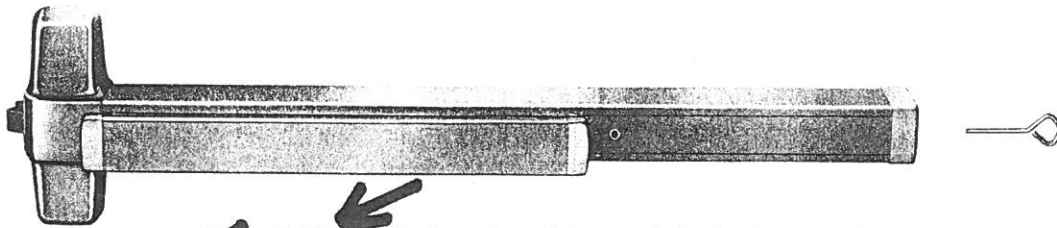


# VON DUPRIN®

## 98/99 Rim Devices



**98 and 99 rim devices** for all types of single doors and double doors with mullion, UL listed for accident hazard installations. Covers stock hollow metal doors with 86 or 161 cutouts.



299

### FEATURES

- Nonhanded
- Field sizeable
- $\frac{3}{4}$ " (19mm) throw, latch bolt
- Latch bolt deadlocking
- Eight popular finishes
- Hex key dogging

### DIMENSIONS

Touchbar height to finished floor	39 $\frac{13}{16}$ " (935mm) at center
Touchbar projection —	
neutral	3 $\frac{13}{16}$ " (97mm)
depressed	3 $\frac{1}{16}$ " (78mm)
Center case	8" $\times$ 2 $\frac{1}{4}$ " $\times$ 2 $\frac{3}{4}$ " (203mm $\times$ 57mm $\times$ 70mm)
Device length — Short 3'	2'6" to 3' (762mm to 914mm) door size
Long 4'	3'1" to 4' (940mm to 1219mm) door size

### OUTSIDE TRIM

#### Standard

990NL-R/V  
990TP-R/V  
990DT  
110NL-MD  
991K-R/V  
992L-R/V

#### Optional

990EO  
696NL-R/V  
696TP-R/V  
696DT  
697NL-R/V  
697TP-R/V  
697DT  
KP992L-R/V  
994L-R/V  
110NL-WD  
392-7

For complete outside trim information, see pages 18-19.

### STRIKES AND FASTENERS

Device is furnished with standard 299 strike in dull black finish. All necessary fasteners are included. Optional strikes and finishes are available. For strike applications, dimensions, and minimum door stile information refer to pages 22, 23.

A combination of fasteners are included for surface mounting and through bolting to trim on 1 $\frac{3}{4}$ " (44mm) and 2 $\frac{1}{4}$ " (57mm) thick doors.

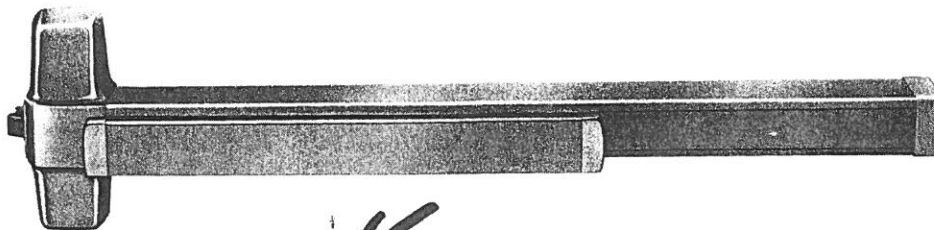
### DEVICE OPTIONS

Electric latch retraction, page 24  
Pneumatic latch retraction, page 27  
Electric rim device, page 25  
Request to exit switch, page 26  
Latch bolt monitoring, page 26  
Signal switch, page 26  
Cylinder dogging, page 30  
Double cylinder, page 27

**For How-To-Order Information on all devices, see page 35.**

# VON DUPRIN®

## 98/99 Fire Exit Rim Devices



**98-F and 99-F fire exit rim devices** for all types of 4' x 8' (1219mm x 2438mm) single doors or 8' x 8' (2438mm x 2438mm) double doors with 9954 or 9854 mullion, UL listed for fire exit hardware, 3 hour rating.



299F

499F

### FEATURES

- Nonhanded
- Field sizeable
- $\frac{3}{4}$ " (19mm) throw, latch bolt
- Latch bolt deadlocking
- Eight popular finishes

### DIMENSIONS

Touchbar height to finished floor	39 $\frac{13}{16}$ " (935mm) at center
Touchbar projection — neutral	3 $\frac{13}{16}$ " (97mm)
depressed	3 $\frac{1}{16}$ " (78mm)
Center case	8" x 2 $\frac{1}{4}$ " x 2 $\frac{3}{4}$ " (203mm x 57mm x 70mm)
Device length — Short 3'	2'6" to 3' (762mm to 914mm) door size
Long 4'	3'1" to 4' (940mm to 1219mm) door size

### STRIKES AND FASTENERS

Device is furnished with standard 299F strike in dull black finish (optional finishes are available) for single door applications. All necessary fasteners are included. Optional 499F strike is **required** on double doors. For strike applications, dimensions, and minimum door stile information refer to pages 22, 23.

A combination of fasteners are included for surface mounting and through bolting to trim on 1 $\frac{3}{4}$ " (44mm) and 2 $\frac{1}{4}$ " (57mm) thick doors.

### DEVICE OPTIONS

- Electric latch retraction, page 24
- Pneumatic latch retraction, page 27
- Electric rim device, page 25
- Request to exit switch, page 26
- Latch bolt monitoring, page 26
- Signal switch, page 26
- Double cylinder, page 27

### OUTSIDE TRIM

#### Standard

990NL-R/V  
990TP-R/V  
110NL-MD  
991K-R/V  
992L-R/V

#### Optional

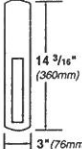
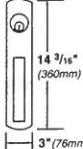

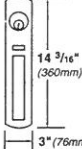
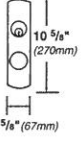
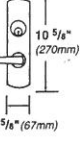
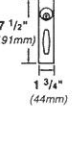
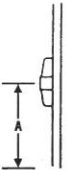
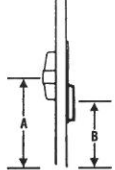
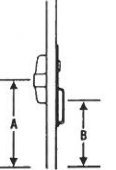
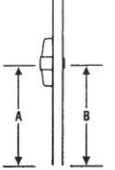
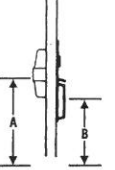
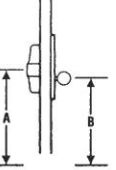
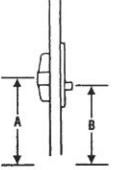
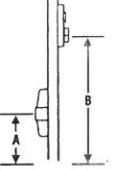
990EO  
696NL-R/V  
696TP-R/V  
697NL-R/V  
697TP-R/V  
KP992L-R/V  
994L-R/V  
110NL-WD

For complete outside trim information, see pages 18-19.

**For How-To-Order Information on all devices, see page 35.**

# VON DUPRIN®

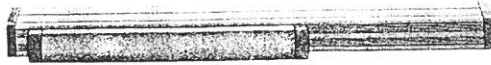
## 98/99 Trim Selection

Function	01 Exit Only	02 Pull When Dogged	03 Key Retracts Latch Bolt	03 Key Retracts Latch Bolt	05 Key Locks Thumbpiece	08* Key Locks Knob	08* Key Locks Lever	11 Key Locks Thumbturn
Trim Number and Dimensions		990DT  14 3/16" (360mm) 3" (76mm)	990NL  14 3/16" (360mm) 3" (76mm)	110NL (Pull Required)  Cylinder Only 1 1/4" (32mm) Rim	990TP  14 3/16" (360mm) 3" (76mm)	991K  10 5/8" (270mm) 2 5/8" (67mm)	992L  10 5/8" (270mm) 2 5/8" (67mm)	374T  7 1/2" (191mm) 1 3/4" (44mm)
Device/Trim Center Line To Finished Floor								
Projection	—	2" (51mm)	2" (51mm)	—	2" (51mm)	3 1/4" (95mm)	2 3/4" (70mm)	1 3/4" (44mm)
Rim	Panic	98EO 99EO	98DT 99DT	98NL 99NL	98NL-OP 99NL-OP	98TP 99TP	98K 99K	98L 99L
	Fire	98EO-F 99EO-F	—	98NL-F 99NL-F	98NL-OP-F 99NL-OP-F	98TP-F 99TP-F	98K-F 99K-F	98L-F 99L-F
	Ctr. Line	A 39 1/16" 1011mm	A 39 1/16" 1011mm B 33 1/16" 860mm	A 39 1/16" 1011mm B 33 1/16" 860mm	A 39 1/16" 1011mm B 40 1/16" 1018mm	A 39 1/16" 1011mm B 33 1/16" 860mm	A 39 1/16" 1011mm B 37 1/16" 945mm	A 39 1/16" 1011mm B 39 1/16" 945mm
Mortise Lock	Panic	987EO 997EO	987DT 997DT	987NL 997NL	—	987TP 997TP	987K 997K	987L 997L
	Fire	987EO-F 997EO-F	—	987NL-F 997NL-F	—	987TP-F 997TP-F	987K-F 997K-F	987L-F 997L-F
	Ctr. Line	A 39 1/16" 1006mm	A 39 1/16" 1006mm B 33 1/16" 856mm	A 39 1/16" 1006mm B 33 1/16" 856mm	A 39 1/16" 1006mm B 39 1/16" 1012mm	A 39 1/16" 1006mm B 33 1/16" 856mm	A 39 1/16" 1006mm B 37" 940mm	A 39 1/16" 1006mm B 37" 940mm
Surface Mounted Vertical Rod	Panic	982EO 992EO	982DT 992DT	982NL 992NL	982NL-OP 992NL-OP	982TP 992TP	982K 992K	982L 992L
	Fire	982EO-F 992EO-F	—	982NL-F 992NL-F	982NL-OP-F 992NL-OP-F	982TP-F 992TP-F	982K-F 992K-F	982L-F 992L-F
	Ctr. Line	A 39 1/16" 1006mm	A 39 1/16" 1006mm B 33 1/16" 856mm	A 39 1/16" 1006mm B 33 1/16" 856mm	A 39 1/16" 1006mm B 39 1/16" 1012mm	A 39 1/16" 1006mm B 33 1/16" 856mm	A 39 1/16" 1006mm B 37" 940mm	A 39 1/16" 1006mm B 37" 940mm
Concealed Vertical Rod	Panic	984EO 994EO	984DT 994DT	984NL 994NL	984NL-OP 994NL-OP	984TP 994TP	984K 994K	984L 994L
	Fire	984EO-F 994EO-F	—	984NL-F 994NL-F	984NL-OP-F 994NL-OP-F	984TP-F 994TP-F	984K-F 994K-F	984L-F 994L-F
	Ctr. Line	A 39 1/16" 1006mm	A 39 1/16" 1006mm B 33 1/16" 856mm	A 39 1/16" 1006mm B 33 1/16" 856mm	A 39 1/16" 1006mm B 39 1/16" 1012mm	A 39 1/16" 1006mm B 33 1/16" 856mm	A 39 1/16" 1006mm B 37" 940mm	A 39 1/16" 1006mm B 37" 940mm
Concealed Vertical Rod Wood Door	Panic	9847WDC-EO 9947WDC-EO	9847WDC-DT 9947WDC-DT	9847WDC-NL 9947WDC-NL	9847WDC-NL-OP 9947WDC-NL-OP	9847WDC-TP 9947WDC-TP	9847WDC-K 9947WDC-K	9847WDC-NL 9947WDC-NL
	Fire	9847WDC-EO-F 9947WDC-EO-F	—	9847WDC-NL-F 9947WDC-NL-F	9847WDC-NL-OP-F 9947WDC-NL-OP-F	9847WDC-TP-F 9947WDC-TP-F	9847WDC-K-F 9947WDC-K-F	9847WDC-L 9947WDC-L
	Ctr. Line	A 39 1/16" 1006mm	A 39 1/16" 1006mm B 33 1/16" 856mm	A 39 1/16" 1006mm B 33 1/16" 856mm	A 39 1/16" 1006mm B 39 1/16" 1012mm	A 39 1/16" 1006mm B 33 1/16" 856mm	A 39 1/16" 1006mm B 37" 940mm	A 39 1/16" 1006mm B 37" 940mm
Three Point Latch	Panic	985EO 995EO	985DT 995DT	—	—	985TP 995TP	985K 995K	985L 995L
	Fire	985EO-F 995EO-F	—	—	—	985TP-F 995TP-F	985K-F 995K-F	985L-F 995L-F
	Ctr. Line	A 39 1/16" 1006mm	A 39 1/16" 1006mm B 33 1/16" 856mm	A 39 1/16" 1006mm B 33 1/16" 856mm	A 39 1/16" 1006mm B 39 1/16" 1012mm	A 39 1/16" 1006mm B 33 1/16" 856mm	A 39 1/16" 1006mm B 37" 940mm	A 39 1/16" 1006mm B 37" 940mm
Additional SNB requirements	6	2	2	6	2	2	2	2

\*Refer to additional lever or knob information, page 19.

# VON DUPRIN® 98/99 Accessories

## DUMMY PUSH BAR



The 330 grooved and 350 smooth dummy push bars are designed as a companion unit for all 98 or 99 devices. The touch bar is rigid and non-functioning. A push/pull operation can be accomplished by using 990DT, 696DT, or 697DT trim.

To order, specify:

1. 330 or 350.
2. Size, 3' or 4' (914mm or 1219mm).
3. Finish, see page 35.

## CYLINDER DOGGING — CD



Cylinder dogging is available on all 98/99 devices to replace the standard hex key dogging. Furnished, not installed. Unit requires a standard 1 1/4" (32mm) mortise cylinder.

To order, specify:

1. Prefix CD, example CD99NL.

## CYLINDER DOGGING KIT — CDK

For field conversion, a cylinder dogging conversion kit is available. Order: 33/99CDK or 35/98CDK, specify finish.

## HEX KEY DOGGING KIT — HDK

For field conversion, a hex key dogging conversion kit is available. Order: 33/99HDK or 35/98HDK, specify finish.

## GLASS BEAD KIT

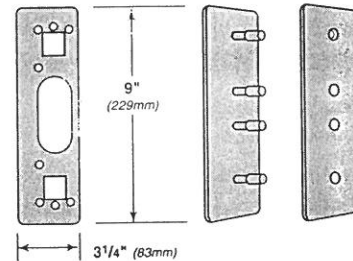
Glass bead conversion kits are available for all 99 Series devices for use on doors with raised glass beads. Each kit consists of 1/4" (6mm) shim sets.

To order, specify:

1. 99GBK.
2. Device type (rim, mortise, surface vertical and concealed vertical rod.)
3. Wood door, when used with concealed vertical.

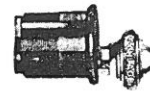
## COVER PLATES KIT — 997 KIT

For 99 rim device, kit contains inside and outside plates for hinge stile cutouts, an inside plate for the lock stile, and necessary screws. Plates are designed to cover cutouts required by most existing exit device installations. Specify finish.

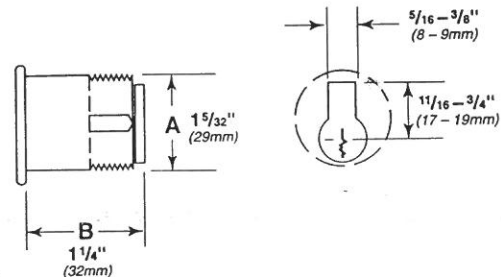


## CYLINDERS

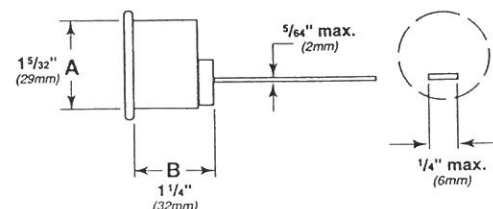
Cylinders are not furnished with device or trim and must be specified when ordering. Rim, surface vertical rod, and concealed vertical rod exit devices use rim type cylinders. Mortise lock exit devices and series 370 controls use mortise type cylinders.



Mortise — 3215 (Schlage B502-191 cam)



Rim — 3216



# VON DUPRIN®

## General Information

### UL LISTINGS

Most Von Duprin exit devices are UL listed for Accident Hazard or Fire Exit Hardware, and are tested in accordance to ANSI A156.3, 1994, Grade 1.

#### Accident hazard

To be UL listed a device must pass rigorous tests to prove it is mechanically sound and reliable.

One test puts the device through 100,000 controlled open and close cycles. In another, the activating mechanism is required to operate with 50 pounds of pressure or less when 250 pounds of pressure is applied to the door in the direction of the swing.

#### Fire exit hardware

To carry the UL label for Fire Exit Hardware, a device first must meet the Accident Hazard requirements. Secondly, the device must pass the burn test to prove that it can hold fire doors closed for up to a three hour period in temperatures over 1900°F. Immediately after burning, a fire hose with approximately 45 lbs. PSI pressure at the nozzle puts stress on the opening as a final test of the hardware's ability to hold the doors closed.

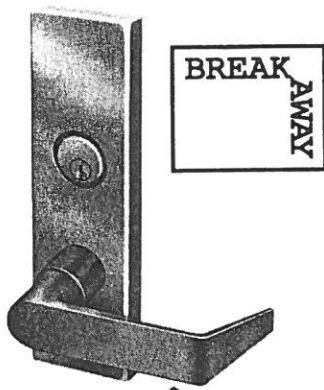
### ABBREVIATIONS

AL — Aluminum  
AN — Anodized  
ATMS — All template machine screws  
BRZ — Bronze  
CD — Cylinder dog  
CK — Conversion kit  
CVR — Concealed vertical rod  
CYL — Cylinder  
DR — Door  
DT — Dummy trim  
E — Electric trim  
EL — Electric latch retraction  
EO — Exit only  
FEH — Fire exit hardware  
FPH — Flat phillips head  
FR — Frame  
FS — Fail safe  
FSE — Fail secure  
HB — Hold back feature  
HM — Hollow metal  
IS — Inside  
K — Knob  
KA — Keyed alike  
KAL — Kalamein  
KR — Knob rigid  
KS — Knurled surface  
L — Lever  
LBR — Less bottom rods  
LHR — Left hand reverse bevel

LR — Latch retractor  
LX — Latchbolt monitor switch  
M — Mortise  
MS — Machine screws  
NL — Night latch action  
NL-OP — Night latch (optional pull)  
OA — Over all  
OPH — Oval phillips head  
OS — Outside  
OST — Outside trim  
PL — Pullman Latch  
PN — Pneumatic latch retraction  
R — Rim  
RHR — Right hand reverse bevel  
RX — Request to exit switch  
SHM — Stock hollow metal  
SNB — Sex nuts and bolts  
SS — Stainless steel  
SS — Signal switch  
SSKD — Stock size, knocked down  
STMS — Strike template machine screws  
TBSK — Touchbar switch kit  
TL — Turn level control  
TP — Thumbpiece action  
V — Vertical rod  
WD — Wood  
WDC — Wood door concealed  
WS — Wood screws



## VON DUPRIN® 98/99 Trim Selection



### **BREAKAWAY™ LEVER TRIM**



Breakaway Lever Trim Series 994L will significantly reduce damage from vandalism and abuse, while helping meet ADA-mandated accessibility standards. The patented Breakaway trim is available for Von Duprin Series 98 and 99 exit devices and can be installed on existing 992L lever trim prep for retrofit applications.

Lever trim, mandated on public buildings since January 26, 1992, is vulnerable to vandalism and abuse that can cause the lever or internal trim parts to break, rendering the door inoperable and necessitating costly, recurring repairs. The Breakaway design allows the lever to break away and drop into a "down" position when abused, discouraging further abuse and protecting its internal parts. Further, it can be easily reset to its operating position by a simple uplift motion.

When unlocked, the unit operates as a normal lever trim. When locked, the lever feels locked but when more than 35 pounds of torque are applied, the lever breaks away and travels to a 90-degree down position. To prevent further damage to internal trim parts or to the exit device, an easily replaced shear pin breaks at 65 to 75 pounds of torque.

Series 994L trim features a smooth precise operation and a flip cam design to allow easy handing in the field. Installation or repairs are simple. An embossed cylinder improves aesthetics and security.

The Breakaway design was lab tested to 500,000 cycles in the unlocked position and to 10,000 "break" cycles, after which it still maintained the required 35 pounds torque to break away.

All standard lever designs and function options are available.

#### **To order specify:**

1. 994L Trim.
2. Function option, NL, BE, or DT (see page 19).
3. Lever style, other than #06 (see page 19).

**Note:** Night latch and dummy trims have rigid levers and do not break away.

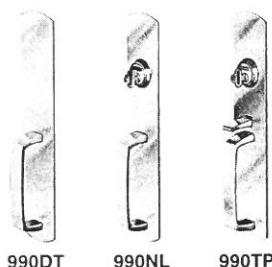


# VON DUPRIN® 98/99 Trim Selection

## STANDARD TRIM

### SERIES 990

Heavy 10 gauge (2.4mm) brass, bronze, or stainless steel. Available functions: 990DT, 990NL, and 990TP. Optional 990EO exit only trim plate is available in this series. When ordering with the exit device, use 99EOx990EO.



990DT

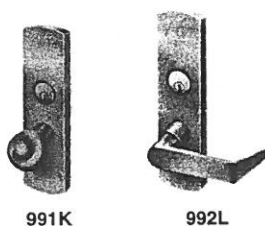
990NL

990TP

### SERIES 992L and 991K

**Lever trim** has a forged brass  $\frac{3}{4}$ " (19mm) thick escutcheon and is available in three operating options, 992LxDT, 992LxNL, and 992LxBE. Refer to operation options for additional information.

**Knob trim** has a forged brass  $\frac{3}{4}$ " (19mm) thick escutcheon and is available in three operating options, 991KxDT, 991KxNL, and 991KxBE. Refer to operation options for additional information.



991K

992L

## LEVER DESIGN OPTIONS



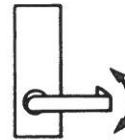
## OPERATION OPTIONS — LEVER AND KNOB



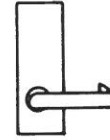
Standard operation, key locks and unlocks lever or knob.



Night latch, key retracts latch bolt. Lever or knob is rigid. Use NL suffix, e.g., 992L-NL.



Blank escutcheon, lever or knob always active. Use BE suffix, e.g., 992L-BE.



Dummy trim, lever or knob rigid for pull operation. Use DT suffix, e.g., 992L-DT.

### SERIES 370

Thumbturn control has a forged brass  $\frac{7}{8}$ " (22mm) thick escutcheon. Often used with DT trim or pull.

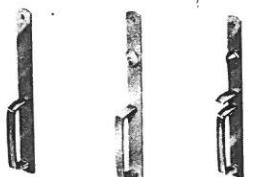


370

## OPTIONAL TRIM

### SERIES 696

Narrow design  $\frac{3}{16}$ " (5mm) thick brass, bronze, or stainless steel with flat pull grip. Available functions: 696DT, 696NL, and 696TP. When ordering with the exit device, specify trim. Example: 99NLx696NL.



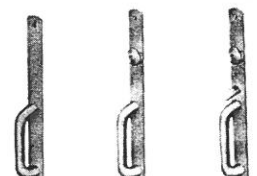
696DT

696NL

696TP

### SERIES 697

Narrow design  $\frac{3}{16}$ " (5mm) thick brass, bronze, or stainless steel with round pull grip. Available functions: 697DT, 697NL, and 697TP. When ordering with the exit device, specify trim. Example: 99NLx697NL.



697DT

697NL

697TP

### SERIES 392-7

Offset solid brass, bronze, or stainless steel  $\frac{3}{4}$ " (19mm) wire pull. Through bolts to exit device.



392-7

## INTERCHANGEABLE CORE MORTISE CYLS.

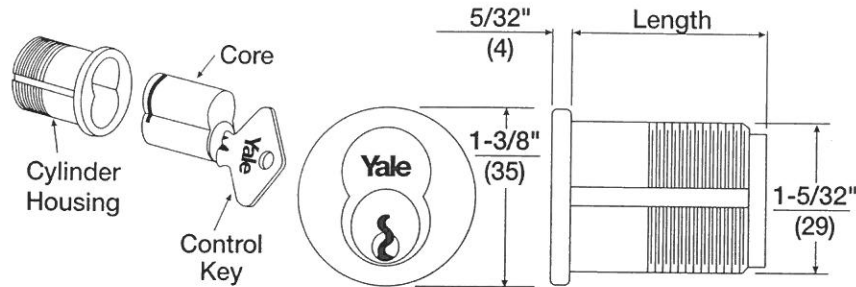
### Steel Case Mortise Locks

#### List Number 2196, 2197, 2196H, 2196S and 2197S

Cylinders are available as options for Yale mortise locks as listed in the chart. These cores are interchangeable with other Yale locks with corresponding interchangeable core list numbers.

**Cylinder Rings:** List number 1134, 1135 and 1765 are supplied with Yale mortise locks depending upon the trim design selected. Ring size and thickness must be supplied to suit the length of the cylinder, the thickness of the door and the type of trim ordered.

When ordered separately, list no. 1135 cylinder ring will be supplied. List numbers 1134 or 1765 are available to special order. When ordered separately, specify finish.



#### For Use With 4600, 8600 & 8700 Series Steel Case Mortise Locks

Cylinder List No.	Pins	Length	Housing Assy. Less Core	Core List No.	Cams
2196	6	1-1/2"	2221	1210	2160
2197	7	1-11/16"	2213	1220	2160
2196H	6	1-11/16"	2213	1210H	2160
2196S*	6	1-1/2"	2214S	1210	2130
2197S*	7	1-11/16"	2217S	1220	2130

\* For inside operation of 8717-2 and 8634-2 lock functions only.

**Note:** When ordering interchangeable core cylinders or cores only, control keys are not furnished. If control keys are required they must be ordered separately.

### Cast Iron Mortise Locks & Other Applications

#### List Numbers 1194 and 1196

Yale mortise locks are available with the Yale interchangeable core cylinders. These cores are interchangeable with other Yale brand products using corresponding core list nos. These cylinders are available in 6 or 7 pin systems as indicated in the chart.

**Cylinder Rings:** List numbers 1135 and/or 1134 cylinder rings are normally supplied with these cylinders. List no. 1765 cylinder ring is available to special order. Ring size and thickness must be supplied to suit the length of the cylinder, the thickness of the door and the type of trim ordered.

#### For Use With 4000/8000 Series Cast Iron Mortise Locks and Other Applications

Cylinder List No.	Pins	Length	Housing Assy. Less Core	Core List No.	Cams
1194	6	1-1/2"	1214	1210	1160E
1194	7	1-11/16"	1214H	1220	1160E
1194H	6	1-11/16"	1214H	1210H	1160E
1196†	6	1-1/2"	1221	1210	1160R
1196†	7	1-11/16"	1213	1220	1160R
1196H†	6	1-11/16"	1213	1210H	1160R
1198H**	6	1-11/16"	1213A	1210H	1160

\*\*Used with 7/8" throw deadbolts.

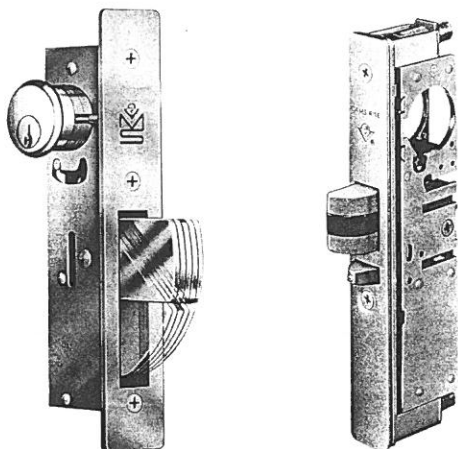
†Used with 1" throw deadbolts (300 Series Mortise locks).

**Note:** When ordering interchangeable core cylinders or cores only, control keys are not furnished. If control keys are required they must be ordered separately.



## CYLINDERS FOR NARROW STILE LOCKS

### AdamsRite® Style Locks



For use with AdamsRite MS® 1800 Series Locks and 4700 Series Latches

Cylinder x Cam List No.	Cam No.	Disc Part No.	Screw Size
1152 x 1161L Standard	1161L	10-6120-9010	3-48 x 1/4" FHMS Part No. 81-0011-0154
1194 x 1160L Interchangeable Core	1160L		3-48 x 7/32" FHMS Part No. 81-0011-1153
S1052H x 1161L Thumbturn	1161L		3-48 x 1/4" FHMS Part No. 81-0011-0154

### Comparative Chart of Cylinder Length and Ring Thickness for 1-3/4" Thick Narrow Stile Aluminum Doors

Cylinder x Cam List No.	Adams-Rite Lock Number	Cylinder Length	No. of Pins	Cylinder Ring
Standard 1152 x 1161L Cylinder	MS Series Locks	1" (25)	5	1134 - .250"
		1-1/8" (29)	6	1134 - .344"
		1-1/4" (32)	7	1134 - .500"
	4700 Series Latches	1" (25) 1-1/8" (29) 1-1/4" (32)	5 6 7	1134 - .250" 1134 - .344" 1134 - .500"
Interchangeable Core 1194 x 1160L Cylinder	MS Series Locks	1-1/2" (38)	6	1134 - .750"
		1-11/16" (43)	7	1134 - .937"
	4700 Series Latches	1-1/2" (38)	6	1134 - .656"
		1-11/16" (43)	7	1134 - .844"
S1052H x 1161L Thumbturn Cylinder	MS Series Locks	1-1/8" (29)	---	1134 - .250"
	4700 Series Latches	1-1/8" (29)	---	1134 - .156"

When ordering cylinder, specify length, number of pins, cylinder ring required and finish.

#### Example:

1152 x 1161L - 1-1/8" (29mm) 6 pin cylinder x 1134 - .344" cylinder ring - US26D

**NOTE:** 1134 cylinder ring length was determined by using the formula given in the Adams-Rite catalog.

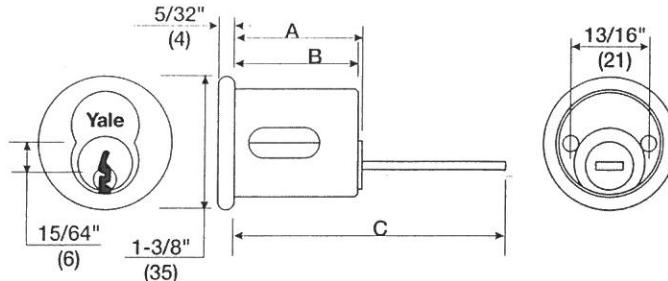
## AUXILIARY LOCK / RIM CYLINDERS

### List No. 1193 Rim Cylinder

Furnished where interchangeable core cylinders are used for all rim auxiliary locks and rim exit devices.

#### To Order Specify:

- List Number 1193
- Keying
  - Number of pins (6 or 7 pin).
  - Keyway
- Connecting Bar (#1145 or #1147)
- Finish (US3, US4, US10, US26, US26D or US32D Standard)
- Number of control keys required (None furnished unless ordered.)



List No.	No. of Pins	Core List No.	Housing List No.	Dim. A	Dim. B	Dim. C Connecting Bar List No.	
						#1145	#1147
1193	6	1210	1212	1-7/16 (37)	1-3/8 (27)	2-15/16 (75)	3-3/4 (95)
1193	7	1220	1212B	1-5/8 (27)	1-9/16 (40)	3-1/8 (79)	4-5/16 (110)

### List No. 1193L Rim Cylinder

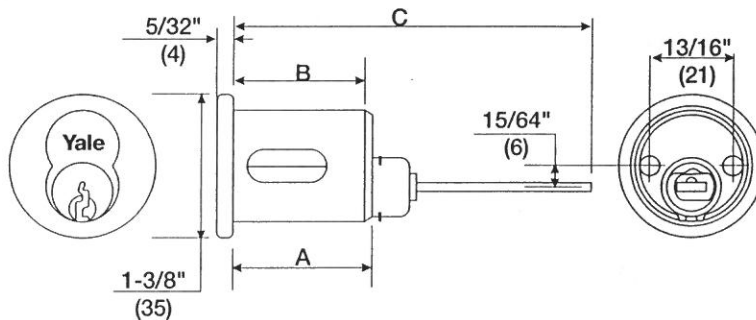
Used as an optional cylinder for auxiliary locks or exit devices when a lazy cam operation is required.

#### To Order Specify:

- List Number 1193L
- Keying
  - Level of Keying
  - Key Section
- Finish (US3, US4, US10, US26, or US26D Standard)

#### Example:

1193MK x GA x US26D



Application	Material	No. of Pins	Dim. A	Dim. B	Dim. C	Standard Cylinder Ring
Standard Rim Locks Exit Device Trims	Brass	6 (uses #1210 I. Core)	1-3/4 (45)	1-3/8 (35)	3-1/2 (89)	1762

### Cyls. for 3300 Series Deadlocks

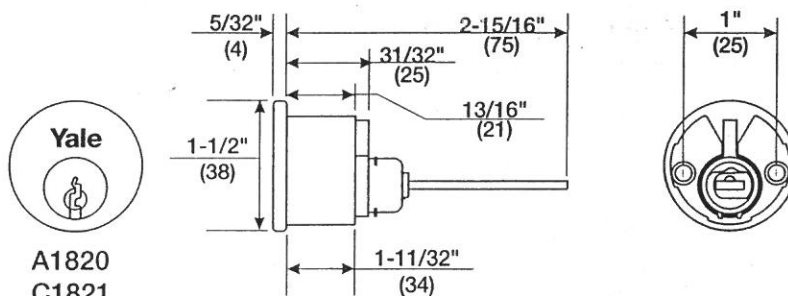
Used only for 3300 Series Deadlocks.

#### To Order Specify:

- List Number A1820, A1821, C1821
- Keying
  - Level of Keying
  - Key Section
- Finish (US3, US4, US10, US26, or US26D Standard)

#### Example:

A1820MK x GA x US26D



Application	List No. Outside Cylinder	List No. Inside Cylinder	Connecting Bar
Cyl. x T.T.	A1820	----	14-3211-1111-048
Cyl. x School T.T.	A1820	----	14-3211-1111-048
Cyl. x Blank Rose	A1820	----	14-3211-1111-048
Cyl. x Cyl.	C1821	A1821	14-3211-1111-048 I/S only
Blank Plate x Cyl.	----	A1821	14-3211-1111-048

A1821

