1}{8}$ " ; Rim -1 $\frac{1}{8}$ "

Material: Solid brass or bronze

Rings: Ring packages are supplied standard as follows:

Mortise: RP2 ring package(see page 2)

Rim: RP3 ring package (see page 3)

To order: Designate "0" on step "B" of order procedure (page 2)

Example: 1E-02

E04-slot in back-1ESPL-6-B4619

1E04-slot in back-1ESPL-7-B4620

1E02-slot in face-1ESPL-6-A5035

Special 1E04 with slot on back- 1ESPL-7-B4620

Special length 1E04 cylinders:

1 $\frac{1}{2}$ " - 1ESPL-7-A9619

1 $\frac{3}{4}$ " - 1ESPL-7-A20331



1E04



12E02

* Reference to Length "A" on Mortise Cylinder Length Chart.

Turn Knob Cylinders Specifications

Diameter: 1 $\frac{5}{32}$ "

Length: Mortise- 6 pin-1 $\frac{1}{8}$ " ; 1EA6A4

Rim- 6 pin-1 $\frac{3}{16}$ " - 1EA6A2

Material: Solid brass or bronze

Cam: Standard 1E-C140 cam supplied unless otherwise specified (see page 2).

Rings: Ring packages are supplied standard as follows (unless otherwise specified):

Mortise 6 pin: RP2 ring package

(see page 2)

To order: Designate "A4" on step "C" of order procedure (page 2).

Example: 1EA-6A4-C140-RP3-626

R-function turn knob cylinders

RH-1ESPL-6-B35401

LH-1ESPL-6-B35405

Special length cylinders

1.5"-1ESPL-6-A20336

1.75"-1ESPL-6- A20337

2"- 1ESPL-6-B23409



1EA6A

*ADA Turn Knob Shown

NOTE: These should not be used in conjunction with deadbolt function BEST mortise locks. To order the old style "UP" thumb turn contact your local BEST dealer.

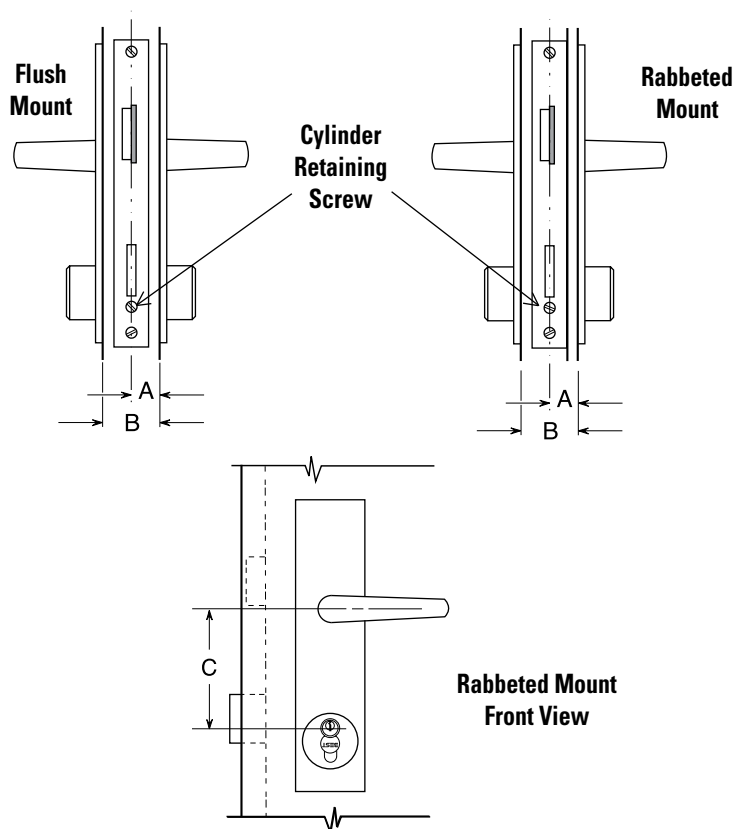
EUROCYLINDERS

SPECIAL EUROPROFILES

Mortise locksets from a number of different international manufacturers can be incorporated into your BEST masterkeyed system by replacing the cylinder with a Best Eurocylinder and 3C European interchangeable core. When ordering, please specify the lock manufacturer's name and their model number. Some Euro profile cylinders will accept Best standard core rather than the 3C core. Please specify the "E" option when ordering standard cores for use in Eurocylinders.

Best Access Systems order nomenclature and several required critical dimensions are listed below.

Please specify, as requested when ordering.



Critical Dimensions - Europrofile

"A" – Dimension to center of lockset case. Determined by measuring from set screw location to outside of door face.

"B" – Door thickness.

"C" – Dimension from center of key rotation to center of handle rotation, if other than 72mm. Maximum allowed – 114mm. Minimum allowed – 37mm



8EE7E5– Europrofile*
(* Requires use of 3C core)



8EH7H6– for locks manufactured
in Germany



3C– European Core

HOW TO ORDER: EUROPROFILE

8EE7E5	25mm	45mm	65mm	Keyed Alike	619
Eurocylinder	"A" Dimension	"B" Dimension	"C" Dimension	Keying Instructions	Finish: 619 - Satin Nickle Plated 626 - Satin Chrome Plated

1E-R7 RING CHART

Overall Length Available	Nomenclature if Ordered With Cylinder (see step "F" page 2)	Nomenclature if Ordered Without Cylinder
$\frac{1}{8}"$	R702	1E-R702
$\frac{3}{16}"$	R703	1E-R703
$\frac{1}{4}"$	R704	1E-R704
$\frac{5}{16}"$	R705	1E-R705
$\frac{3}{8}"$	R706	1E-R706
$\frac{7}{16}"$	R707	1E-R707
$\frac{1}{2}"$	R708	1E-R708
$\frac{9}{16}"$	R709	1E-R709
$\frac{5}{8}"$	R710	1E-R710
$\frac{11}{16}"$	R711	1E-R711
$\frac{3}{4}"$	R712	1E-R712



1E-R7 Straight Ring

Specifications - 1E-R7

To be used with BEST 1E series ($1\frac{1}{32}"$) Cylinders.

Dimensions– inside diameter- $1\frac{5}{32}"$, outside diameter $1\frac{5}{16}"$ length-see chart at left.

Material– solid brass or bronze

Finish– available in 605, 606, 612, 613, 625 and 626

1E-R8 RING CHART

Overall Length Available	Nomenclature if Ordered With Cylinder (see step "F" page 2)	Nomenclature if Ordered Without Cylinder
$\frac{1}{8}"$	R802	1E-R802
$\frac{3}{16}"$	R803	1E-R803
$\frac{1}{4}"$	R804	1E-R804
$\frac{5}{16}"$	R805	1E-R805
$\frac{3}{8}"$	R806	1E-R806
$\frac{7}{16}"$	R807	1E-R807
$\frac{1}{2}"$	R808	1E-R808
$\frac{9}{16}"$	R809	1E-R809
$\frac{5}{8}"$	R810	1E-R810
$\frac{11}{16}"$	R811	1E-R811
$\frac{3}{4}"$	R812	1E-R812
$\frac{13}{16}"$	R813	1E-R813
$\frac{7}{8}"$	R814	1E-R814
$\frac{15}{16}"$	R815	1E-R815
1"	R816	1E-R816

1E-R8 Tapered Slip Ring-
Wrench Resistant**Specifications - 1E-R8**

To be used with BEST 1E series ($1\frac{1}{32}"$) Cylinders.

Dimensions– inside diameter - $1\frac{5}{32}"$, inside rim counter-bored to protect cylinder head. Outside diameter - tapered $1\frac{1}{2}"$ to $1\frac{29}{32}"$ length-see chart at left.

Material– solid brass or bronze

Finish– available in 605, 606, 612, 613, 625 and 626

UTILITY CYLINDER LOCK



5E- $\frac{3}{4}$ " Cylinder

Specifications

The 5E utility cylinder lock fits standard $\frac{3}{4}$ " diameter cylinder installations such as wood or metal desks, file cabinets, vending machines, utility and storage cabinets, elevators and security alarm control panels. The complete 5E assembly includes a combined $\frac{3}{4}$ " cylinder with cam, hex nut, lock washer and spacer collar.

Maximum mounting surface thickness—5E utility cylinder locks may be mounted on surfaces with the following maximum thickness: **5E6**— $\frac{11}{16}$ ", **5E7**— $\frac{27}{32}$ "

Keying—May be keyed individually, keyed alike or masterkeyed into a new or existing Best standard masterkeyed security system.

Service—5E cylinders may be recombined and serviced onsite. Special service equipment is available (see Service Equipment Section of Best catalog).

Finish—626 satin chrome only

5E Combining and Service Accessories Nomenclature Item

Nomenclature	Item
A-8049	5E $\frac{3}{4}$ " Hex Nut
A-21068	Washer for cylinder body head
A-4845	Cam Screws
A-4045	Lock washer for cam screws
5ED261	5E capping block
5ED253	5E thread tap - $\frac{3}{4}$ " x #24
5ED254	5E $\frac{3}{4}$ " metal punch and die set (slab)
5ED262	5E cap depressor
5ECP6	Slide cap - 6 pin
5ECP7	Slide cap - 7 pin
5ES1	5E springs

***NOTE:** The 5E lock is not available for Premium and Peaks keying systems.

Refer To The Following Procedure When Ordering
See Order Example At Bottom Of Next Page.

A Cam Motion and Degree of Rotation

When ordering 5E cylinders, specify the cam motion type and degree of rotation. Available cam motion types are listed below. Different type motions are limited to different degrees of key rotations.

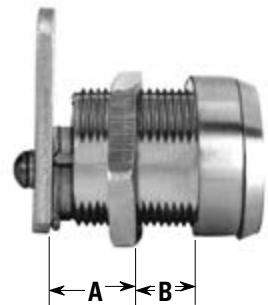
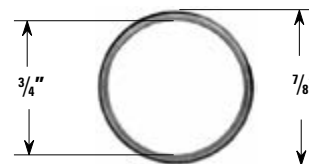
Type A—Direct motion - Key and cam rotation is direct.
Key may be removed in locked position only. Motion is 360 degrees right or left.

Type B—Limited motion - Key and cam rotation is direct.
Key may be removed in locked position only. Motion is limited to 90 degrees or 180 degrees right or left.

Type C—Lost motion. Cam rotates 90 degrees right or left.
Key rotates 360 degrees. Key removal with cam in locked or unlocked position.

Type D—Throw member drive - Key and drive motion is direct.
Key may be removed in locked position only. Motion is 360 degrees right or left.

B Determine Ring Length



A spacer collar may be required to position the cam for proper lock operation. The spacer collar is installed between the 5E cylinder head and the mounting surface. To determine the proper length of the spacer collar, add together: the desired distance from the cam to the inside of the mounting surface ("A" above) to the measured thickness of the mounting surface ("B" above). Then, subtract this total from: $\frac{31}{32}$ " when installing a 5E6, or $1\frac{1}{8}$ " when installing a 5E7. The remainder is the collar length, which is illustrated.

To properly order spacer collars, designate the following nomenclature for the length desired:

5E Spacer Collar Length Chart

Length	Nomenclature	To order separately
$\frac{1}{16}$ "	R701	5E-R701
$\frac{1}{8}$ "	R702	5E-R702
$\frac{3}{16}$ "	R703	5E-R703
$\frac{1}{4}$ "	R704	5E-R704
$\frac{5}{16}$ "	R705	5E-R705
$\frac{3}{8}$ "	R706	5E-R706
$\frac{7}{16}$ "	R707	5E-R707
$\frac{1}{2}$ "	R708	5E-R708

C Select Proper Cam Type

Cam

Cams for 5E cylinders are available with a number of variations to suit the particular application as required. Two major variations that must be designated on the order are: A.) The cam type, and B.) The cam length.

Cam Types

The following cam types are available for the Best 5E cylinder. Other designs are available upon request. (See page 8)



C1 Straight Cam Fixed Motion
C3 Straight Cam Lost Motion
4A&4B Offset Cam Lost Motion
2A&2B Offset Cam Fixed Motion

Cam Types Defined (Listed relative to motion/rotation)

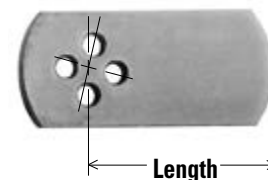
- C1**– Straight cam mounted for fixed motion operation (used in conjunction with type “A” and type “B” motions). To order cam separately, designate 5E-C1 and length from code chart at option D.
- C3**– Straight cam mounted for lost motion operation (used in conjunction with type “C” cam motions). To order cam separately, designate 5E-C3 and length from code chart at option D.
- 2A**– Offset cam (inward mount) for lost motion operation (used in conjunction with type “A” and type “B” motions). To order cam separately, designate 5E-C2A and length from code chart at option D.
- 2B**– Offset cam (outward mount) for fixed motion operation (used in conjunction with type “A” and type “B” motions). To order cam separately, designate 5E-C2B and length from code chart at option D.
- 4A**– Offset cam (inward mount) for lost motion operation (used in conjunction with type “C” cam motions). To order cam separately, designate 5E-C4A and length from code chart at option D.
- 4B**– Offset cam (outward mount) for lost motion operation (used in conjunction with type “C” cam motions). To order cam separately, designate 5E-C4B and length from code chart at option D.
- D**– Direct throw member drive and tailpiece. Throw pins engage cylinder to flat spindle tailpiece. The standard flat spindle tailpiece is 1 1/16" and may be cut to length desired. To order spindle separately, designate 5E-D.

D Determine Cam Length

Cam length is determined by measuring from center of the cam rotation to the tip of the cam.

Straight Cam

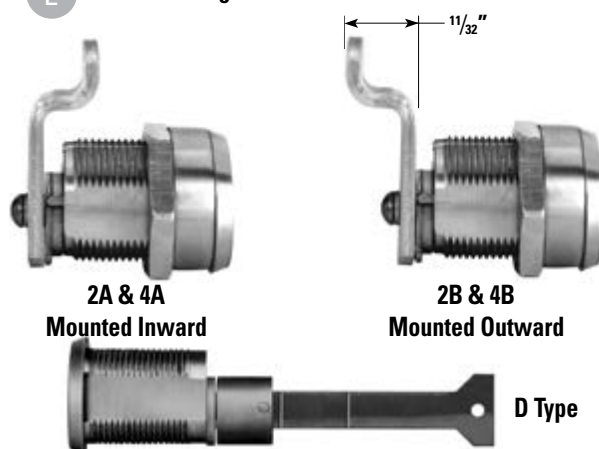
Length	Code #
5/8"	10
3/4"	12
7/8"	14
1"	16
1 1/4"	20
1 1/2"	24
2"	32
2 1/2"	40
3"	48
3 1/2"	56



Offset Cam

Length	Code #
1 1/16"	17
1 5/16"	21
1 13/16"	29
2 5/16"	37
2 13/16"	45

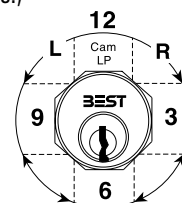
E Cam Mounting Position and Cam Direction



Direct Throw Member Drive and Tailpiece

Cams may be mounted in one of four “clock” positions as pictured below. Designate cam mounting and rotation direction (right-“R” left-“L”). Key is only removable in the locked position, unless ordering type C. (Available in locked and unlocked positions.)

3 o'clock = 3
6 o'clock = 6
9 o'clock = 9
12 o'clock = 12

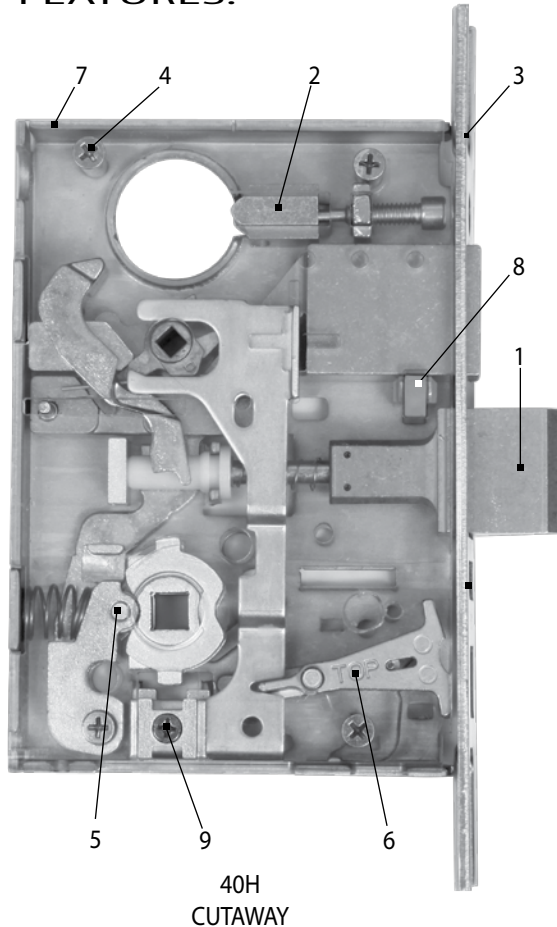


HOW TO ORDER

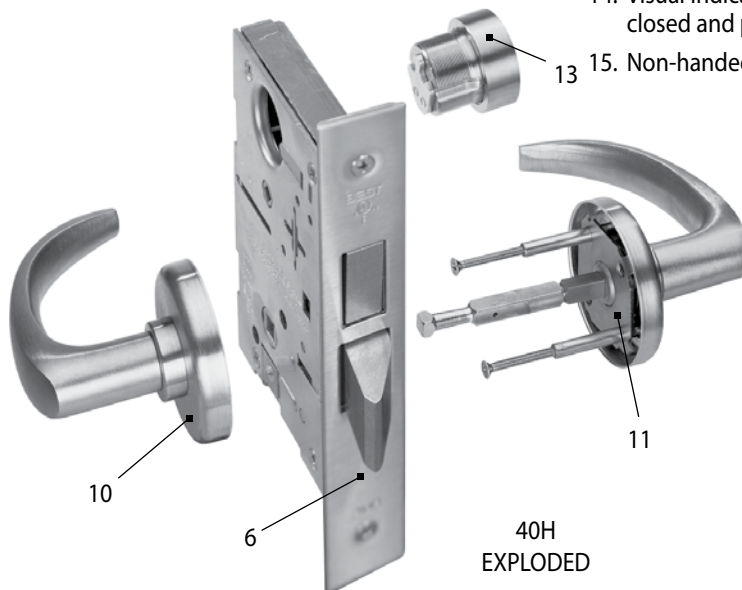
5E	7	A	1	C	R708	4B	20	12	R	90	626
Series	Lock Body	Keyway	Combining Code	Cam Motion	Ring Length	Cam Type	Cam Length	Mounting Position	Cam Direction	Degree of Rotation	Finish
5E-3/4"	6– 6 pin 7– 7 pin	designate specific keyway (A,E etc.) see note page 10.	1– uncomb. 2-A2 system 3-A3 system 4-A4 system	A-direct B-limited C-lost D-throw member drive (see A page 10)	R701- 1/16" R702- 1/8" R703- 3/16" R704- 1/4" R705- 5/16" R706- 3/8" etc (see B page 10)	C1-fixed straight 2A-fixed offset in 2B-fixed offset out C3-lost motion 4A-lost motion offset in 4B-lost motion offset out D-direct (see C above)	10- 5/8" 12- 3/4" 14- 7/8" 16- 1" etc., in 1/16" of an inch (see D above)	3– 3 o'clock 6– 6 o'clock 9– 9 o'clock 12– 12 o'clock (see E above)	R– right L– left (see E above)	90– 90° 180– 180° 360– 360° (see A page 10)	626 standard

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FEATURES.



1. Solid one-piece stainless steel anti-friction latch provides 50% more surface contact with strike for superior strength and security. Reversible latch rotates 180 degrees for easy handing change without opening case. Precision-engineered curve provides enhanced cycle life with reduced wear to the strike.
2. Non-handed cylinder retainer.
3. Armored front completely surrounds latch and deadbolt providing increased lateral strength. Staked assembly design allows the armored front to self-align with the door bevel during installation.
4. Enhanced case integrity achieved through four case cover screws (one at each corner), plus interlocking armored front and cover design at the latch.
5. Roller bearing hub mechanism provides smooth, wear resistant operation.
6. Locking toggle includes clear indication of "locked" and "unlocked" states.
7. 40H case, cover, and armored front manufactured from 0.095" cold rolled steel for strength and durability.
8. Fusible link.
9. Four position hub toggle design determines whether each hub is always locked, always unlocked, or locked by key for easy handing change without opening case.
10. Lever return spring mechanism located in trim for enhanced protection against lever droop, providing a firm, positive return of the lever to the horizontal position.
11. Self-aligning trim mechanism for fast, easy, and accurate installation.
12. Curved lip strike and strike box assembly provides an aesthetic, non-handed solution to complement field reversible case.
13. Solid machined cylinder rings with wavy washer provides resistance to wrenching of cylinder. Cylinder security screw prevents removal of cylinder without first removing interchangeable core.
14. Visual indicator shows a padlock icon open for unlocked and padlock icon closed and painted red for locked, as well as the visual indicator thumb-turn.
15. Non-handed stainless steel auxiliary bolt for ease of changing hand. (not shown)



14
Visual Indicators

Parts Ordering Made Easy

No more searching through service manuals or calling technical support for the right part numbers. BEST™ has developed a variety of kits you can order when you only need part of a 40H mortise, rather than the whole lock.

Case Only

A Case Only lock includes all parts normally included with a complete lock that are not specifically associated with either the inside or outside trim, including: lock case, face plate, strike and strike box, fasteners (for case and strike), and installation instructions.

Case Only mortise locks will be shipped in the standard mortise packaging, allowing trim kits to be included at a future date to make a complete lock.

Trim Kit

A 40H Trim Kit is simply one half of a complete trim package. An Outside Trim Kit must always be matched up with an Inside Trim Kit to operate with a lock. Each kit includes all the necessary parts (including fasteners) required for installation that are associated with just the one side of the door.

Lever Set

A lever set kit provides the inside lever assembly (with set screw) and outside lever assembly (with spindle attached). Thick Door and Tactile Lever options are available for this kit.

Faceplate Kit

Face Plate kit includes a finished faceplate and the appropriate screws. Security Head screws are an option for this kit.

Replacement Spindle

As a security feature, the outside spindle on the 40H is designed to twist off during abuse before any internal damage to the lock occurs. The Replacement Spindle kit is a quick, easy, and inexpensive way to replace any spindles damaged by attack or abuse. This kit includes the inside and outside spindles, plus the pin to attach the outside lever.

Screw Kit

Nothing's more frustrating than spending time searching for the part number of a single screw. With the 40H Screw Kits, you don't have to worry about that anymore. These kits have been designed to provide all the necessary fasteners for one lock in a single bag. All you need to know is the trim style and finish, and you're set. Security head screws are an option for this kit.

FUNCTION LETTER CHART

ANSI	45H/47H	ANSI	45H/47H
	1DT	F19	L
	2DT	F02	LB
F04	A		LT
F20	AB	F01	N
F04	AT	F31	NX
F21	B	F05	R
	B5	F06	RHB
	B7	F35	S
F08/F10	BA	F13	T
	BW	F12	TA
F09	C		TD
	CHB	F30	W
F07	D	F17	AD
F14	G	F29	RD
F15	H	F16	WD
F15	HJ	F18	YD
F34	INA		UNR
F33	IND		UNT
F32	INL		UNAB



S1 – Standard strike



S5 – Latchbolt-only strike



S6 – Latchbolt/Deadbolt

STRIKE PACKAGES

Strike Packages

S1 – Standard strike:

4 7/8" x 1 1/4" x 3/32", non-handed, curved lip, 1 1/4" lip to center strike. Fits standard door frame ANSI A115.1, and comes with plastic strike box.

S5 – Latchbolt-only strike:

4 7/8" x 1 1/4" x 3/32", handed, curved lip, 1 1/4" lip to center strike. Fits standard door frame ANSI A115.1, and comes with wrought steel strike box.

S6 – Latchbolt/Deadbolt strike:

4 7/8" x 1 1/4" x 3/32", handed, curved lip, 1 1/4" lip to center strike. Fits standard door frame ANSI A115.1, and comes with wrought steel strike box.

40H SERIES - STANDARD LEVERS, KNOB & TRIMS



Knob- 4
Rose - H



Knob- 4
Rose - R



Knob- 4
Rose - S



Knob- 4
Escutcheon - J



Knob- 4
Escutcheon - N



Lever- 3
Rose - H



Lever- 12
Rose - H



Lever- 14
Rose - H



Lever- 15
Rose - H



Lever- 16
Rose - H



Lever- 17
Rose - H



Lever- 3
Rose - R



Lever- 12
Rose - R



Lever- 14
Rose - R



Lever- 15
Rose - R



Lever- 16
Rose - R



Lever- 17
Rose - R

40H SERIES - STANDARD LEVERS, KNOB & TRIMS



Lever-3
Rose - S



Lever-12
Rose - S



Lever-14
Rose - S



Lever-15
Rose - S



Lever-16
Rose - S



Lever-17
Rose - S



Lever-3
Escutcheon - J



Lever-12
Escutcheon - J



Lever-14
Escutcheon - J



Lever-15
Escutcheon - J



Lever-16
Escutcheon - J



Lever-17
Escutcheon - J



Lever-3
Escutcheon - M



Lever-12
Escutcheon - M



Lever-14
Escutcheon - M



Lever-15
Escutcheon - M



Lever-16
Escutcheon - N



Lever-17
Escutcheon - N

40H SERIES - DECORATIVE LEVERS



50



51



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66



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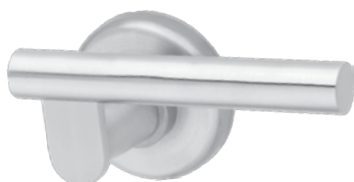
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40H SERIES - DECORATIVE LEVERS



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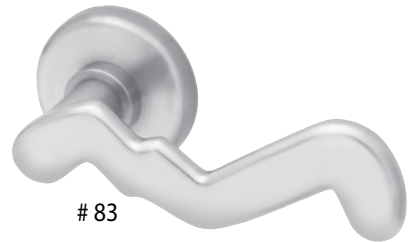
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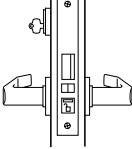
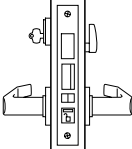
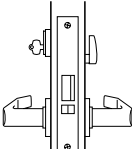
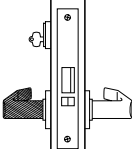
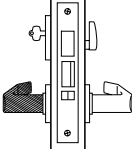
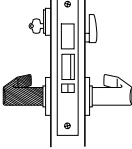
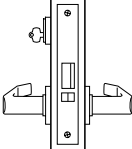
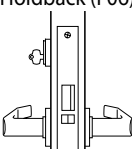


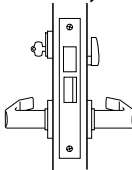
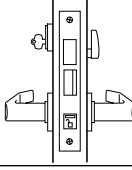
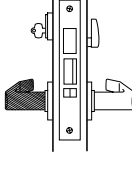
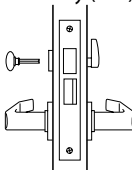
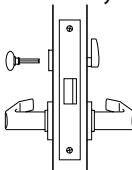
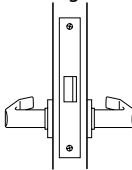
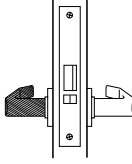
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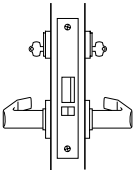
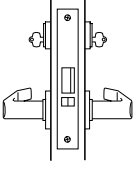
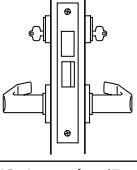
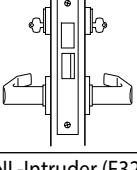
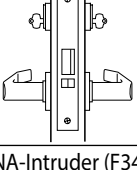
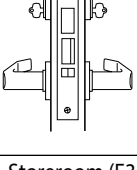
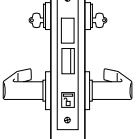
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FUNCTIONS

Function & Diag.	Description	Outside Lever or Knob			Inside Knob/Lever	
ANSI No.	Latch operated by	Deadbolt operated by	Locked by	Unlocked by	Locked by	Unlocked by
Single Keyed						
A-Office (F04) 	<ul style="list-style-type: none"> Rotating inside lever, Rotating outside lever—only when locking toggle is in unlocked position, Turning key in outside cylinder. 	N/A	Placing locking toggle in locked position	Placing locking toggle in unlocked position	Cannot be locked	Always unlocked
The latchbolt is deadlocked with an auxiliary deadlatch						
AB-Office (F20) 	<ul style="list-style-type: none"> Rotating inside lever, Rotating outside lever—only when locking toggle is in unlocked position, Turning key in outside cylinder. 	<ul style="list-style-type: none"> Turning key in outside cylinder, Inside turn lever, Inside lever retracts deadbolt and latch simultaneously. 	<ul style="list-style-type: none"> Placing locking toggle in locked position, Projecting dead-bolt by key or turn lever. 	Turning key in outside cylinder and placing locking toggle in unlocked position	Cannot be locked	Always unlocked
The latchbolt is deadlocked with an auxiliary deadlatch						
AT-Office (F04) 	<ul style="list-style-type: none"> Rotating inside lever, Rotating outside lever only when unlocked by key or turn lever, Turning key in outside cylinder. 	N/A	<ul style="list-style-type: none"> Turning inside lever, Turn key in outside cylinder. 	<ul style="list-style-type: none"> Turning inside turn lever, Turning key in outside cylinder. 	Cannot be locked	Always unlocked
The latchbolt is deadlocked with an auxiliary deadlatch						
D-Storeroom (F07) 	<ul style="list-style-type: none"> Rotating inside lever, Turning key in outside cylinder. 	N/A	Always locked	Cannot be unlocked	Cannot be locked	Always unlocked
The latchbolt is deadlocked with an auxiliary deadlatch						
H-Hotel (F15) 	<ul style="list-style-type: none"> Rotating inside lever, Turning key in outside cylinder. 	<ul style="list-style-type: none"> Turning inside turn lever, Turning emergency key in O/S cylinder. (Rotating inside lever retracts deadbolt and latch simultaneously.) 	Always locked	Cannot be unlocked	Cannot be locked	Always unlocked
The latchbolt is deadlocked with an auxiliary deadlatch. Throwing deadbolt blocks out all keys except "ER" key.						
HJ-Hotel (F15) 	<ul style="list-style-type: none"> Rotating inside lever, Turning key in outside cylinder. 	<ul style="list-style-type: none"> Turning inside turn lever, Turning emergency key in O/S cylinder. (Rotating inside lever retracts deadbolt and latch simultaneously.) 	Always locked	Cannot be unlocked	Cannot be locked	Always unlocked
The latchbolt is deadlocked with an auxiliary deadlatch. Throwing deadbolt blocks out all keys except "ER" key.						
R-Classroom (F05) 	<ul style="list-style-type: none"> Rotating inside lever, Rotating outside lever only when unlocked by key, Turning key in outside cylinder. 	N/A	Turning key in outside cylinder	Turning key in outside cylinder	Cannot be locked	Always unlocked
The latchbolt is deadlocked with an auxiliary deadlatch						
RHB-Classroom Holdback (F06) 	<ul style="list-style-type: none"> Rotating inside lever, Turning key in outside cylinder, O/S lever except when locked by outside key, Latchbolt held retracted by turning O/S key while holding up I/S lever. 	N/A	Turning key in outside cylinder	Turning key in outside cylinder	Cannot be locked	Always unlocked
The latchbolt is deadlocked with an auxiliary deadlatch						

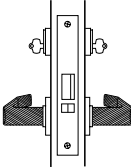
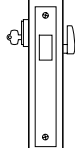
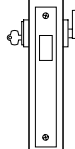
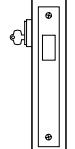
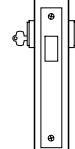
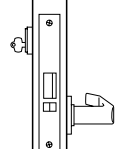
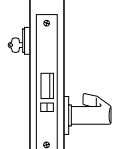
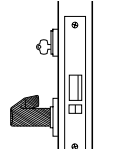
Function & Diag.	Description	Outside Lever or Knob			Inside Knob/Lever	
ANSI No.	Latch operated by	Deadbolt operated by	Locked by	Unlocked by	Locked by	Unlocked by
Single Keyed (continued)						
T-Dormitory (F13) 	<ul style="list-style-type: none">Rotating inside lever,Rotating outside lever—only when deadbolt is retractedTurning key in out side cylinder.	<ul style="list-style-type: none">Turning key in out-side cylinder,Inside turn lever,Inside lever retracts deadbolt and latch simultaneously.	<ul style="list-style-type: none">Turning key in outside cylinder,Turning inside turn lever.	<ul style="list-style-type: none">Turning key in outside cylinder,Turning inside turn lever.Rotating inside lever.	Cannot be unlocked	Always unlocked
TA- Dormitory (F12) 	<ul style="list-style-type: none">Rotating inside lever,Rotating O/S lever only when locking toggle is in unlocked position and deadbolt is retracted,Turning key in outside cylinder.	<ul style="list-style-type: none">Turning key in outside cylinder,Turning inside turn lever. (Rotating inside lever retracts deadbolt and latch simultaneously.)	<ul style="list-style-type: none">Placing locking toggle in locked position,Projecting deadbolt by key or turn lever.	Turning key in outside cylinder and placing locking toggle in unlocked position	Cannot be locked	Always unlocked
TD-Dormitory 	<ul style="list-style-type: none">Rotating inside lever,Turning key in outside cylinder.	<ul style="list-style-type: none">Turning inside turn lever,Rotating inside lever retracts deadbolt and latch simultaneously.),Turning key in out-side cylinder.	Always locked	Cannot be unlocked	Cannot be unlocked	Always unlocked
The latchbolt is deadlocked with an auxiliary deadlatch						
Non-Keyed						
L-Privacy (F19) 	<ul style="list-style-type: none">Rotating inside lever,Rotating outside lever only when deadbolt is retracted.	<ul style="list-style-type: none">Turning the emergency key,Turning inside turn lever. (Rotating inside knob/lever retracts deadbolt and latch simultaneously.)	<ul style="list-style-type: none">Turning inside turn lever,Turning the emergency key.	<ul style="list-style-type: none">Turning inside turn lever,Rotating inside lever retracts latch and dead-bolt simultaneously,Turning the emergency key.	Cannot be locked	Always unlocked
LT-Privacy 	<ul style="list-style-type: none">Rotating inside lever,Rotating outside lever only when turn knob is unlocked.	N/A	<ul style="list-style-type: none">Turning inside turn lever,Turning the emergency key.	<ul style="list-style-type: none">Turning inside turn lever,Rotating inside lever,Turning the emergency key.	Cannot be locked	Always unlocked
N-Passage (F01) 	Rotating inside or outside lever	N/A	Cannot be locked	Cannot be locked	Cannot be locked	Cannot be locked
NX-Exit (F31) 	Rotating inside lever	N/A	Always locked	Cannot be locked	Cannot be locked	Always unlocked
The latchbolt is deadlocked with an auxiliary deadlatch						

FUNCTIONS

Function & Diag.	Description	Outside Lever or Knob			Inside Knob/Lever	
ANSI No.	Latch operated by	Deadbolt operated by	Locked by	Unlocked by	Locked by	Unlocked by
Double Keyed						
*C-Public Entrance (F09) 	<ul style="list-style-type: none"> Rotating inside lever, Rotating outside lever only when unlocked by key in inside cylinder, Turning key in outside cylinder only. 	N/A	Turning key in inside cylinder	Turning key in inside cylinder	Cannot be locked	Always unlocked
The latchbolt is deadlocked with an auxiliary deadlatch. When required, inside cylinder may be combined to operate by master key only.						
CHB-Holdback 	<ul style="list-style-type: none"> Turning outside key, Rotating outside lever only when unlocked by key in inside cylinder, Inside lever, Latchbolt held retracted by turning inside key while holding up on inside lever. 	N/A	Turning key in inside cylinder	Turning key in inside cylinder	Cannot be locked	Always unlocked
The latchbolt is deadlocked with an auxiliary deadlatch.						
G-Communicating (F14) 	<ul style="list-style-type: none"> Latch operated from either side only when the deadbolt is retracted. 	Turning key in outside or inside cylinder	Turning key in inside or outside cylinder	Turning key in inside or outside cylinder	Turning key in inside or outside cylinder	Turning key in inside or outside cylinder
IND-Intruder (F33) 	<ul style="list-style-type: none"> Turning key in inside or outside cylinder, Rotating outside lever when deadbolt is retracted, Rotating inside lever. 	<ul style="list-style-type: none"> Turning key in outside or inside cylinder, Rotating inside lever (Retracts the deadbolt and latch simultaneously). 	Extending the deadbolt by turning key in inside or outside cylinder	<ul style="list-style-type: none"> Retracting the deadbolt by turning key in inside or outside cylinder, Rotating inside lever (Retracts the deadbolt and latch simultaneously). 	Cannot be locked	Always unlocked
INL-Intruder (F32) 	<ul style="list-style-type: none"> Rotating inside lever, Rotating outside lever only when unlocked by inside or outside key, Turning key in inside or outside cylinder. 	N/A	Turning key in inside or outside cylinder	Turning key in inside or outside cylinder	Cannot be locked	Always unlocked
The latchbolt is deadlocked with an auxiliary deadlatch. When required, inside cylinder may be combined to operate by master key only.						
INA-Intruder (F34) 	<ul style="list-style-type: none"> Turning key in inside or outside cylinder, Rotating outside lever when deadbolt is retracted, Rotating inside lever. 	<ul style="list-style-type: none"> Turning key in outside or inside cylinder, Rotating inside lever (Retracts the deadbolt and latch simultaneously). 	Extending the deadbolt by turning key in inside or outside cylinder	<ul style="list-style-type: none"> Retracting the deadbolt by turning key in inside or outside cylinder, Rotating inside lever (Retracts the deadbolt and latch simultaneously). 	Cannot be locked	Always unlocked
The latchbolt is deadlocked with an auxiliary deadlatch. When required, inside cylinder may be combined to operate by master key only.						
*S-Storeroom (F35) 	<ul style="list-style-type: none"> Rotating inside lever, Rotating outside lever only when locking toggle is in unlocked position and deadbolt is retracted, Turning key in inside or outside cylinder. 	Turning key in inside or outside cylinder	Placing locking toggle in locked position	Turning key in outside cylinder or inside cylinder and placing locking toggle in unlocked position	Extending the deadbolt	Retracting the deadbolt

***ATTENTION:** Locksets that secure both sides of the door are controlled by building codes and the Life Safety Code®. In an emergency exit situation, failure to quickly unlock the inside lever could be hazardous or even fatal.

FUNCTIONS

Function & Diag.	Description	Outside Lever or Knob			Inside Knob/Lever	
ANSI No.	Latch operated by	Deadbolt operated by	Locked by	Unlocked by	Locked by	Unlocked by
Double Keyed (continued)						
	*W-Storeroom (F30) Turning key in inside or outside cylinder	N/A	Always locked	Cannot be unlocked	Alwayslocked	Cannot be unlocked
	The latchbolt is deadlocked with an auxiliary deadlatch. When required, inside cylinder may be combined to operate by master key only.					
Deadlocks						
	AD-Deadlock (F17)	N/A	<ul style="list-style-type: none">Turning key in outside cylinderTurning inside turn lever.	N/A	N/A	N/A
	RD-Classroom Deadlock (F29)	N/A	<ul style="list-style-type: none">Turning key in outside cylinderTurning inside turn lever.*	N/A	N/A	N/A
	*Function RD—the inside turn knob retracts deadbolt but will not project it. (Specify hand of door.) Only for 1 - 3/4" doors.					
	IYD-Deadlock (F18)	N/A	Turning key in outside cylinder only	N/A	N/A	N/A
	WD-Deadlock (F16)	N/A	Turning key in outside or inside cylinder	N/A	N/A	N/A
	The latchbolt is deadlocked with an auxiliary deadlatch. When required, inside cylinder may be combined to operate by master key only.					
Special						
	XR-Classroom	<ul style="list-style-type: none">Rotating inside lever,Turning key in outside cylinder.	N/A	N/A	N/A	Cannot be locked Always unlocked
	*XRHB-Classroom Holdback	<ul style="list-style-type: none">Rotating inside lever,Turning key in outside cylinder.Latchbolt held retracted by turning O/S key while holding up I/S lever	N/A	N/A	N/A	Cannot be locked Always unlocked
	The latchbolt is deadlocked with an auxiliary deadlatch					
	*ZD-Storeroom	Turning key in outside cylinder	N/A	Always locked	Cannot be unlocked	N/A
	The latchbolt is deadlocked with an auxiliary deadlatch					

***ATTENTION:** Locksets that secure both sides of the door are controlled by building codes and the Life Safety Code[®]. In an emergency exit situation, failure to quickly unlock the inside lever could be hazardous or even fatal.

48H/49H SERIES-MORTISE DEADLOCKS

Specifications

Case: 0.095" cold rolled steel, 3 ³/₈" x 4 ³/₁₆" x 1". Steel is zinc dichromate plated for corrosion protection.

Faceplate: Brass or bronze material, 5 ³/₈" x 1 ³/₁₆" x ⁷/₃₂".

Strike: Brass, bronze, or stainless steel base material.

48HS1: Flat strike supplied standard, 3 ¹/₂" x 1 ¹/₈" x ³/₃₂".

Fits standard door frame cut-out as specified in ANSI A115.5.

48HS2: Lipped strike supplied as option, 4 ⁷/₈" x 1 ¹/₄" x ³/₃₂".

Fits standard door frame cut-out as specified in ANSI A115.1.

Backset: 2 ³/₄"

Door Thickness: Standard lock configuration designed for doors 1 ³/₄" thick.

Thick door configuration available for doors up to 3" thick (specify thickness when ordering).

NOTE: "R" function not available for thick door.

Deadbolt: Stainless steel, 1" throw

Trim:

48H: Cylinder and trim ring only.

49H: M escutcheon supplied; refer to 47H specification for dimensions.

Finishes:

48H: Available in all finishes offered for 45H.

49H: Available in 626 only.



48H/49H FUNCTION CHART

Function & Diag. BHMA#	Deadbolt operated by:	Function & Diag. BHMA#	Deadbolt operated by:
*K-Cylinder Deadlock EO6071	<ul style="list-style-type: none"> Rotating the inside thumb turn rosette, Turning the outside key. 	*M-Cylinder Deadlock EO6061	Turning the outside or inside key
*L-Cylinder Deadlock EO6081	Turning the outside key	*R-Cylinder Deadlock EO6091	<ul style="list-style-type: none"> Turning the outside key, Rotating the inside thumb turn cylinder assembly retracts the deadbolt, but will not project it.

ATTENTION: Locksets that secure both sides of the door are controlled by building codes and the Life Safety Code. In an emergency exit situation, failure to quickly retract the deadbolt could be hazardous or even fatal.

NOTE: Specify the hand of door when ordering. The R function deadlock can only be used on 1 ³/₄" thick doors.

HOW TO ORDER - 48H/49H SERIES

40H	7	K	S!	626	
Series	Core Housing	Function Code		Standard Finishes	Options
48H- standard 49H-highsecurity	0-less cylinder (48H only) 7-7-pin housing 48H accepts all Best cores; 49H only 5C cores; 49H- 626 ONLY	K- cylinder x turn L- cylinder only M- double cylinder R- classroom cylinder x turn	S1- flat strike (default) S2- ANSI strike	48H- 605 606 611 612 613 618 619 625 626 690 49H- 626 ONLY	48H: SH- security head 49H: K- non UL cylinder

**Must specify key mark and number of keys or designate L/C for less core.

STANDARD MORTISE CYLINDER

Standard 1E74 Mortise Cylinder

Designed for standard security applications, BEST® offers the 45H/48H mortise locksets, utilizing the 1E74 mortise cylinder and special interchangeable core. Special cylinder variations are available for most applications. Stanley/Best cylinders are machined from solid brass or bronze bar stock. Additional security is provided by a set screw that mounts diagonally into the cylinder wall. This set screw prevents unauthorized removal of the cylinder without use of the control key.

1E74 Cylinder Specifications

Diameter: 1 ⁵/₃₂" 1.150-32 (NS-2A) threaded mortise cylinder.

Length: 1 ¹/₄"

Material: Brass or bronze.

Finish: Supplied to match mortise lockset trim (see specifications, page 3).

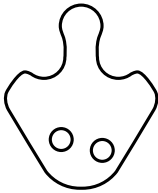
Cylinder Ring: Wrench resistant ring with tension spring, machined from all brass or bronze.

Proper length automatically provided with lockset. For more ring information see cylinder catalog.

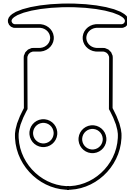
Cam: Proper cam provided for cylinder as required by designated function on order. Special cams available; see cylinder catalog section.



1E74
Standard Mortise Cylinder



Standard C258 Cam



C293 Cam

All functions except O/S C and CHB O/S C and CHB Functions only

HIGH SECURITY CYLINDER

1E7J4 High Security Cylinder

Designed for high security applications, BEST® offers the 47H/49H mortise locksets, utilizing the 1E7J4 high security cylinder and special 5C interchangeable core. This special cylinder is listed by Underwriters Laboratories as conforming to Standard UL437 for high security cylinders. The patented cylinder provides additional strength through a hardened stainless steel alloy ring, face and keyway disc. It is available in most keyed functions (All functions are certified to ANSI A156.13 Security Grade 1.) and is supplied only with "M" trim. Cylinder also conforms to ANSI A156.5 Mortise Cylinder, Grade 1A.

NOTE: 1E7J4 must be combined at factory to comply to UL437. 1E7K4 is combined in the field and may be ordered less core.



1E7J4
High Security Cylinder

1E7J4 Cylinder Specifications

Diameter: 1 ⁵/₃₂" 1.150-32 (NS-2A) threaded mortise cylinder.

Length: 1 ¹/₁₆"

Materials: Brass and stainless steel.

Finish: Stainless steel base plated to match 626 finish.

Cylinder Ring: High security wrench resistant, machined from stainless steel, hardened. Proper length automatically provided with lockset. Special door preparation required. Diameter of hole 1 ³/₄".

Cylinder Face,

Keyway Disc: Stainless steel, hardened.

Cam: Proper cam provided for cylinder as required by designated function order.

NOTE: 1E7J4 requires long blade key for operation.



47H Mortise Lock
with #4 knob



47H Mortise Lock
with #14 lever

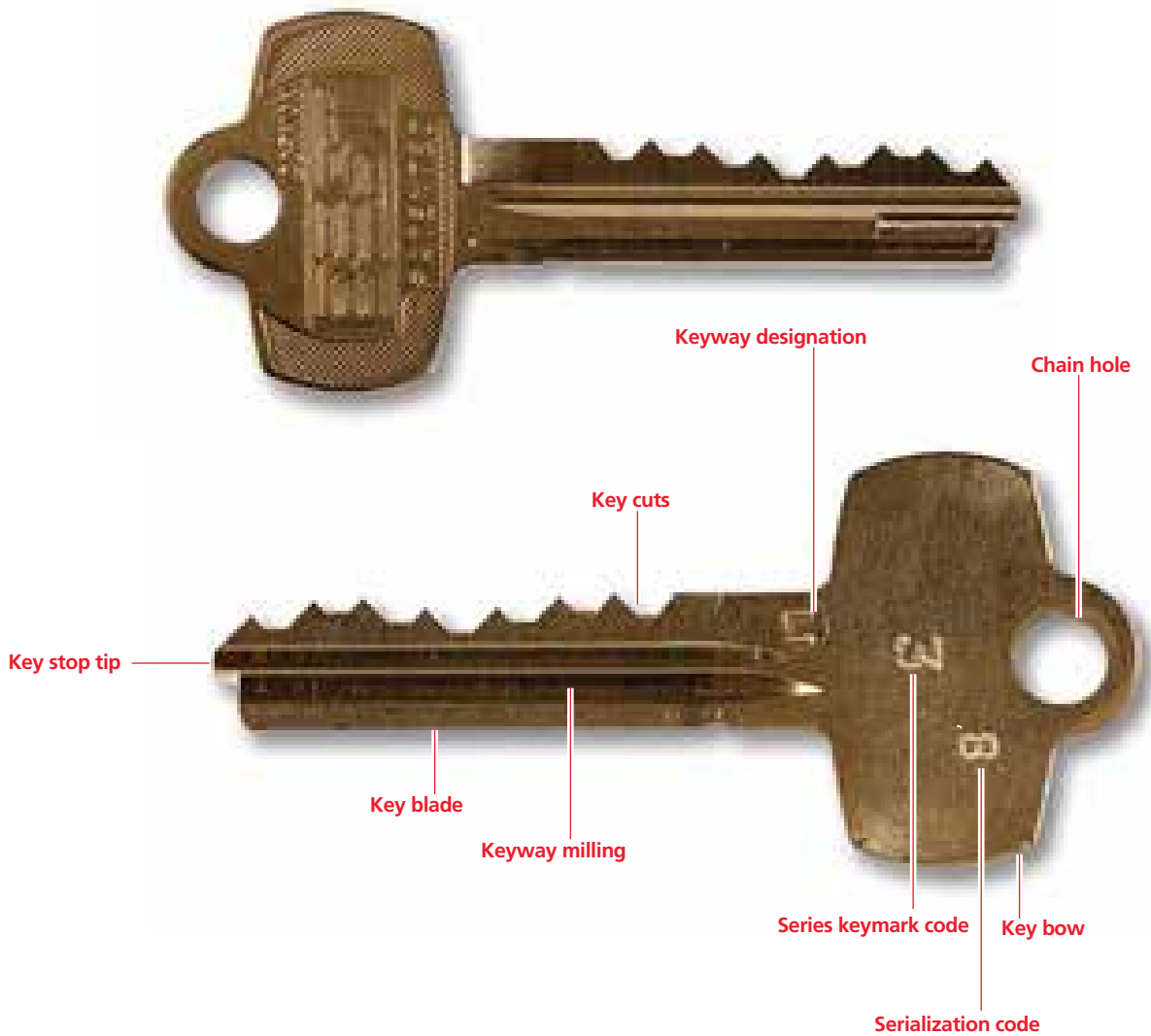


Setting the Standard for Security

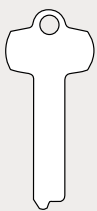
Key and Core

CATALOG

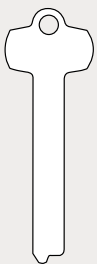




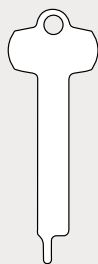
KEY TYPES



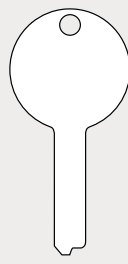
1A
Standard



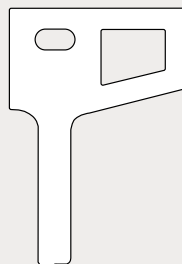
1A
Long Blade



1A
Long Nose



2A
Round Bow
*Available with/without
chain hole*



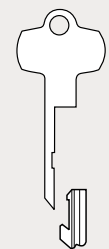
4A
Access Bow
*Comes with/without
window for plastic insert*



1AP
Premium
*For use with
1CP core*



3AP
Rectangular Bow



9A
Blockout Blade
with Extractor Key